SUPPLEMENTAL MATERIAL

Supplemental Methods

Mendelian randomization (MR)

In the main MR analysis, estimates for each single-nucleotide polymorphism (SNP) were derived using the Wald ratio method, with standard errors estimated using second order weights to allow for measurement error in both the exposure and outcome estimates [1]. For drug targets with more than one related SNP, overall MR estimates were calculated by pooling individual MR estimates for each SNP using fixed-effects inverse-variance weighted (IVW) meta-analysis [1], and were scaled to the estimated effect of the corresponding drug target on systolic blood pressure (SBP) in randomized controlled trials (RCTs) [2], in order to reflect drug effect. After conversion of odds ratio estimates to relative risk (RR) using baseline incidences of CHD and stroke of 0.042 and 0.041 respectively from a systematic review of 613,815 participants enrolled in blood pressure lowering trials [3], MR results were compared with estimates from a recent Cochrane systematic review and meta-analysis of RCTs that investigated the effect of common antihypertensive drugs against placebo [2]. Sensitivity analyses were also performed using MR RR estimates derived from baseline CHD and stroke incidences of 1%, 5% and 10%.

Investigation of pleiotropy

Heterogeneity in the MR estimates generated by different SNPs can be used to indicate such pleiotropy [4], which was identified through a significant Cochran's Q test ($P<0.05$) or an I^2 measure of heterogeneity >30%. MR statistical sensitivity analyses that are more robust to the inclusion of pleiotropic variants were also performed. Firstly, the weighted median estimator was used, which obtains an overall MR estimate by ordering individual SNP MR estimates by their magnitude weighted for their precision, and is reliable when more than half the information for the analysis comes from valid instruments [5]. Secondly, the MR-Egger technique was performed, which regresses the SNP-outcome estimates against the SNP-exposure estimates, weighted for the precision of the

SNP-outcome estimates to give a reliable MR estimate and test for the presence of directional pleiotropy in scenarios where any pleiotropic effect of the genetic variants is independent of their association with the exposure [6]. Finally, MR-PRESSO was conducted, which performs a zero-intercept regression of the SNP-outcome estimates against the SNP-exposure estimates to test, using residual errors, whether there are outlier SNPs ($P<0.05$), and whether removing these changes the MR estimates generated [7]. MR-PRESSO generally requires that at least half of the genetic variants used do not relate to the outcome independently of the exposure [7]. Statistical sensitivity analyses in MR suffer from low power [4], and as such no formal statistical significance threshold was set for these.

Supplemental Results

Mendelian randomization

The main variants used to proxy drug class effect were based on genetic association estimates that corrected for antihypertensive medication use and adjusted for body mass index (BMI) [8]. To avoid possible bias related to medication non-compliance or introduction of collider effects respectively, sensitivity analyses were performed using the UK Biobank SBP GWAS that did not correct for medication use or adjust for BMI [9]. No suitable variants were identified for ACEI, two SNPs were identified as variants for BB (Supplementary Table 7), and six SNPs as variants for CCB (Supplementary Table 8). IVW MR produced estimates that were comparable to the main analysis, but with wider confidence intervals (Supplementary Figures 5-8). Searching PhenoScanner [10], possible pleiotropic effects were identified for one BB SNP and five CCB SNPs (details are provided in Supplementary Table 9). Repeating the IVW MR analysis after excluding these SNPs also produced similar estimates to the main analysis (Supplementary Figures 5-8).

There was only evidence of heterogeneity, suggesting possible bias related to pleiotropic SNPs, in the MR analysis of BBs on stroke risk (I^2 59%, Cochran's Q *P*=0.03). The MR-Egger intercept was not significant for directional pleiotropy for either BBs (CHD *P*=0.87 and stroke *P*=0.89) or CCBs (CHD *P*=0.89 and stroke *P*=0.51). MR-PRESSO only detected outlier SNPs in the analysis of BBs on stroke risk (2 outliers), with MR-PRESSO estimates that excluded these SNPs consistent with the main analysis results (Supplementary Figure 6). Estimates using MR-Egger regression, the weighted median approach and MR-PRESSO also produced similar estimates to the main IVW MR analyses (Supplementary Figures 5-8).

Supplemental Tables

Supplementary Table 1. Single-nucleotide polymorphisms (SNPs) related to systolic blood pressure at genome-wide significance, clumped to linkage disequilibrium $r^2 < 0.001$ using a 1000G European reference panel.

SNP	Chr	Pos	EA	OA	EAF	Effect	SE	P value	Total sample size	R^2	F statistic
rs7796	1	1684169	c	g	0.5114	0.3385	0.0314	5.00E-27	726899	4.60E-04	338
rs263532	1	2164116	t	c	0.5755	0.1798	0.0307	4.72E-09	735052	2.40E-04	178
rs2493296	1	3327032	t	c	0.1425	0.4183	0.0442	3.14E-21	724085	2.80E-04	204
rs10779795	1	6677064	a	g	0.6613	0.2191	0.032	7.44E-12	729906	2.70E-04	197
rs488834	1	10767902	t	c	0.7645	-0.3799	0.0365	2.35E-25	724655	3.80E-04	273
rs6699618	1	11881441	c	g	0.8401	0.9115	0.041	1.68E-109	738170	6.70E-04	497
rs75461554	1	15810172	t	c	0.2007	-0.3016	0.0377	1.18E-15	738168	2.70E-04	196
rs1889785	1	16348729	a	g	0.4552	0.1782	0.0304	4.35E-09	738170	2.40E-04	179
rs404100	1	25366987	t	c	0.4513	0.1935	0.0303	1.68E-10	737164	2.60E-04	194
rs34079867	1	27407850	t	c	0.266	0.1992	0.0354	1.78E-08	737163	2.10E-04	158
rs4908348	1	28706949	t	g	0.6944	0.2366	0.033	8.07E-13	737164	2.80E-04	204
rs11210029	1	41865293	a	g	0.6322	-0.203	0.0313	8.92E-11	737056	2.60E-04	191
rs1408945	1	42364877	t	g	0.4243	-0.3196	0.0304	8.33E-26	737056	4.30E-04	316
rs1209384	1	43765089	a	g	0.3878	0.2558	0.0313	2.85E-16	733288	3.30E-04	245
rs778124	1	56606206	a	g	0.3736	0.2965	0.0311	1.45E-21	738170	3.80E-04	282
rs61772592	1	56979681	a	g	0.8745	-0.3181	0.0455	2.86E-12	738170	1.90E-04	142
rs12063372	1	59621911	a	g	0.3846	0.1989	0.0318	3.86E-10	737165	2.60E-04	191
rs12136922	1	67007389	a	g	0.4949	0.2027	0.0304	2.69E-11	719076	2.80E-04	200
rs658780	1	78555928	t	g	0.7447	-0.2028	0.0347	5.29E-09	737164	2.10E-04	156
rs786923	1	89242954	t	c	0.6239	-0.3082	0.031	2.83E-23	737055	4.00E-04	293
rs7514579	1	94051350	a	c	0.7712	0.2243	0.0361	5.45E-10	738168	2.20E-04	161
rs10776752	1	113044328	t	g	0.0809	0.8211	0.0576	4.61E-46	738168	3.40E-04	248
rs59980837	1	115827266	t	g	0.0178	1.0997	0.1163	3.32E-21	734855	1.10E-04	78
rs11585169	1	150572037	a	t	0.5773	0.1796	0.0308	5.34E-09	728445	2.40E-04	176
rs76719272	1	156129796	t	c	0.1312	-0.2738	0.0461	2.97E-09	737164	1.70E-04	127
rs12731646	1	169090660	t	c	0.409	-0.189	0.0307	7.21E-10	737225	2.50E-04	185
rs1043069	1	180859368	t	g	0.6156	0.234	0.0311	5.26E-14	738169	3.00E-04	225
rs4651224	1	184585182	t	c	0.4474	0.1986	0.0306	9.00E-11	737054	2.70E-04	199
rs12042924	1	197297417	t	c	0.5284	-0.1807	0.0303	2.62E-09	738170	2.50E-04	183
rs11120093	1	207211326	t	c	0.4082	-0.1792	0.0307	5.13E-09	738170	2.40E-04	176
rs2724377	1	207974818	a	g	0.5303	0.1938	0.0301	1.29E-10	738170	2.70E-04	196
rs7555285	1	209970355	c	g	0.8011	0.2294	0.0376	1.05E-09	738168	2.00E-04	148
rs68085857	1	217737629	t	c	0.234	0.274	0.0357	1.68E-14	738167	2.70E-04	199
rs72742507	1	221265336	t	c	0.2999	-0.2053	0.0328	3.80E-10	738170	2.40E-04	175
rs708117	1	228199902	a	g	0.5203	0.2874	0.0302	1.59E-21	738170	3.90E-04	291
rs699	1	230845794	a	g	0.5928	-0.3748	0.0308	5.59E-34	721189	5.00E-04	359
rs1565440	1	243387788	a	g	0.3752	0.1746	0.0311	1.94E-08	738169	2.20E-04	166
rs4926499	1	249155909	c	g	0.8263	0.2965	0.0438	1.33E-11	711084	2.30E-04	166
rs17760259	2	19744462	t	c	0.5724	-0.2654	0.0304	2.25E-18	738170	3.60E-04	264
rs2384063	2	25187115	t	c	0.7607	0.3266	0.0357	6.33E-20	737164	3.30E-04	241
rs1275988	2	26914364	t	c	0.6112	-0.541	0.0308	4.42E-69	738170	7.10E-04	522

rs13420463	2	37517566	a	g	0.7734	0.3143	0.036	2.72E-18	729450	3.00E-04	221
rs4952609	2	40555733	a	g	0.7439	0.2124	0.0347	9.60E-10	737163	2.20E-04	164
rs115262049	2	43196694	a	t	0.9132	0.5893	0.0552	1.29E-26	738168	2.60E-04	190
rs12464602	2	43397614	a	g	0.6208	-0.2437	0.0315	1.02E-14	738170	3.20E-04	233
rs13016772	2	55779476	t	c	0.7651	0.2522	0.0355	1.23E-12	738168	2.50E-04	184
rs2249105	2	65287896	a	g	0.6321	0.2927	0.0313	7.63E-21	729908	3.70E-04	273
rs10188003	2	66773469	t	c	0.393	0.1883	0.0307	8.80E-10	737056	2.50E-04	182
rs6731373	2	68503044	a	g	0.3492	0.1913	0.0326	4.18E-09	737164	2.40E-04	176
rs6732123	2	69534650	c	g	0.4174	-0.1737	0.0307	1.52E-08	738169	2.30E-04	171
rs4577304	2	73403040	t	c	0.5233	-0.1767	0.0302	4.99E-09	738170	2.40E-04	179
rs72847885	2	86326717	a	g	0.663	0.2413	0.0318	3.08E-14	737055	3.00E-04	219
rs10207726	2	112744260	t	c	0.296	-0.2142	0.033	8.06E-11	738169	2.50E-04	181
rs6737318	2	114083120	a	g	0.7782	0.2348	0.0364	1.13E-10	738168	2.20E-04	165
rs2580350	2	121996007	a	g	0.5609	0.1769	0.0307	8.39E-09	737163	2.40E-04	177
rs17257081	2	135630498	a	g	0.8065	0.2274	0.0392	6.35E-09	722234	2.00E-04	141
rs55944332	2	145726621	a	g	0.7632	-0.2613	0.0355	1.79E-13	738168	2.60E-04	192
rs62170470	2	146989797	t	c	0.6017	0.1972	0.0321	7.69E-10	728446	2.60E-04	189
rs62187653	2	162469128	t	c	0.9029	0.3286	0.0511	1.23E-10	738168	1.60E-04	117
rs4667454	2	164867726	a	g	0.6705	0.2636	0.0322	2.63E-16	738169	3.20E-04	236
rs73029563	2	165008166	c	g	0.4549	-0.514	0.0304	4.20E-64	737165	7.00E-04	517
rs11694601	2	174949358	a	g	0.5968	-0.1909	0.0309	6.41E-10	729908	2.50E-04	184
rs34727427	2	177016728	t	c	0.6832	-0.2353	0.0324	4.02E-13	738169	2.80E-04	207
rs1882212	2	182981968	a	g	0.7793	0.2753	0.0363	3.34E-14	737054	2.60E-04	192
rs13412750	2	191634958	a	g	0.2708	-0.2889	0.0341	2.33E-17	729907	3.10E-04	229
rs12693982	2	204085635	t	c	0.4024	0.2575	0.0309	7.49E-17	735106	3.40E-04	250
rs3845811	2	208521512	c	g	0.5661	-0.2942	0.0309	1.88E-21	737165	4.00E-04	293
rs12694277	2	213188795	t	c	0.2946	-0.2018	0.0335	1.80E-09	738169	2.30E-04	170
rs2161967	2	218680529	t	g	0.4279	0.2836	0.0307	2.87E-20	738169	3.80E-04	282
rs3828282	2	218779144	c	g	0.4279	0.1857	0.0318	5.29E-09	737165	2.50E-04	184
rs10804330	2	227185749	t	c	0.5668	0.2351	0.0306	1.62E-14	736111	3.20E-04	234
rs1044822	2	230629138	t	c	0.1482	-0.248	0.0424	5.16E-09	738169	1.70E-04	127
rs28365916	2	231280791	t	c	0.4145	-0.1713	0.0306	2.24E-08	737163	2.30E-04	169
rs139354822	2	242344695	t	c	0.9704	0.6115	0.0975	3.51E-10	720286	9.70E-05	70
rs9848170	3	11495983	c	g	0.597	0.3231	0.0307	7.01E-26	738170	4.30E-04	316
rs11925504	3	14943965	a	g	0.5721	-0.2901	0.0305	1.78E-21	737164	3.90E-04	288
rs189267552	3	20073193	a	t	0.0132	-0.8664	0.139	4.55E-10	735474	6.20E-05	46
rs2643826	3	27562988	t	c	0.4505	0.4473	0.0306	1.74E-48	738169	6.10E-04	450
rs68115553	3	27704702	a	g	0.9801	-0.6445	0.1143	1.74E-08	727329	6.90E-05	50
rs743395	3	37598382	t	c	0.3834	0.2597	0.0317	2.55E-16	737165	3.40E-04	249
rs6788984	3	41107173	a	g	0.8563	0.2999	0.0432	3.81E-12	738169	2.00E-04	150
rs1052501	3	41925398	t	c	0.8329	0.2262	0.0412	4.14E-08	729908	1.70E-04	126
rs6771917	3	48108442	t	c	0.2477	-0.3793	0.0355	1.39E-26	738168	3.90E-04	287
rs7615099	3	53143901	a	g	0.6675	0.1891	0.0321	3.90E-09	737163	2.30E-04	170
rs6445583	3	53562894	a	g	0.7465	0.2774	0.0349	1.90E-15	738167	2.90E-04	213
rs3772219	3	56771251	a	c	0.6824	0.2733	0.0324	3.10E-17	738170	3.30E-04	240
rs7618284	3	66422246	c	g	0.3394	-0.1891	0.0331	1.10E-08	737164	2.30E-04	172

rs4499560	3	70920485	a	t	0.3171	-0.2199	0.0326	1.46E-11	737162	2.60E-04	193
rs9857362	3	74710462	a	c	0.5291	0.1727	0.0306	1.62E-08	721189	2.40E-04	171
rs1375564	3	85656311	t	c	0.6395	0.2579	0.0315	2.84E-16	736109	3.30E-04	241
rs12637573	3	121682388	a	g	0.4718	-0.1731	0.0302	9.95E-09	737164	2.40E-04	175
rs6438857	3	124557643	t	c	0.5774	0.2736	0.0305	3.13E-19	738170	3.70E-04	271
rs9880098	3	133949366	a	g	0.3946	0.3081	0.0308	1.59E-23	738169	4.00E-04	299
rs1199330	3	138101529	a	g	0.8824	-0.2654	0.047	1.65E-08	729906	1.50E-04	111
rs9876694	3	141152017	t	c	0.0584	0.4713	0.0651	4.64E-13	737055	1.40E-04	105
rs4408839	3	153729768	a	g	0.7433	-0.2301	0.0345	2.43E-11	738168	2.40E-04	178
rs79539362	3	154680449	t	c	0.8992	0.4003	0.0504	2.09E-15	738166	2.00E-04	147
rs17684859	3	158213841	t	c	0.7335	-0.2241	0.034	4.24E-11	738170	2.40E-04	178
rs3980686	3	168697602	t	g	0.1075	-0.4998	0.0487	1.03E-24	738167	2.60E-04	195
rs1290784	3	169096900	t	c	0.4483	0.4124	0.0303	2.97E-42	736111	5.60E-04	413
rs2111557	3	169325621	t	c	0.4675	0.1764	0.0302	5.22E-09	738170	2.40E-04	178
rs4955575	3	169534538	a	c	0.7461	0.2158	0.0348	5.63E-10	738169	2.20E-04	166
rs262986	3	183435713	a	g	0.4704	-0.2371	0.0305	7.67E-15	738170	3.20E-04	240
rs13091418	3	185329756	c	g	0.6659	-0.2234	0.0325	6.15E-12	737163	2.70E-04	201
rs9869437	3	196228360	a	c	0.3523	-0.2001	0.0318	3.22E-10	737165	2.50E-04	185
rs34535756	4	2246927	t	c	0.0394	0.478	0.0786	1.18E-09	737053	9.90E-05	73
rs1290933	4	2668217	a	c	0.6919	-0.2847	0.0327	3.17E-18	738170	3.30E-04	246
rs2498323	4	3451109	a	g	0.098	0.3171	0.0517	8.52E-10	736057	1.50E-04	113
rs2610990	4	18008232	a	g	0.2641	-0.2903	0.0343	2.86E-17	735152	3.10E-04	228
rs55924432	4	26812737	t	c	0.401	0.2651	0.0317	5.70E-17	734146	3.50E-04	257
rs2291434	4	38387244	t	g	0.5335	-0.2622	0.0303	5.10E-18	735151	3.60E-04	264
rs12511987	4	46595623	t	g	0.8226	-0.2329	0.0399	5.39E-09	738169	1.90E-04	138
rs62309747	4	48713862	a	g	0.4734	-0.2244	0.0304	1.59E-13	737165	3.10E-04	227
rs60991988	4	54801228	t	g	0.8931	0.3789	0.0498	2.82E-14	729449	2.00E-04	145
rs13107261	4	63768826	a	g	0.3687	-0.1778	0.0314	1.57E-08	729906	2.30E-04	166
rs10008637	4	77414144	t	c	0.5405	0.2157	0.0302	9.24E-13	738169	2.90E-04	217
rs12509595	4	81182554	t	c	0.7077	-0.8367	0.0334	2.55E-138	737164	9.50E-04	702
rs60909079	4	83830244	c	g	0.2492	-0.2114	0.0351	1.73E-09	735151	2.20E-04	160
rs17010957	4	86719165	t	c	0.8537	-0.534	0.043	1.78E-35	735152	3.70E-04	270
rs10028284	4	89752913	a	t	0.8184	0.2937	0.0398	1.69E-13	734146	2.40E-04	176
rs13107325	4	103188709	t	c	0.0739	-0.9086	0.0592	4.22E-53	735152	3.40E-04	251
rs11097909	4	106911321	t	c	0.1472	-0.3628	0.043	3.35E-17	735150	2.50E-04	184
rs1493132	4	108861082	t	c	0.6603	-0.1766	0.0318	2.73E-08	735150	2.20E-04	160
rs1814951	4	111408718	a	g	0.8785	-0.3231	0.0466	3.91E-12	735150	1.90E-04	139
rs4834792	4	120555696	a	t	0.4796	0.1973	0.0303	7.24E-11	735152	2.70E-04	199
rs7439567	4	138464842	t	c	0.4106	0.2537	0.0309	2.31E-16	734147	3.40E-04	248
rs72719160	4	144051276	a	t	0.6829	-0.2243	0.0324	4.34E-12	735151	2.70E-04	196
rs2353940	4	145740898	t	c	0.7507	-0.2075	0.0358	6.85E-09	732820	2.10E-04	156
rs73855810	4	148383424	a	g	0.1406	0.2732	0.0434	3.04E-10	738169	1.80E-04	134
rs7683728	4	156402654	t	c	0.5312	-0.3654	0.0304	2.43E-33	728337	5.00E-04	364
rs12643599	4	156639846	a	g	0.6395	0.3134	0.0313	1.23E-23	738170	4.00E-04	293
rs17035181	4	157678511	t	g	0.8552	0.3074	0.0429	7.61E-13	737055	2.10E-04	154
rs869396	4	169688000	a	c	0.4659	-0.2115	0.0305	4.12E-12	737165	2.90E-04	213

rs4957026	5	361148	a	g	0.3399	0.1982	0.0323	8.12E-10	735051	2.40E-04	180
rs10069690	5	1279790	t	c	0.2582	0.3098	0.0369	4.47E-17	707524	3.30E-04	231
rs7725413	5	15695987	t	c	0.7699	-0.1985	0.0359	3.07E-08	737054	1.90E-04	143
rs12656497	5	32831939	t	c	0.4034	-0.6382	0.0307	7.14E-96	736111	8.40E-04	622
rs10941043	5	33194751	t	g	0.7098	-0.2585	0.0332	6.42E-15	738168	2.90E-04	216
rs2113077	5	50799442	a	g	0.4303	0.2097	0.0305	6.09E-12	737056	2.80E-04	208
rs1694068	5	53283630	a	t	0.6139	0.2657	0.0311	1.18E-17	738169	3.50E-04	256
rs13179413	5	55868097	t	c	0.2819	0.2238	0.0347	1.08E-10	737164	2.50E-04	184
rs34496659	5	61798934	a	g	0.0702	0.4545	0.0616	1.54E-13	738167	1.60E-04	120
rs6870654	5	63831964	t	c	0.7454	0.2136	0.0347	7.58E-10	729908	2.20E-04	163
rs4286632	5	66291370	a	g	0.7306	0.211	0.0343	7.64E-10	738169	2.30E-04	169
rs7703560	5	67678506	a	g	0.7002	-0.2246	0.0333	1.51E-11	729449	2.60E-04	189
rs246973	5	68007803	t	c	0.2882	0.2479	0.0335	1.45E-13	737164	2.80E-04	206
rs6452769	5	87389027	a	g	0.2053	-0.3143	0.0377	7.82E-17	737165	2.80E-04	208
rs76443575	5	96211594	c	g	0.0359	-0.5233	0.0816	1.40E-10	737711	1.00E-04	73
rs1871190	5	97953719	t	g	0.3349	0.1954	0.0324	1.66E-09	737164	2.40E-04	176
rs11241313	5	114428167	t	c	0.3112	-0.2071	0.0326	2.23E-10	738169	2.40E-04	180
rs1624822	5	122475437	t	c	0.6195	-0.3362	0.0312	5.12E-27	738168	4.40E-04	322
rs9327297	5	122835051	c	g	0.6676	0.2747	0.0319	8.07E-18	738169	3.40E-04	247
rs758180	5	127354423	a	t	0.2245	0.2084	0.0367	1.35E-08	736049	2.00E-04	147
rs6892983	5	127845030	a	c	0.4022	0.3427	0.0307	7.11E-29	737164	4.50E-04	334
rs702395	5	140086677	t	c	0.4369	0.2318	0.0305	3.24E-14	737165	3.10E-04	231
rs2913920	5	141726983	t	c	0.765	0.2418	0.0359	1.62E-11	735150	2.40E-04	176
rs1957563	5	157474590	t	c	0.265	0.3629	0.0342	2.32E-26	735150	3.90E-04	286
rs11960210	5	157817634	t	c	0.6245	0.4727	0.0313	1.25E-51	726890	6.10E-04	443
rs13358657	5	157938070	a	g	0.8668	-0.388	0.0445	2.95E-18	735151	2.50E-04	181
rs3860770	5	173301427	a	g	0.2916	-0.2663	0.0333	1.20E-15	733093	3.00E-04	222
rs12153395	5	179411477	a	g	0.1147	-0.3303	0.0486	1.07E-11	734145	1.80E-04	135
rs2745599	6	1613686	a	g	0.552	0.2164	0.0317	8.96E-12	728445	2.90E-04	214
rs1575290	6	7715689	t	c	0.4733	0.1973	0.0301	5.59E-11	738170	2.70E-04	200
rs1630736	6	12295987	t	c	0.465	-0.1706	0.0309	3.52E-08	737165	2.30E-04	172
rs9349379	6	12903957	a	g	0.593	0.2664	0.0312	1.31E-17	737164	3.50E-04	261
rs9368222	6	20686996	a	c	0.2688	0.2281	0.0339	1.84E-11	738169	2.50E-04	182
rs9393231	6	22123695	a	c	0.4924	-0.2148	0.0309	3.39E-12	737164	3.00E-04	218
rs7753826	6	26042239	a	t	0.1899	0.4276	0.0385	9.96E-29	738170	3.60E-04	267
rs2596498	6	31322688	t	c	0.6379	-0.233	0.0337	4.90E-12	692081	3.00E-04	205
rs3132442	6	31839494	t	c	0.5199	0.3931	0.0304	2.65E-38	727903	5.40E-04	393
rs7763558	6	43349215	a	g	0.3241	0.3363	0.0321	1.17E-25	738170	4.00E-04	299
rs11967262	6	43760327	c	g	0.5132	-0.1715	0.0311	3.43E-08	730376	2.40E-04	172
rs78648104	6	50683009	t	c	0.9075	-0.4287	0.0541	2.37E-15	735105	2.00E-04	145
rs1984195	6	79657391	a	g	0.4887	0.2409	0.0303	1.77E-15	729908	3.30E-04	242
rs9361836	6	82235408	t	c	0.3172	0.2196	0.0324	1.25E-11	738170	2.60E-04	193
rs6921291	6	97066242	t	c	0.1907	0.3575	0.0385	1.58E-20	738169	3.00E-04	224
rs9486916	6	109013930	t	c	0.1979	0.2657	0.0385	5.42E-12	729449	2.30E-04	169
rs961764	6	117522156	c	g	0.4254	-0.1909	0.0305	3.75E-10	738170	2.60E-04	189
rs10782230	6	126228512	a	g	0.4845	0.2106	0.0302	2.91E-12	738169	2.90E-04	214

rs9401913	6	127159982	a	g	0.4387	0.5202	0.0305	3.66E-65	738170	7.00E-04	520
rs9285476	6	134159976	c	g	0.7071	0.1844	0.0333	3.07E-08	738169	2.10E-04	155
rs13204703	6	140692862	t	c	0.7511	0.1967	0.035	1.94E-08	738168	2.00E-04	149
rs8180684	6	143200936	t	c	0.2896	0.2134	0.0335	1.80E-10	737164	2.40E-04	178
rs7765526	6	147713764	a	g	0.4633	0.201	0.0307	5.88E-11	737165	2.70E-04	203
rs17080102	6	151004770	c	g	0.0694	-0.8085	0.0594	3.52E-42	738169	2.90E-04	212
rs1293969	6	151959945	t	c	0.7484	-0.1988	0.0347	1.03E-08	738169	2.10E-04	152
rs509833	6	159711515	a	g	0.1386	0.329	0.044	7.08E-14	737164	2.20E-04	159
rs12661036	6	163737476	t	c	0.775	-0.2104	0.0374	1.82E-08	737165	2.00E-04	149
rs7744902	6	166176722	a	g	0.0766	-0.4088	0.0593	5.64E-12	713753	1.60E-04	113
rs6978112	7	1966841	t	c	0.4112	0.2286	0.0309	1.34E-13	735052	3.00E-04	224
rs10282122	7	2529623	t	c	0.6684	-0.302	0.0327	2.46E-20	735052	3.70E-04	271
rs73049928	7	4669949	a	g	0.8061	-0.2382	0.0392	1.20E-09	737053	2.00E-04	151
rs3807925	7	18543250	a	g	0.6496	-0.1859	0.0319	5.39E-09	736051	2.30E-04	171
rs28688791	7	19039605	t	c	0.8018	-0.3222	0.038	2.34E-17	738167	2.80E-04	208
rs112509803	7	24735004	c	g	0.1138	-0.2641	0.0477	3.18E-08	738168	1.50E-04	108
rs3735533	7	27245893	t	c	0.0743	-0.91	0.0577	5.29E-56	737165	3.40E-04	254
rs6961048	7	27328187	c	g	0.896	-0.5304	0.0497	1.43E-26	734292	2.70E-04	200
rs11977526	7	46008110	a	g	0.4009	-0.3213	0.0312	6.62E-25	732149	4.20E-04	311
rs12668436	7	47548893	t	c	0.7541	-0.2151	0.035	7.88E-10	738168	2.20E-04	162
rs848445	7	77572461	t	c	0.2851	-0.2025	0.0339	2.28E-09	738169	2.30E-04	168
rs67617547	7	90297177	c	g	0.6697	0.1799	0.0322	2.39E-08	738168	2.20E-04	162
rs42032	7	92237426	a	g	0.2641	-0.3231	0.0345	7.39E-21	736050	3.50E-04	254
rs2392929	7	106414069	t	g	0.7973	-0.7507	0.0379	1.96E-87	737165	6.70E-04	492
rs34072724	7	130432469	a	g	0.4889	-0.2422	0.0303	1.37E-15	736111	3.30E-04	245
rs35680304	7	130973495	t	c	0.5929	0.2694	0.031	3.76E-18	736051	3.60E-04	263
rs75672964	7	131321010	t	c	0.0418	0.5885	0.0839	2.35E-12	712274	1.30E-04	92
rs6957161	7	131361319	a	g	0.2618	0.2064	0.0345	2.20E-09	735052	2.20E-04	161
rs73727605	7	149474622	a	g	0.0663	0.3616	0.0623	6.60E-09	726466	1.20E-04	89
rs3918226	7	150690176	t	c	0.0811	0.664	0.0575	8.46E-31	731379	2.70E-04	199
rs10224210	7	151413194	t	c	0.7211	-0.3831	0.034	1.60E-29	738170	4.20E-04	313
rs1870735	7	155744303	c	g	0.4531	0.206	0.0311	3.61E-11	737163	2.80E-04	207
rs71499040	8	1711918	c	g	0.7076	0.2215	0.0338	5.63E-11	732671	2.50E-04	185
rs1821002	8	10640065	c	g	0.4108	0.3794	0.0307	5.19E-35	738169	5.00E-04	373
rs7844887	8	23402482	a	g	0.2208	0.2662	0.0363	2.40E-13	738169	2.50E-04	186
rs7821832	8	25889446	t	g	0.7447	0.4222	0.0348	6.67E-34	729908	4.40E-04	322
rs77375686	8	26043622	a	g	0.8883	-0.3467	0.0485	8.38E-13	738166	1.90E-04	140
rs1906672	8	38130025	a	g	0.2319	0.2966	0.0358	1.20E-16	738169	2.90E-04	214
rs4873492	8	51947549	t	c	0.1724	0.3431	0.0403	1.61E-17	738170	2.70E-04	199
rs2354862	8	64501744	a	c	0.6407	0.2507	0.0317	2.42E-15	729451	3.20E-04	231
rs13253358	8	68920135	t	c	0.2979	0.2127	0.033	1.13E-10	738169	2.40E-04	181
rs2126474	8	76878957	t	g	0.4125	-0.2601	0.0306	1.87E-17	737054	3.50E-04	255
rs9918876	8	77681097	a	c	0.1037	-0.2975	0.0498	2.28E-09	738167	1.50E-04	112
rs148401029	8	81386066	a	c	0.0352	-0.4623	0.0848	4.97E-08	738168	8.60E-05	64
rs10091532	8	82853793	a	c	0.4168	-0.2067	0.0305	1.33E-11	738170	2.80E-04	204
rs843093	8	92528310	a	g	0.7088	-0.2085	0.0338	6.95E-10	737165	2.40E-04	174

rs2613203	8	95253197	a	t	0.8148	-0.2681	0.0389	5.81E-12	738168	2.20E-04	164
rs79069610	8	105921209	t	c	0.95	-0.4005	0.0727	3.68E-08	738168	1.00E-04	77
rs35783704	8	105966258	a	g	0.1042	-0.4619	0.0507	8.81E-20	737055	2.40E-04	175
rs7830607	8	110097287	a	g	0.3046	-0.206	0.0327	3.09E-10	738170	2.40E-04	177
rs2470004	8	120358445	t	c	0.8175	-0.3454	0.0392	1.28E-18	738168	2.80E-04	209
rs6986368	8	126513197	a	t	0.6726	-0.2132	0.0329	9.62E-11	726538	2.60E-04	188
rs2608029	8	129170126	c	g	0.6653	0.1805	0.032	1.61E-08	737164	2.20E-04	163
rs4260863	8	129386613	c	g	0.6163	0.1911	0.0314	1.17E-09	725573	2.50E-04	180
rs7012866	8	135616959	t	g	0.4991	-0.2325	0.0301	1.21E-14	737165	3.20E-04	236
rs4440615	8	141057641	a	g	0.6321	-0.2201	0.0312	1.87E-12	738170	2.80E-04	208
rs4961293	8	141812374	t	c	0.4513	0.2268	0.0303	7.35E-14	738169	3.10E-04	228
rs7463212	8	143991858	a	t	0.5445	-0.2753	0.0305	1.81E-19	728903	3.80E-04	274
rs60191654	9	753648	a	g	0.8118	-0.2382	0.0385	5.88E-10	745818	2.00E-04	149
rs927315	9	4117713	t	c	0.4713	0.1689	0.0303	2.44E-08	744705	2.30E-04	172
rs1332813	9	9350706	t	c	0.3514	0.2203	0.0314	2.32E-12	745819	2.80E-04	206
rs9886665	9	22942770	t	c	0.2671	0.2048	0.0343	2.47E-09	736095	2.20E-04	162
rs4553000	9	34223553	t	c	0.5141	-0.2035	0.03	1.09E-11	745820	2.80E-04	208
rs76452347	9	35906471	t	c	0.205	-0.2974	0.0397	7.13E-14	743700	2.70E-04	198
rs1410222	9	77239540	t	c	0.8166	0.2173	0.0388	2.17E-08	745818	1.80E-04	133
rs7045409	9	95201540	a	t	0.3669	-0.1862	0.0313	2.55E-09	741943	2.40E-04	176
rs10980408	9	113249071	t	c	0.9641	-0.7606	0.0827	3.83E-20	745817	1.40E-04	108
rs7026176	9	116670743	t	g	0.5118	-0.1869	0.0299	4.01E-10	745820	2.60E-04	192
rs34025993	9	123516572	a	g	0.414	0.223	0.0308	4.71E-13	744814	3.00E-04	222
rs4838021	9	125657099	t	c	0.1289	-0.3009	0.0453	3.13E-11	737097	1.90E-04	137
rs13289468	9	128180332	a	c	0.5743	0.2488	0.0306	3.93E-16	744815	3.30E-04	249
rs6271	9	136522274	t	c	0.0735	-0.5547	0.0611	1.18E-19	736797	2.10E-04	153
rs11145807	9	139520789	a	g	0.4057	0.2135	0.0322	3.54E-11	721505	2.80E-04	204
rs11252324	10	4124568	t	g	0.0771	-0.4164	0.0573	3.61E-13	738167	1.60E-04	120
rs1623474	10	18471794	t	c	0.3303	0.3827	0.0321	7.66E-33	738167	4.70E-04	344
rs12258967	10	18727959	c	g	0.7047	0.6327	0.0337	1.08E-78	737165	7.20E-04	534
rs3802517	10	28233469	a	t	0.4618	0.2527	0.0301	4.65E-17	738169	3.50E-04	255
rs12264186	10	32289986	t	c	0.1871	0.2135	0.0387	3.58E-08	738168	1.80E-04	132
rs4948643	10	45379759	t	c	0.2819	0.2258	0.0338	2.40E-11	737164	2.50E-04	185
rs34130368	10	48411796	t	g	0.117	-0.3016	0.0497	1.28E-09	736051	1.70E-04	126
rs4245599	10	60365755	a	g	0.4584	-0.1794	0.0305	4.04E-09	738169	2.40E-04	181
rs57946343	10	63499951	t	c	0.8527	0.716	0.0426	2.10E-63	736110	4.90E-04	364
rs2236295	10	64564892	t	g	0.3978	-0.3028	0.0309	1.05E-22	738169	4.00E-04	294
rs2177843	10	75409877	t	c	0.1505	0.4394	0.0432	2.80E-24	738168	3.10E-04	228
rs10749572	10	82136664	t	g	0.5444	-0.203	0.0302	1.88E-11	738170	2.80E-04	204
rs111866816	10	94441507	t	c	0.0709	0.3569	0.0597	2.29E-09	737163	1.30E-04	95
rs2689690	10	95899706	t	c	0.3678	-0.2702	0.0316	1.15E-17	727391	3.50E-04	251
rs2274224	10	96039597	c	g	0.4324	-0.4517	0.0304	5.99E-50	737056	6.10E-04	449
rs1006545	10	102553647	t	g	0.8872	0.6846	0.048	3.50E-46	738169	3.80E-04	278
rs11191580	10	104906211	t	c	0.9176	1.0995	0.055	7.74E-89	738169	4.60E-04	337
rs117464403	10	107158054	a	g	0.0183	0.864	0.1199	5.80E-13	727329	8.50E-05	62
rs12255372	10	114808902	t	g	0.2883	0.2358	0.0335	1.94E-12	729908	2.70E-04	194

rs1801253	10	115805056	c	g	0.7338	0.4626	0.0344	2.84E-41	738169	5.00E-04	367
rs72842207	10	121433675	t	c	0.2144	-0.203	0.0367	3.14E-08	738167	1.90E-04	139
rs11592107	10	122968964	a	g	0.3096	0.3024	0.0326	1.55E-20	738169	3.60E-04	262
rs7093894	10	124234880	a	c	0.1512	0.236	0.0427	3.16E-08	738169	1.70E-04	123
rs7912283	10	133773019	a	g	0.6468	-0.2144	0.0322	2.94E-11	736050	2.70E-04	198
rs1133400	10	134459388	a	g	0.786	-0.2975	0.0376	2.53E-15	722557	2.80E-04	199
rs569550	11	1887068	t	g	0.6037	-0.5765	0.0318	1.33E-73	718172	7.60E-04	545
rs74048190	11	2114221	t	c	0.9522	-0.4404	0.0757	6.07E-09	718169	1.10E-04	79
rs360153	11	9762274	t	c	0.4166	-0.3445	0.0306	1.73E-29	738170	4.60E-04	340
rs2014408	11	16365282	t	c	0.2087	0.5169	0.0373	1.26E-43	738168	4.70E-04	347
rs7926335	11	16917869	t	c	0.2691	0.3135	0.0339	2.52E-20	736109	3.40E-04	250
rs17762	11	22492454	a	g	0.0777	0.4117	0.0571	5.60E-13	738167	1.60E-04	120
rs1382472	11	27273967	a	g	0.4041	-0.1917	0.0307	4.47E-10	738170	2.50E-04	187
rs871004	11	28512458	a	g	0.3481	0.2336	0.0317	1.65E-13	738170	2.90E-04	215
rs1340030	11	30182068	t	c	0.6345	0.1936	0.0312	5.77E-10	738169	2.50E-04	182
rs11604310	11	45351420	t	c	0.1655	-0.2778	0.0411	1.46E-11	738168	2.10E-04	156
rs7107356	11	47676170	a	g	0.4959	-0.4598	0.0301	1.63E-52	738170	6.30E-04	467
rs2904315	11	48109948	a	g	0.3131	-0.2081	0.0325	1.58E-10	738167	2.50E-04	182
rs7125196	11	61272565	t	c	0.8817	0.4422	0.0472	7.31E-21	736058	2.50E-04	187
rs2306363	11	65405600	t	g	0.2045	-0.4358	0.0376	5.24E-31	738167	3.90E-04	288
rs7395791	11	69262916	a	g	0.4419	-0.2162	0.0308	2.19E-12	738170	2.90E-04	216
rs10501410	11	72088806	a	g	0.0692	0.4122	0.0607	1.10E-11	738166	1.50E-04	108
rs7927515	11	76125330	a	c	0.3459	0.2271	0.0319	1.05E-12	729908	2.80E-04	206
rs2289124	11	89224477	a	g	0.1673	-0.308	0.0415	1.14E-13	737164	2.40E-04	174
rs67885470	11	99998431	t	c	0.2094	-0.2087	0.038	4.12E-08	737164	1.90E-04	140
rs604723	11	100610546	t	c	0.2756	-0.655	0.0339	2.55E-83	737165	7.20E-04	530
rs7926110	11	107086143	t	g	0.6733	0.2603	0.0321	5.71E-16	738168	3.10E-04	232
rs641620	11	117074229	t	c	0.8547	-0.3193	0.044	3.74E-13	729449	2.20E-04	159
rs573455	11	117267884	a	g	0.461	0.1994	0.0303	4.77E-11	737056	2.70E-04	201
rs11222084	11	130273230	a	t	0.6379	-0.3363	0.0316	1.80E-26	737164	4.30E-04	315
rs7944927	11	130490917	t	c	0.7819	0.2235	0.0392	1.23E-08	737163	2.10E-04	154
rs78998485	12	434755	c	g	0.7443	-0.2449	0.0346	1.48E-12	744814	2.60E-04	191
rs3819532	12	2436837	t	c	0.3913	-0.1875	0.0306	9.44E-10	744814	2.50E-04	183
rs113695818	12	8837407	t	c	0.3032	-0.1835	0.033	2.62E-08	745820	2.10E-04	159
rs2024385	12	12888438	a	t	0.424	-0.2642	0.0306	5.88E-18	745819	3.50E-04	265
rs1010064	12	20000315	a	c	0.8163	0.3571	0.0387	3.02E-20	745818	2.90E-04	220
rs73075659	12	20373541	a	g	0.6654	0.3962	0.0321	5.52E-35	744703	4.80E-04	361
rs2129869	12	26457650	a	t	0.7778	-0.2643	0.0361	2.44E-13	743761	2.50E-04	187
rs61917655	12	48210787	t	c	0.1014	0.3427	0.0514	2.68E-11	745817	1.70E-04	128
rs57342147	12	50129422	a	g	0.9026	0.2787	0.0508	4.17E-08	745816	1.30E-04	100
rs12426261	12	50573037	a	g	0.3792	0.3775	0.0309	2.31E-34	745819	4.90E-04	364
rs7134440	12	53450097	t	c	0.0822	0.4788	0.0562	1.58E-17	745819	2.00E-04	148
rs7134677	12	54441498	t	c	0.2978	-0.3851	0.0332	4.46E-31	744813	4.40E-04	330
rs7306710	12	66376091	t	c	0.481	-0.2429	0.0303	1.03E-15	745819	3.30E-04	249
rs4143175	12	67782397	t	c	0.2409	0.2187	0.0352	5.10E-10	744706	2.20E-04	164
rs7963801	12	79685226	t	c	0.4221	-0.2362	0.0311	2.87E-14	744815	3.20E-04	236

rs6539467	12	79955306	a	g	0.1661	0.265	0.0404	5.57E-11	745818	2.00E-04	151
rs17249754	12	90060586	a	g	0.1683	-0.8446	0.0403	1.25E-97	743707	6.50E-04	484
rs10777213	12	90349999	a	g	0.5244	-0.1786	0.0299	2.45E-09	745820	2.40E-04	183
rs5742643	12	102837863	t	c	0.2487	-0.2233	0.0349	1.53E-10	740938	2.30E-04	170
rs7310615	12	111865049	c	g	0.4816	0.585	0.0306	1.32E-81	737101	8.00E-04	592
rs1896326	12	115342956	a	g	0.2291	-0.2797	0.0371	4.41E-14	743700	2.70E-04	202
rs35444	12	115552437	a	g	0.6138	0.4368	0.031	3.47E-45	737556	5.70E-04	420
rs6490019	12	115920472	a	g	0.3796	-0.2897	0.0309	6.61E-21	745818	3.70E-04	280
rs1169078	12	122416254	c	g	0.6879	-0.1971	0.0327	1.68E-09	744811	2.30E-04	173
rs117206641	12	133086888	t	c	0.1108	0.3154	0.0499	2.66E-10	725612	1.70E-04	124
rs483071	13	22294117	t	c	0.6248	0.2709	0.0313	5.09E-18	744705	3.50E-04	260
rs9507885	13	27951090	t	c	0.0953	-0.3208	0.0542	3.23E-09	740743	1.50E-04	113
rs7338758	13	30137828	t	c	0.2448	0.3552	0.0352	7.02E-24	737099	3.60E-04	266
rs4274337	13	41967193	a	g	0.1697	-0.2968	0.0406	2.48E-13	745818	2.30E-04	172
rs7491248	13	47180671	a	g	0.2239	0.2163	0.0362	2.38E-09	737558	2.10E-04	152
rs9526707	13	51489186	a	g	0.3216	-0.2039	0.0323	2.77E-10	744706	2.40E-04	182
rs75961402	13	56398286	a	g	0.1534	0.2659	0.0418	1.95E-10	745819	1.90E-04	142
rs17245822	13	73131694	a	c	0.6267	-0.1899	0.0312	1.15E-09	745819	2.40E-04	182
rs78474310	13	73826901	a	g	0.9552	-0.4699	0.0734	1.51E-10	745820	1.10E-04	82
rs6562778	13	74223828	a	g	0.4589	0.178	0.0304	4.96E-09	744815	2.40E-04	181
rs9549627	13	113652369	a	g	0.1175	0.2846	0.05	1.25E-08	729202	1.60E-04	118
rs7331680	13	115000650	t	g	0.1491	0.4101	0.0423	3.35E-22	742899	2.90E-04	213
rs365990	14	23861811	a	g	0.6342	0.225	0.0312	5.95E-13	745820	2.90E-04	214
rs8904	14	35871217	a	g	0.3678	0.3061	0.0314	1.71E-22	739799	3.90E-04	290
rs7493678	14	39400917	a	t	0.6514	-0.189	0.0316	2.31E-09	745819	2.40E-04	176
rs72683923	14	50735947	t	c	0.9788	0.9587	0.1101	3.08E-18	743244	1.10E-04	81
rs35413927	14	53420358	a	g	0.6946	-0.3002	0.0328	5.25E-20	745820	3.50E-04	261
rs12883810	14	68032235	t	c	0.1462	-0.2382	0.0428	2.70E-08	736552	1.60E-04	120
rs57786342	14	69260028	a	g	0.2059	0.2317	0.0374	5.63E-10	745818	2.10E-04	155
rs8003103	14	71451265	a	g	0.3447	-0.1755	0.0319	3.60E-08	745819	2.20E-04	163
rs3815460	14	73422259	c	g	0.8976	-0.285	0.05	1.21E-08	740939	1.40E-04	107
rs11159091	14	75074316	a	g	0.4615	0.1978	0.0303	6.79E-11	735987	2.70E-04	199
rs7154723	14	98590629	a	g	0.385	0.253	0.0309	2.72E-16	744815	3.30E-04	245
rs17562391	14	100133250	t	c	0.4186	0.1967	0.0306	1.35E-10	745818	2.60E-04	196
rs75016974	14	100197940	t	c	0.1423	-0.2513	0.0439	1.05E-08	744815	1.70E-04	126
rs12885878	14	104007555	a	g	0.2337	-0.2291	0.0367	4.32E-10	744814	2.30E-04	168
rs8030856	15	40314967	c	g	0.6047	-0.1764	0.031	1.21E-08	744815	2.30E-04	173
rs28866311	15	41442195	t	g	0.5263	-0.2762	0.0302	5.45E-20	745820	3.80E-04	282
rs4775769	15	48939888	t	g	0.0945	-0.4162	0.0517	7.76E-16	745818	2.00E-04	146
rs3098186	15	50810621	t	c	0.5156	-0.2422	0.0303	1.41E-15	745820	3.30E-04	248
rs2652812	15	63406170	t	c	0.7544	-0.2516	0.0353	1.03E-12	744814	2.60E-04	191
rs28429256	15	66931617	a	g	0.3342	0.215	0.0325	3.89E-11	743700	2.60E-04	196
rs11636952	15	75114322	t	c	0.3141	0.5313	0.0328	4.22E-59	727894	6.30E-04	458
rs2627313	15	81006712	t	c	0.4454	0.3208	0.0303	3.55E-26	737101	4.40E-04	321
rs1994158	15	86064327	a	g	0.8193	0.2513	0.0391	1.23E-10	743705	2.00E-04	152
rs17807723	15	90023558	a	g	0.138	-0.2721	0.0443	8.43E-10	737795	1.80E-04	131

rs4932373	15	91429287	a	c	0.6742	-0.635	0.0328	2.49E-83	724766	7.70E-04	556
rs12906962	15	95312071	t	c	0.676	-0.2653	0.0325	3.28E-16	742702	3.20E-04	237
rs2589218	15	96785017	t	c	0.7297	-0.2258	0.0339	2.54E-11	743708	2.40E-04	182
rs4606697	15	100087596	a	g	0.1041	-0.3196	0.0523	9.71E-10	740084	1.60E-04	121
rs11641374	16	1347717	a	c	0.5995	-0.1943	0.0309	3.26E-10	741588	2.60E-04	190
rs12596630	16	2065666	t	c	0.0903	0.4278	0.0547	5.01E-15	723276	1.90E-04	140
rs7189884	16	4145164	a	g	0.1146	-0.3138	0.0476	4.20E-11	745818	1.70E-04	131
rs12446456	16	4922201	t	c	0.4274	-0.3003	0.0302	2.97E-23	745820	4.00E-04	301
rs11075030	16	11976414	a	c	0.5937	-0.1745	0.0309	1.72E-08	728838	2.30E-04	169
rs77924615	16	20392332	a	g	0.1986	-0.4081	0.039	1.12E-25	743700	3.60E-04	266
rs7186298	16	21088031	t	c	0.4295	-0.2315	0.0302	1.88E-14	745820	3.10E-04	233
rs8044992	16	24811207	t	c	0.7123	0.2138	0.0331	1.07E-10	745819	2.40E-04	180
rs34941092	16	50550137	a	g	0.1498	-0.3225	0.0425	3.23E-14	745818	2.30E-04	168
rs4784541	16	51704452	t	c	0.4748	-0.2015	0.0307	4.93E-11	744815	2.80E-04	206
rs35098810	16	60635748	a	c	0.7683	0.1967	0.0356	3.20E-08	745817	1.90E-04	144
rs146550789	16	66781040	t	c	0.9583	-0.4824	0.0778	5.64E-10	745818	1.10E-04	79
rs62047964	16	70729954	t	c	0.0622	0.5115	0.0686	9.29E-14	736711	1.60E-04	121
rs1012089	16	74171973	c	g	0.4752	-0.192	0.0302	1.95E-10	745819	2.60E-04	196
rs4888408	16	75432824	a	g	0.5855	0.3653	0.0307	1.42E-32	744815	4.90E-04	363
rs12926550	16	81510155	a	g	0.3156	-0.2548	0.0324	3.43E-15	745819	3.00E-04	226
rs8054587	16	86170044	t	c	0.5272	0.1665	0.0302	3.41E-08	744813	2.30E-04	170
rs3950627	16	86436343	a	c	0.531	0.1851	0.0308	1.82E-09	738794	2.50E-04	187
rs6540119	16	87984477	a	t	0.334	0.2016	0.0322	3.93E-10	745819	2.50E-04	184
rs908951	16	89697625	t	c	0.4378	-0.2261	0.0315	7.14E-13	734063	3.10E-04	225
rs8079811	17	1371473	c	g	0.3479	-0.2101	0.0325	1.03E-10	739409	2.60E-04	194
rs2760748	17	2001604	a	t	0.0981	0.3626	0.0509	1.05E-12	744704	1.80E-04	131
rs113086489	17	7171356	t	c	0.5525	0.3249	0.0307	3.80E-26	744814	4.40E-04	329
rs4511593	17	7455536	t	c	0.6528	-0.2881	0.0318	1.28E-19	737557	3.60E-04	265
rs79930761	17	7815712	t	c	0.0872	-0.4688	0.0559	4.90E-17	745818	2.10E-04	153
rs4925159	17	18185510	a	g	0.4246	0.2174	0.0305	9.66E-13	737558	2.90E-04	215
rs7211535	17	19922364	a	g	0.4764	-0.1779	0.0304	4.61E-09	737558	2.40E-04	180
rs1551355	17	30032420	t	c	0.2334	0.2098	0.0356	3.89E-09	745818	2.10E-04	154
rs9899540	17	30777924	a	t	0.3999	0.2011	0.0316	1.87E-10	744813	2.70E-04	198
rs7213273	17	43155914	a	g	0.655	-0.4	0.0315	6.24E-37	745819	5.00E-04	371
rs17608766	17	45013271	t	c	0.8555	-0.6903	0.0433	2.48E-57	737558	4.70E-04	346
rs3764400	17	46123932	t	c	0.8635	0.3748	0.0445	3.69E-17	744815	2.40E-04	181
rs9897429	17	47518378	a	g	0.52	0.2645	0.0319	1.19E-16	744815	3.60E-04	270
rs1000423	17	59475642	t	c	0.7316	0.4138	0.0346	6.50E-33	737099	4.50E-04	329
rs56288724	17	60767135	a	g	0.5831	-0.2178	0.031	2.01E-12	744706	2.90E-04	217
rs62076622	17	61090958	a	g	0.8013	0.2363	0.0377	3.79E-10	745819	2.10E-04	154
rs6504213	17	62381714	t	c	0.4182	-0.2982	0.0312	1.25E-21	744814	4.00E-04	297
rs1436138	17	75316880	a	g	0.6367	0.3119	0.0315	4.73E-23	744705	4.00E-04	295
rs9302885	17	76799898	a	g	0.4452	0.2242	0.0302	1.03E-13	744706	3.00E-04	227
rs11655604	17	79365861	t	c	0.3579	-0.2033	0.0333	1.09E-09	699816	2.60E-04	180
rs34413141	18	777282	a	t	0.1822	-0.3531	0.0393	2.47E-19	745818	2.90E-04	216
rs62082230	18	22676071	a	t	0.2773	-0.1884	0.0345	4.69E-08	744814	2.10E-04	155

rs1154214	18	24546824	t	g	0.3963	-0.2031	0.0306	3.27E-11	744706	2.70E-04	199
rs56407827	18	42179819	t	c	0.2687	0.3603	0.034	2.78E-26	744704	3.90E-04	290
rs11874246	18	42596789	t	c	0.2963	0.2856	0.0328	3.23E-18	745818	3.30E-04	244
rs7236548	18	43097750	a	c	0.1848	0.3431	0.0388	8.51E-19	745818	2.80E-04	212
rs1437649	18	48132646	a	g	0.2345	-0.2189	0.0357	8.57E-10	745819	2.20E-04	161
rs665445	18	51842682	a	c	0.2794	-0.1909	0.0334	1.15E-08	745819	2.10E-04	158
rs10048404	18	54578482	t	c	0.3701	-0.2607	0.0317	1.91E-16	744815	3.30E-04	249
rs10460108	18	73034151	a	g	0.4801	0.2141	0.0301	1.12E-12	745819	2.90E-04	219
rs698748	19	1424888	a	g	0.421	0.1871	0.0325	8.90E-09	722073	2.50E-04	181
rs149339216	19	2144046	t	c	0.9566	-0.6912	0.0779	6.93E-19	724208	1.60E-04	114
rs68096471	19	5175709	a	g	0.2659	-0.2098	0.0343	9.26E-10	745819	2.30E-04	168
rs12985940	19	7262734	t	c	0.8408	0.4642	0.0434	1.08E-26	721439	3.40E-04	247
rs3816865	19	11507855	a	g	0.0801	0.3092	0.0565	4.39E-08	737556	1.30E-04	92
rs167479	19	11526765	t	g	0.4726	-0.5642	0.0327	7.21E-67	675533	7.70E-04	523
rs8106184	19	17159779	a	c	0.7449	-0.2371	0.0347	8.34E-12	745819	2.50E-04	185
rs4319878	19	21924452	t	c	0.5606	0.1694	0.0308	3.77E-08	744815	2.30E-04	171
rs8108027	19	22115901	c	g	0.2947	0.1948	0.033	3.67E-09	745819	2.20E-04	166
rs28572357	19	31867447	a	c	0.6023	-0.2733	0.0308	6.34E-19	741283	3.60E-04	267
rs1433121	19	32591878	t	c	0.6906	-0.228	0.0326	2.66E-12	745817	2.70E-04	200
rs33836	19	34008600	t	c	0.4622	0.1766	0.0304	6.56E-09	745820	2.40E-04	180
rs10420519	19	45298461	t	g	0.0347	-0.4921	0.0887	2.86E-08	738581	9.10E-05	67
rs7255933	19	45766729	a	g	0.2574	0.2306	0.0345	2.44E-11	745819	2.40E-04	181
rs11672660	19	46180184	t	c	0.1996	0.2212	0.0381	6.32E-09	737033	1.90E-04	143
rs571689	19	49207554	t	c	0.5196	0.228	0.0304	6.77E-14	737035	3.10E-04	231
rs73046792	19	49605705	a	g	0.1588	-0.3554	0.0426	7.23E-17	737035	2.60E-04	192
rs6054139	20	6327810	a	g	0.606	0.2094	0.0306	8.23E-12	745818	2.70E-04	205
rs2423514	20	10693337	a	g	0.5411	0.3011	0.0302	1.77E-23	745820	4.10E-04	307
rs6108787	20	10967214	t	g	0.5296	-0.4274	0.03	5.38E-46	743761	5.90E-04	436
rs6078093	20	11168669	a	g	0.428	-0.1849	0.0304	1.20E-09	744815	2.50E-04	185
rs8125763	20	17883531	a	c	0.4717	0.1761	0.0301	4.84E-09	745819	2.40E-04	180
rs17812022	20	19007099	t	c	0.0958	-0.3613	0.0525	5.65E-12	744814	1.70E-04	128
rs6058088	20	30139886	t	g	0.8439	0.2832	0.0417	1.14E-11	745819	2.10E-04	153
rs79384779	20	31214944	t	c	0.1512	0.3179	0.0428	1.08E-13	745820	2.20E-04	167
rs6029756	20	40266681	a	g	0.3225	-0.2712	0.033	1.88E-16	744814	3.30E-04	243
rs6031431	20	42795152	a	g	0.5376	-0.2617	0.0304	7.05E-18	743700	3.60E-04	266
rs2598	20	47241618	a	g	0.533	0.168	0.0303	2.87E-08	745818	2.30E-04	171
rs6090907	20	47410231	a	g	0.147	-0.3854	0.0425	1.29E-19	745820	2.70E-04	198
rs234623	20	57488964	a	g	0.5041	-0.1804	0.0302	2.43E-09	741285	2.50E-04	184
rs6026744	20	57742388	a	t	0.8771	-0.7131	0.0461	7.00E-54	741284	4.20E-04	313
rs28374392	20	61189717	t	c	0.6231	0.1924	0.0338	1.21E-08	678027	2.50E-04	168
rs6062324	20	62446351	a	g	0.2364	-0.3294	0.0363	1.18E-19	738823	3.30E-04	242
rs2776037	21	16317933	t	c	0.4151	-0.1851	0.0309	2.15E-09	743701	2.50E-04	184
rs1882961	21	16556367	t	c	0.3087	0.2443	0.0326	6.69E-14	745820	2.90E-04	214
rs2833834	21	33814378	a	c	0.2765	0.2177	0.0338	1.22E-10	737558	2.40E-04	177
rs12627651	21	44760603	a	g	0.2872	0.3498	0.0341	1.02E-24	741589	3.90E-04	292
rs34487963	21	44838330	a	c	0.0185	-0.8819	0.1244	1.35E-12	716018	8.80E-05	63

rs7278003	21	44966069	t	c	0.4378	-0.1876	0.0304	6.63E-10	744814	2.50E-04	189
rs2238787	22	19976406	a	g	0.292	0.2552	0.0332	1.45E-14	743706	2.90E-04	216
rs12321	22	29453193	c	g	0.4328	-0.2292	0.0303	3.81E-14	745820	3.10E-04	231
rs112854918	22	30588910	c	g	0.9745	-0.5577	0.1004	2.77E-08	744068	7.60E-05	57
rs8142376	22	32001037	t	c	0.491	0.1676	0.03	2.20E-08	745819	2.30E-04	172
rs148140538	22	50228044	t	c	0.0808	-0.3252	0.0562	7.39E-09	742190	1.30E-04	99
rs28578714	22	50727921	t	c	0.6062	0.2066	0.0327	2.53E-10	713093	2.70E-04	193

Chr: chromosome, Pos: position (hg19), EA: effect allele, OA: other allele, EAF: effect allele frequency, SE: standard error, R^2: proportion of variance explained.

Supplementary Table 2. Regions used to identify instruments for each drug.				
Drug	Target gene	Chromosome	Position (hg19)	Function
ACEI	***ACE***	**17**	**61554422-61599205**	**Gene**
ACEI	*ACE*	17	61551058-61556950	Promoter/Enhancer
ACEI	*ACE*	17	61562201-61562303	Promoter/Enhancer
ACEI	*ACE*	17	61508611-61515166	Promoter/Enhancer
ACEI	*ACE*	17	61626418-61630304	Promoter/Enhancer
ACEI	*ACE*	17	61431510-61431613	Enhancer
ACEI	*ACE*	17	62090924-62103850	Promoter/Enhancer
ACEI	*ACE*	17	61497048-61498662	Enhancer
ACEI	*ACE*	17	61505277-61506104	Enhancer
ACEI	*ACE*	17	61689560-61689960	Enhancer
ACEI	*ACE*	17	61594421-61594870	Enhancer
ACEI	*ACE*	17	61502881-61503030	Enhancer
ACEI	*ACE*	17	61656647-61657871	Enhancer
ACEI	*ACE*	17	61500762-61501161	Enhancer
ACEI	*ACE*	17	60855121-60860435	Enhancer
ACEI	*ACE*	17	61574731-61577281	Enhancer
ACEI	*ACE*	17	60972606-60973907	Enhancer
ARB	***AGTR1***	**3**	**148415571-148460795**	**Gene**
ARB	*AGTR1*	3	148415061-148416388	Promoter/Enhancer
ARB	*AGTR1*	3	148366071-148367473	Enhancer
ARB	*AGTR1*	3	148441102-148442130	Enhancer
ARB	*AGTR1*	3	148360847-148362186	Enhancer
ARB	*AGTR1*	3	148360520-148360788	Enhancer
ARB	*AGTR1*	3	148899476-148899525	Enhancer
BB	***ADRB1***	**10**	**115803806-115806667**	**Gene**
BB	*ADRB1*	10	115802241-115807338	Promoter/Enhancer
BB	*ADRB1*	10	115716558-115722360	Enhancer
BB	*ADRB1*	10	115706609-115708137	Enhancer
BB	*ADRB1*	10	115824009-115824850	Enhancer
BB	*ADRB1*	10	115548188-115549279	Enhancer
BB	*ADRB1*	10	115833610-115834154	Enhancer
BB	*ADRB1*	10	115704333-115705870	Enhancer
BB	*ADRB1*	10	116441242-116446390	Promoter/Enhancer
BB	*ADRB1*	10	115842035-115843254	Enhancer
BB	*ADRB1*	10	115784258-115788102	Enhancer
BB	*ADRB1*	10	115725160-115725959	Enhancer
BB	*ADRB1*	10	115697701-115697810	Enhancer
BB	*ADRB1*	10	115741347-115744110	Enhancer
BB	*ADRB1*	10	115782141-115782270	Enhancer
BB	*ADRB1*	10	115559441-115559610	Enhancer
BB	*ADRB1*	10	115841821-115841970	Enhancer
BB	*ADRB1*	10	115826224-115827332	Enhancer
BB	*ADRB1*	10	115827575-115828874	Enhancer
BB	*ADRB1*	10	115910708-115912162	Enhancer
BB	*ADRB1*	10	115752960-115753842	Enhancer
BB	*ADRB1*	10	115651401-115651550	Enhancer
BB	*ADRB1*	10	115683621-115684573	Enhancer
BB	*ADRB1*	10	115758960-115759559	Enhancer
BB	*ADRB1*	10	116457630-116458961	Enhancer
BB	*ADRB1*	10	115561321-115561530	Enhancer
BB	*ADRB1*	10	115625638-115626159	Enhancer
BB	*ADRB1*	10	116437959-116439282	Enhancer
BB	*ADRB1*	10	115789385-115790216	Enhancer
BB	*ADRB1*	10	115800822-115802086	Enhancer
BB	*ADRB1*	10	115799814-115800507	Enhancer
CCB	***CACNA1S***	**1**	**201008640-201081694**	**Gene**
CCB	*CACNA1S*	1	201082861-201084129	Promoter/Enhancer
CCB	*CACNA1S*	1	201079942-201082115	Enhancer
CCB	*CACNA1S*	1	201122647-201124394	Promoter/Enhancer
CCB	*CACNA1S*	1	201274996-201282487	Enhancer
CCB	*CACNA1S*	1	201012141-201012270	Enhancer
CCB	*CACNA1S*	1	201263489-201273426	Enhancer
CCB	*CACNA1S*	1	200941201-200941350	Enhancer

CCB	*CACNA1S*	1	201106054-201107629	Enhancer
CCB	*CACNA1S*	1	201056384-201057751	Enhancer
CCB	*CACNA1S*	1	201057880-201061411	Enhancer
CCB	*CACNA1S*	1	201111781-201111890	Enhancer
CCB	*CACNA1S*	1	201063580-201070116	Enhancer
CCB	*CACNA1S*	1	201071203-201078371	Enhancer
CCB	*CACNA1S*	1	201032066-201032442	Enhancer
CCB	***CACNA1F***	**X**	**49061523-49089833**	**Gene**
CCB	*CACNA1F*	X	49091301-49092868	Promoter/Enhancer
CCB	*CACNA1F*	X	49089792-49089851	Promoter
CCB	*CACNA1F*	X	49086401-49088145	Enhancer
CCB	*CACNA1F*	X	49044793-49049057	Enhancer
CCB	*CACNA1F*	X	49122932-49127611	Promoter/Enhancer
CCB	*CACNA1F*	X	49056201-49057353	Promoter/Enhancer
CCB	*CACNA1F*	X	49019538-49025109	Promoter/Enhancer
CCB	*CACNA1F*	X	49040381-49044351	Promoter/Enhancer
CCB	*CACNA1F*	X	48915921-48920218	Promoter/Enhancer
CCB	*CACNA1F*	X	49093233-49093850	Enhancer
CCB	*CACNA1F*	X	49085421-49085530	Enhancer
CCB	*CACNA1F*	X	49066401-49066570	Enhancer
CCB	*CACNA1F*	X	49065861-49066060	Enhancer
CCB	***CACNA1D***	**3**	**53528683-53847760**	**Gene**
CCB	*CACNA1D*	3	53526751-53529027	Promoter/Enhancer
CCB	*CACNA1D*	3	53529053-53530500	Promoter/Enhancer
CCB	*CACNA1D*	3	53361979-53363570	Enhancer
CCB	*CACNA1D*	3	53551784-53554581	Enhancer
CCB	*CACNA1D*	3	53558098-53559174	Enhancer
CCB	*CACNA1D*	3	53379987-53382717	Promoter/Enhancer
CCB	*CACNA1D*	3	53859957-53860202	Enhancer
CCB	*CACNA1D*	3	53384627-53385227	Enhancer
CCB	*CACNA1D*	3	53388806-53389878	Enhancer
CCB	*CACNA1D*	3	53354541-53355561	Enhancer
CCB	*CACNA1D*	3	53511553-53514862	Enhancer
CCB	*CACNA1D*	3	53457125-53457810	Enhancer
CCB	*CACNA1D*	3	53539797-53541150	Enhancer
CCB	*CACNA1D*	3	53531730-53534232	Enhancer
CCB	*CACNA1D*	3	53405028-53405227	Enhancer
CCB	*CACNA1D*	3	53559666-53560346	Enhancer
CCB	*CACNA1D*	3	53698941-53699090	Enhancer
CCB	*CACNA1D*	3	53604273-53605793	Enhancer
CCB	*CACNA1D*	3	53742028-53742227	Enhancer
CCB	*CACNA1D*	3	53664741-53664930	Enhancer
CCB	*CACNA1D*	3	53714181-53714330	Enhancer
CCB	*CACNA1D*	3	53664161-53664290	Enhancer
CCB	*CACNA1D*	3	53647109-53647870	Enhancer
CCB	*CACNA1D*	3	53568043-53568300	Enhancer
CCB	*CACNA1D*	3	53707221-53707290	Enhancer
CCB	*CACNA1D*	3	53723669-53724036	Enhancer
CCB	*CACNA1D*	3	53741428-53741627	Enhancer
CCB	*CACNA1D*	3	53787436-53788581	Enhancer
CCB	*CACNA1D*	3	53793207-53793702	Enhancer
CCB	*CACNA1D*	3	53796777-53798080	Enhancer
CCB	*CACNA1D*	3	53798222-53799233	Enhancer
CCB	*CACNA1D*	3	53810959-53811945	Enhancer
CCB	*CACNA1D*	3	53809709-53810892	Enhancer
CCB	*CACNA1D*	3	53817819-53818839	Enhancer
CCB	*CACNA1D*	3	53828693-53829307	Enhancer
CCB	*CACNA1D*	3	53829341-53829430	Enhancer
CCB	*CACNA1D*	3	53838172-53842050	Enhancer
CCB	*CACNA1D*	3	53744028-53744627	Enhancer
CCB	*CACNA1D*	3	53759658-53759955	Enhancer
CCB	*CACNA1D*	3	53843873-53844716	Enhancer
CCB	*CACNA1D*	3	53802862-53803908	Enhancer
CCB	*CACNA1D*	3	53806640-53808437	Enhancer
CCB	*CACNA1D*	3	53799850-53800909	Enhancer

CCB	*CACNA1D*	3	53801465-53802329	Enhancer
CCB	*CACNA1D*	3	53782002-53784852	Enhancer
CCB	*CACNA1D*	3	53777569-53779058	Enhancer
CCB	*CACNA1D*	3	53764428-53765080	Enhancer
CCB	*CACNA1D*	3	53766775-53767435	Enhancer
CCB	***CACNA2D1***	**7**	**81575760-82073114**	**Gene**
CCB	*CACNA2D1*	7	82071056-82074330	Promoter/Enhancer
CCB	*CACNA2D1*	7	82039597-82041108	Enhancer
CCB	*CACNA2D1*	7	82223184-82225724	Enhancer
CCB	*CACNA2D1*	7	82171489-82172576	Enhancer
CCB	*CACNA2D1*	7	82164161-82164310	Enhancer
CCB	*CACNA2D1*	7	82063702-82063952	Enhancer
CCB	*CACNA2D1*	7	81584968-81585322	Enhancer
CCB	*CACNA2D1*	7	81858656-81858971	Enhancer
CCB	*CACNA2D1*	7	82057141-82058356	Enhancer
CCB	*CACNA2D1*	7	82059961-82060110	Enhancer
CCB	*CACNA2D1*	7	82013345-82013689	Enhancer
CCB	*CACNA2D1*	7	81785601-81785750	Enhancer
CCB	*CACNA2D1*	7	81948701-81949880	Enhancer
CCB	*CACNA2D1*	7	81833679-81834445	Enhancer
CCB	*CACNA2D1*	7	81734523-81735564	Enhancer
CCB	*CACNA2D1*	7	82034101-82034250	Enhancer
CCB	*CACNA2D1*	7	81920961-81922045	Enhancer
CCB	*CACNA2D1*	7	81709702-81710455	Enhancer
CCB	*CACNA2D1*	7	81914377-81914723	Enhancer
CCB	*CACNA2D1*	7	81808741-81808930	Enhancer
CCB	*CACNA2D1*	7	81739157-81739440	Enhancer
CCB	*CACNA2D1*	7	81916621-81916770	Enhancer
CCB	*CACNA2D1*	7	81787741-81787827	Enhancer
CCB	*CACNA2D1*	7	81946361-81947530	Enhancer
CCB	*CACNA2D1*	7	81941894-81943091	Enhancer
CCB	*CACNA2D1*	7	81915266-81916265	Enhancer
CCB	*CACNA2D1*	7	81914861-81914999	Enhancer
CCB	*CACNA2D1*	7	81809481-81810272	Enhancer
CCB	*CACNA2D1*	7	81739641-81739790	Enhancer
CCB	*CACNA2D1*	7	81841421-81842618	Enhancer
CCB	*CACNA2D1*	7	81813081-81813230	Enhancer
CCB	*CACNA2D1*	7	81590210-81590492	Enhancer
CCB	*CACNA2D1*	7	81678694-81681663	Enhancer
CCB	*CACNA2D1*	7	81664197-81666962	Enhancer
CCB	***CACNA2D2***	**3**	**50400230-50541675**	**Gene**
CCB	*CACNA2D2*	3	50540431-50541530	Promoter/Enhancer
CCB	*CACNA2D2*	3	50535234-50535293	Promoter
CCB	*CACNA2D2*	3	51420877-51430387	Promoter/Enhancer
CCB	*CACNA2D2*	3	50510252-50511323	Enhancer
CCB	*CACNA2D2*	3	50624952-50631056	Enhancer
CCB	*CACNA2D2*	3	50486750-50489034	Enhancer
CCB	*CACNA2D2*	3	50552257-50555213	Enhancer
CCB	*CACNA2D2*	3	50557041-50557190	Enhancer
CCB	*CACNA2D2*	3	50560739-50564041	Enhancer
CCB	*CACNA2D2*	3	50483138-50484199	Enhancer
CCB	*CACNA2D2*	3	50484337-50485546	Enhancer
CCB	*CACNA2D2*	3	50473601-50473790	Enhancer
CCB	*CACNA2D2*	3	50464650-50466328	Enhancer
CCB	*CACNA2D2*	3	50401766-50403767	Promoter/Enhancer
CCB	*CACNA2D2*	3	50479739-50481683	Enhancer
CCB	*CACNA2D2*	3	50472754-50473413	Enhancer
CCB	*CACNA2D2*	3	50467315-50469064	Enhancer
CCB	*CACNA2D2*	3	50427643-50429192	Enhancer
CCB	*CACNA2D2*	3	50410601-50411305	Enhancer
CCB	*CACNA2D2*	3	50491422-50491591	Enhancer
CCB	*CACNA2D2*	3	50425346-50425879	Enhancer
CCB	*CACNA2D2*	3	50411624-50411893	Enhancer
CCB	***CACNB1***	**17**	**37329709-37353956**	**Gene**
CCB	*CACNB1*	17	37347421-37359080	Promoter/Enhancer

CCB	*CACNB1*	17	37330363-37331930	Enhancer
CCB	*CACNB1*	17	37170207-37173852	Enhancer
CCB	*CACNB1*	17	37392822-37395535	Enhancer
CCB	*CACNB1*	17	37512839-37515343	Enhancer
CCB	*CACNB1*	17	37401081-37401270	Enhancer
CCB	*CACNB1*	17	37401361-37401510	Enhancer
CCB	*CACNB1*	17	37174255-37175468	Enhancer
CCB	*CACNB1*	17	37332121-37332270	Enhancer
CCB	*CACNB1*	17	37333681-37333850	Enhancer
CCB	*CACNB1*	17	37395941-37396110	Enhancer
CCB	*CACNB1*	17	37364621-37367146	Enhancer
CCB	*CACNB1*	17	37427341-37427490	Enhancer
CCB	*CACNB1*	17	37326315-37327866	Enhancer
CCB	*CACNB1*	17	37325454-37325653	Enhancer
CCB	*CACNB1*	17	37328301-37328450	Enhancer
CCB	*CACNB1*	17	37329881-37330030	Enhancer
CCB	*CACNB1*	17	37420122-37420730	Enhancer
CCB	*CACNB1*	17	37566364-37566971	Enhancer
CCB	*CACNB1*	17	37749329-37749495	Enhancer
CCB	*CACNB1*	17	37334901-37335070	Enhancer
CCB	*CACNB1*	17	37334100-37334787	Enhancer
CCB	***CACNB2***	**10**	**18429606-18830798**	**Gene**
CCB	*CACNB2*	10	18428674-18431380	Promoter/Enhancer
CCB	*CACNB2*	10	18688989-18690673	Promoter/Enhancer
CCB	*CACNB2*	10	18629529-18630129	Promoter
CCB	*CACNB2*	10	18549618-18549677	Promoter
CCB	*CACNB2*	10	18452390-18454590	Enhancer
CCB	*CACNB2*	10	18467498-18470172	Enhancer
CCB	*CACNB2*	10	18451281-18451430	Enhancer
CCB	*CACNB2*	10	18493061-18493210	Enhancer
CCB	*CACNB2*	10	18592794-18593791	Enhancer
CCB	*CACNB2*	10	18725955-18730327	Enhancer
CCB	*CACNB2*	10	18473833-18475245	Enhancer
CCB	*CACNB2*	10	18383961-18384110	Enhancer
CCB	*CACNB2*	10	18475337-18476696	Enhancer
CCB	*CACNB2*	10	18406301-18406450	Enhancer
CCB	*CACNB2*	10	18759506-18760793	Enhancer
CCB	*CACNB2*	10	18550812-18550951	Enhancer
CCB	*CACNB2*	10	18775187-18776352	Enhancer
CCB	*CACNB2*	10	18700589-18701887	Enhancer
CCB	*CACNB2*	10	18578722-18579070	Enhancer
CCB	*CACNB2*	10	18433444-18435058	Enhancer
CCB	*CACNB2*	10	18447501-18448892	Enhancer
CCB	*CACNB2*	10	18446528-18447484	Enhancer
CCB	*CACNB2*	10	18534018-18534028	Enhancer
CCB	*CACNB2*	10	18435549-18436688	Enhancer
CCB	*CACNB2*	10	18504001-18504170	Enhancer
CCB	*CACNB2*	10	18486006-18486731	Enhancer
CCB	*CACNB2*	10	18707269-18708134	Enhancer
CCB	*CACNB2*	10	18527921-18528030	Enhancer
CCB	*CACNB2*	10	18522241-18522992	Enhancer
CCB	*CACNB2*	10	18505561-18505670	Enhancer
CCB	*CACNB2*	10	18601402-18602376	Enhancer
CCB	*CACNB2*	10	18436916-18441361	Enhancer
CCB	*CACNB2*	10	18482789-18485238	Enhancer
CCB	*CACNB2*	10	18333406-18335050	Enhancer
CCB	*CACNB2*	10	18790055-18790529	Enhancer
CCB	*CACNB2*	10	18691881-18692030	Enhancer
CCB	*CACNB2*	10	18688181-18688330	Enhancer
CCB	*CACNB2*	10	18567741-18568674	Enhancer
CCB	*CACNB2*	10	18621941-18623677	Enhancer
CCB	*CACNB2*	10	18762421-18762610	Enhancer
CCB	*CACNB2*	10	18760801-18761292	Enhancer
CCB	*CACNB2*	10	18712923-18713793	Enhancer
CCB	*CACNB2*	10	18794315-18795372	Enhancer

CCB	*CACNB2*	10	18745609-18746373	Enhancer
CCB	*CACNB2*	10	18514101-18514250	Enhancer
CCB	*CACNB2*	10	18348427-18349711	Enhancer
CCB	*CACNB2*	10	18583664-18583897	Enhancer
CCB	*CACNB2*	10	18738269-18739296	Enhancer
CCB	*CACNB2*	10	18744481-18744630	Enhancer
CCB	*CACNB2*	10	18744181-18744330	Enhancer
CCB	*CACNB2*	10	18528875-18530208	Enhancer
CCB	*CACNB2*	10	18718065-18718645	Enhancer
CCB	*CACNB2*	10	18751830-18756160	Enhancer
CCB	*CACNB2*	10	18749922-18751579	Enhancer
CCB	*CACNB2*	10	18579741-18580614	Enhancer
CCB	*CACNB2*	10	18567265-18567424	Enhancer
CCB	*CACNB2*	10	18648500-18649316	Enhancer
CCB	*CACNB2*	10	18702212-18703692	Enhancer
CCB	*CACNB2*	10	18703721-18704168	Enhancer
CCB	*CACNB2*	10	18778915-18780659	Enhancer
CCB	*CACNB2*	10	18787912-18789147	Enhancer
CCB	*CACNB2*	10	18792942-18793535	Enhancer
CCB	*CACNB2*	10	18817341-18817490	Enhancer
CCB	*CACNB2*	10	18816741-18816890	Enhancer
CCB	*CACNB2*	10	18740308-18740990	Enhancer
CCB	*CACNB2*	10	18741628-18742721	Enhancer
CCB	*CACNB2*	10	18732026-18732639	Enhancer
CCB	*CACNB2*	10	18723647-18724379	Enhancer
CCB	***CACNB3***	**12**	**49207577-49222726**	**Gene**
CCB	*CACNB3*	12	49203763-49210435	Promoter/Enhancer
CCB	*CACNB3*	12	49211575-49213450	Promoter/Enhancer
CCB	*CACNB3*	12	49448916-49455655	Promoter/Enhancer
CCB	*CACNB3*	12	49108721-49111783	Promoter/Enhancer
CCB	*CACNB3*	12	49522862-49527437	Promoter/Enhancer
CCB	*CACNB3*	12	49657029-49663594	Promoter/Enhancer
CCB	*CACNB3*	12	49180347-49184467	Promoter/Enhancer
CCB	*CACNB3*	12	48225635-48230585	Enhancer
CCB	*CACNB3*	12	49687781-49689222	Promoter/Enhancer
CCB	*CACNB3*	12	49147321-49147490	Enhancer
CCB	*CACNB3*	12	49173178-49175941	Enhancer
CCB	*CACNB3*	12	49159161-49159930	Enhancer
CCB	*CACNB3*	12	49580149-49584425	Promoter/Enhancer
CCB	*CACNB3*	12	49162061-49162210	Enhancer
CCB	*CACNB3*	12	49144534-49144559	Enhancer
CCB	*CACNB3*	12	49160229-49161861	Enhancer
CCB	*CACNB3*	12	49179679-49180345	Enhancer
CCB	*CACNB3*	12	49217901-49218190	Enhancer
CCB	*CACNB3*	12	49267159-49267283	Enhancer
CCB	***CACNB4***	**2**	**152689285-152955593**	**Gene**
CCB	*CACNB4*	2	152954056-152956046	Promoter/Enhancer
CCB	*CACNB4*	2	152830115-152830847	Promoter/Enhancer
CCB	*CACNB4*	2	152918555-152920030	Enhancer
CCB	*CACNB4*	2	152894160-152895545	Enhancer
CCB	*CACNB4*	2	152851019-152853401	Enhancer
CCB	*CACNB4*	2	152910872-152912587	Enhancer
CCB	*CACNB4*	2	152855681-152855810	Enhancer
CCB	*CACNB4*	2	152882049-152882769	Enhancer
CCB	*CACNB4*	2	152779338-152780439	Enhancer
CCB	*CACNB4*	2	152803715-152805070	Enhancer
CCB	*CACNB4*	2	152906315-152907630	Enhancer
CCB	*CACNB4*	2	153308651-153311667	Enhancer
CCB	*CACNB4*	2	152564775-152568412	Enhancer
CCB	*CACNB4*	2	152573345-152574228	Enhancer
CCB	*CACNB4*	2	152700971-152701203	Enhancer
CCB	*CACNB4*	2	153319291-153319615	Enhancer
CCB	*CACNB4*	2	152757130-152757527	Enhancer
CCB	*CACNB4*	2	152860915-152861914	Enhancer
CCB	*CACNB4*	2	152945115-152946314	Enhancer

CCB	*CACNB4*	2	152899381-152899610	Enhancer
CCB	*CACNB4*	2	152036987-152037136	Enhancer
CCB	*CACNB4*	2	152735004-152736098	Enhancer
CCB	*CACNB4*	2	152742479-152743543	Enhancer
CCB	*CACNB4*	2	152887915-152888514	Enhancer
CCB	*CACNB4*	2	152971717-152971973	Enhancer
CCB	*CACNB4*	2	152699171-152700353	Enhancer
CCB	*CACNB4*	2	152714201-152714370	Enhancer
CCB	*CACNB4*	2	152789657-152790028	Enhancer
CCB	*CACNB4*	2	152748315-152748714	Enhancer
CCB	*CACNB4*	2	152774315-152775314	Enhancer
CCB	*CACNB4*	2	152800230-152802596	Enhancer
CCB	*CACNB4*	2	152800061-152800210	Enhancer
CCB	***CACNG1***	**17**	**65040652-65052913**	**Gene**
CCB	*CACNG1*	17	65038563-65044391	Promoter/Enhancer
CCB	*CACNG1*	17	65239492-65244198	Promoter/Enhancer
CCB	*CACNG1*	17	65049530-65051511	Enhancer
CCB	*CACNG1*	17	65106597-65109013	Enhancer
CCB	*CACNG1*	17	65090722-65092662	Enhancer
CCB	*CACNG1*	17	65253360-65257469	Enhancer
CCB	*CACNG1*	17	65154098-65154970	Enhancer
CCB	*CACNG1*	17	65276135-65278586	Enhancer
CCB	*CACNG1*	17	65052236-65053547	Enhancer
CCB	*CACNG1*	17	65234500-65237415	Enhancer
CCB	*CACNG1*	17	65045559-65048695	Enhancer
CCB	*CACNG1*	17	65103906-65106201	Enhancer
CCB	*CACNG1*	17	65211601-65212541	Enhancer
CCB	*CACNG1*	17	65072516-65072985	Enhancer
CCB	*CACNG1*	17	65055208-65056211	Enhancer
CCB	***CACNA1C***	**12**	**2079952-2807115**	**Gene**
CCB	*CACNA1C*	12	2161566-2164566	Promoter/Enhancer
CCB	*CACNA1C*	12	2081194-2082566	Enhancer
CCB	*CACNA1C*	12	2079295-2081006	Enhancer
CCB	*CACNA1C*	12	2691972-2692849	Enhancer
CCB	*CACNA1C*	12	2143967-2144936	Enhancer
CCB	*CACNA1C*	12	2183654-2186279	Enhancer
CCB	*CACNA1C*	12	2372777-2379299	Enhancer
CCB	*CACNA1C*	12	2216896-2226195	Enhancer
CCB	*CACNA1C*	12	1767798-1773105	Enhancer
CCB	*CACNA1C*	12	2161154-2161552	Enhancer
CCB	*CACNA1C*	12	2419663-2421680	Enhancer
CCB	*CACNA1C*	12	2228156-2230922	Enhancer
CCB	*CACNA1C*	12	2206541-2209473	Enhancer
CCB	*CACNA1C*	12	2364427-2364812	Enhancer
CCB	*CACNA1C*	12	2444050-2449090	Enhancer
CCB	*CACNA1C*	12	2181896-2183390	Enhancer
CCB	*CACNA1C*	12	2210028-2211778	Enhancer
CCB	*CACNA1C*	12	2200243-2201838	Enhancer
CCB	*CACNA1C*	12	2112379-2114467	Promoter/Enhancer
CCB	*CACNA1C*	12	2101946-2105129	Enhancer
CCB	*CACNA1C*	12	2044799-2047397	Enhancer
CCB	*CACNA1C*	12	2118861-2119010	Enhancer
CCB	*CACNA1C*	12	2121501-2121650	Enhancer
CCB	*CACNA1C*	12	2048444-2049910	Enhancer
CCB	*CACNA1C*	12	2122654-2123350	Enhancer
CCB	*CACNA1C*	12	2075648-2076741	Enhancer
CCB	*CACNA1C*	12	2058121-2060041	Enhancer
CCB	*CACNA1C*	12	2055375-2057136	Enhancer
CCB	*CACNA1C*	12	2120201-2121450	Enhancer
CCB	*CACNA1C*	12	2117981-2118130	Enhancer
CCB	*CACNA1C*	12	2173006-2173941	Enhancer
CCB	*CACNA1C*	12	2082932-2084071	Enhancer
CCB	*CACNA1C*	12	2069591-2073188	Enhancer
CCB	*CACNA1C*	12	2089853-2091243	Enhancer
CCB	*CACNA1C*	12	2125886-2127966	Enhancer

CCB	*CACNA1C*	12	2166481-2166670	Enhancer
CCB	*CACNA1C*	12	2466656-2469074	Enhancer
CCB	*CACNA1C*	12	2403410-2405816	Enhancer
CCB	*CACNA1C*	12	2356637-2359010	Enhancer
CCB	*CACNA1C*	12	2057237-2057501	Enhancer
CCB	*CACNA1C*	12	2431967-2434188	Enhancer
CCB	*CACNA1C*	12	2352323-2354776	Enhancer
CCB	*CACNA1C*	12	2365074-2366654	Enhancer
CCB	*CACNA1C*	12	2391640-2398088	Enhancer
CCB	*CACNA1C*	12	2450181-2451861	Enhancer
CCB	*CACNA1C*	12	2164767-2165166	Enhancer
CCB	*CACNA1C*	12	2277277-2279377	Enhancer
CCB	*CACNA1C*	12	2271349-2274081	Enhancer
CCB	*CACNA1C*	12	2322103-2323450	Enhancer
CCB	*CACNA1C*	12	2110661-2111403	Enhancer
CCB	*CACNA1C*	12	2288839-2290765	Enhancer
CCB	*CACNA1C*	12	2347936-2349143	Enhancer
CCB	*CACNA1C*	12	2415078-2416557	Enhancer
CCB	*CACNA1C*	12	2306940-2308560	Enhancer
CCB	*CACNA1C*	12	2292498-2294028	Enhancer
CCB	*CACNA1C*	12	2453367-2455170	Enhancer
CCB	*CACNA1C*	12	2084572-2086775	Enhancer
CCB	*CACNA1C*	12	2087127-2087591	Enhancer
CCB	*CACNA1C*	12	2095160-2096573	Enhancer
CCB	*CACNA1C*	12	2139487-2143377	Enhancer
CCB	*CACNA1C*	12	2175103-2177148	Enhancer
CCB	*CACNA1C*	12	2262602-2264090	Enhancer
CCB	*CACNA1C*	12	2193334-2194490	Enhancer
CCB	*CACNA1C*	12	2409918-2412424	Enhancer
CCB	*CACNA1C*	12	2158809-2159784	Enhancer
CCB	*CACNA1C*	12	2359329-2360982	Enhancer
CCB	*CACNA1C*	12	2428657-2429566	Enhancer
CCB	*CACNA1C*	12	2400461-2400630	Enhancer
CCB	*CACNA1C*	12	2119384-2120057	Enhancer
CCB	*CACNA1C*	12	2203341-2204336	Enhancer
CCB	*CACNA1C*	12	2170143-2171251	Enhancer
CCB	*CACNA1C*	12	2281781-2281930	Enhancer
CCB	*CACNA1C*	12	2260436-2262389	Enhancer
CCB	*CACNA1C*	12	2302013-2306687	Enhancer
CCB	*CACNA1C*	12	2368400-2369290	Enhancer
CCB	*CACNA1C*	12	2442171-2442390	Enhancer
CCB	*CACNA1C*	12	2270781-2270930	Enhancer
CCB	*CACNA1C*	12	2339165-2339784	Enhancer
CCB	*CACNA1C*	12	2238381-2238550	Enhancer
CCB	*CACNA1C*	12	2268934-2269887	Enhancer
CCB	*CACNA1C*	12	2254615-2256378	Enhancer
CCB	*CACNA1C*	12	2342039-2342990	Enhancer
CCB	*CACNA1C*	12	2428367-2428566	Enhancer
CCB	*CACNA1C*	12	2427157-2427717	Enhancer
CCB	*CACNA1C*	12	2398761-2400405	Enhancer
CCB	*CACNA1C*	12	2335414-2336748	Enhancer
CCB	*CACNA1C*	12	2167767-2169880	Enhancer
CCB	*CACNA1C*	12	2148495-2149324	Enhancer
CCB	*CACNA1C*	12	2138706-2139344	Enhancer
CCB	*CACNA1C*	12	2171351-2172258	Enhancer
CCB	*CACNA1C*	12	2245167-2245366	Enhancer
CCB	*CACNA1C*	12	2246831-2248330	Enhancer
CCB	*CACNA1C*	12	2280498-2280632	Enhancer
CCB	*CACNA1C*	12	2281401-2281550	Enhancer
CCB	*CACNA1C*	12	2265561-2265750	Enhancer
CCB	*CACNA1C*	12	2407617-2408956	Enhancer
CCB	*CACNA1C*	12	2192366-2192566	Enhancer
CCB	*CACNA1C*	12	2274261-2274410	Enhancer
CCB	*CACNA1C*	12	2281201-2281350	Enhancer
CCB	*CACNA1C*	12	2177211-2178762	Enhancer

CCB	*CACNA1C*	12	2442567-2442967	Enhancer
CCB	*CACNA1C*	12	2441541-2441690	Enhancer
CCB	*CACNA1C*	12	2451967-2452766	Enhancer
CCB	*CACNA1C*	12	2416801-2416950	Enhancer
CCB	*CACNA1C*	12	2323730-2325500	Enhancer
CCB	*CACNA1C*	12	2349249-2351414	Enhancer
CCB	*CACNA1C*	12	2380803-2386142	Enhancer
CCB	*CACNA1C*	12	2336889-2337604	Enhancer
CCB	*CACNA1C*	12	2457223-2458492	Enhancer
CCB	*CACNA1C*	12	2249789-2251721	Enhancer
CCB	*CACNA1C*	12	2294781-2295709	Enhancer
CCB	*CACNA1C*	12	2186647-2187626	Enhancer
CCB	*CACNA1C*	12	2438360-2439517	Enhancer
CCB	*CACNA1C*	12	2407095-2407603	Enhancer
CCB	*CACNA1C*	12	2386355-2387332	Enhancer
CCB	*CACNA1C*	12	2328750-2331231	Enhancer
CCB	*CACNA1C*	12	2400774-2402962	Enhancer
CCB	*CACNA1C*	12	2245404-2246734	Enhancer
CCB	*CACNA1C*	12	2274438-2275487	Enhancer
CCB	*CACNA1C*	12	2195393-2196970	Enhancer
CCB	*CACNA1C*	12	2233400-2237679	Enhancer
CCB	*CACNA1C*	12	2283997-2286741	Enhancer
CCB	*CACNA1C*	12	2287176-2288132	Enhancer
CCB	*CACNA1C*	12	2258324-2259667	Enhancer
CCB	*CACNA1C*	12	2343203-2345601	Enhancer
CCB	*CACNA1C*	12	2299019-2299959	Enhancer
CCB	*CACNA1C*	12	2412745-2414119	Enhancer
CCB	*CACNA1C*	12	2188468-2189111	Enhancer
CCB	*CACNA1C*	12	2434584-2435528	Enhancer
CCB	*CACNA1C*	12	2316947-2318292	Enhancer
CCB	*CACNA1C*	12	2333218-2334248	Enhancer
CCB	*CACNA1C*	12	2331290-2332420	Enhancer
CCB	*CACNA1C*	12	2440488-2441051	Enhancer
CCB	*CACNA1C*	12	2320137-2320914	Enhancer
CCB	*CACNA1C*	12	2326691-2328736	Enhancer
CCB	*CACNA1C*	12	2649836-2650311	Enhancer
CCB	*CACNA1C*	12	2506981-2507050	Enhancer
CCB	*CACNA1C*	12	2659879-2661404	Enhancer
CCB	*CACNA1C*	12	2515793-2516578	Enhancer
CCB	*CACNA1C*	12	2522460-2525715	Enhancer
CCB	*CACNA1C*	12	2526621-2527392	Enhancer
CCB	*CACNA1C*	12	2695181-2696063	Enhancer
CCB	*CACNA1C*	12	2543714-2545518	Enhancer
CCB	*CACNA1C*	12	2721754-2724057	Enhancer
CCB	*CACNA1C*	12	2547538-2548942	Enhancer
CCB	*CACNA1C*	12	2497459-2500942	Enhancer
CCB	*CACNA1C*	12	2733321-2734829	Enhancer
CCB	*CACNA1C*	12	2555271-2555641	Enhancer
CCB	*CACNA1C*	12	2558507-2559370	Enhancer
CCB	*CACNA1C*	12	2649619-2649812	Enhancer
CCB	*CACNA1C*	12	2736852-2737810	Enhancer
CCB	*CACNA1C*	12	2504526-2506285	Enhancer
CCB	*CACNA1C*	12	2740641-2741724	Enhancer
CCB	*CACNA1C*	12	2511126-2512729	Enhancer
CCB	*CACNA1C*	12	2512831-2514124	Enhancer
CCB	*CACNA1C*	12	2565222-2568247	Enhancer
CCB	*CACNA1C*	12	2749071-2750838	Enhancer
CCB	*CACNA1C*	12	2518209-2521853	Enhancer
CCB	*CACNA1C*	12	2463531-2463940	Enhancer
CCB	*CACNA1C*	12	2792481-2792530	Enhancer
CCB	*CACNA1C*	12	2792101-2792350	Enhancer
CCB	*CACNA1C*	12	2791561-2791670	Enhancer
CCB	*CACNA1C*	12	2791761-2791970	Enhancer
CCB	*CACNA1C*	12	2473710-2474314	Enhancer
CCB	*CACNA1C*	12	2799725-2801764	Promoter/Enhancer

CCB	*CACNA1C*	12	2603721-2603850	Enhancer
CCB	*CACNA1C*	12	2724729-2726058	Enhancer
CCB	*CACNA1C*	12	2500386-2500884	Enhancer
CCB	*CACNA1C*	12	2552550-2553765	Enhancer
CCB	*CACNA1C*	12	2561981-2563825	Enhancer
CCB	*CACNA1C*	12	2559627-2561813	Enhancer
CCB	*CACNA1C*	12	2488061-2488210	Enhancer
CCB	*CACNA1C*	12	2531341-2532583	Enhancer
CCB	*CACNA1C*	12	2537218-2542473	Enhancer
CCB	*CACNA1C*	12	2489067-2491096	Enhancer
CCB	*CACNA1C*	12	2471978-2473410	Enhancer
CCB	*CACNA1C*	12	2608221-2608370	Enhancer
CCB	*CACNA1C*	12	2613061-2613207	Enhancer
CCB	*CACNA1C*	12	2610308-2611812	Enhancer
CCB	*CACNA1C*	12	2481105-2484809	Enhancer
CCB	*CACNA1C*	12	2486081-2486390	Enhancer
CCB	*CACNA1C*	12	2491894-2495082	Enhancer
TD	***SLC12A3***	**16**	**56899119-56949762**	**Gene**
TD	*SLC12A3*	16	56899070-56899129	Promoter
TD	*SLC12A3*	16	56964403-56974458	Promoter/Enhancer
TD	*SLC12A3*	16	56839748-56841942	Enhancer
TD	*SLC12A3*	16	56834256-56834865	Enhancer
TD	*SLC12A3*	16	56893506-56897709	Enhancer
TD	*SLC12A3*	16	56903512-56904197	Enhancer
TD	*SLC12A3*	16	56901241-56901712	Enhancer
TD	*SLC12A3*	16	56905112-56905513	Enhancer
TD	*SLC12A3*	16	56948424-56953992	Enhancer
TD	*SLC12A3*	16	56942554-56948010	Enhancer
TD	*SLC12A3*	16	56908210-56909649	Enhancer
TD	*SLC12A3*	16	56932921-56933070	Enhancer
TD	*SLC12A3*	16	56922841-56922990	Enhancer

Supplementary Table 3. Main instrument single-nucleotide polymorphism (SNP) for angiotensin-converting-enzyme inhibitors (ACEIs).

SNP	Chr	Pos	EA	OA	EAF	Effect	SE	P value	Total sample size	R^2	F statistic
rs4291	17	61554194	a	t	0.6155	-0.2839	0.0312	8.65E-20	745820	3.69E-04	276

Chr: chromosome, Pos: position (hg19), EA: effect allele, OA: other allele, EAF: effect allele frequency, SE: standard error, R^2: proportion of variance explained.

Supplementary Table 4. Main instrument single-nucleotide polymorphisms (SNPs) for beta-blockers (BBs).											
SNP	Chr	Pos	EA	OA	EAF	Effect	SE	P value	Total sample size	R^2	F statistic
rs11196549	10	115707298	a	g	0.0425	0.6884	0.0784	1.58E-18	738169	1.54E-04	114
rs460718	10	115721364	a	g	0.3266	-0.2764	0.0324	1.36E-17	738169	3.34E-04	247
rs11196597	10	115788094	a	g	0.1330	0.2858	0.0458	4.23E-10	737164	1.81E-04	134
rs17875473	10	115800294	t	c	0.0871	0.3283	0.0552	2.66E-09	738170	1.43E-04	106
rs1801253	10	115805056	c	g	0.7338	0.4626	0.0344	2.84E-41	738169	4.97E-04	367
rs4359161	10	115826508	a	g	0.1812	-0.2662	0.0391	9.46E-12	738168	2.17E-04	160

Chr: chromosome, Pos: position (hg19), EA: effect allele, OA: other allele, EAF: effect allele frequency, SE: standard error, R^2: proportion of variance explained.

Supplementary Table 5. Main instrument single-nucleotide polymorphisms (SNPs) for calcium channel blockers (CCBs).

SNP	Chr	Pos	EA	OA	EAF	Effect	SE	P value	Total sample size	R^2	F statistic
rs3821843	3	53558012	a	g	0.6808	0.3373	0.0335	6.56E-24	736049	4.03E-04	297
rs114987861	3	53605712	a	g	0.0284	0.5289	0.0958	3.36E-08	737054	8.02E-05	59
rs113210396	3	53612327	t	g	0.0451	-0.4338	0.0770	1.76E-08	737164	1.03E-04	76
rs7340705	3	53734443	t	c	0.6732	-0.2425	0.0322	4.87E-14	738169	2.93E-04	217
rs2488136	10	18334521	a	g	0.2875	0.2261	0.0334	1.22E-11	738169	2.55E-04	188
rs1888693	10	18440444	a	g	0.3449	0.3858	0.0317	4.69E-34	736050	4.79E-04	353
rs16916914	10	18457722	t	c	0.9631	-0.5636	0.0806	2.72E-12	737424	1.10E-04	81
rs7076319	10	18459450	a	g	0.7339	-0.3210	0.0341	5.07E-21	737054	3.45E-04	254
rs61278674	10	18481737	a	g	0.9062	-0.3298	0.0540	1.03E-09	737163	1.54E-04	114
rs1779209	10	18514561	t	c	0.2876	0.2736	0.0336	4.23E-16	729448	3.08E-04	225
rs10828399	10	18553968	a	g	0.5218	-0.1947	0.0302	1.10E-10	738168	2.67E-04	197
rs10828452	10	18592450	a	t	0.7930	0.3046	0.0388	4.20E-15	737164	2.75E-04	203
rs10828542	10	18627285	a	g	0.6137	0.1817	0.0311	5.18E-09	738170	2.37E-04	175
rs12780039	10	18678987	c	g	0.1210	0.2852	0.0470	1.26E-09	738167	1.67E-04	123
rs112133583	10	18695681	t	c	0.0299	-0.5546	0.0973	1.18E-08	737169	8.84E-05	65
rs11014170	10	18710991	a	g	0.0206	-0.6701	0.1150	5.61E-09	732148	7.43E-05	54
rs7923191	10	18727901	a	g	0.7918	-0.3690	0.0376	1.10E-22	737054	3.34E-04	246
rs12258967	10	18727959	c	g	0.7047	0.6327	0.0337	1.08E-78	737165	7.24E-04	534
rs72786098	10	18729855	a	g	0.0322	-0.5033	0.0883	1.18E-08	737055	8.62E-05	64
rs1998822	10	18755664	a	g	0.7234	-0.1958	0.0343	1.15E-08	727331	2.15E-04	157
rs4748474	10	18790727	a	g	0.5214	0.1946	0.0304	1.61E-10	729908	2.67E-04	195
rs150857355	12	49209340	c	g	0.0217	0.9406	0.1122	5.20E-17	731300	1.10E-04	80
rs2239046	12	2434419	a	g	0.6817	0.2082	0.0322	9.58E-11	745818	2.48E-04	185
rs714277	12	2514270	t	c	0.2834	0.1986	0.0333	2.38E-09	745820	2.22E-04	165

Chr: chromosome, Pos: position (hg19), EA: effect allele, OA: other allele, EAF: effect allele frequency, SE: standard error, R^2: proportion of variance explained.

Supplementary Table 6. Mendelian randomization relative risk estimates for different disease incidence rates													
		Odds ratio			1% incidence			5% incidence			10% incidence		
Drug	Outcome	Odds ratio	Low 95% CI	Upp 95% CI	Relative risk	Low 95% CI	Upp 95% CI	Relative risk	Low 95% CI	Upp 95% CI	Relative risk	Low 95% CI	Upp 95% CI
ACEI	CHD	0.66	0.16	2.75	0.66	0.16	2.70	0.67	0.16	2.53	0.68	0.17	2.34
ACEI	Stroke	0.21	0.06	0.72	0.21	0.06	0.72	0.22	0.06	0.73	0.23	0.07	0.74
BB	CHD	0.61	0.46	0.80	0.61	0.46	0.80	0.62	0.47	0.81	0.63	0.49	0.82
BB	Stroke	0.91	0.72	1.15	0.91	0.72	1.14	0.91	0.73	1.14	0.92	0.74	1.13
CCB	CHD	0.72	0.63	0.83	0.72	0.63	0.83	0.73	0.64	0.84	0.74	0.65	0.84
CCB	Stroke	0.74	0.66	0.84	0.74	0.66	0.84	0.75	0.67	0.84	0.76	0.68	0.85

ACEI: angiotensin-converting-enzyme inhibitor; BB: beta-blocker; CCB: calcium channel blocker

Supplementary Table 7. Sensitivity analysis instrument single-nucleotide polymorphisms (SNPs) for beta-blockers (BBs) using genetic association estimates that did not correct for medication use or adjust for body mass index.

SNP	Chr	Pos	EA	OA	Effect	SE	P value	Total sample size
rs151597	10	115720514	c	g	0.0160	0.0026	1.23E-09	317754
rs1801253	10	115805056	c	g	0.0182	0.0028	9.24E-11	317754

Chr: chromosome, Pos: position (hg19), EA: effect allele, OA: other allele, SE: standard error.

Supplementary Table 8. Sensitivity analysis instrument single-nucleotide polymorphisms (SNPs) for calcium channel blockers (CCBs) using genetic association estimates that did not correct for medication use or adjust for body mass index.

SNP	Chr	Pos	EA	OA	Effect	SE	P value	Total sample size
rs10741083	10	18790858	c	t	0.0142	0.0026	2.64E-08	317754
rs12258967	10	18727959	g	c	-0.0314	0.0027	1.73E-31	317754
rs17604757	10	18442940	g	a	0.0318	0.0050	1.78E-10	317754
rs1779240	10	18476313	a	g	-0.0189	0.0029	6.89E-11	317754
rs10828650	10	18691531	g	a	0.0185	0.0026	1.56E-12	317754
rs35593046	3	53553923	t	g	-0.0164	0.0028	6.23E-09	317754

Chr: chromosome, Pos: position (hg19), EA: effect allele, OA: other allele, SE: standard error.

Supplementary Table 9. Possible pleiotropic effects related to the angiotensin-converting-enzyme inhibitor (ACEI), beta-blocker (BB) and calcium channel blocker (CCB) genetic variants, as identified using PhenoScanner.

Drug	Instrument SNP	Position (hg19)	Effect allele	Other allele	SNP	Position (hg19)	Effect allele	Other allele	Proxy	r^2	Trait	Study	PMID	Ancestry	Year	Beta	Standard error	P	Total sample size	Cases	Controls	Unit
ACEI	rs4291	chr17:61554194	A	T	rs4291	chr17:61554194	A	T	No	1.00	Medication for cholesterol, blood pressure or diabetes: blood pressure medication	Neale B	UKBB	European	2017	-0.0097	0.0016	1.71E-09	154702	38548	116154	-
	rs4291	chr17:61554194	A	T	rs4291	chr17:61554194	A	T	No	1.00	Medication for cholesterol, blood pressure or diabetes: none of the above	Neale B	UKBB	European	2017	0.0104	0.0018	3.80E-09	154702	103004	51698	-
	rs4291	chr17:61554194	A	T	rs4291	chr17:61554194	A	T	No	1.00	Self-reported hypertension	Neale B	UKBB	European	2017	-0.0087	0.0011	3.90E-15	337159	87690	249469	-
	rs4291	chr17:61554194	A	T	rs4291	chr17:61554194	A	T	No	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	-0.0088	0.0011	5.30E-15	336683	91033	245650	-
	rs4291	chr17:61554194	A	T	rs4291	chr17:61554194	A	T	No	1.00	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	0.0087	0.0012	3.30E-14	336683	236530	100153	-
	rs4291	chr17:61554194	A	T	rs4295	chr17:61556298	G	C	Yes	0.99	Medication for cholesterol, blood pressure or diabetes: blood pressure medication	Neale B	UKBB	European	2017	-0.0097	0.0016	1.84E-09	154702	38548	116154	-
	rs4291	chr17:61554194	A	T	rs4295	chr17:61556298	G	C	Yes	0.99	Medication for cholesterol, blood pressure or diabetes: none of the above	Neale B	UKBB	European	2017	0.0103	0.0018	4.67E-09	154702	103004	51698	-
	rs4291	chr17:61554194	A	T	rs4295	chr17:61556298	G	C	Yes	0.99	Self-reported hypertension	Neale B	UKBB	European	2017	-0.0087	0.0011	3.58E-15	337159	87690	249469	-
	rs4291	chr17:61554194	A	T	rs4295	chr17:61556298	G	C	Yes	0.99	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	-0.0088	0.0011	5.02E-15	336683	91033	245650	-
	rs4291	chr17:61554194	A	T	rs4295	chr17:61556298	G	C	Yes	0.99	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	0.0088	0.0012	2.55E-14	336683	236530	100153	-
	rs4291	chr17:61554194	A	T	rs4292	chr17:61554341	T	C	Yes	0.98	Medication for cholesterol, blood pressure or diabetes: blood pressure medication	Neale B	UKBB	European	2017	-0.0098	0.0016	1.15E-09	154702	38548	116154	-
	rs4291	chr17:61554194	A	T	rs4292	chr17:61554341	T	C	Yes	0.98	Medication for cholesterol, blood pressure or diabetes: none of the above	Neale B	UKBB	European	2017	0.0104	0.0018	2.98E-09	154702	103004	51698	-
	rs4291	chr17:61554194	A	T	rs4292	chr17:61554341	T	C	Yes	0.98	Self-reported hypertension	Neale B	UKBB	European	2017	-0.0088	0.0011	2.66E-15	337159	87690	249469	-
	rs4291	chr17:61554194	A	T	rs4292	chr17:61554341	T	C	Yes	0.98	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	-0.0088	0.0011	3.64E-15	336683	91033	245650	-
	rs4291	chr17:61554194	A	T	rs4292	chr17:61554341	T	C	Yes	0.98	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	0.0088	0.0012	2.65E-14	336683	236530	100153	-
	rs4291	chr17:61554194	A	T	rs4308	chr17:61559625	G	A	Yes	0.98	Diastolic blood pressure	Warren HR	28135244	European	2017	-0.2130	0.0285	7.00E-14	-	-	-	unit increase
	rs4291	chr17:61554194	A	T	rs4308	chr17:61559625	G	A	Yes	0.98	Medication for cholesterol, blood pressure or diabetes: blood pressure medication	Neale B	UKBB	European	2017	-0.0099	0.0016	1.05E-09	154702	38548	116154	-
	rs4291	chr17:61554194	A	T	rs4308	chr17:61559625	G	A	Yes	0.98	Medication for cholesterol, blood pressure or diabetes: none of the above	Neale B	UKBB	European	2017	0.0105	0.0018	2.38E-09	154702	103004	51698	-
	rs4291	chr17:61554194	A	T	rs4308	chr17:61559625	G	A	Yes	0.98	Self-reported hypertension	Neale B	UKBB	European	2017	-0.0087	0.0011	3.57E-15	337159	87690	249469	-
	rs4291	chr17:61554194	A	T	rs4308	chr17:61559625	G	A	Yes	0.98	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	-0.0088	0.0011	4.83E-15	336683	91033	245650	-
	rs4291	chr17:61554194	A	T	rs4308	chr17:61559625	G	A	Yes	0.98	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	0.0088	0.0012	2.11E-14	336683	236530	100153	-
	rs4291	chr17:61554194	A	T	rs4459609	chr17:61548948	A	C	Yes	0.96	Diastolic blood pressure	Wain LV	28739976	European	2017	0.1980	0.0259	2.00E-14	-	-	-	unit decrease
	rs4291	chr17:61554194	A	T	rs4459609	chr17:61548948	A	C	Yes	0.96	Medication for cholesterol, blood pressure or diabetes: blood pressure medication	Neale B	UKBB	European	2017	-0.0096	0.0016	1.87E-09	154702	38548	116154	-
	rs4291	chr17:61554194	A	T	rs4459609	chr17:61548948	A	C	Yes	0.96	Medication for cholesterol, blood pressure or diabetes: none of the above	Neale B	UKBB	European	2017	0.0104	0.0017	2.54E-09	154702	103004	51698	-
	rs4291	chr17:61554194	A	T	rs4459609	chr17:61548948	A	C	Yes	0.96	Self-reported hypertension	Neale B	UKBB	European	2017	-0.0088	0.0011	9.45E-16	337159	87690	249469	-

	rs4291	chr17:61554194	A	T	rs4459609	chr17:61548948	A	C	Yes	0.96	Treatment with blood pressure medication	Neale B	UKBB	European	2017	-0.0075	0.0013	1.09E-08	180203	31488	148715	-
	rs4291	chr17:61554194	A	T	rs4459609	chr17:61548948	A	C	Yes	0.96	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	-0.0089	0.0011	1.32E-15	336683	91033	245650	-
	rs4291	chr17:61554194	A	T	rs4459609	chr17:61548948	A	C	Yes	0.96	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	0.0090	0.0011	4.78E-15	336683	236530	100153	-
BB	rs460718	chr10:115721364	A	G	rs460718	chr10:115721364	A	G	No	1.00	Diastolic blood pressure	Neale B	UKBB	European	2017	-0.0196	0.0026	8.85E-14	317756	0	317756	IVNT
	rs460718	chr10:115721364	A	G	rs460718	chr10:115721364	A	G	No	1.00	Self-reported hypertension	Neale B	UKBB	European	2017	-0.0078	0.0011	8.18E-12	337159	87690	249469	-
	rs460718	chr10:115721364	A	G	rs460718	chr10:115721364	A	G	No	1.00	Systolic blood pressure	Neale B	UKBB	European	2017	-0.0158	0.0026	1.82E-09	317754	0	317754	IVNT
	rs460718	chr10:115721364	A	G	rs460718	chr10:115721364	A	G	No	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	-0.0080	0.0012	3.75E-12	336683	91033	245650	-
	rs460718	chr10:115721364	A	G	rs460718	chr10:115721364	A	G	No	1.00	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	0.0075	0.0012	2.58E-10	336683	236530	100153	-
	rs460718	chr10:115721364	A	G	rs466328	chr10:115721369	G	T	Yes	1.00	Diastolic blood pressure	Neale B	UKBB	European	2017	-0.0196	0.0026	8.19E-14	317756	0	317756	IVNT
	rs460718	chr10:115721364	A	G	rs466328	chr10:115721369	G	T	Yes	1.00	Self-reported hypertension	Neale B	UKBB	European	2017	-0.0078	0.0011	8.19E-12	337159	87690	249469	-
	rs460718	chr10:115721364	A	G	rs466328	chr10:115721369	G	T	Yes	1.00	Systolic blood pressure	Neale B	UKBB	European	2017	-0.0158	0.0026	2.04E-09	317754	0	317754	IVNT
	rs460718	chr10:115721364	A	G	rs466328	chr10:115721369	G	T	Yes	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	-0.0080	0.0012	3.94E-12	336683	91033	245650	-
	rs460718	chr10:115721364	A	G	rs466328	chr10:115721369	G	T	Yes	1.00	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	0.0075	0.0012	2.55E-10	336683	236530	100153	-
	rs460718	chr10:115721364	A	G	rs467173	chr10:115721430	T	G	Yes	1.00	Diastolic blood pressure	Neale B	UKBB	European	2017	-0.0196	0.0026	9.09E-14	317756	0	317756	IVNT
	rs460718	chr10:115721364	A	G	rs467173	chr10:115721430	T	G	Yes	1.00	Self-reported hypertension	Neale B	UKBB	European	2017	-0.0078	0.0011	8.30E-12	337159	87690	249469	-
	rs460718	chr10:115721364	A	G	rs467173	chr10:115721430	T	G	Yes	1.00	Systolic blood pressure	Neale B	UKBB	European	2017	-0.0158	0.0026	1.77E-09	317754	0	317754	IVNT
	rs460718	chr10:115721364	A	G	rs467173	chr10:115721430	T	G	Yes	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	-0.0080	0.0012	3.53E-12	336683	91033	245650	-
	rs460718	chr10:115721364	A	G	rs467173	chr10:115721430	T	G	Yes	1.00	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	0.0075	0.0012	2.47E-10	336683	236530	100153	-
	rs460718	chr10:115721364	A	G	rs180940	chr10:115722411	A	G	Yes	1.00	Diastolic blood pressure	Neale B	UKBB	European	2017	-0.0198	0.0026	4.48E-14	317756	0	317756	IVNT
	rs460718	chr10:115721364	A	G	rs180940	chr10:115722411	A	G	Yes	1.00	Self-reported hypertension	Neale B	UKBB	European	2017	-0.0079	0.0011	4.95E-12	337159	87690	249469	-
	rs460718	chr10:115721364	A	G	rs180940	chr10:115722411	A	G	Yes	1.00	Systolic blood pressure	Neale B	UKBB	European	2017	-0.0159	0.0026	1.35E-09	317754	0	317754	IVNT
	rs460718	chr10:115721364	A	G	rs180940	chr10:115722411	A	G	Yes	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	-0.0081	0.0012	2.23E-12	336683	91033	245650	-
	rs460718	chr10:115721364	A	G	rs180940	chr10:115722411	A	G	Yes	1.00	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	0.0076	0.0012	1.34E-10	336683	236530	100153	-
	rs460718	chr10:115721364	A	G	rs151599	chr10:115724039	G	A	Yes	1.00	Diastolic blood pressure	Neale B	UKBB	European	2017	-0.0198	0.0026	5.08E-14	317756	0	317756	IVNT
	rs460718	chr10:115721364	A	G	rs151599	chr10:115724039	G	A	Yes	1.00	Self-reported hypertension	Neale B	UKBB	European	2017	-0.0079	0.0011	5.01E-12	337159	87690	249469	-
	rs460718	chr10:115721364	A	G	rs151599	chr10:115724039	G	A	Yes	1.00	Systolic blood pressure	Neale B	UKBB	European	2017	-0.0159	0.0026	1.32E-09	317754	0	317754	IVNT
	rs460718	chr10:115721364	A	G	rs151599	chr10:115724039	G	A	Yes	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	-0.0081	0.0012	2.28E-12	336683	91033	245650	-
	rs460718	chr10:115721364	A	G	rs151599	chr10:115724039	G	A	Yes	1.00	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	0.0076	0.0012	1.41E-10	336683	236530	100153	-
	rs1801253	chr10:115805056	C	G	rs1801253	chr10:115805056	C	G	No	1.00	Diastolic blood pressure	BPExome	NA	Mixed	2016	NA	NA	2.44E-16	192763	0	192763	INVT
	rs1801253	chr10:115805056	C	G	rs1801253	chr10:115805056	C	G	No	1.00	Systolic blood pressure	BPExome	NA	Mixed	2016	NA	NA	1.19E-10	192763	0	192763	INVT
	rs1801253	chr10:115805056	C	G	rs1801253	chr10:115805056	C	G	No	1.00	**Birth weight and gestational age**	EGGC	23202124	European	2013	NA	NA	3.57E-09	26836	-	-	-

rs1801253	chr10:115805056	C	G	rs1801253	chr10:115805056	C	G	No	1.00	**Birth weight**	EGGC	23202124	European	2013	-0.0410	0.0070	4.00E-09	-	-	-	gram decrease
rs1801253	chr10:115805056	C	G	rs1801253	chr10:115805056	C	G	No	1.00	**Birth weight**	Neale B	UKBB	European	2017	0.0286	0.0036	2.86E-15	193063	0	193063	IVNT
rs1801253	chr10:115805056	C	G	rs1801253	chr10:115805056	C	G	No	1.00	Diastolic blood pressure	Neale B	UKBB	European	2017	0.0242	0.0028	6.04E-18	317756	0	317756	IVNT
rs1801253	chr10:115805056	C	G	rs1801253	chr10:115805056	C	G	No	1.00	**Height**	Neale B	UKBB	European	2017	0.0125	0.0020	2.17E-10	336474	0	336474	IVNT
rs1801253	chr10:115805056	C	G	rs1801253	chr10:115805056	C	G	No	1.00	Self-reported hypertension	Neale B	UKBB	European	2017	0.0108	0.0012	6.95E-19	337159	87690	249469	-
rs1801253	chr10:115805056	C	G	rs1801253	chr10:115805056	C	G	No	1.00	Systolic blood pressure	Neale B	UKBB	European	2017	0.0182	0.0028	9.24E-11	317754	0	317754	IVNT
rs1801253	chr10:115805056	C	G	rs1801253	chr10:115805056	C	G	No	1.00	Treatment with blood pressure medication	Neale B	UKBB	European	2017	0.0096	0.0014	3.14E-11	180203	31488	148715	-
rs1801253	chr10:115805056	C	G	rs1801253	chr10:115805056	C	G	No	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	0.0117	0.0012	1.70E-21	336683	91033	245650	-
rs1801253	chr10:115805056	C	G	rs1801253	chr10:115805056	C	G	No	1.00	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	-0.0115	0.0013	1.35E-19	336683	236530	100153	-
rs1801253	chr10:115805056	C	G	rs2484294	chr10:115792062	A	G	Yes	0.97	**Birth weight**	Neale B	UKBB	European	2017	0.0280	0.0036	8.12E-15	193063	0	193063	IVNT
rs1801253	chr10:115805056	C	G	rs2484294	chr10:115792062	A	G	Yes	0.97	Diastolic blood pressure	Neale B	UKBB	European	2017	0.0241	0.0028	7.73E-18	317756	0	317756	IVNT
rs1801253	chr10:115805056	C	G	rs2484294	chr10:115792062	A	G	Yes	0.97	**Height**	Neale B	UKBB	European	2017	0.0125	0.0020	1.79E-10	336474	0	336474	IVNT
rs1801253	chr10:115805056	C	G	rs2484294	chr10:115792062	A	G	Yes	0.97	Self-reported hypertension	Neale B	UKBB	European	2017	0.0107	0.0012	8.45E-19	337159	87690	249469	-
rs1801253	chr10:115805056	C	G	rs2484294	chr10:115792062	A	G	Yes	0.97	Systolic blood pressure	Neale B	UKBB	European	2017	0.0179	0.0028	1.70E-10	317754	0	317754	IVNT
rs1801253	chr10:115805056	C	G	rs2484294	chr10:115792062	A	G	Yes	0.97	Treatment with blood pressure medication	Neale B	UKBB	European	2017	0.0096	0.0014	2.43E-11	180203	31488	148715	-
rs1801253	chr10:115805056	C	G	rs2484294	chr10:115792062	A	G	Yes	0.97	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	0.0117	0.0012	2.37E-21	336683	91033	245650	-
rs1801253	chr10:115805056	C	G	rs2484294	chr10:115792062	A	G	Yes	0.97	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	-0.0114	0.0013	2.12E-19	336683	236530	100153	-
rs1801253	chr10:115805056	C	G	rs740746	chr10:115792787	A	G	Yes	0.97	**Birth weight**	Neale B	UKBB	European	2017	0.0278	0.0036	1.03E-14	193063	0	193063	IVNT
rs1801253	chr10:115805056	C	G	rs740746	chr10:115792787	A	G	Yes	0.97	Diastolic blood pressure	Neale B	UKBB	European	2017	0.0240	0.0028	7.93E-18	317756	0	317756	IVNT
rs1801253	chr10:115805056	C	G	rs740746	chr10:115792787	A	G	Yes	0.97	**Height**	Neale B	UKBB	European	2017	0.0125	0.0020	1.96E-10	336474	0	336474	IVNT
rs1801253	chr10:115805056	C	G	rs740746	chr10:115792787	A	G	Yes	0.97	Self-reported hypertension	Neale B	UKBB	European	2017	0.0108	0.0012	6.26E-19	337159	87690	249469	-
rs1801253	chr10:115805056	C	G	rs740746	chr10:115792787	A	G	Yes	0.97	Systolic blood pressure	Neale B	UKBB	European	2017	0.0180	0.0028	1.28E-10	317754	0	317754	IVNT
rs1801253	chr10:115805056	C	G	rs740746	chr10:115792787	A	G	Yes	0.97	Treatment with blood pressure medication	Neale B	UKBB	European	2017	0.0096	0.0014	2.07E-11	180203	31488	148715	-
rs1801253	chr10:115805056	C	G	rs740746	chr10:115792787	A	G	Yes	0.97	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	0.0117	0.0012	1.66E-21	336683	91033	245650	-
rs1801253	chr10:115805056	C	G	rs740746	chr10:115792787	A	G	Yes	0.97	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	-0.0114	0.0013	1.88E-19	336683	236530	100153	-
rs1801253	chr10:115805056	C	G	rs2773469	chr10:115798895	G	A	Yes	0.97	**Birth weight**	Neale B	UKBB	European	2017	0.0281	0.0036	6.15E-15	193063	0	193063	IVNT
rs1801253	chr10:115805056	C	G	rs2773469	chr10:115798895	G	A	Yes	0.97	Diastolic blood pressure	Neale B	UKBB	European	2017	0.0240	0.0028	9.55E-18	317756	0	317756	IVNT
rs1801253	chr10:115805056	C	G	rs2773469	chr10:115798895	G	A	Yes	0.97	**Height**	Neale B	UKBB	European	2017	0.0125	0.0020	1.93E-10	336474	0	336474	IVNT
rs1801253	chr10:115805056	C	G	rs2773469	chr10:115798895	G	A	Yes	0.97	Self-reported hypertension	Neale B	UKBB	European	2017	0.0107	0.0012	9.39E-19	337159	87690	249469	-
rs1801253	chr10:115805056	C	G	rs2773469	chr10:115798895	G	A	Yes	0.97	Systolic blood pressure	Neale B	UKBB	European	2017	0.0178	0.0028	1.99E-10	317754	0	317754	IVNT
rs1801253	chr10:115805056	C	G	rs2773469	chr10:115798895	G	A	Yes	0.97	Treatment with blood pressure medication	Neale B	UKBB	European	2017	0.0096	0.0014	2.56E-11	180203	31488	148715	-
rs1801253	chr10:115805056	C	G	rs2773469	chr10:115798895	G	A	Yes	0.97	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	0.0116	0.0012	2.59E-21	336683	91033	245650	-
rs1801253	chr10:115805056	C	G	rs2773469	chr10:115798895	G	A	Yes	0.97	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	-0.0113	0.0013	2.36E-19	336683	236530	100153	-

	rs1801253	chr10:115805056	C	G	rs7076938	chr10:115789375	T	C	Yes	0.96	Diastolic blood pressure	BPExome	NA	Mixed	2016	NA	NA	4.91E-17	192763	0	192763	INVT
	rs1801253	chr10:115805056	C	G	rs7076938	chr10:115789375	T	C	Yes	0.96	Systolic blood pressure	BPExome	NA	Mixed	2016	NA	NA	3.76E-12	192763	0	192763	INVT
	rs1801253	chr10:115805056	C	G	rs7076938	chr10:115789375	T	C	Yes	0.96	**Birth weight**	Horikoshi M	27680694	Mixed	2016	0.0349	0.0040	5.00E-18	-	-	-	unit increase
	rs1801253	chr10:115805056	C	G	rs7076938	chr10:115789375	T	C	Yes	0.96	**Birth weight**	Neale B	UKBB	European	2017	0.0280	0.0036	7.82E-15	193063	0	193063	IVNT
	rs1801253	chr10:115805056	C	G	rs7076938	chr10:115789375	T	C	Yes	0.96	Diastolic blood pressure	Neale B	UKBB	European	2017	0.0241	0.0028	6.75E-18	317756	0	317756	IVNT
	rs1801253	chr10:115805056	C	G	rs7076938	chr10:115789375	T	C	Yes	0.96	**Height**	Neale B	UKBB	European	2017	0.0125	0.0020	1.74E-10	336474	0	336474	IVNT
	rs1801253	chr10:115805056	C	G	rs7076938	chr10:115789375	T	C	Yes	0.96	Self-reported hypertension	Neale B	UKBB	European	2017	0.0107	0.0012	8.24E-19	337159	87690	249469	-
	rs1801253	chr10:115805056	C	G	rs7076938	chr10:115789375	T	C	Yes	0.96	Systolic blood pressure	Neale B	UKBB	European	2017	0.0180	0.0028	1.28E-10	317754	0	317754	IVNT
	rs1801253	chr10:115805056	C	G	rs7076938	chr10:115789375	T	C	Yes	0.96	Treatment with blood pressure medication	Neale B	UKBB	European	2017	0.0096	0.0014	2.81E-11	180203	31488	148715	-
	rs1801253	chr10:115805056	C	G	rs7076938	chr10:115789375	T	C	Yes	0.96	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	0.0117	0.0012	2.34E-21	336683	91033	245650	-
	rs1801253	chr10:115805056	C	G	rs7076938	chr10:115789375	T	C	Yes	0.96	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	-0.0113	0.0013	2.34E-19	336683	236530	100153	-
	rs4359161	chr10:115826508	A	G	rs4918889	chr10:115830718	G	C	Yes	0.90	Diastolic blood pressure	Neale B	UKBB	European	2017	-0.0197	0.0033	1.46E-09	317756	0	317756	IVNT
	rs4359161	chr10:115826508	A	G	rs68122733	chr10:115831533	G	A	Yes	0.90	Diastolic blood pressure	Neale B	UKBB	European	2017	-0.0197	0.0033	1.49E-09	317756	0	317756	IVNT
	rs3821843	chr3:53558012	A	G	rs3821843	chr3:53558012	A	G	No	1.00	**Impedance of whole body**	Neale B	UKBB	European	2017	-0.0110	0.0020	4.21E-08	331284	0	331284	IVNT
	rs3821843	chr3:53558012	A	G	rs3821843	chr3:53558012	A	G	No	1.00	Self-reported hypertension	Neale B	UKBB	European	2017	0.0095	0.0012	2.46E-16	337159	87690	249469	-
	rs3821843	chr3:53558012	A	G	rs3821843	chr3:53558012	A	G	No	1.00	Systolic blood pressure	Neale B	UKBB	European	2017	0.0155	0.0027	7.33E-09	317754	0	317754	IVNT
	rs3821843	chr3:53558012	A	G	rs3821843	chr3:53558012	A	G	No	1.00	Treatment with amlodipine	Neale B	UKBB	European	2017	0.0029	0.0005	3.57E-08	337159	13693	323466	-
	rs3821843	chr3:53558012	A	G	rs3821843	chr3:53558012	A	G	No	1.00	Treatment with bendroflumethiazide	Neale B	UKBB	European	2017	0.0036	0.0006	4.21E-09	337159	19084	318075	-
	rs3821843	chr3:53558012	A	G	rs3821843	chr3:53558012	A	G	No	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	0.0095	0.0012	8.66E-16	336683	91033	245650	-
	rs3821843	chr3:53558012	A	G	rs3821843	chr3:53558012	A	G	No	1.00	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	-0.0094	0.0012	8.32E-15	336683	236530	100153	-
	rs7340705	chr3:53734443	C	T	rs7340705	chr3:53734443	C	T	No	1.00	Self-reported hypertension	Neale B	UKBB	European	2017	0.0071	0.0011	4.93E-10	337159	87690	249469	-
	rs7340705	chr3:53734443	C	T	rs7340705	chr3:53734443	C	T	No	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	0.0073	0.0012	4.43E-10	336683	91033	245650	-
CCB	rs7340705	chr3:53734443	C	T	rs7340705	chr3:53734443	C	T	No	1.00	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	-0.0068	0.0012	1.40E-08	336683	236530	100153	-
	rs7340705	chr3:53734443	C	T	rs2612016	chr3:53734453	C	G	Yes	1.00	Self-reported hypertension	Neale B	UKBB	European	2017	0.0072	0.0011	4.57E-10	337159	87690	249469	-
	rs7340705	chr3:53734443	C	T	rs2612016	chr3:53734453	C	G	Yes	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	0.0073	0.0012	3.90E-10	336683	91033	245650	-
	rs7340705	chr3:53734443	C	T	rs2612016	chr3:53734453	C	G	Yes	1.00	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	-0.0068	0.0012	1.21E-08	336683	236530	100153	-
	rs7340705	chr3:53734443	C	T	rs6445597	chr3:53734531	A	G	Yes	1.00	Self-reported hypertension	Neale B	UKBB	European	2017	0.0071	0.0011	5.24E-10	337159	87690	249469	-
	rs7340705	chr3:53734443	C	T	rs6445597	chr3:53734531	A	G	Yes	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	0.0072	0.0012	4.74E-10	336683	91033	245650	-
	rs7340705	chr3:53734443	C	T	rs6445597	chr3:53734531	A	G	Yes	1.00	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	-0.0068	0.0012	1.37E-08	336683	236530	100153	-
	rs7340705	chr3:53734443	C	T	rs2680663	chr3:53735299	G	A	Yes	1.00	Self-reported hypertension	Neale B	UKBB	European	2017	0.0072	0.0011	4.26E-10	337159	87690	249469	-
	rs7340705	chr3:53734443	C	T	rs2680663	chr3:53735299	G	A	Yes	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	0.0073	0.0012	4.05E-10	336683	91033	245650	-

	rs7340705	chr3:53734443	C	T	rs2680663	chr3:53735299	G	A	Yes	1.00	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	-0.0068	0.0012	1.11E-08	336683	236530	100153	-
	rs7340705	chr3:53734443	C	T	rs9841978	chr3:53730735	A	G	Yes	0.97	Self-reported hypertension	Neale B	UKBB	European	2017	0.0070	0.0011	9.61E-10	337159	87690	249469	-
	rs7340705	chr3:53734443	C	T	rs9841978	chr3:53730735	A	G	Yes	0.97	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	0.0071	0.0012	8.39E-10	336683	91033	245650	-
	rs7340705	chr3:53734443	C	T	rs9841978	chr3:53730735	A	G	Yes	0.97	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	-0.0067	0.0012	1.97E-08	336683	236530	100153	-
	rs1888693	chr10:18440444	G	A	rs1888693	chr10:18440444	G	A	No	1.00	Self-reported hypertension	Neale B	UKBB	European	2017	-0.0074	0.0011	4.21E-11	337159	87690	249469	-
	rs1888693	chr10:18440444	G	A	rs1888693	chr10:18440444	G	A	No	1.00	Systolic blood pressure	Neale B	UKBB	European	2017	-0.0159	0.0026	9.98E-10	317754	0	317754	IVNT
	rs1888693	chr10:18440444	G	A	rs1888693	chr10:18440444	G	A	No	1.00	Treatment with blood pressure medication	Neale B	UKBB	European	2017	-0.0081	0.0013	1.43E-09	180203	31488	148715	-
	rs1888693	chr10:18440444	G	A	rs1888693	chr10:18440444	G	A	No	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	-0.0078	0.0011	9.81E-12	336683	91033	245650	-
	rs1888693	chr10:18440444	G	A	rs1888693	chr10:18440444	G	A	No	1.00	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	0.0074	0.0012	2.49E-10	336683	236530	100153	-
	rs16916914	chr10:18457722	C	T	rs16916914	chr10:18457722	C	T	No	1.00	Diastolic blood pressure	Neale B	UKBB	European	2017	0.0372	0.0068	3.51E-08	317756	0	317756	IVNT
	rs16916914	chr10:18457722	C	T	rs16916914	chr10:18457722	C	T	No	1.00	Systolic blood pressure	Neale B	UKBB	European	2017	0.0376	0.0067	2.53E-08	317754	0	317754	IVNT
	rs16916914	chr10:18457722	C	T	rs138094231	chr10:18429624	A	C	Yes	0.97	Diastolic blood pressure	Neale B	UKBB	European	2017	0.0381	0.0068	2.07E-08	317756	0	317756	IVNT
	rs16916914	chr10:18457722	C	T	rs138094231	chr10:18429624	A	C	Yes	0.97	Systolic blood pressure	Neale B	UKBB	European	2017	0.0382	0.0068	1.83E-08	317754	0	317754	IVNT
	rs16916914	chr10:18457722	C	T	rs1929423	chr10:18445684	A	G	Yes	0.97	Systolic blood pressure	Neale B	UKBB	European	2017	0.0382	0.0067	1.46E-08	317754	0	317754	IVNT
	rs16916914	chr10:18457722	C	T	rs144009622	chr10:18461061	T	G	Yes	0.97	Diastolic blood pressure	Neale B	UKBB	European	2017	0.0370	0.0068	4.30E-08	317756	0	317756	IVNT
	rs16916914	chr10:18457722	C	T	rs144009622	chr10:18461061	T	G	Yes	0.97	Systolic blood pressure	Neale B	UKBB	European	2017	0.0374	0.0067	2.98E-08	317754	0	317754	IVNT
	rs7076319	chr10:18459450	A	G	rs7076319	chr10:18459450	A	G	No	1.00	Systolic blood pressure	Neale B	UKBB	European	2017	-0.0161	0.0028	9.01E-09	317754	0	317754	IVNT
	rs7076319	chr10:18459450	A	G	rs7076319	chr10:18459450	A	G	No	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	-0.0070	0.0012	1.40E-08	336683	91033	245650	-
	rs7076319	chr10:18459450	A	G	rs11594555	chr10:18446207	T	C	Yes	0.87	Self-reported hypertension	Neale B	UKBB	European	2017	-0.0078	0.0012	1.81E-10	337159	87690	249469	-
	rs7076319	chr10:18459450	A	G	rs11594555	chr10:18446207	T	C	Yes	0.87	Systolic blood pressure	Neale B	UKBB	European	2017	-0.0170	0.0028	1.88E-09	317754	0	317754	IVNT
	rs7076319	chr10:18459450	A	G	rs11594555	chr10:18446207	T	C	Yes	0.87	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	-0.0084	0.0012	1.59E-11	336683	91033	245650	-
	rs7076319	chr10:18459450	A	G	rs11594555	chr10:18446207	T	C	Yes	0.87	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	0.0077	0.0013	1.89E-09	336683	236530	100153	-
	rs1779209	chr10:18514561	T	C	rs1779209	chr10:18514561	T	C	No	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	0.0066	0.0012	3.96E-08	336683	91033	245650	-
	rs10828399	chr10:18553968	A	G	rs10828399	chr10:18553968	A	G	No	1.00	**Body mass index**	Akiyama M	28892062	East Asian	2017	0.0215	0.0037	4.85E-09	173430	0	173430	IVNT
	rs10828399	chr10:18553968	A	G	rs10764373	chr10:18553665	T	G	Yes	0.99	**Body mass index**	Akiyama M	28892062	East Asian	2017	0.0215	0.0037	4.59E-09	173430	0	173430	IVNT
	rs10828399	chr10:18553968	A	G	rs2357928	chr10:18549641	A	G	Yes	0.94	**Body mass index**	Akiyama M	28892062	East Asian	2017	0.0198	0.0036	4.92E-08	173430	0	173430	IVNT
	rs12780039	chr10:18678987	C	G	rs79586955	chr10:18674765	T	A	Yes	0.92	**Pulse rate**	Neale B	UKBB	European	2017	-0.0215	0.0038	2.24E-08	317756	0	317756	IVNT
	rs7923191	chr10:18727901	A	G	rs7923191	chr10:18727901	A	G	No	1.00	Systolic blood pressure	Neale B	UKBB	European	2017	-0.0183	0.0031	2.84E-09	317754	0	317754	IVNT
	rs7923191	chr10:18727901	A	G	rs7923191	chr10:18727901	A	G	No	1.00	Treatment with blood pressure medication	Neale B	UKBB	European	2017	-0.0094	0.0016	2.77E-09	180203	31488	148715	-
	rs7923191	chr10:18727901	A	G	rs7923191	chr10:18727901	A	G	No	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	-0.0077	0.0014	1.11E-08	336683	91033	245650	-
	rs7923191	chr10:18727901	A	G	rs7923191	chr10:18727901	A	G	No	1.00	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	0.0086	0.0014	6.37E-10	336683	236530	100153	-

	rs12258967	chr10:18727959	C	G	rs12258967	chr10:18727959	C	G	No	1.00	Mean arterial pressure	Wain LV	21909110	European	2011	NA	NA	2.05E-16	74064	-	-	-
	rs12258967	chr10:18727959	C	G	rs12258967	chr10:18727959	C	G	No	1.00	Blood pressure	Wain LV	21909110	European	2011	-0.4310	0.0524	2.00E-16	-	-	-	mmHg decrease
	rs12258967	chr10:18727959	C	G	rs12258967	chr10:18727959	C	G	No	1.00	Diastolic blood pressure	Neale B	UKBB	European	2017	0.0256	0.0027	2.05E-21	317756	0	317756	IVNT
	rs12258967	chr10:18727959	C	G	rs12258967	chr10:18727959	C	G	No	1.00	Self-reported hypertension	Neale B	UKBB	European	2017	0.0105	0.0012	1.97E-19	337159	87690	249469	-
	rs12258967	chr10:18727959	C	G	rs12258967	chr10:18727959	C	G	No	1.00	Systolic blood pressure	Neale B	UKBB	European	2017	0.0314	0.0027	1.73E-31	317754	0	317754	IVNT
	rs12258967	chr10:18727959	C	G	rs12258967	chr10:18727959	C	G	No	1.00	Treatment with blood pressure medication	Neale B	UKBB	European	2017	0.0097	0.0014	2.02E-12	180203	31488	148715	-
	rs12258967	chr10:18727959	C	G	rs12258967	chr10:18727959	C	G	No	1.00	Vascular or heart problems diagnosed by doctor: high blood pressure	Neale B	UKBB	European	2017	0.0110	0.0012	1.74E-20	336683	91033	245650	-
	rs12258967	chr10:18727959	C	G	rs12258967	chr10:18727959	C	G	No	1.00	Vascular or heart problems diagnosed by doctor: none of the above	Neale B	UKBB	European	2017	-0.0113	0.0012	1.01E-20	336683	236530	100153	-
	rs12258967	chr10:18727959	C	G	rs12258967	chr10:18727959	C	G	No	1.00	Blood pressure	Wain LV	21909110	European	2011	NA	NA	2.00E-16	-	-	-	-
	rs72786098	chr10:18729855	A	G	rs72786098	chr10:18729855	A	G	No	1.00	**Small vessel stroke**	Cheng YC	26732560	Mixed	2016	1.2730	0.2268	2.00E-08	-	-	-	log OR
	rs714277	chr12:2514270	C	T	rs714277	chr12:2514270	C	T	No	1.00	**Hematocrit**	Astle W	27863252	European	2016	-0.0245	0.0039	3.38E-10	173480	0	173480	-
	rs714277	chr12:2514270	C	T	rs714277	chr12:2514270	C	T	No	1.00	**Red blood cell count**	Astle W	27863252	European	2016	-0.0242	0.0039	7.96E-10	173480	0	173480	-
	rs714277	chr12:2514270	C	T	rs714277	chr12:2514270	C	T	No	1.00	**Schizophrenia**	PGC	25056061	Mixed	2014	0.0686	0.0118	6.64E-09	82315	35476	46839	log OR
	rs714277	chr12:2514270	C	T	rs12823424	chr12:2514112	A	G	Yes	1.00	**Hematocrit**	Astle W	27863252	European	2016	-0.0246	0.0039	2.85E-10	173480	0	173480	-
	rs714277	chr12:2514270	C	T	rs12823424	chr12:2514112	A	G	Yes	1.00	**Red blood cell count**	Astle W	27863252	European	2016	-0.0243	0.0039	5.88E-10	173480	0	173480	-
	rs714277	chr12:2514270	C	T	rs12823424	chr12:2514112	A	G	Yes	1.00	**Schizophrenia**	Goes FS	26198764	European	2015	0.0677	0.0116	5.00E-09	-	-	-	log OR
	rs714277	chr12:2514270	C	T	rs12823424	chr12:2514112	A	G	Yes	1.00	**Schizophrenia**	PGC	25056061	Mixed	2014	0.0690	0.0118	5.47E-09	82315	35476	46839	log OR
	rs714277	chr12:2514270	C	T	rs2239063	chr12:2511831	A	C	Yes	1.00	**Hematocrit**	Astle W	27863252	European	2016	-0.0245	0.0039	3.04E-10	173480	0	173480	-
	rs714277	chr12:2514270	C	T	rs2239063	chr12:2511831	A	C	Yes	1.00	**Red blood cell count**	Astle W	27863252	European	2016	-0.0242	0.0039	6.62E-10	173480	0	173480	-
	rs714277	chr12:2514270	C	T	rs2239063	chr12:2511831	A	C	Yes	1.00	**Schizophrenia**	PGC	25056061	Mixed	2014	0.0690	0.0118	5.39E-09	82315	35476	46839	log OR
	rs714277	chr12:2514270	C	T	rs758117	chr12:2513309	C	T	Yes	1.00	**Hematocrit**	Astle W	27863252	European	2016	-0.0245	0.0039	3.28E-10	173480	0	173480	-
	rs714277	chr12:2514270	C	T	rs758117	chr12:2513309	C	T	Yes	1.00	**Red blood cell count**	Astle W	27863252	European	2016	-0.0243	0.0039	6.17E-10	173480	0	173480	-
	rs714277	chr12:2514270	C	T	rs758117	chr12:2513309	C	T	Yes	1.00	**Schizophrenia**	Li Z	28991256	Mixed	2017	0.0608	0.0108	2.00E-08	-	-	-	log OR
	rs714277	chr12:2514270	C	T	rs758117	chr12:2513309	C	T	Yes	1.00	**Schizophrenia**	PGC	25056061	Mixed	2014	0.0686	0.0118	6.46E-09	82315	35476	46839	log OR
	rs714277	chr12:2514270	C	T	rs10491964	chr12:2500431	G	A	Yes	0.92	**Hematocrit**	Astle W	27863252	European	2016	-0.0259	0.0040	7.19E-11	173480	0	173480	-
	rs714277	chr12:2514270	C	T	rs10491964	chr12:2500431	G	A	Yes	0.92	**Hemoglobin concentration**	Astle W	27863252	European	2016	-0.0223	0.0040	2.21E-08	173480	0	173480	-
	rs714277	chr12:2514270	C	T	rs10491964	chr12:2500431	G	A	Yes	0.92	**Red blood cell count**	Astle W	27863252	European	2016	-0.0250	0.0040	3.79E-10	173480	0	173480	-
	rs714277	chr12:2514270	C	T	rs10491964	chr12:2500431	G	A	Yes	0.92	**Schizophrenia**	PGC	25056061	Mixed	2014	0.0656	0.0118	2.79E-08	82315	35476	46839	log OR

Supplementary Table 10. Phenome-wide association study (PheWAS) results for the angiotensin-converting-enzyme inhibitor (ACEI) instrument single-nucleotide polymorphism (rs4291).

Phecode	Trait	Category	OR	Low 95% CI	Upp 95% CI	P value	Total sample size	Cases	Controls	FDR
401.1	Essential hypertension	Circulatory System	0.96	0.95	0.97	3.76E-11	328000	79235	248765	TRUE
401	Hypertension	Circulatory System	1.04	0.95	0.97	4.62E-11	328256	79491	248765	TRUE
459.9	Circulatory disease NEC	Circulatory System	1.02	0.97	0.99	6.96E-06	327945	133749	194196	TRUE
697	Sarcoidosis	Dermatologic	1.21	0.73	0.93	1.78E-03	322326	560	321766	FALSE
250.7	Diabetic retinopathy	Endocrine/Metabolic	1.13	0.82	0.96	2.02E-03	317249	1380	315869	FALSE
250.2	Type 2 diabetes	Endocrine/Metabolic	1.03	0.95	0.99	2.59E-03	326620	19113	307507	FALSE
90	Sexually transmitted infections (not HIV or hepatitis)	Infectious Diseases	1.28	0.66	0.92	3.06E-03	328256	298	327958	FALSE
250.23	Type 2 diabetes with ophthalmic manifestations	Endocrine/Metabolic	1.12	0.82	0.96	3.08E-03	308851	1344	307507	FALSE
250.22	Type 2 diabetes with renal manifestations	Endocrine/Metabolic	1.32	0.62	0.92	4.77E-03	307715	208	307507	FALSE
136	Other infectious and parasitic diseases	Infectious Diseases	1.22	0.72	0.94	0.01	327999	428	327571	FALSE
250	Diabetes mellitus	Endocrine/Metabolic	1.03	0.95	0.99	0.01	327747	20240	307507	FALSE
585.31	Renal dialysis	Genitourinary	0.83	1.05	1.36	0.01	314620	524	314096	FALSE
153.3	Malignant neoplasm of rectum, rectosigmoid junction, and anus	Neoplasms	1.09	0.86	0.98	0.01	303414	2117	301297	FALSE
604	Disorders of penis	Genitourinary	1.16	0.78	0.96	0.01	308658	735	307923	FALSE
418.1	Precordial pain	Circulatory System	0.94	1.02	1.12	0.01	299523	3686	295837	FALSE
276.12	Hyposmolality and/or hyponatremia	Endocrine/Metabolic	0.91	1.02	1.17	0.01	322513	1852	320661	FALSE
361	Retinal detachments and defects	Sense Organs	0.92	1.02	1.16	0.01	319028	2229	316799	FALSE
250.24	Type 2 diabetes with neurological manifestations	Endocrine/Metabolic	1.16	0.77	0.96	0.01	308119	612	307507	FALSE
357	Inflammatory and toxic neuropathy	Neurological	1.10	0.84	0.98	0.01	327392	1423	325969	FALSE
647.1	Infections of genitourinary tract during pregnancy	Pregnancy Complications	0.79	1.05	1.51	0.01	328145	284	327861	FALSE
724.1	Disorders of sacrum	Musculoskeletal	0.79	1.05	1.51	0.01	311242	281	310961	FALSE
724.2	Disorders of coccyx	Musculoskeletal	0.80	1.05	1.50	0.01	311243	282	310961	FALSE
580.2	Nephrotic syndrome without mention of glomerulonephritis	Genitourinary	1.17	0.75	0.97	0.01	314592	496	314096	FALSE
916	Contusion	Injuries & Poisonings	0.91	1.02	1.19	0.01	328257	1478	326779	FALSE
428.1	Congestive heart failure (CHF) NOS	Circulatory System	1.08	0.87	0.98	0.01	324103	2053	322050	FALSE
618	Genital prolapse	Genitourinary	1.15	0.77	0.97	0.01	316879	620	316259	FALSE
740.2	Osteoarthrosis, generalized	Musculoskeletal	1.15	0.77	0.97	0.02	306931	589	306342	FALSE
379.2	Disorders of vitreous body	Sense Organs	0.91	1.02	1.19	0.02	289616	1407	288209	FALSE
642	Hypertension complicating pregnancy, childbirth, and the puerperium	Pregnancy Complications	1.12	0.82	0.98	0.02	328056	989	327067	FALSE
293.1	Swelling, mass, or lump in head and neck [Space-occupying lesion, intracranial NOS]	Mental Disorders	0.89	1.02	1.24	0.02	326061	925	325136	FALSE
427.8	Sinoatrial node dysfunction (Bradycardia)	Circulatory System	0.84	1.03	1.37	0.02	299957	419	299538	FALSE
791	Gangrene	Symptoms	1.15	0.77	0.98	0.02	328257	579	327678	FALSE
610.2	Fibroadenosis of breast	Genitourinary	1.20	0.71	0.98	0.02	321206	316	320890	FALSE
227.3	Benign neoplasm of pituitary gland and craniopharyngeal duct (pouch)	Neoplasms	0.83	1.03	1.42	0.02	326987	328	326659	FALSE
70.3	Viral hepatitis C	Infectious Diseases	1.19	0.72	0.98	0.02	322566	343	322223	FALSE
783	Fever of unknown origin	Symptoms	0.95	1.01	1.10	0.03	328257	4111	324146	FALSE

250.6	Polyneuropathy in diabetes	Endocrine/Metabolic	1.18	0.73	0.98	0.03	307888	381	307507	FALSE
561	Symptoms involving digestive system	Digestive	0.97	1.00	1.05	0.03	272958	14545	258413	FALSE
187.1	Malignant neoplasm of unspecified male genital organ	Neoplasms	1.04	0.93	1.00	0.03	327716	8481	319235	FALSE
291.8	Alteration of consciousness	Mental Disorders	0.86	1.01	1.35	0.03	321921	434	321487	FALSE
250.1	Type 1 diabetes	Endocrine/Metabolic	1.06	0.89	1.00	0.03	310206	2699	307507	FALSE
626.8	Infertility, female	Genitourinary	1.09	0.85	0.99	0.03	297655	1407	296248	FALSE
496.21	Obstructive chronic bronchitis	Respiratory	1.06	0.89	1.00	0.04	296938	2729	294209	FALSE
360.2	Progressive myopia	Sense Organs	0.82	1.01	1.47	0.04	317049	250	316799	FALSE
735.23	Hallux rigidus	Musculoskeletal	0.92	1.00	1.17	0.04	318260	1556	316704	FALSE
185	Cancer of prostate	Neoplasms	1.03	0.94	1.00	0.04	315873	8463	307410	FALSE
618.2	Uterine/Uterovaginal prolapse	Genitourinary	1.04	0.92	1.00	0.04	321730	5471	316259	FALSE
701	Other hypertrophic and atrophic conditions of skin	Dermatologic	0.93	1.00	1.15	0.04	324908	1827	323081	FALSE
714.1	Rheumatoid arthritis	Musculoskeletal	1.06	0.89	1.00	0.04	319577	2307	317270	FALSE
519.9	Symptoms involving respiratory system and other chest symptoms	Respiratory	0.84	1.00	1.41	0.04	265772	308	265464	FALSE
272.11	Hypercholesterolemia	Endocrine/Metabolic	1.02	0.97	1.00	0.04	325516	34002	291514	FALSE
528.11	Stomatitis and mucositis (ulcerative)	Digestive	0.86	1.00	1.34	0.05	322962	411	322551	FALSE
253.2	Pituitary hypofunction	Endocrine/Metabolic	0.84	1.00	1.43	0.05	324843	281	324562	FALSE
721.8	Other allied disorders of spine	Musculoskeletal	0.95	1.00	1.11	0.05	314188	3227	310961	FALSE
290.11	Alzheimer's disease	Mental Disorders	0.86	1.00	1.35	0.05	321889	402	321487	FALSE
351	Other peripheral nerve disorders	Neurological	1.03	0.95	1.00	0.05	325920	12892	313028	FALSE
720	Spinal stenosis	Musculoskeletal	0.89	1.00	1.25	0.05	311653	692	310961	FALSE
386.9	Dizziness and giddiness (Light-headedness and vertigo)	Sense Organs	0.96	1.00	1.09	0.05	326405	4739	321666	FALSE
323	Encephalitis	Neurological	0.91	1.00	1.22	0.05	328016	861	327155	FALSE
300.13	Phobia	Mental Disorders	0.88	1.00	1.29	0.05	283429	514	282915	FALSE
149	Cancer of larynx, pharynx, nasal cavities	Neoplasms	0.91	1.00	1.21	0.05	327003	945	326058	FALSE
669	Complications of labor and delivery NEC	Pregnancy Complications	1.04	0.93	1.00	0.05	328257	9534	318723	FALSE
272.1	Hyperlipidemia	Endocrine/Metabolic	0.96	1.00	1.08	0.05	296745	5231	291514	FALSE
528.7	Sialolithiasis	Digestive	0.85	1.00	1.39	0.05	322864	313	322551	FALSE
362.4	Retinal vascular changes and abnomalities	Sense Organs	0.91	1.00	1.22	0.05	316750	881	315869	FALSE
225.1	Benign neoplasm of brain, cranial nerves, meninges	Neoplasms	0.90	1.00	1.22	0.05	327284	820	326464	FALSE
269	Proteinuria	Endocrine/Metabolic	1.16	0.74	1.00	0.06	327867	355	327512	FALSE
180.1	Cervical cancer	Neoplasms	1.04	0.92	1.00	0.06	302154	4554	297600	FALSE
634	Miscarriage; stillbirth	Pregnancy Complications	1.05	0.91	1.00	0.06	324551	4569	319982	FALSE
187.2	Malignant neoplasm of testis	Neoplasms	1.04	0.92	1.00	0.06	323807	4572	319235	FALSE
280.2	Iron deficiency anemia secondary to blood loss (chronic)	Hematopoietic	1.13	0.77	1.01	0.06	309393	476	308917	FALSE
348.2	Cerebral edema and compression of brain	Neurological	1.18	0.71	1.01	0.07	286429	260	286169	FALSE
426.31	Right bundle branch block	Circulatory System	1.07	0.87	1.00	0.07	301111	1573	299538	FALSE
426.21	First degree AV block	Circulatory System	1.09	0.84	1.01	0.07	300543	1005	299538	FALSE

289.3	Personal history of diseases of blood and blood-forming organs	Hematopoietic	1.17	0.73	1.01	0.07	320632	297	320335	FALSE
394	Rheumatic disease of the heart valves	Circulatory System	1.09	0.84	1.01	0.07	322488	943	321545	FALSE
598	Abnormal findings on examination of urine	Genitourinary	1.05	0.91	1.00	0.07	328257	3386	324871	FALSE
472	Chronic pharyngitis and nasopharyngitis	Respiratory	0.92	0.99	1.20	0.07	309914	947	308967	FALSE
562.1	Diverticulosis	Digestive	1.02	0.97	1.00	0.07	286298	27885	258413	FALSE
514	Abnormal findings examination of lungs	Respiratory	1.05	0.90	1.01	0.08	328229	2577	325652	FALSE
655	Known or suspected fetal abnormality affecting management of mother	Pregnancy Complications	1.04	0.92	1.00	0.08	328257	4575	323682	FALSE
318	Tobacco use disorder	Mental Disorders	0.98	1.00	1.04	0.08	318189	20503	297686	FALSE
627.3	Postmenopausal atrophic vaginitis	Genitourinary	0.92	0.99	1.18	0.08	297376	1128	296248	FALSE
702.2	Seborrheic keratosis	Dermatologic	0.95	0.99	1.10	0.08	325786	3169	322617	FALSE
420.3	Endocarditis	Circulatory System	1.10	0.81	1.01	0.08	325685	685	325000	FALSE
215	Other benign neoplasm of connective and other soft tissue	Neoplasms	1.08	0.85	1.01	0.08	321821	1128	320693	FALSE
275.3	Disorders of magnesium metabolism	Endocrine/Metabolic	0.87	0.98	1.33	0.08	326427	375	326052	FALSE
454.1	Varicose veins of lower extremity	Circulatory System	0.98	1.00	1.05	0.08	299292	11562	287730	FALSE
189.2	Cancer of bladder	Neoplasms	1.09	0.83	1.01	0.08	324815	836	323979	FALSE
575.1	Cholangitis	Digestive	0.89	0.98	1.28	0.09	310837	497	310340	FALSE
512.9	Other dyspnea	Respiratory	1.08	0.84	1.01	0.09	315228	943	314285	FALSE
80	Postoperative infection	Infectious Diseases	1.04	0.92	1.01	0.09	326118	4622	321496	FALSE
272.9	Unspecified disorder of lipoid metabolism	Endocrine/Metabolic	1.18	0.70	1.02	0.09	291738	224	291514	FALSE
352.1	Trigeminal nerve disorders [CN5]	Neurological	1.12	0.78	1.02	0.09	313490	462	313028	FALSE
442.11	Abdominal aortic aneurysm	Circulatory System	1.09	0.84	1.01	0.09	320274	897	319377	FALSE
349	Other and unspecified disorders of the nervous system	Neurological	1.01	0.97	1.00	0.09	326872	40703	286169	FALSE
420.2	Pericarditis	Circulatory System	0.93	0.99	1.18	0.09	326087	1087	325000	FALSE
368.4	Visual field defects	Sense Organs	1.14	0.75	1.02	0.09	325232	333	324899	FALSE
550	Abdominal hernia	Digestive	0.99	1.00	1.03	0.10	328257	48451	279806	FALSE
151	Cancer of stomach	Neoplasms	0.90	0.98	1.25	0.10	312922	574	312348	FALSE
530.1	Esophagitis, GERD and related diseases	Digestive	0.97	1.00	1.06	0.10	297359	9539	287820	FALSE
380	Disorders of external ear	Sense Organs	1.06	0.87	1.01	0.10	328244	1475	326769	FALSE
260.6	Anorexia	Endocrine/Metabolic	0.92	0.98	1.20	0.10	326653	850	325803	FALSE
278.1	Obesity	Endocrine/Metabolic	0.98	1.00	1.05	0.10	328127	11143	316984	FALSE
304	Adjustment reaction	Mental Disorders	0.87	0.97	1.35	0.11	283238	323	282915	FALSE
458.1	Orthostatic hypotension	Circulatory System	0.94	0.99	1.16	0.11	195570	1374	194196	FALSE
771	Musculoskeletal symptoms referable to limbs	Symptoms	1.08	0.84	1.02	0.11	327422	891	326531	FALSE
433.12	Cerebral atherosclerosis	Circulatory System	1.16	0.72	1.03	0.11	318362	238	318124	FALSE
717	Polymyalgia Rheumatica	Musculoskeletal	1.07	0.86	1.02	0.11	328257	1147	327110	FALSE
737.3	Kyphoscoliosis and scoliosis	Musculoskeletal	1.13	0.76	1.03	0.11	317075	371	316704	FALSE
636.2	Early onset of delivery	Pregnancy Complications	1.10	0.81	1.02	0.11	320611	629	319982	FALSE
217.1	Nevus, non-neoplastic	Neoplasms	1.10	0.81	1.02	0.11	320363	597	319766	FALSE

941	Adverse reaction to serum or vaccine	Injuries & Poisonings	0.85	0.96	1.43	0.12	322145	222	321923	FALSE
345	Epilepsy, recurrent seizures, convulsions	Neurological	1.04	0.92	1.01	0.12	289630	3461	286169	FALSE
575.2	Obstruction of bile duct	Digestive	1.08	0.83	1.02	0.12	311152	812	310340	FALSE
722.9	Other and unspecified disc disorder	Musculoskeletal	0.96	0.99	1.09	0.12	314911	3950	310961	FALSE
751.21	Cystic kidney disease	Congenital Anomalies	0.90	0.97	1.28	0.12	326478	458	326020	FALSE
967	Adverse effects of sedatives or other central nervous system depressants and anesthetics	Injuries & Poisonings	1.10	0.81	1.02	0.12	300807	579	300228	FALSE
870.3	Other open wound of head and face	Injuries & Poisonings	0.96	0.99	1.10	0.12	322799	3051	319748	FALSE
394.7	Disease of tricuspid valve	Circulatory System	0.93	0.98	1.17	0.12	322631	1086	321545	FALSE
740.12	Osteoarthrosis, localized, secondary	Musculoskeletal	0.87	0.96	1.38	0.12	306606	264	306342	FALSE
480.5	Bronchopneumonia and lung abscess	Respiratory	1.12	0.77	1.03	0.12	318094	388	317706	FALSE
578.1	Hematemesis	Digestive	0.95	0.99	1.12	0.12	305445	2034	303411	FALSE
610	Benign mammary dysplasias	Genitourinary	0.85	0.96	1.44	0.13	321098	208	320890	FALSE
378.5	Paralytic strabismus	Sense Organs	0.87	0.96	1.36	0.13	288496	287	288209	FALSE
38.2	Gram positive septicemia	Infectious Diseases	0.90	0.97	1.26	0.13	313140	491	312649	FALSE
530.5	Disorders of esophageal motility	Digestive	0.91	0.97	1.23	0.13	288469	649	287820	FALSE
623	Hypertrophy of female genital organs	Genitourinary	0.94	0.98	1.16	0.13	316596	1272	315324	FALSE
327	Sleep disorders	Neurological	1.07	0.85	1.02	0.13	323771	1034	322737	FALSE
184.11	Malignant neoplasm of ovary	Neoplasms	1.03	0.93	1.01	0.13	310579	5009	305570	FALSE
348.8	Encephalopathy, not elsewhere classified	Neurological	1.17	0.70	1.05	0.13	286373	204	286169	FALSE
714	Rheumatoid arthritis and other inflammatory polyarthropathies	Musculoskeletal	1.02	0.95	1.01	0.13	325922	8652	317270	FALSE
158	Neoplasm of unspecified nature of digestive system	Neoplasms	1.07	0.86	1.02	0.14	313446	1098	312348	FALSE
350.1	Abnormal involuntary movements	Neurological	0.93	0.98	1.18	0.14	326388	927	325461	FALSE
496.2	Chronic bronchitis	Respiratory	1.13	0.75	1.04	0.14	294502	293	294209	FALSE
362	Other retinal disorders	Sense Organs	0.93	0.98	1.18	0.14	316842	973	315869	FALSE
614.33	Pelvic inflammatory disease, NOS	Genitourinary	1.03	0.94	1.01	0.14	324961	6145	318816	FALSE
292.4	Altered mental status	Mental Disorders	1.05	0.90	1.01	0.14	323759	2272	321487	FALSE
315	Develomental delays and disorders	Mental Disorders	0.91	0.97	1.24	0.14	327009	549	326460	FALSE
564.9	Personal history of diseases of digestive system	Digestive	0.98	0.99	1.04	0.14	274337	15924	258413	FALSE
560.2	Impaction of intestine	Digestive	0.87	0.96	1.37	0.14	258684	271	258413	FALSE
324	Other CNS infection and poliomyelitis	Neurological	0.88	0.96	1.35	0.14	327443	288	327155	FALSE
527.2	Sialoadenitis	Digestive	1.12	0.77	1.04	0.14	322925	374	322551	FALSE
742.9	Other derangement of joint	Musculoskeletal	1.11	0.78	1.04	0.14	311059	400	310659	FALSE
706	Diseases of sebaceous glands	Dermatologic	1.09	0.81	1.03	0.14	318906	595	318311	FALSE
573.5	Jaundice (not of newborn)	Digestive	0.93	0.98	1.18	0.14	319286	938	318348	FALSE
603.1	Hydrocele	Genitourinary	1.06	0.87	1.02	0.14	309325	1402	307923	FALSE
250.41	Impaired fasting glucose	Endocrine/Metabolic	1.14	0.74	1.05	0.14	307775	268	307507	FALSE
250.11	Type 1 diabetes with ketoacidosis	Endocrine/Metabolic	1.14	0.73	1.05	0.14	307762	255	307507	FALSE
870.4	Open wound of nose and sinus	Injuries & Poisonings	0.87	0.95	1.39	0.15	319986	238	319748	FALSE

574.3	Cholecystitis without cholelithiasis	Digestive	1.04	0.91	1.01	0.15	313158	2818	310340	FALSE
367.9	Blindness and low vision	Sense Organs	0.92	0.97	1.20	0.15	326527	756	325771	FALSE
749	Congenital anomalies of face and neck	Congenital Anomalies	1.14	0.74	1.05	0.15	328154	271	327883	FALSE
368.9	Subjective visual disturbances	Sense Organs	1.09	0.82	1.03	0.15	325532	633	324899	FALSE
276.11	Hyperosmolality and/or hypernatremia	Endocrine/Metabolic	0.87	0.95	1.38	0.15	320908	247	320661	FALSE
415.21	Primary pulmonary hypertension	Circulatory System	1.10	0.79	1.04	0.15	322030	466	321564	FALSE
790.6	Other abnormal blood chemistry	Symptoms	1.03	0.94	1.01	0.15	328046	6529	321517	FALSE
550.5	Ventral hernia	Digestive	0.96	0.99	1.09	0.15	283388	3582	279806	FALSE
184.2	Cancer of other female genital organs	Neoplasms	1.12	0.76	1.04	0.15	305893	323	305570	FALSE
759	Other and unspecified congenital anomalies	Congenital Anomalies	1.08	0.83	1.03	0.15	327266	679	326587	FALSE
575.9	Nonspecific abnormal findings on radiological and other examination of biliary tract	Digestive	0.89	0.96	1.30	0.15	310707	367	310340	FALSE
853	Complication of colostomy or enterostomy	Injuries & Poisonings	1.10	0.80	1.04	0.15	314495	514	313981	FALSE
807	Fracture of ribs	Injuries & Poisonings	0.87	0.95	1.41	0.15	323797	223	323574	FALSE
316	Substance addiction and disorders	Mental Disorders	1.11	0.78	1.04	0.16	298059	373	297686	FALSE
594.2	Calculus of lower urinary tract	Genitourinary	1.07	0.84	1.03	0.16	320778	830	319948	FALSE
614.53	Cyst or abscess of Bartholin's gland	Genitourinary	1.08	0.84	1.03	0.16	319619	803	318816	FALSE
614.51	Cervicitis and endocervicitis	Genitourinary	1.06	0.87	1.02	0.16	320065	1249	318816	FALSE
289.8	Polycythemia vera, secondary	Hematopoietic	0.88	0.95	1.34	0.16	320056	291	319765	FALSE
695.7	Prurigo and Lichen	Dermatologic	0.93	0.97	1.19	0.16	322558	792	321766	FALSE
379	Other disorders of eye	Sense Organs	0.99	1.00	1.03	0.16	328207	39998	288209	FALSE
389	Hearing loss	Sense Organs	0.96	0.98	1.09	0.17	321381	3170	318211	FALSE
871	Open wounds of extremities	Injuries & Poisonings	1.03	0.93	1.01	0.17	323890	4142	319748	FALSE
530.14	Reflux esophagitis	Digestive	0.98	0.99	1.05	0.17	298713	10893	287820	FALSE
174.1	Breast cancer [female]	Neoplasms	1.04	0.90	1.02	0.17	306728	2287	304441	FALSE
288	Diseases of white blood cells	Hematopoietic	0.92	0.97	1.22	0.17	320945	610	320335	FALSE
389.2	Conductive hearing loss	Sense Organs	0.91	0.96	1.27	0.17	318646	435	318211	FALSE
345.3	Convulsions	Neurological	1.04	0.90	1.02	0.17	288480	2311	286169	FALSE
949	Allergies, other	Injuries & Poisonings	1.10	0.79	1.04	0.17	322343	420	321923	FALSE
531	Peptic ulcer (excl. esophageal)	Digestive	0.89	0.95	1.34	0.17	320850	284	320566	FALSE
501	Pneumonitis due to inhalation of food or vomitus	Respiratory	1.09	0.82	1.04	0.17	317093	592	316501	FALSE
653	Problems associated with amniotic cavity and membranes	Pregnancy Complications	1.05	0.88	1.02	0.17	328136	1523	326613	FALSE
513.4	Hyperventilation	Respiratory	1.13	0.75	1.05	0.17	327921	280	327641	FALSE
229	Benign neoplasm of unspecified sites	Neoplasms	0.99	1.00	1.02	0.17	328257	46165	282092	FALSE
965.2	Antirheumatics causing adverse effects in therapeutic use	Injuries & Poisonings	0.91	0.96	1.25	0.18	300727	499	300228	FALSE
201	Hodgkin's disease	Neoplasms	1.13	0.75	1.06	0.18	323811	271	323540	FALSE
958	Certain early complications of trauma or procedure	Injuries & Poisonings	1.10	0.78	1.05	0.18	328135	381	327754	FALSE
508	Pulmonary collapse; interstitial and compensatory emphysema	Respiratory	0.96	0.98	1.11	0.18	318587	2086	316501	FALSE
751.11	Congenital anomalies of female genital organs	Congenital Anomalies	1.10	0.80	1.04	0.18	326462	442	326020	FALSE

202.24	Large cell lymphoma	Neoplasms	0.92	0.96	1.22	0.18	324129	589	323540	FALSE
411.2	Myocardial infarction	Circulatory System	1.02	0.96	1.01	0.18	307675	11969	295706	FALSE
275.1	Disorders of iron metabolism	Hematopoietic	1.08	0.83	1.04	0.19	326752	700	326052	FALSE
323.8	Encephalitis, non-infectious	Neurological	0.92	0.96	1.21	0.19	327788	633	327155	FALSE
395.2	Nonrheumatic aortic valve disorders	Circulatory System	1.13	0.74	1.06	0.19	321792	247	321545	FALSE
695.42	Systemic lupus erythematosus	Dermatologic	1.11	0.78	1.05	0.19	320801	363	320438	FALSE
210	Benign neoplasm of lip, oral cavity, and pharynx	Neoplasms	0.94	0.97	1.17	0.19	327051	993	326058	FALSE
681.6	Cellulitis and abscess of foot, toe	Dermatologic	0.97	0.99	1.07	0.19	322158	5734	316424	FALSE
726.2	Synoviopathy	Musculoskeletal	0.90	0.95	1.31	0.19	305302	331	304971	FALSE
715.2	Ankylosing spondylitis	Musculoskeletal	0.91	0.95	1.28	0.19	317654	384	317270	FALSE
601.8	Other inflammatory disorders of male genital organs	Genitourinary	1.11	0.76	1.06	0.19	307715	305	307410	FALSE
70	Viral hepatitis	Infectious Diseases	1.07	0.84	1.04	0.20	322945	722	322223	FALSE
474.2	Chronic tonsillitis and adenoiditis	Respiratory	0.95	0.97	1.15	0.20	310152	1185	308967	FALSE
738	Other acquired musculoskeletal deformity	Musculoskeletal	0.91	0.95	1.27	0.20	317121	417	316704	FALSE
624.9	stress incontinence, female	Genitourinary	1.02	0.94	1.01	0.20	324786	6100	318686	FALSE
681.5	Cellulitis and abscess of leg, except foot	Dermatologic	0.98	0.99	1.07	0.20	322201	5777	316424	FALSE
735.2	Acquired toe deformities	Musculoskeletal	1.04	0.90	1.02	0.21	318930	2226	316704	FALSE
300.1	Anxiety disorder	Mental Disorders	1.03	0.94	1.01	0.21	288385	5470	282915	FALSE
374.3	Ptosis of eyelid	Sense Organs	0.96	0.98	1.12	0.21	320301	1896	318405	FALSE
38.1	Gram negative septicemia	Infectious Diseases	0.94	0.96	1.18	0.21	313504	855	312649	FALSE
290.1	Dementias	Mental Disorders	0.93	0.96	1.21	0.22	322138	651	321487	FALSE
601.4	Balanoposthitis	Genitourinary	1.11	0.76	1.06	0.22	307706	296	307410	FALSE
737	Curvature of spine	Musculoskeletal	1.07	0.84	1.04	0.22	317447	743	316704	FALSE
381.9	Otorrhea	Sense Organs	0.90	0.94	1.33	0.22	324437	277	324160	FALSE
286.12	Congenital deficiency of other clotting factors (including factor VII)	Hematopoietic	1.11	0.77	1.06	0.22	325817	303	325514	FALSE
174.11	Malignant neoplasm of female breast	Neoplasms	1.02	0.96	1.01	0.22	316855	12414	304441	FALSE
433.1	Occlusion and stenosis of precerebral arteries	Circulatory System	0.95	0.97	1.16	0.22	319166	1042	318124	FALSE
578.8	Hemorrhage of rectum and anus	Digestive	0.98	0.99	1.04	0.22	317237	13826	303411	FALSE
281	Other deficiency anemia	Hematopoietic	1.02	0.95	1.01	0.22	317704	8787	308917	FALSE
458.9	Hypotension NOS	Circulatory System	0.97	0.98	1.08	0.22	197834	3638	194196	FALSE
504	Other alveolar and parietoalveolar pneumonopathy	Respiratory	1.11	0.77	1.06	0.22	316810	309	316501	FALSE
241.2	Nontoxic multinodular goiter	Endocrine/Metabolic	1.07	0.84	1.04	0.22	311060	714	310346	FALSE
741.4	Joint effusions	Musculoskeletal	1.11	0.76	1.07	0.22	310942	283	310659	FALSE
961.1	Poisoning/allergy of sulfonamides	Injuries & Poisonings	0.94	0.96	1.17	0.23	301118	890	300228	FALSE
277.4	Disorders of bilirubin excretion	Endocrine/Metabolic	0.91	0.94	1.28	0.23	283317	373	282944	FALSE
681.3	Cellulitis and abscess of arm/hand	Dermatologic	0.98	0.99	1.06	0.23	322194	5770	316424	FALSE
426.24	Atrioventricular block, complete	Circulatory System	1.08	0.83	1.05	0.23	300129	591	299538	FALSE
594	Urinary calculus	Genitourinary	1.02	0.95	1.01	0.23	326914	6966	319948	FALSE

198.1	Secondary malignancy of lymph nodes	Neoplasms	0.98	0.98	1.07	0.23	234832	5503	229329	FALSE
560.1	Paralytic ileus	Digestive	0.92	0.95	1.23	0.23	258933	520	258413	FALSE
317.1	Alcoholism	Mental Disorders	0.98	0.99	1.05	0.23	306383	8697	297686	FALSE
550.3	Femoral hernia	Digestive	0.93	0.96	1.20	0.23	280459	653	279806	FALSE
204.21	Myeloid leukemia, acute	Neoplasms	1.10	0.77	1.06	0.23	323859	319	323540	FALSE
722	Intervertebral disc disorders	Musculoskeletal	0.98	0.99	1.06	0.24	316924	5963	310961	FALSE
526.41	Temporomandibular joint disorder, unspecified	Digestive	1.12	0.74	1.08	0.24	311903	228	311675	FALSE
378.1	Strabismus (not specified as paralytic)	Sense Organs	0.95	0.96	1.16	0.24	289156	947	288209	FALSE
381.11	Suppurative and unspecified otitis media	Sense Organs	1.06	0.85	1.04	0.24	325010	850	324160	FALSE
681.7	Cellulitis and abscess of trunk	Dermatologic	1.07	0.83	1.05	0.24	317047	623	316424	FALSE
535.1	Acute gastritis	Digestive	0.95	0.97	1.14	0.25	297721	1193	296528	FALSE
619.3	Noninflammatory disorders of cervix	Genitourinary	0.97	0.98	1.09	0.25	281410	2845	278565	FALSE
597	Other disorders of urethra and urinary tract	Genitourinary	1.06	0.86	1.04	0.25	314527	874	313653	FALSE
602	Other disorders of prostate	Genitourinary	0.95	0.97	1.13	0.25	308782	1372	307410	FALSE
636	Early or threatened labor; hemorrhage in early pregnancy	Pregnancy Complications	1.05	0.88	1.03	0.25	321244	1262	319982	FALSE
384.4	Perforation of tympanic membrane	Sense Organs	1.05	0.87	1.04	0.25	325184	1024	324160	FALSE
604.1	Redundant prepuce and phimosis/BXO	Genitourinary	1.03	0.92	1.02	0.25	310733	2810	307923	FALSE
218	Benign neoplasm of uterus	Neoplasms	0.92	0.94	1.27	0.25	308185	388	307797	FALSE
740.9	Osteoarthrosis NOS	Musculoskeletal	1.03	0.93	1.02	0.25	310774	4432	306342	FALSE
374	Other disorders of eyelids	Sense Organs	0.97	0.98	1.09	0.25	321610	3205	318405	FALSE
613	Other nonmalignant breast conditions	Genitourinary	0.91	0.94	1.27	0.25	322803	368	322435	FALSE
624.2	Atrophy of female genital tract	Genitourinary	1.08	0.81	1.06	0.25	319128	442	318686	FALSE
371	Inflammation of the eye	Sense Organs	1.09	0.80	1.06	0.25	318813	408	318405	FALSE
705.8	Hyperhidrosis	Dermatologic	1.07	0.83	1.05	0.25	318913	602	318311	FALSE
470	Septal Deviations/Turbinate Hypertrophy	Respiratory	1.02	0.94	1.02	0.25	313788	4821	308967	FALSE
300	Anxiety, phobic and dissociative disorders	Mental Disorders	0.91	0.94	1.27	0.25	283278	363	282915	FALSE
447	Other disorders of arteries and arterioles	Circulatory System	0.93	0.95	1.22	0.25	319933	556	319377	FALSE
202	Cancer of other lymphoid, histiocytic tissue	Neoplasms	1.05	0.87	1.04	0.26	324678	1138	323540	FALSE
153.2	Colon cancer	Neoplasms	0.97	0.98	1.09	0.26	304419	3122	301297	FALSE
427.2	Atrial fibrillation and flutter	Circulatory System	0.99	0.99	1.04	0.26	314590	15052	299538	FALSE
626.13	Irregular menstrual cycle	Genitourinary	1.04	0.90	1.03	0.26	298206	1958	296248	FALSE
823	Fracture of tibia and fibula	Injuries & Poisonings	0.91	0.94	1.28	0.26	322379	342	322037	FALSE
599.2	Retention of urine	Genitourinary	1.02	0.95	1.02	0.26	227301	6857	220444	FALSE
723	Other disorders of cervical region	Musculoskeletal	0.92	0.94	1.26	0.26	311362	401	310961	FALSE
939	Atopic/contact dermatitis due to other or unspecified	Dermatologic	0.96	0.97	1.10	0.26	324077	2154	321923	FALSE
165	Cancer within the respiratory system	Neoplasms	0.97	0.98	1.09	0.26	328240	2954	325286	FALSE
626.1	Irregular menstrual cycle/bleeding	Genitourinary	1.03	0.93	1.02	0.26	299841	3593	296248	FALSE
530.7	Gastroesophageal laceration-hemorrhage syndrome	Digestive	0.91	0.93	1.29	0.26	288153	333	287820	FALSE

622.1	Polyp of corpus uteri	Genitourinary	0.98	0.99	1.05	0.27	323507	8183	315324	FALSE
564.1	Irritable Bowel Syndrome	Digestive	0.98	0.98	1.06	0.27	264074	5661	258413	FALSE
79	Viral infection	Infectious Diseases	1.03	0.93	1.02	0.27	326456	4233	322223	FALSE
281.11	Pernicious anemia	Hematopoietic	1.06	0.85	1.05	0.27	309667	750	308917	FALSE
338.1	Acute pain	Neurological	1.08	0.80	1.06	0.27	327863	420	327443	FALSE
724.9	Other unspecified back disorders	Musculoskeletal	0.99	0.99	1.04	0.28	328046	17085	310961	FALSE
331	Other cerebral degenerations	Neurological	0.90	0.92	1.34	0.28	286409	240	286169	FALSE
530.12	Ulcer of esophagus	Digestive	0.98	0.98	1.06	0.28	293168	5348	287820	FALSE
573.7	Abnormal results of function study of liver	Digestive	0.97	0.98	1.08	0.28	321913	3565	318348	FALSE
550.2	Diaphragmatic hernia	Digestive	0.99	0.99	1.03	0.28	307470	27664	279806	FALSE
579	Other symptoms involving abdomen and pelvis	Digestive	1.05	0.88	1.04	0.28	304597	1186	303411	FALSE
496	Chronic airway obstruction	Respiratory	0.98	0.98	1.05	0.28	301844	7635	294209	FALSE
619.5	Noninflammatory disorders of vulva and perineum	Genitourinary	1.04	0.89	1.04	0.28	279944	1379	278565	FALSE
523.32	Chronic periodontitis	Digestive	1.07	0.83	1.06	0.28	312265	590	311675	FALSE
340.1	Migrain with aura	Neurological	1.11	0.74	1.09	0.28	318184	217	317967	FALSE
165.1	Cancer of bronchus; lung	Neoplasms	0.97	0.97	1.10	0.29	327467	2181	325286	FALSE
191	Malignant and unknown neoplasms of brain and nervous system	Neoplasms	0.90	0.91	1.36	0.29	326679	215	326464	FALSE
189.21	Malignant neoplasm of bladder	Neoplasms	1.03	0.91	1.03	0.29	326167	2188	323979	FALSE
380.4	Impacted cerumen	Sense Organs	1.09	0.79	1.07	0.29	327123	354	326769	FALSE
371.1	Uveitis, noninfectious or NOS	Sense Organs	1.07	0.82	1.06	0.29	318903	498	318405	FALSE
750.21	Congenital anomalies of intestine	Congenital Anomalies	0.90	0.91	1.35	0.29	326247	227	326020	FALSE
429.2	Abnormal function study of cardiovascular system	Circulatory System	0.94	0.94	1.21	0.29	322594	544	322050	FALSE
302	Sexual and gender identity disorders	Mental Disorders	1.09	0.79	1.07	0.29	283255	340	282915	FALSE
441	Vascular insufficiency of intestine	Circulatory System	1.09	0.78	1.08	0.30	319674	297	319377	FALSE
204.12	Lymphoid leukemia, chronic	Neoplasms	0.93	0.94	1.22	0.30	324047	507	323540	FALSE
614.5	Inflammatory disease of cervix, vagina, and vulva	Genitourinary	1.09	0.79	1.08	0.30	319150	334	318816	FALSE
614.52	Vaginitis and vulvovaginitis	Genitourinary	0.93	0.94	1.24	0.30	319236	420	318816	FALSE
766	Neuralgia, neuritis, and radiculitis NOS	Symptoms	1.09	0.78	1.08	0.30	327004	304	326700	FALSE
350.3	Lack of coordination	Neurological	0.92	0.93	1.27	0.30	325821	360	325461	FALSE
597.1	Urethral stricture (not specified as infectious)	Genitourinary	0.97	0.98	1.08	0.30	317096	3443	313653	FALSE
396	Abnormal heart sounds	Circulatory System	1.05	0.87	1.04	0.30	322620	1075	321545	FALSE
965.3	Salicylates causing adverse effects in therapeutic use	Injuries & Poisonings	1.08	0.80	1.07	0.30	300629	401	300228	FALSE
289.4	Lymphadenitis	Hematopoietic	1.03	0.92	1.03	0.31	323050	2715	320335	FALSE
695.3	Rosacea	Dermatologic	1.09	0.78	1.08	0.31	322085	319	321766	FALSE
771.1	Swelling of limb	Symptoms	0.95	0.95	1.16	0.31	327373	842	326531	FALSE
752	Nervous system congenital anomalies	Congenital Anomalies	1.09	0.77	1.08	0.31	327980	288	327692	FALSE
599	Other symptoms/disorders or the urinary system	Genitourinary	1.01	0.98	1.01	0.31	324273	103829	220444	FALSE
364.5	Corneal dystrophy	Sense Organs	1.11	0.74	1.10	0.31	317015	216	316799	FALSE

747.1	Cardiac congenital anomalies	Congenital Anomalies	1.11	0.74	1.10	0.31	325582	211	325371	FALSE
751.1	Congenital anomalies of genital organs	Congenital Anomalies	1.06	0.85	1.05	0.31	326726	706	326020	FALSE
615	Endometriosis	Genitourinary	1.02	0.93	1.02	0.31	322905	4089	318816	FALSE
686.4	Pyogenic granuloma	Dermatologic	0.93	0.93	1.25	0.31	316804	380	316424	FALSE
603	Other disorders of testis	Genitourinary	1.05	0.87	1.05	0.32	308912	989	307923	FALSE
962.3	Hormones and synthetic substitutes causing adverse effects in therapeutic use	Injuries & Poisonings	1.08	0.80	1.08	0.32	300592	364	300228	FALSE
622.2	Mucous polyp of cervix	Genitourinary	0.98	0.98	1.08	0.32	318846	3522	315324	FALSE
800.1	Fracture of neck of femur	Injuries & Poisonings	0.91	0.91	1.33	0.32	323813	239	323574	FALSE
578.2	Blood in stool	Digestive	1.03	0.92	1.03	0.32	306160	2749	303411	FALSE
686	Other local infections of skin and subcutaneous tissue	Dermatologic	0.99	0.99	1.04	0.32	327427	11003	316424	FALSE
703.1	Ingrowing nail	Dermatologic	1.05	0.87	1.05	0.33	322456	1010	321446	FALSE
965.1	Opiates and related narcotics causing adverse effects in therapeutic use	Injuries & Poisonings	0.96	0.96	1.14	0.33	301389	1161	300228	FALSE
202.21	Nodular lymphoma	Neoplasms	1.08	0.80	1.08	0.33	323930	390	323540	FALSE
591	Urinary tract infection	Genitourinary	1.01	0.96	1.01	0.33	309728	12676	297052	FALSE
726	Peripheral enthesopathies and allied syndromes	Musculoskeletal	1.02	0.95	1.02	0.33	313739	8768	304971	FALSE
635.3	Placenta previa and abruptio placenta	Pregnancy Complications	1.04	0.89	1.04	0.34	321318	1336	319982	FALSE
536.8	Dyspepsia and other specified disorders of function of stomach	Digestive	1.09	0.76	1.10	0.34	296775	247	296528	FALSE
512.8	Cough	Respiratory	0.97	0.97	1.08	0.34	317249	2964	314285	FALSE
907	Injuries to the nervous system	Injuries & Poisonings	1.03	0.91	1.04	0.34	328257	1845	326412	FALSE
377	Disorders of optic nerve and visual pathways	Sense Organs	1.07	0.82	1.07	0.35	288645	436	288209	FALSE
530	Diseases of esophagus	Digestive	0.95	0.95	1.16	0.35	288621	801	287820	FALSE
202.2	Non-Hodgkins lymphoma	Neoplasms	1.02	0.93	1.03	0.35	327072	3532	323540	FALSE
574.1	Cholelithiasis	Digestive	0.99	0.98	1.05	0.35	319646	9306	310340	FALSE
755.1	Congenital deformities of feet	Congenital Anomalies	1.10	0.75	1.11	0.35	327548	220	327328	FALSE
520	Disorders of tooth development	Digestive	1.07	0.82	1.07	0.35	312145	470	311675	FALSE
870	Open wounds of head; neck; and trunk	Injuries & Poisonings	1.06	0.84	1.06	0.35	320344	596	319748	FALSE
556	Ulceration of the lower GI tract	Digestive	0.94	0.93	1.23	0.35	258853	440	258413	FALSE
78	Viral warts & HPV	Infectious Diseases	1.04	0.88	1.05	0.35	323235	1012	322223	FALSE
743.9	Osteopenia or other disorder of bone and cartilage	Musculoskeletal	1.02	0.93	1.02	0.35	328205	3989	324216	FALSE
605	Erectile dysfunction [ED]	Genitourinary	0.92	0.91	1.29	0.35	308214	291	307923	FALSE
411.41	Aneurysm and dissection of heart	Circulatory System	0.95	0.94	1.17	0.35	296427	721	295706	FALSE
41.1	Staphylococcus infections	Infectious Diseases	1.02	0.93	1.03	0.35	315849	3200	312649	FALSE
345.1	Epilepsy	Neurological	1.08	0.79	1.09	0.36	286500	331	286169	FALSE
960.2	Allergy/adverse effect of penicillin	Injuries & Poisonings	1.01	0.97	1.01	0.36	316911	16683	300228	FALSE
618.5	Prolapse of vaginal vault after hysterectomy	Genitourinary	1.06	0.83	1.07	0.36	316760	501	316259	FALSE
54	Herpes simplex	Infectious Diseases	1.09	0.75	1.11	0.36	322442	219	322223	FALSE
535.6	Duodenitis	Digestive	1.02	0.95	1.02	0.36	304422	7894	296528	FALSE
854	Complications of cardiac/vascular device, implant, and graft	Injuries & Poisonings	0.97	0.96	1.10	0.36	315824	1843	313981	FALSE

627	Menopausal and postmenopausal disorders	Genitourinary	0.95	0.95	1.16	0.36	297095	847	296248	FALSE
686.1	Carbuncle and furuncle	Dermatologic	0.97	0.97	1.09	0.36	318846	2422	316424	FALSE
618.6	Vaginal enterocele, congenital or acquired	Genitourinary	1.05	0.85	1.06	0.37	316926	667	316259	FALSE
250.42	Other abnormal glucose	Endocrine/Metabolic	1.06	0.82	1.08	0.37	307944	437	307507	FALSE
626.2	Dysmenorrhea	Genitourinary	0.97	0.96	1.11	0.37	297927	1679	296248	FALSE
592.13	Chronic interstitial cystitis	Genitourinary	0.92	0.91	1.31	0.37	297306	254	297052	FALSE
342	Hemiplegia	Neurological	0.97	0.96	1.11	0.37	287694	1525	286169	FALSE
524.3	Anomalies of tooth position/malocclusion	Digestive	1.08	0.78	1.10	0.37	311970	295	311675	FALSE
529	Diseases and other conditions of the tongue	Digestive	0.96	0.95	1.15	0.37	323502	951	322551	FALSE
608	Other disorders of male genital organs	Genitourinary	1.01	0.97	1.01	0.38	328015	20092	307923	FALSE
872	Traumatic amputation	Injuries & Poisonings	0.94	0.93	1.21	0.38	320230	482	319748	FALSE
198.2	Secondary malignancy of respiratory organs	Neoplasms	0.97	0.97	1.09	0.38	231606	2277	229329	FALSE
512	Other symptoms of respiratory system	Respiratory	1.02	0.94	1.02	0.38	319789	5504	314285	FALSE
117	Mycoses	Infectious Diseases	0.98	0.97	1.08	0.38	328252	2735	325517	FALSE
241.1	Nontoxic uninodular goiter	Endocrine/Metabolic	0.94	0.93	1.20	0.38	310857	511	310346	FALSE
333.1	Essential tremor	Neurological	1.09	0.76	1.11	0.38	286387	218	286169	FALSE
426.3	Bundle branch block	Circulatory System	1.08	0.78	1.10	0.38	299829	291	299538	FALSE
394.2	Mitral valve disease	Circulatory System	0.98	0.97	1.08	0.38	324620	3075	321545	FALSE
303.3	Psychogenic disorder	Mental Disorders	1.04	0.87	1.06	0.38	283756	841	282915	FALSE
565.1	Anal and rectal polyp	Digestive	1.01	0.95	1.02	0.38	254346	7669	246677	FALSE
384	Other disorders of tympanic membrane	Sense Organs	1.06	0.82	1.08	0.39	324590	430	324160	FALSE
540.1	Appendicitis	Digestive	0.96	0.94	1.16	0.39	325191	795	324396	FALSE
573.3	Hepatomegaly	Digestive	0.93	0.91	1.27	0.39	318658	310	318348	FALSE
530.9	Heartburn	Digestive	1.03	0.91	1.04	0.39	289928	2108	287820	FALSE
366	Cataract	Sense Organs	0.99	0.99	1.03	0.39	323842	16441	307401	FALSE
274.21	Chondrocalcinosis	Endocrine/Metabolic	0.93	0.91	1.28	0.39	326569	290	326279	FALSE
427.3	Other specified cardiac dysrhythmias	Circulatory System	0.98	0.97	1.08	0.39	302853	3315	299538	FALSE
701.2	Scar conditions and fibrosis of skin	Dermatologic	0.97	0.97	1.09	0.39	325488	2407	323081	FALSE
473.3	Paralysis/spasm of vocal cords or larynx	Respiratory	0.93	0.90	1.29	0.40	309234	267	308967	FALSE
624.1	Dystrophy of female genital tract	Genitourinary	1.08	0.77	1.11	0.40	318926	240	318686	FALSE
727.5	Rupture of synovium	Musculoskeletal	0.93	0.91	1.25	0.40	305315	344	304971	FALSE
614	Inflammatory diseases of female pelvic organs	Genitourinary	1.07	0.81	1.09	0.40	319190	374	318816	FALSE
727.4	Ganglion and cyst of synovium, tendon, and bursa	Musculoskeletal	0.98	0.97	1.08	0.40	307953	2982	304971	FALSE
579.2	Splenomegaly	Digestive	0.94	0.92	1.22	0.40	303854	443	303411	FALSE
596.5	Functional disorders of bladder	Genitourinary	1.03	0.90	1.04	0.40	315335	1682	313653	FALSE
212	Benign neoplasm of respiratory and intrathoracic organs	Neoplasms	1.07	0.80	1.09	0.40	328257	355	327902	FALSE
388	Other disorders of ear	Sense Organs	0.99	0.98	1.04	0.40	328097	9886	318211	FALSE
555.21	Ulcerative colitis (chronic)	Digestive	0.95	0.93	1.19	0.40	258984	571	258413	FALSE

989	Toxic effect of other substances, chiefly nonmedicinal as to source	Injuries & Poisonings	1.03	0.90	1.04	0.40	328153	1438	326715	FALSE
379.3	Aphakia and other disorders of lens	Sense Organs	0.99	0.99	1.03	0.40	308937	20728	288209	FALSE
41.2	Streptococcus infection	Infectious Diseases	1.03	0.90	1.04	0.40	314297	1648	312649	FALSE
535.8	Other specified gastritis	Digestive	0.99	0.98	1.05	0.41	304943	8415	296528	FALSE
369	Infection of the eye	Sense Organs	1.08	0.77	1.11	0.41	318659	254	318405	FALSE
571.5	Other chronic nonalcoholic liver disease	Digestive	0.97	0.96	1.11	0.41	320021	1673	318348	FALSE
286.7	Other and unspecified coagulation defects	Hematopoietic	0.94	0.92	1.23	0.41	325919	405	325514	FALSE
512.1	Wheezing	Respiratory	0.92	0.89	1.31	0.41	314516	231	314285	FALSE
497	Bronchitis	Respiratory	0.95	0.94	1.18	0.41	294851	642	294209	FALSE
389.1	Sensorineural hearing loss	Sense Organs	0.95	0.92	1.21	0.41	318675	464	318211	FALSE
736.2	Acquired deformities of finger	Musculoskeletal	0.93	0.90	1.30	0.41	316957	253	316704	FALSE
175	Acquired absence of breast	Neoplasms	1.02	0.92	1.03	0.41	305924	2516	303408	FALSE
287.3	Thrombocytopenia	Hematopoietic	0.97	0.95	1.12	0.42	326785	1271	325514	FALSE
395.1	Nonrheumatic mitral valve disorders	Circulatory System	0.98	0.97	1.08	0.42	324514	2969	321545	FALSE
426.23	Second degree AV block	Circulatory System	1.06	0.83	1.08	0.42	299999	461	299538	FALSE
367.1	Myopia	Sense Organs	0.97	0.95	1.12	0.42	327042	1271	325771	FALSE
145.2	Cancer of tongue	Neoplasms	0.94	0.91	1.26	0.42	326383	325	326058	FALSE
443.1	Raynaud's syndrome	Circulatory System	1.03	0.89	1.05	0.42	320542	1165	319377	FALSE
535	Gastritis and duodenitis	Digestive	0.99	0.99	1.03	0.43	314276	17748	296528	FALSE
414	Other forms of chronic heart disease	Circulatory System	0.97	0.96	1.10	0.43	297474	1768	295706	FALSE
536	Disorders of function of stomach	Digestive	1.07	0.78	1.11	0.43	296785	257	296528	FALSE
614.32	Chronic inflammatory pelvic disease	Genitourinary	0.94	0.92	1.22	0.43	319241	425	318816	FALSE
574	Cholelithiasis and cholecystitis	Digestive	1.06	0.82	1.09	0.43	310743	403	310340	FALSE
296	Mood disorders	Mental Disorders	1.01	0.96	1.02	0.43	295870	12955	282915	FALSE
594.8	Renal colic	Genitourinary	1.03	0.92	1.04	0.43	322079	2131	319948	FALSE
242	Thyrotoxicosis with or without goiter	Endocrine/Metabolic	1.03	0.90	1.05	0.44	311811	1465	310346	FALSE
352.2	Facial nerve disorders [CN7]	Neurological	1.04	0.87	1.06	0.44	313928	900	313028	FALSE
495.2	Asthma with exacerbation	Respiratory	0.93	0.90	1.29	0.44	294470	261	294209	FALSE
256.4	Polycystic ovaries	Endocrine/Metabolic	0.92	0.89	1.32	0.44	324781	219	324562	FALSE
555.2	Ulcerative colitis	Digestive	0.98	0.97	1.07	0.44	261567	3154	258413	FALSE
495	Asthma	Respiratory	0.99	0.99	1.03	0.44	320988	26779	294209	FALSE
557.1	Celiac disease	Digestive	1.03	0.91	1.04	0.44	260307	1894	258413	FALSE
204.4	Multiple myeloma	Neoplasms	1.05	0.85	1.08	0.44	324114	574	323540	FALSE
448	Disease of capillaries	Circulatory System	1.01	0.95	1.02	0.44	326858	7481	319377	FALSE
798.1	Chronic fatigue syndrome	Symptoms	1.05	0.85	1.07	0.44	325352	606	324746	FALSE
427	Cardiac dysrhythmias	Circulatory System	0.94	0.91	1.25	0.44	299861	323	299538	FALSE
782.3	Edema	Symptoms	1.03	0.91	1.04	0.44	328084	1715	326369	FALSE
364	Corneal opacity and other disorders of cornea	Sense Organs	1.08	0.77	1.12	0.45	317026	227	316799	FALSE

613.8	Other specified disorders of breast	Genitourinary	1.06	0.81	1.10	0.45	322790	355	322435	FALSE
218.1	Uterine leiomyoma	Neoplasms	0.99	0.98	1.04	0.45	318363	10566	307797	FALSE
716.2	Unspecified monoarthritis	Musculoskeletal	1.01	0.97	1.01	0.45	289814	15901	273913	FALSE
442.8	Aneurysm of other specified artery	Circulatory System	0.93	0.88	1.32	0.45	319587	210	319377	FALSE
507	Pleurisy; pleural effusion	Respiratory	1.01	0.95	1.02	0.45	323108	6607	316501	FALSE
296.2	Depression	Mental Disorders	1.01	0.96	1.02	0.45	295060	12145	282915	FALSE
574.11	Cholelithiasis with acute cholecystitis	Digestive	1.03	0.90	1.05	0.45	311853	1513	310340	FALSE
189.11	Malignant neoplasm of kidney, except pelvis	Neoplasms	0.97	0.95	1.13	0.45	325014	1035	323979	FALSE
611.3	Lump or mass in breast	Genitourinary	0.97	0.96	1.11	0.45	322478	1588	320890	FALSE
476	Allergic rhinitis	Respiratory	0.97	0.95	1.13	0.45	310042	1075	308967	FALSE
198.5	Secondary malignancy of brain/spine	Neoplasms	0.96	0.94	1.15	0.45	230130	801	229329	FALSE
726.1	Enthesopathy	Musculoskeletal	1.01	0.95	1.02	0.46	311674	6703	304971	FALSE
180.3	Cervical intraepithelial neoplasia [CIN] [Cervical dysplasia]	Neoplasms	1.02	0.92	1.04	0.46	299753	2153	297600	FALSE
274.1	Gout	Endocrine/Metabolic	1.03	0.91	1.04	0.46	327947	1668	326279	FALSE
801.1	Fracture of foot	Injuries & Poisonings	0.95	0.92	1.22	0.46	323992	418	323574	FALSE
571.81	Portal hypertension	Digestive	1.05	0.85	1.08	0.46	318917	569	318348	FALSE
378.2	Nystagmus and other irregular eye movements	Sense Organs	0.93	0.88	1.31	0.46	288424	215	288209	FALSE
587	Kidney replaced by transpant	Genitourinary	0.95	0.91	1.22	0.46	314494	398	314096	FALSE
521.1	Dental caries	Digestive	1.02	0.93	1.03	0.46	314929	3254	311675	FALSE
798	Malaise and fatigue	Symptoms	1.02	0.93	1.03	0.46	327712	2966	324746	FALSE
331.9	Cerebral degeneration, unspecified	Neurological	1.05	0.82	1.09	0.47	286586	417	286169	FALSE
433.21	Cerebral artery occlusion, with cerebral infarction	Circulatory System	0.97	0.95	1.11	0.47	319658	1534	318124	FALSE
840	Sprains and strains	Injuries & Poisonings	1.05	0.84	1.09	0.47	328218	481	327737	FALSE
375	Disorders of lacrimal system	Sense Organs	0.97	0.96	1.10	0.47	289869	1660	288209	FALSE
443.9	Peripheral vascular disease, unspecified	Circulatory System	0.98	0.96	1.08	0.47	321986	2609	319377	FALSE
216	Benign neoplasm of skin	Neoplasms	0.99	0.98	1.05	0.47	327631	7865	319766	FALSE
614.1	Pelvic peritoneal adhesions, female (postoperative) (postinfection)	Genitourinary	1.02	0.92	1.04	0.47	321387	2571	318816	FALSE
619.4	Noninflammatory disorders of vagina	Genitourinary	1.03	0.91	1.04	0.48	280345	1780	278565	FALSE
800	Fracture of lower limb	Injuries & Poisonings	1.04	0.86	1.07	0.48	324273	699	323574	FALSE
149.1	Cancer of oropharynx	Neoplasms	0.94	0.89	1.28	0.48	326314	256	326058	FALSE
540	Appendiceal conditions	Digestive	0.98	0.97	1.07	0.48	328257	3861	324396	FALSE
198.4	Secondary malignant neoplasm of liver	Neoplasms	0.98	0.96	1.08	0.48	232026	2697	229329	FALSE
425.1	Primary/intrinsic cardiomyopathies	Circulatory System	1.03	0.89	1.06	0.48	326053	1053	325000	FALSE
625.1	Dyspareunia	Genitourinary	1.03	0.89	1.06	0.48	319841	1155	318686	FALSE
600	Hyperplasia of prostate	Genitourinary	1.01	0.96	1.02	0.48	318982	11572	307410	FALSE
149.4	Cancer of larynx	Neoplasms	0.94	0.89	1.27	0.48	326324	266	326058	FALSE
426.9	Cardiac pacemaker/device in situ	Circulatory System	1.07	0.78	1.13	0.49	299775	237	299538	FALSE
627.4	Premenopausal menorrhagia	Genitourinary	1.06	0.81	1.11	0.49	296580	332	296248	FALSE

729.1	Rheumatism, unspecified and fibrositis	Musculoskeletal	1.05	0.82	1.10	0.49	305358	387	304971	FALSE
277	Other disorders of metabolism	Endocrine/Metabolic	1.01	0.98	1.01	0.49	328247	45303	282944	FALSE
306	Other mental disorder	Mental Disorders	0.99	0.99	1.02	0.49	312320	29405	282915	FALSE
275.5	Disorders of calcium/phosphorus metabolism	Endocrine/Metabolic	0.97	0.94	1.12	0.49	327161	1109	326052	FALSE
368.2	Diplopia and disorders of binocular vision	Sense Organs	0.96	0.93	1.15	0.49	325652	753	324899	FALSE
681	Superficial cellulitis and abscess	Dermatologic	1.04	0.87	1.07	0.50	317152	728	316424	FALSE
850	Hemorrhage or hematoma complicating a procedure	Injuries & Poisonings	0.99	0.97	1.05	0.50	319345	5364	313981	FALSE
433.31	Transient cerebral ischemia	Circulatory System	1.02	0.92	1.04	0.50	320298	2174	318124	FALSE
401.22	Hypertensive chronic kidney disease	Circulatory System	0.98	0.95	1.10	0.50	250360	1595	248765	FALSE
614.4	Inflammatory diseases of uterus, except cervix	Genitourinary	1.06	0.80	1.11	0.50	319124	308	318816	FALSE
750	Digestive congenital anomalies	Congenital Anomalies	0.96	0.93	1.16	0.50	326722	702	326020	FALSE
618.1	Prolapse of vaginal walls	Genitourinary	0.99	0.98	1.05	0.50	323743	7484	316259	FALSE
334.2	Anterior horn cell disease	Neurological	1.07	0.77	1.13	0.50	286393	224	286169	FALSE
443.7	Peripheral angiopathy in diseases classified elsewhere	Circulatory System	1.05	0.83	1.10	0.51	319792	415	319377	FALSE
242.1	Graves' disease	Endocrine/Metabolic	0.96	0.91	1.20	0.51	310806	460	310346	FALSE
990	Effects radiation NOS	Injuries & Poisonings	1.02	0.93	1.03	0.51	325650	3244	322406	FALSE
560.3	Peritoneal or intestinal adhesions	Digestive	0.97	0.94	1.14	0.51	259274	861	258413	FALSE
590	Pyelonephritis	Genitourinary	1.02	0.94	1.03	0.51	300977	3925	297052	FALSE
281.13	Folate-deficiency anemia	Hematopoietic	1.07	0.76	1.14	0.51	309118	201	308917	FALSE
565	Anal and rectal conditions	Digestive	0.99	0.98	1.04	0.51	255338	8661	246677	FALSE
371.3	Inflammation of eyelids	Sense Organs	0.98	0.96	1.08	0.51	320803	2398	318405	FALSE
687.1	Rash and other nonspecific skin eruption	Dermatologic	0.98	0.96	1.09	0.52	325049	2218	322831	FALSE
550.4	Umbilical hernia	Digestive	0.98	0.97	1.06	0.52	283710	3904	279806	FALSE
575.7	Other disorders of gallbladder	Digestive	1.03	0.90	1.05	0.52	311736	1396	310340	FALSE
389.4	Tinnitus	Sense Organs	1.04	0.85	1.09	0.52	318752	541	318211	FALSE
801	Fracture of ankle and foot	Injuries & Poisonings	0.94	0.88	1.28	0.52	323825	251	323574	FALSE
701.4	Keloid scar	Dermatologic	0.94	0.88	1.29	0.52	323309	228	323081	FALSE
681.2	Cellulitis and abscess of face/neck	Dermatologic	1.04	0.85	1.09	0.52	316953	529	316424	FALSE
333.4	Torsion dystonia	Neurological	0.94	0.89	1.27	0.52	286434	265	286169	FALSE
474	Acute and chronic tonsillitis	Respiratory	0.96	0.92	1.17	0.52	309571	604	308967	FALSE
735	Acquired foot deformities	Musculoskeletal	0.95	0.89	1.25	0.53	317003	299	316704	FALSE
577.3	Cyst and pseudocyst of pancreas	Digestive	1.05	0.82	1.11	0.53	326312	375	325937	FALSE
38	Septicemia	Infectious Diseases	1.02	0.93	1.04	0.53	315694	3045	312649	FALSE
381.1	Otitis media	Sense Organs	0.97	0.94	1.12	0.53	325313	1153	324160	FALSE
579.8	Nonspecific abnormal findings in stool contents	Digestive	0.98	0.95	1.10	0.53	305151	1740	303411	FALSE
531.4	Peptic ulcer, site unspecified	Digestive	1.04	0.84	1.10	0.53	321015	449	320566	FALSE
738.4	Acquired spondylolisthesis	Musculoskeletal	0.94	0.88	1.27	0.53	316959	255	316704	FALSE
386	Vertiginous syndromes and other disorders of vestibular system	Sense Organs	0.98	0.96	1.09	0.53	323778	2112	321666	FALSE

803	Fracture of upper limb	Injuries & Poisonings	1.04	0.83	1.10	0.53	324007	433	323574	FALSE
276.14	Hypopotassemia	Endocrine/Metabolic	0.98	0.95	1.10	0.54	322132	1471	320661	FALSE
599.4	Urinary incontinence	Genitourinary	1.01	0.96	1.02	0.54	229440	8996	220444	FALSE
745	Pain in joint	Musculoskeletal	1.02	0.92	1.05	0.54	328257	1940	326317	FALSE
427.12	Paroxysmal ventricular tachycardia	Circulatory System	1.03	0.89	1.07	0.54	300507	969	299538	FALSE
333	Extrapyramidal disease and abnormal movement disorders	Neurological	0.98	0.96	1.09	0.54	288204	2035	286169	FALSE
585.3	Chronic renal failure [CKD]	Genitourinary	0.98	0.96	1.08	0.54	316681	2585	314096	FALSE
427.6	Premature beats	Circulatory System	1.04	0.84	1.10	0.54	299996	458	299538	FALSE
375.2	Epiphora	Sense Organs	1.03	0.88	1.07	0.54	289111	902	288209	FALSE
70.9	Hepatitis NOS	Infectious Diseases	1.04	0.84	1.10	0.55	322675	452	322223	FALSE
689	Disorder of skin and subcutaneous tissue NOS	Dermatologic	1.00	0.99	1.02	0.55	328257	42194	286063	FALSE
701.5	Abnormal granulation tissue	Dermatologic	1.04	0.84	1.10	0.55	323560	479	323081	FALSE
569	Other disorders of intestine	Digestive	1.00	0.98	1.01	0.55	326165	79488	246677	FALSE
429.3	Symptoms involving cardiovascular system	Circulatory System	0.94	0.87	1.30	0.55	322258	208	322050	FALSE
531.3	Duodenal ulcer	Digestive	0.98	0.96	1.07	0.55	323661	3095	320566	FALSE
512.7	Shortness of breath	Respiratory	0.99	0.97	1.05	0.55	320401	6116	314285	FALSE
150	Cancer of esophagus	Neoplasms	1.03	0.87	1.08	0.55	313075	727	312348	FALSE
374.1	Ectropion or entropion	Sense Organs	0.97	0.94	1.12	0.55	319497	1092	318405	FALSE
726.3	Bursitis	Musculoskeletal	1.04	0.85	1.09	0.55	305514	543	304971	FALSE
41	Bacterial infection NOS	Infectious Diseases	0.99	0.98	1.04	0.55	323401	10752	312649	FALSE
550.1	Inguinal hernia	Digestive	0.99	0.98	1.03	0.55	296191	16385	279806	FALSE
450	Noninfectious disorders of lymphatic channels	Circulatory System	0.97	0.93	1.15	0.55	328257	717	327540	FALSE
226	Benign neoplasm of thyroid glands	Neoplasms	0.95	0.88	1.26	0.55	326925	266	326659	FALSE
320	Meningitis	Neurological	0.96	0.91	1.20	0.55	327594	439	327155	FALSE
446.9	Arteritis NOS	Circulatory System	1.06	0.79	1.14	0.56	319622	245	319377	FALSE
594.3	Calculus of ureter	Genitourinary	1.02	0.93	1.04	0.56	322488	2540	319948	FALSE
208	Benign neoplasm of colon	Neoplasms	0.99	0.99	1.03	0.56	325454	20827	304627	FALSE
529.1	Glossitis	Digestive	0.95	0.89	1.24	0.56	322855	304	322551	FALSE
728.7	Fasciitis	Musculoskeletal	0.94	0.87	1.30	0.56	305184	213	304971	FALSE
317	Alcohol-related disorders	Mental Disorders	1.01	0.95	1.03	0.56	303546	5860	297686	FALSE
440	Atherosclerosis	Circulatory System	0.94	0.87	1.30	0.56	319581	204	319377	FALSE
426.4	Anomalous atrioventricular excitation	Circulatory System	0.95	0.88	1.28	0.56	299778	240	299538	FALSE
626.14	Irregular menstrual bleeding	Genitourinary	1.01	0.94	1.03	0.57	300194	3946	296248	FALSE
411.8	Other chronic ischemic heart disease, unspecified	Circulatory System	1.01	0.98	1.01	0.57	326986	31280	295706	FALSE
287.31	Primary thrombocytopenia	Hematopoietic	1.04	0.84	1.10	0.57	325942	428	325514	FALSE
348.7	Coma	Neurological	1.04	0.83	1.11	0.57	286548	379	286169	FALSE
592.12	Chronic cystitis	Genitourinary	0.97	0.93	1.13	0.57	297965	913	297052	FALSE
702.1	Actinic keratosis	Dermatologic	1.02	0.93	1.04	0.57	325281	2664	322617	FALSE

382	Otalgia	Sense Organs	0.95	0.89	1.23	0.58	324475	315	324160	FALSE
214	Lipoma	Neoplasms	1.02	0.92	1.05	0.58	322512	1819	320693	FALSE
830	Dislocation	Injuries & Poisonings	0.98	0.96	1.08	0.58	323944	2154	321790	FALSE
564	Functional digestive disorders	Digestive	0.97	0.94	1.13	0.58	259396	983	258413	FALSE
198.3	Secondary malignant neoplasm of digestive systems	Neoplasms	0.98	0.95	1.10	0.58	230894	1565	229329	FALSE
635.2	Antepartum hemorrhage, abruptio placentae, and placenta previa	Pregnancy Complications	1.03	0.88	1.07	0.58	320918	936	319982	FALSE
427.11	Paroxysmal supraventricular tachycardia	Circulatory System	1.02	0.93	1.04	0.58	301969	2431	299538	FALSE
687	Symptoms affecting skin	Dermatologic	0.95	0.87	1.29	0.58	323049	218	322831	FALSE
706.2	Sebaceous cyst	Dermatologic	1.01	0.96	1.02	0.59	327418	9107	318311	FALSE
365.11	Primary open angle glaucoma	Sense Organs	1.02	0.89	1.07	0.59	317855	1056	316799	FALSE
961	Poisoning by other anti-infectives	Injuries & Poisonings	0.96	0.90	1.19	0.59	300664	436	300228	FALSE
345.11	Generalized convulsive epilepsy	Neurological	0.96	0.91	1.19	0.59	286634	465	286169	FALSE
836	Traumatic arthropathy	Injuries & Poisonings	1.05	0.79	1.14	0.59	322033	243	321790	FALSE
276.6	Fluid overload	Endocrine/Metabolic	0.96	0.91	1.19	0.59	321134	473	320661	FALSE
736	Other acquired deformities of limbs	Musculoskeletal	1.05	0.81	1.13	0.59	317015	311	316704	FALSE
411.4	Coronary atherosclerosis	Circulatory System	1.00	0.98	1.01	0.59	327259	31553	295706	FALSE
531.1	Hemorrhage from gastrointestinal ulcer	Digestive	0.97	0.92	1.16	0.59	321221	655	320566	FALSE
227.2	Benign neoplasm of parathyroid gland	Neoplasms	0.96	0.90	1.21	0.59	327049	390	326659	FALSE
696.42	Psoriatic arthropathy	Dermatologic	1.03	0.87	1.08	0.59	314689	740	313949	FALSE
751.12	Congenital anomalies of male genital organs	Congenital Anomalies	0.95	0.87	1.28	0.60	326248	228	326020	FALSE
619.2	Disorders of uterus, NEC	Genitourinary	0.99	0.96	1.07	0.60	281956	3391	278565	FALSE
946	Anaphylactic shock NOS	Injuries & Poisonings	0.97	0.91	1.17	0.60	322467	544	321923	FALSE
751.22	Other specified congenital anomalies of kidney	Congenital Anomalies	1.04	0.82	1.12	0.60	326370	350	326020	FALSE
721.1	Spondylosis without myelopathy	Musculoskeletal	0.98	0.94	1.12	0.60	312031	1070	310961	FALSE
805	Fracture of vertebral column without mention of spinal cord injury	Injuries & Poisonings	0.96	0.89	1.22	0.60	323907	333	323574	FALSE
743.11	Osteoporosis NOS	Musculoskeletal	1.01	0.94	1.04	0.60	327252	3036	324216	FALSE
519.2	Respiratory complications	Respiratory	1.05	0.81	1.13	0.60	265760	296	265464	FALSE
586.2	Cyst of kidney, acquired	Genitourinary	0.98	0.94	1.11	0.60	315389	1293	314096	FALSE
458.2	Iatrogenic hypotension	Circulatory System	1.05	0.79	1.15	0.60	194434	238	194196	FALSE
559	Ileostomy status	Digestive	1.02	0.91	1.05	0.61	260086	1673	258413	FALSE
442.1	Aortic aneurysm	Circulatory System	0.97	0.92	1.16	0.61	319963	586	319377	FALSE
571.6	Primary biliary cirrhosis	Digestive	1.05	0.80	1.14	0.61	318606	258	318348	FALSE
728.71	Contracture of palmar fascia [Dupuytren's disease]	Musculoskeletal	0.98	0.96	1.08	0.61	307420	2449	304971	FALSE
306.9	Tension headache	Mental Disorders	0.96	0.88	1.23	0.61	283220	305	282915	FALSE
938	Dermatitis due to solar radiation	Injuries & Poisonings	1.02	0.93	1.04	0.61	324461	2538	321923	FALSE
245.21	Chronic lymphocytic thyroiditis	Endocrine/Metabolic	0.95	0.86	1.28	0.61	310565	219	310346	FALSE
441.1	Acute vascular insufficiency of intestine	Circulatory System	0.96	0.88	1.25	0.62	319648	271	319377	FALSE
804	Fracture of hand or wrist	Injuries & Poisonings	0.97	0.92	1.15	0.62	324249	675	323574	FALSE

411	Ischemic Heart Disease	Circulatory System	1.00	0.98	1.01	0.62	327049	31343	295706	FALSE
221	Benign neoplasm of other female genital organs	Neoplasms	1.05	0.79	1.15	0.62	295991	223	295768	FALSE
280.1	Iron deficiency anemias, unspecified or not due to blood loss	Hematopoietic	1.01	0.96	1.03	0.62	316419	7502	308917	FALSE
681.1	Cellulitis and abscess of fingers/toes	Dermatologic	0.97	0.91	1.16	0.62	317006	582	316424	FALSE
704	Diseases of hair and hair follicles	Dermatologic	0.99	0.97	1.05	0.62	326709	5263	321446	FALSE
386.1	Meniere's disease	Sense Organs	0.97	0.91	1.17	0.62	322230	564	321666	FALSE
519	Other diseases of respiratory system, not elsewhere classified	Respiratory	1.00	0.98	1.01	0.62	327632	62168	265464	FALSE
172.2	Other non-epithelial cancer of skin	Neoplasms	0.99	0.98	1.04	0.62	325479	11242	314237	FALSE
471	Nasal polyps	Respiratory	0.99	0.96	1.06	0.63	312359	3392	308967	FALSE
509.1	Respiratory failure	Respiratory	1.02	0.92	1.05	0.63	318581	2080	316501	FALSE
523.31	Acute periodontitis	Digestive	1.03	0.87	1.08	0.63	312388	713	311675	FALSE
555.1	Regional enteritis	Digestive	1.02	0.92	1.05	0.63	260218	1805	258413	FALSE
612.2	Hypertrophy of breast (Gynecomastia)	Genitourinary	0.98	0.93	1.13	0.63	321749	859	320890	FALSE
574.12	Cholelithiasis with other cholecystitis	Digestive	1.01	0.95	1.03	0.63	315833	5493	310340	FALSE
599.9	Other abnormality of urination	Genitourinary	0.98	0.95	1.09	0.63	222388	1944	220444	FALSE
596	Other disorders of bladder	Genitourinary	1.01	0.96	1.03	0.63	321402	7749	313653	FALSE
385.5	Tympanosclerosis and middle ear disease related to otitis media	Sense Organs	0.95	0.87	1.27	0.63	324396	236	324160	FALSE
760	Back pain	Symptoms	1.01	0.95	1.03	0.63	328257	5923	322334	FALSE
200	Myeloproliferative disease	Neoplasms	1.03	0.87	1.09	0.63	324219	679	323540	FALSE
452	Other venous embolism and thrombosis	Circulatory System	0.97	0.91	1.17	0.64	288284	554	287730	FALSE
742.8	Articular cartilage disorder	Musculoskeletal	1.03	0.87	1.09	0.64	311314	655	310659	FALSE
440.9	Atherosclerosis of aorta	Circulatory System	1.05	0.78	1.17	0.64	319579	202	319377	FALSE
698	Pruritus and related conditions	Dermatologic	1.02	0.88	1.08	0.64	328257	799	327458	FALSE
312	Conduct disorders	Mental Disorders	0.98	0.94	1.11	0.64	327655	1195	326460	FALSE
262	Mineral deficiency NEC	Endocrine/Metabolic	0.96	0.87	1.26	0.64	326044	241	325803	FALSE
276.41	Acidosis	Endocrine/Metabolic	0.98	0.93	1.12	0.64	321717	1056	320661	FALSE
480.1	Bacterial pneumonia	Respiratory	0.98	0.93	1.12	0.64	318645	939	317706	FALSE
634.1	Missed abortion/Hydatidiform mole	Pregnancy Complications	0.98	0.94	1.11	0.64	321185	1203	319982	FALSE
331.1	Hydrocephalus	Neurological	1.03	0.85	1.10	0.64	286669	500	286169	FALSE
601.11	Acute prostatitis	Genitourinary	0.96	0.87	1.25	0.64	307670	260	307410	FALSE
199	Neoplasm of uncertain behavior	Neoplasms	1.02	0.90	1.07	0.64	230485	1156	229329	FALSE
751.2	Congenital anomalies of urinary system	Congenital Anomalies	0.98	0.93	1.13	0.65	326925	905	326020	FALSE
525	Other diseases of the teeth and supporting structures	Digestive	1.01	0.93	1.04	0.65	314374	2699	311675	FALSE
619.1	Noninflammatory disorders of ovary, fallopian tube, and broad ligament	Genitourinary	1.03	0.88	1.09	0.65	279299	734	278565	FALSE
613.7	Other signs and symptoms in breast	Genitourinary	0.98	0.92	1.14	0.65	323186	751	322435	FALSE
433.8	Late effects of cerebrovascular disease	Circulatory System	1.02	0.91	1.06	0.65	319401	1277	318124	FALSE
575.6	Cholesterolosis of gallbladder	Digestive	1.03	0.85	1.11	0.65	310806	466	310340	FALSE
535.2	Atrophic gastritis	Digestive	0.97	0.89	1.21	0.65	296886	358	296528	FALSE

530.11	GERD	Digestive	1.01	0.97	1.02	0.65	302309	14489	287820	FALSE
367.2	Astigmatism	Sense Organs	1.05	0.78	1.17	0.66	325981	210	325771	FALSE
198.6	Secondary malignancy of bone	Neoplasms	1.01	0.93	1.05	0.66	231522	2193	229329	FALSE
789	Nausea and vomiting	Symptoms	0.99	0.98	1.03	0.66	328257	11983	316274	FALSE
696.41	Psoriasis vulgaris	Dermatologic	1.02	0.92	1.06	0.66	315672	1723	313949	FALSE
707	Chronic ulcer of skin	Dermatologic	1.02	0.91	1.07	0.66	327976	1260	326716	FALSE
292.2	Mild cognitive impairment	Mental Disorders	0.96	0.85	1.28	0.66	321689	202	321487	FALSE
455	Hemorrhoids	Circulatory System	1.00	0.98	1.02	0.66	312427	24697	287730	FALSE
530.3	Stricture and stenosis of esophagus	Digestive	0.99	0.95	1.08	0.67	289774	1954	287820	FALSE
614.3	Pelvic inflammatory disease (PID)	Genitourinary	0.96	0.87	1.25	0.67	319065	249	318816	FALSE
189.4	Malignant neoplasm of other urinary organs	Neoplasms	1.01	0.94	1.04	0.67	327202	3223	323979	FALSE
512.2	Painful respiration	Respiratory	1.04	0.79	1.16	0.67	314513	228	314285	FALSE
674	Other complications of the puerperium NEC	Pregnancy Complications	1.04	0.81	1.15	0.68	328032	280	327752	FALSE
578.9	Hemorrhage of gastrointestinal tract	Digestive	1.01	0.95	1.03	0.68	308866	5455	303411	FALSE
447.1	Stricture of artery	Circulatory System	0.98	0.93	1.13	0.68	320263	886	319377	FALSE
480.11	Pneumococcal pneumonia	Respiratory	0.99	0.97	1.05	0.68	323697	5991	317706	FALSE
411.1	Unstable angina (intermediate coronary syndrome)	Circulatory System	1.01	0.95	1.03	0.68	301028	5322	295706	FALSE
327.3	Sleep apnea	Neurological	1.01	0.95	1.03	0.68	327436	4699	322737	FALSE
285.2	Anemia of chronic disease	Hematopoietic	0.97	0.87	1.23	0.68	309211	294	308917	FALSE
859	Complication due to other implant and internal device	Injuries & Poisonings	1.01	0.94	1.04	0.68	317319	3338	313981	FALSE
246	Other disorders of thyroid	Endocrine/Metabolic	1.00	0.97	1.02	0.68	327755	17409	310346	FALSE
296.22	Major depressive disorder	Mental Disorders	1.03	0.84	1.12	0.68	283299	384	282915	FALSE
430.1	Subarachnoid hemorrhage	Circulatory System	0.98	0.92	1.13	0.68	318948	824	318124	FALSE
585.2	Renal failure NOS	Genitourinary	1.01	0.96	1.03	0.68	322841	8745	314096	FALSE
568.1	Peritoneal adhesions (postoperative) (postinfection)	Digestive	1.01	0.94	1.04	0.68	249774	3097	246677	FALSE
386.3	Labyrinthitis	Sense Organs	0.98	0.92	1.13	0.68	322457	791	321666	FALSE
628	Ovarian cyst	Genitourinary	0.99	0.97	1.05	0.68	301068	4820	296248	FALSE
528.5	Diseases of lips	Digestive	1.02	0.88	1.09	0.69	323232	681	322551	FALSE
348.9	Other conditions of brain, NOS	Neurological	0.97	0.89	1.19	0.69	286576	407	286169	FALSE
599.5	Frequency of urination and polyuria	Genitourinary	1.01	0.95	1.04	0.69	224591	4147	220444	FALSE
530.2	Esophageal bleeding (varices/hemorrhage)	Digestive	0.99	0.95	1.09	0.69	289542	1722	287820	FALSE
593	Hematuria	Genitourinary	1.00	0.97	1.02	0.69	313812	16760	297052	FALSE
709.7	Unspecified diffuse connective tissue disease	Dermatologic	1.00	0.99	1.01	0.69	324652	82669	241983	FALSE
614.54	Abscess or ulceration of vulva	Genitourinary	0.97	0.87	1.23	0.69	319096	280	318816	FALSE
465.2	Acute pharyngitis	Respiratory	1.02	0.89	1.08	0.69	326070	874	325196	FALSE
555	Inflammatory bowel disease and other gastroenteritis and colitis	Digestive	1.00	0.98	1.03	0.69	278212	19799	258413	FALSE
427.41	Ventricular fibrillation and flutter	Circulatory System	1.03	0.83	1.13	0.69	299883	345	299538	FALSE
288.11	Neutropenia	Hematopoietic	1.01	0.94	1.04	0.69	323661	3326	320335	FALSE

174	Breast cancer	Neoplasms	1.03	0.82	1.15	0.69	304729	288	304441	FALSE
473	Diseases of the larynx and vocal cords	Respiratory	0.99	0.94	1.09	0.69	310581	1614	308967	FALSE
182	Malignant neoplasm of uterus	Neoplasms	0.98	0.94	1.10	0.70	298965	1303	297662	FALSE
707.1	Decubitus ulcer	Dermatologic	1.03	0.83	1.14	0.70	327042	326	326716	FALSE
532	Dysphagia	Digestive	0.99	0.97	1.04	0.70	294373	6553	287820	FALSE
426.32	Left bundle branch block	Circulatory System	0.99	0.95	1.09	0.70	301319	1781	299538	FALSE
41.4	E. coli	Infectious Diseases	1.01	0.94	1.05	0.70	315449	2800	312649	FALSE
415	Pulmonary heart disease	Circulatory System	0.99	0.96	1.06	0.70	325317	3753	321564	FALSE
687.4	Disturbance of skin sensation	Dermatologic	1.01	0.94	1.04	0.70	325810	2979	322831	FALSE
610.8	Other specified benign mammary dysplasias	Genitourinary	1.02	0.88	1.09	0.70	321593	703	320890	FALSE
781	Symptoms involving nervous and musculoskeletal systems	Symptoms	1.00	0.98	1.02	0.70	328255	22180	306075	FALSE
170.2	Cancer of connective tissue	Neoplasms	1.02	0.88	1.09	0.70	328139	734	327405	FALSE
568	Other disorders of peritoneum	Digestive	1.01	0.95	1.04	0.70	250481	3804	246677	FALSE
427.7	Tachycardia NOS	Circulatory System	1.01	0.93	1.05	0.70	301804	2266	299538	FALSE
427.4	Cardiac arrest and ventricular fibrillation	Circulatory System	1.03	0.83	1.13	0.71	299886	348	299538	FALSE
558	Noninfectious gastroenteritis	Digestive	1.00	0.98	1.03	0.71	278277	19864	258413	FALSE
292.1	Aphasia/speech disturbance	Mental Disorders	1.01	0.92	1.06	0.71	323036	1549	321487	FALSE
572	Ascites (non malignant)	Digestive	1.01	0.92	1.06	0.71	319942	1594	318348	FALSE
451	Phlebitis and thrombophlebitis	Circulatory System	1.03	0.84	1.12	0.71	288127	397	287730	FALSE
556.1	Ulceration of intestine	Digestive	0.98	0.91	1.14	0.71	259104	691	258413	FALSE
451.2	Phlebitis and thrombophlebitis of lower extremities	Circulatory System	0.99	0.96	1.06	0.71	291374	3644	287730	FALSE
379.5	Disorders of iris and ciliary body	Sense Organs	0.97	0.89	1.18	0.71	288621	412	288209	FALSE
577	Diseases of pancreas	Digestive	1.02	0.87	1.10	0.71	326495	558	325937	FALSE
195.1	Malignant neoplasm, other	Neoplasms	1.00	0.99	1.01	0.72	320155	90826	229329	FALSE
627.1	Postmenopausal bleeding	Genitourinary	0.99	0.98	1.04	0.72	305714	9466	296248	FALSE
626	Disorders of menstruation and other abnormal bleeding from female genital tract	Genitourinary	0.99	0.96	1.06	0.72	300195	3947	296248	FALSE
764	Sciatica	Symptoms	1.02	0.91	1.07	0.72	327961	1261	326700	FALSE
204	Leukemia	Neoplasms	0.98	0.90	1.17	0.72	324001	461	323540	FALSE
601.12	Chronic prostatitis	Genitourinary	1.02	0.90	1.08	0.72	308358	948	307410	FALSE
290	Delirium dementia and amnestic and other cognitive disorders	Mental Disorders	1.02	0.86	1.11	0.72	321967	480	321487	FALSE
803.1	Fracture of humerus	Injuries & Poisonings	0.97	0.87	1.22	0.73	323867	293	323574	FALSE
189	Cancer of urinary organs (incl. kidney and bladder)	Neoplasms	1.01	0.94	1.04	0.73	326982	3003	323979	FALSE
372	Disorders of conjunctiva	Sense Organs	0.98	0.93	1.11	0.73	319448	1043	318405	FALSE
338.2	Chronic pain	Neurological	0.97	0.89	1.18	0.73	327847	404	327443	FALSE
994.2	Sepsis	Injuries & Poisonings	1.01	0.94	1.05	0.73	328257	2885	325372	FALSE
172.3	Carcinoma in situ of skin	Neoplasms	0.98	0.91	1.14	0.73	314901	664	314237	FALSE
741	Symptoms and disorders of the joints	Musculoskeletal	1.00	0.97	1.02	0.73	327548	16889	310659	FALSE
385.3	Cholesteatoma	Sense Organs	0.98	0.91	1.15	0.73	324749	589	324160	FALSE

433	Cerebrovascular disease	Circulatory System	0.99	0.97	1.04	0.73	326770	8646	318124	FALSE
747	Cardiac and circulatory congenital anomalies	Congenital Anomalies	1.01	0.91	1.07	0.73	326593	1222	325371	FALSE
361.1	Retinal detachment with retinal defect	Sense Organs	0.99	0.94	1.09	0.74	318255	1456	316799	FALSE
594.1	Calculus of kidney	Genitourinary	1.01	0.94	1.04	0.74	323282	3334	319948	FALSE
756	Other congenital musculoskeletal anomalies	Congenital Anomalies	1.02	0.89	1.09	0.74	328140	812	327328	FALSE
416	Cardiomegaly	Circulatory System	0.99	0.95	1.07	0.74	324174	2610	321564	FALSE
522.5	Periapical abscess	Digestive	0.99	0.93	1.10	0.74	312921	1246	311675	FALSE
367.8	Hypermetropia	Sense Organs	0.97	0.86	1.24	0.74	326012	241	325771	FALSE
585.1	Acute renal failure	Genitourinary	0.99	0.97	1.05	0.74	318761	4665	314096	FALSE
276.13	Hyperpotassemia	Endocrine/Metabolic	0.98	0.93	1.11	0.74	321640	979	320661	FALSE
735.21	Hammer toe (acquired)	Musculoskeletal	1.01	0.93	1.06	0.74	318718	2014	316704	FALSE
427.9	Palpitations	Circulatory System	1.01	0.95	1.04	0.74	303497	3959	299538	FALSE
480	Pneumonia	Respiratory	0.99	0.96	1.06	0.74	321620	3914	317706	FALSE
289	Other diseases of blood and blood-forming organs	Hematopoietic	0.99	0.97	1.05	0.75	325317	4982	320335	FALSE
819	Skull and face fracture and other intercranial injury	Injuries & Poisonings	0.99	0.94	1.09	0.75	328073	1517	326556	FALSE
295.1	Schizophrenia	Mental Disorders	1.02	0.87	1.10	0.75	283526	611	282915	FALSE
8.5	Bacterial enteritis	Infectious Diseases	1.01	0.93	1.05	0.75	321205	2109	319096	FALSE
610.3	Fibrosclerosis of breast	Genitourinary	0.97	0.87	1.21	0.76	321193	303	320890	FALSE
696.4	Psoriasis	Dermatologic	1.01	0.92	1.06	0.76	315571	1622	313949	FALSE
503	Pulmonary congestion and hypostasis	Respiratory	0.98	0.89	1.17	0.76	316976	475	316501	FALSE
520.2	Disturbances in tooth eruption	Digestive	1.01	0.93	1.05	0.76	314112	2437	311675	FALSE
155	Cancer of liver and intrahepatic bile duct	Neoplasms	0.97	0.86	1.24	0.76	312593	245	312348	FALSE
332	Parkinson's disease	Neurological	0.99	0.93	1.10	0.76	287351	1182	286169	FALSE
430.3	Subdural hemorrhage	Circulatory System	0.97	0.86	1.23	0.76	318395	271	318124	FALSE
870.1	Open wound or laceration of eye or eyelid	Injuries & Poisonings	1.03	0.82	1.16	0.76	320029	281	319748	FALSE
300.12	Agorophobia, social phobia, and panic disorder	Mental Disorders	0.98	0.91	1.13	0.76	283659	744	282915	FALSE
8	Intestinal infection	Infectious Diseases	1.00	0.97	1.04	0.76	328257	9161	319096	FALSE
580.32	Nephritis and nephropathy with pathological lesion	Genitourinary	0.99	0.93	1.11	0.76	315174	1078	314096	FALSE
522	Diseases of pulp and periapical tissues	Digestive	1.02	0.88	1.10	0.77	312314	639	311675	FALSE
211	Benign neoplasm of other parts of digestive system	Neoplasms	0.99	0.97	1.05	0.77	319700	5375	314325	FALSE
592.1	Cystitis	Genitourinary	0.99	0.95	1.08	0.77	299106	2054	297052	FALSE
722.1	Displacement of intervertebral disc	Musculoskeletal	1.02	0.86	1.11	0.77	311477	516	310961	FALSE
747.13	Congenital anomalies of great vessels	Congenital Anomalies	0.99	0.94	1.08	0.77	327194	1823	325371	FALSE
569.2	Gastrointestinal complications	Digestive	1.02	0.86	1.12	0.77	247149	472	246677	FALSE
427.5	Arrhythmia (cardiac) NOS	Circulatory System	1.01	0.90	1.08	0.77	300486	948	299538	FALSE
200.1	Polycythemia vera	Neoplasms	0.98	0.88	1.18	0.77	318153	404	317749	FALSE
502	Postinflammatory pulmonary fibrosis	Respiratory	0.99	0.92	1.12	0.77	317384	883	316501	FALSE
979	Adverse drug events and drug allergies	Injuries & Poisonings	1.02	0.88	1.10	0.78	300944	716	300228	FALSE

255.21	Glucocorticoid deficiency	Endocrine/Metabolic	1.02	0.84	1.14	0.78	324934	372	324562	FALSE
285	Other anemias	Hematopoietic	1.00	0.98	1.03	0.78	320761	11844	308917	FALSE
721	Spondylosis and allied disorders	Musculoskeletal	0.99	0.92	1.11	0.78	311886	925	310961	FALSE
70.4	Chronic hepatitis	Infectious Diseases	1.02	0.82	1.16	0.79	322513	290	322223	FALSE
159	Malignant neoplasm of other and ill-defined sites within the digestive organs and peritoneum	Neoplasms	1.01	0.96	1.04	0.79	317637	5289	312348	FALSE
244.1	Secondary hypothyroidism	Endocrine/Metabolic	1.01	0.91	1.08	0.79	311501	1155	310346	FALSE
293	Symptoms involving head and neck	Mental Disorders	0.99	0.95	1.07	0.79	327340	2204	325136	FALSE
506	Empyema and pneumothorax	Respiratory	0.99	0.93	1.10	0.79	317647	1146	316501	FALSE
198	Secondary malignant neoplasm	Neoplasms	0.99	0.93	1.10	0.79	230448	1119	229329	FALSE
966	Poisoning by anticonvulsants and anti-Parkinsonism drugs	Injuries & Poisonings	1.02	0.87	1.11	0.79	300764	536	300228	FALSE
81	Infection/inflammation of internal prosthetic device; implant; and graft	Infectious Diseases	0.99	0.95	1.07	0.79	324010	2514	321496	FALSE
193	Thyroid cancer	Neoplasms	0.98	0.88	1.19	0.79	327026	367	326659	FALSE
733	Other disorders of bone and cartilage	Musculoskeletal	0.98	0.90	1.15	0.80	316018	569	315449	FALSE
727	Other disorders of synovium, tendon, and bursa	Musculoskeletal	1.01	0.89	1.10	0.80	305725	754	304971	FALSE
761	Cervicalgia	Symptoms	1.01	0.90	1.08	0.80	328257	1005	327252	FALSE
496.3	Bronchiectasis	Respiratory	0.99	0.94	1.08	0.80	296094	1885	294209	FALSE
317.11	Alcoholic liver damage	Mental Disorders	1.01	0.89	1.09	0.80	298551	865	297686	FALSE
366.2	Senile cataract	Sense Organs	1.00	0.97	1.04	0.80	315859	8458	307401	FALSE
334	Degenerative disease of the spinal cord	Neurological	0.99	0.94	1.09	0.80	287648	1479	286169	FALSE
477	Epistaxis or throat hemorrhage	Respiratory	0.99	0.95	1.07	0.80	311486	2519	308967	FALSE
573.9	Abnormal serum enzyme levels	Digestive	0.98	0.85	1.24	0.80	318578	230	318348	FALSE
276.5	Hypovolemia	Endocrine/Metabolic	1.01	0.94	1.05	0.80	323556	2895	320661	FALSE
523	Gingival and periodontal diseases	Digestive	0.98	0.90	1.15	0.80	312204	529	311675	FALSE
172.11	Melanomas of skin	Neoplasms	1.01	0.94	1.05	0.80	316960	2723	314237	FALSE
454	Varicose veins	Circulatory System	0.99	0.94	1.09	0.80	289333	1603	287730	FALSE
195	Cancer, suspected or other	Neoplasms	0.99	0.92	1.11	0.81	230244	915	229329	FALSE
289.5	Diseases of spleen	Hematopoietic	0.98	0.90	1.15	0.81	320863	528	320335	FALSE
528	Diseases of the oral soft tissues, excluding lesions specific for gingiva and tongue	Digestive	0.99	0.95	1.07	0.81	324610	2059	322551	FALSE
228	Hemangioma and lymphangioma, any site	Neoplasms	1.01	0.92	1.06	0.81	328257	1635	326622	FALSE
197	Chemotherapy	Neoplasms	1.00	0.98	1.02	0.81	251791	22462	229329	FALSE
279.7	Other immunological findings	Endocrine/Metabolic	1.02	0.82	1.17	0.81	327995	264	327731	FALSE
596.1	Bladder neck obstruction	Genitourinary	0.99	0.94	1.07	0.81	315682	2029	313653	FALSE
531.2	Gastric ulcer	Digestive	0.99	0.96	1.05	0.81	324794	4228	320566	FALSE
458	Hypotension	Circulatory System	0.99	0.93	1.10	0.82	195277	1081	194196	FALSE
369.5	Conjunctivitis, infectious	Sense Organs	0.98	0.84	1.24	0.82	318629	224	318405	FALSE
528.6	Leukoplakia of oral mucosa	Digestive	1.02	0.83	1.15	0.82	322863	312	322551	FALSE
610.1	Cystic mastopathy	Genitourinary	1.01	0.90	1.09	0.82	321849	959	320890	FALSE
8.6	Viral Enteritis	Infectious Diseases	1.01	0.90	1.09	0.82	319941	845	319096	FALSE

595	Hydronephrosis	Genitourinary	1.01	0.93	1.06	0.82	321958	2010	319948	FALSE
418	Nonspecific chest pain	Circulatory System	1.00	0.98	1.02	0.83	326049	30212	295837	FALSE
359.2	Myopathy	Neurological	1.01	0.87	1.12	0.83	326467	498	325969	FALSE
500.2	Pneumoconiosis	Respiratory	1.01	0.90	1.08	0.83	317502	1001	316501	FALSE
516.1	Hemoptysis	Respiratory	0.99	0.95	1.07	0.83	328171	2103	326068	FALSE
788	Syncope and collapse	Symptoms	1.00	0.97	1.03	0.83	328257	9372	318885	FALSE
263	Other nutritional deficiency	Endocrine/Metabolic	1.01	0.92	1.07	0.83	327354	1551	325803	FALSE
383	Otosclerosis	Sense Organs	0.98	0.87	1.19	0.83	324490	330	324160	FALSE
642.1	Preeclampsia and eclampsia	Pregnancy Complications	1.02	0.84	1.15	0.83	327402	335	327067	FALSE
475	Chronic sinusitis	Respiratory	0.99	0.95	1.06	0.84	311597	2630	308967	FALSE
560.4	Other intestinal obstruction	Digestive	0.99	0.96	1.06	0.84	261856	3443	258413	FALSE
649.1	Diabetes or abnormal glucose tolerance complicating pregnancy	Pregnancy Complications	0.98	0.83	1.25	0.84	328144	208	327936	FALSE
440.2	Atherosclerosis of the extremities	Circulatory System	0.99	0.90	1.15	0.84	319929	552	319377	FALSE
627.2	Symptomatic menopause	Genitourinary	0.98	0.83	1.25	0.84	296451	203	296248	FALSE
858	Complication of internal orthopedic device	Injuries & Poisonings	0.99	0.95	1.06	0.84	317164	3183	313981	FALSE
433.3	Cerebral ischemia	Circulatory System	0.99	0.92	1.11	0.85	319058	934	318124	FALSE
509.8	Dependence on respirator [Ventilator] or supplemental oxygen	Respiratory	0.99	0.88	1.17	0.85	316902	401	316501	FALSE
446.5	Giant cell arteritis	Circulatory System	0.99	0.88	1.17	0.85	319767	390	319377	FALSE
722.6	Degeneration of intervertebral disc	Musculoskeletal	0.99	0.95	1.06	0.85	313883	2922	310961	FALSE
301	Personality disorders	Mental Disorders	1.01	0.86	1.13	0.85	283347	432	282915	FALSE
292	Neurological disorders	Mental Disorders	0.99	0.88	1.16	0.86	321936	449	321487	FALSE
213	Benign neoplasm of bone and articular cartilage	Neoplasms	1.01	0.84	1.16	0.86	277545	322	277223	FALSE
191.11	Cancer of brain	Neoplasms	0.99	0.89	1.15	0.86	326962	498	326464	FALSE
716.9	Arthropathy NOS	Musculoskeletal	1.00	0.99	1.02	0.86	327736	53823	273913	FALSE
214.1	Lipoma of skin and subcutaneous tissue	Neoplasms	1.00	0.96	1.04	0.86	325449	4756	320693	FALSE
292.6	Hallucinations	Mental Disorders	0.99	0.86	1.19	0.86	321810	323	321487	FALSE
218.2	Other benign neoplasm of uterus	Neoplasms	1.01	0.85	1.15	0.86	308160	363	307797	FALSE
735.3	Hallux valgus (Bunion)	Musculoskeletal	1.00	0.97	1.04	0.86	323609	6905	316704	FALSE
496.1	Emphysema	Respiratory	1.01	0.93	1.07	0.87	295935	1726	294209	FALSE
752.11	Spina bifida	Congenital Anomalies	1.02	0.81	1.20	0.87	327903	211	327692	FALSE
613.1	Inflammatory disease of breast	Genitourinary	1.01	0.89	1.10	0.87	323173	738	322435	FALSE
284	Aplastic anemia	Hematopoietic	1.00	0.98	1.03	0.87	321676	12759	308917	FALSE
509.2	Respiratory insufficiency	Respiratory	0.99	0.94	1.08	0.87	318289	1788	316501	FALSE
574.2	Calculus of bile duct	Digestive	1.00	0.94	1.05	0.87	313028	2688	310340	FALSE
411.9	Other acute and subacute forms of ischemic heart disease	Circulatory System	1.01	0.91	1.08	0.87	296900	1194	295706	FALSE
567	Peritonitis and retroperitoneal infections	Digestive	0.99	0.92	1.11	0.87	247567	890	246677	FALSE
947	Urticaria	Injuries & Poisonings	0.99	0.87	1.17	0.87	322310	387	321923	FALSE
474.1	Acute tonsillitis	Respiratory	1.01	0.88	1.12	0.87	309532	565	308967	FALSE

577.1	Acute pancreatitis	Digestive	1.01	0.92	1.07	0.87	327454	1517	325937	FALSE
479	Other upper respiratory disease	Respiratory	1.00	0.98	1.03	0.87	324258	15291	308967	FALSE
478	Throat pain	Respiratory	0.99	0.87	1.17	0.87	309354	387	308967	FALSE
365.2	Primary angle-closure glaucoma	Sense Organs	1.01	0.89	1.10	0.87	317508	709	316799	FALSE
526.1	Cysts of the jaws	Digestive	0.99	0.86	1.19	0.87	312010	335	311675	FALSE
526.9	Jaw disease NOS	Digestive	1.00	0.98	1.02	0.88	327637	15962	311675	FALSE
610.4	Benign neoplasm of breast	Genitourinary	0.99	0.93	1.08	0.88	322376	1486	320890	FALSE
622	Polyp of female genital organs	Genitourinary	0.99	0.89	1.15	0.88	315811	487	315324	FALSE
337	Disorders of the autonomic nervous system	Neurological	1.02	0.81	1.20	0.88	286376	207	286169	FALSE
8.52	Intestinal infection due to C. difficile	Infectious Diseases	1.01	0.89	1.11	0.88	319744	648	319096	FALSE
350.2	Abnormality of gait	Neurological	0.99	0.94	1.08	0.88	327094	1633	325461	FALSE
957	Injury to other and unspecified nerves	Injuries & Poisonings	1.01	0.83	1.17	0.88	328174	275	327899	FALSE
646	Other complications of pregnancy NEC	Pregnancy Complications	1.00	0.94	1.06	0.88	328257	2396	325861	FALSE
430.2	Intracerebral hemorrhage	Circulatory System	1.01	0.89	1.10	0.89	318847	723	318124	FALSE
411.3	Angina pectoris	Circulatory System	1.00	0.98	1.02	0.89	312065	16359	295706	FALSE
575.8	Other disorders of biliary tract	Digestive	0.99	0.92	1.10	0.89	311389	1049	310340	FALSE
601.1	Prostatitis	Genitourinary	1.01	0.89	1.11	0.89	308075	665	307410	FALSE
727.1	Synovitis and tenosynovitis	Musculoskeletal	0.99	0.90	1.13	0.89	305658	687	304971	FALSE
703	Diseases of nail, NOS	Dermatologic	1.01	0.85	1.15	0.89	321812	366	321446	FALSE
747.12	Valvular heart disease/ heart chambers	Congenital Anomalies	0.99	0.84	1.22	0.90	325609	238	325371	FALSE
526	Diseases of the jaws	Digestive	1.00	0.98	1.02	0.90	327662	15987	311675	FALSE
510	Other diseases of lung	Respiratory	0.99	0.91	1.12	0.90	328217	770	327447	FALSE
965	Poisoning by analgesics, antipyretics, and antirheumatics	Injuries & Poisonings	1.00	0.97	1.04	0.90	306310	6082	300228	FALSE
809	Fracture of unspecified bones	Injuries & Poisonings	0.99	0.87	1.16	0.90	323984	410	323574	FALSE
573	Other disorders of liver	Digestive	1.00	0.96	1.04	0.91	323550	5202	318348	FALSE
800.3	Fracture of tibia and fibula	Injuries & Poisonings	1.01	0.88	1.12	0.91	324109	535	323574	FALSE
368.1	Amblyopia	Sense Organs	0.99	0.89	1.14	0.91	325440	541	324899	FALSE
686.3	Pilonidal cyst	Dermatologic	1.01	0.88	1.12	0.91	317041	617	316424	FALSE
395.6	Heart valve replaced	Circulatory System	1.00	0.92	1.07	0.91	323073	1528	321545	FALSE
444.1	Arterial embolism and thrombosis of lower extremity artery	Circulatory System	0.99	0.89	1.14	0.91	319947	570	319377	FALSE
465	Acute upper respiratory infections of multiple or unspecified sites	Respiratory	1.00	0.95	1.05	0.91	328249	3053	325196	FALSE
341	Other demyelinating diseases of central nervous system	Neurological	1.00	0.93	1.08	0.91	287781	1612	286169	FALSE
285.22	Anemia in neoplastic disease	Hematopoietic	1.01	0.86	1.14	0.91	309354	437	308917	FALSE
240	Simple and unspecified goiter	Endocrine/Metabolic	1.01	0.88	1.12	0.91	310968	622	310346	FALSE
740.11	Osteoarthrosis, localized, primary	Musculoskeletal	1.00	0.97	1.03	0.91	315569	9227	306342	FALSE
386.2	Peripheral or central vertigo	Sense Organs	1.01	0.86	1.15	0.91	322053	387	321666	FALSE
626.12	Excessive or frequent menstruation	Genitourinary	1.00	0.97	1.03	0.92	306289	10041	296248	FALSE
586.4	Stricture/obstruction of ureter	Genitourinary	1.01	0.91	1.09	0.92	315035	939	314096	FALSE

715	Other inflammatory spondylopathies	Musculoskeletal	1.01	0.83	1.18	0.92	317541	271	317270	FALSE
695.9	Unspecified erythematous condition	Dermatologic	0.99	0.88	1.15	0.92	322243	477	321766	FALSE
716.1	Unspecified polyarthropathy or polyarthritis	Musculoskeletal	1.00	0.95	1.05	0.92	277443	3530	273913	FALSE
339	Other headache syndromes	Neurological	1.00	0.97	1.03	0.92	325905	7938	317967	FALSE
969	Poisoning by psychotropic agents	Injuries & Poisonings	1.00	0.93	1.06	0.92	302224	1996	300228	FALSE
732	Osteochondropathies	Musculoskeletal	1.01	0.81	1.20	0.92	315668	219	315449	FALSE
380.1	Otitis externa	Sense Organs	1.01	0.88	1.13	0.92	327301	532	326769	FALSE
577.2	Chronic pancreatitis	Digestive	0.99	0.89	1.14	0.92	326473	536	325937	FALSE
340	Migraine	Neurological	1.00	0.94	1.05	0.92	320740	2773	317967	FALSE
420.21	Acute pericarditis	Circulatory System	1.01	0.82	1.20	0.92	325228	228	325000	FALSE
625	Pain and other symptoms associated with female genital organs	Genitourinary	1.00	0.94	1.07	0.93	320735	2049	318686	FALSE
785	Abdominal pain	Symptoms	1.00	0.98	1.01	0.93	328257	42311	285946	FALSE
157	Pancreatic cancer	Neoplasms	1.01	0.88	1.12	0.93	312950	602	312348	FALSE
261.4	Vitamin D deficiency	Endocrine/Metabolic	0.99	0.87	1.16	0.93	326211	408	325803	FALSE
964.1	Anticoagulants causing adverse effects	Injuries & Poisonings	0.99	0.84	1.21	0.93	300487	259	300228	FALSE
540.11	Acute appendicitis	Digestive	1.00	0.94	1.06	0.93	327054	2658	324396	FALSE
426.91	Cardiac pacemaker in situ	Circulatory System	1.00	0.94	1.07	0.93	301854	2316	299538	FALSE
537	Other disorders of stomach and duodenum	Digestive	1.00	0.95	1.05	0.93	300011	3483	296528	FALSE
557	Intestinal malabsorption (non-celiac)	Digestive	1.01	0.84	1.17	0.93	258707	294	258413	FALSE
433.5	Cerebral aneurysm	Circulatory System	0.99	0.87	1.16	0.93	318522	398	318124	FALSE
394.3	Aortic valve disease	Circulatory System	1.00	0.92	1.08	0.93	322853	1308	321545	FALSE
112	Candidiasis	Infectious Diseases	1.00	0.94	1.06	0.93	327667	2150	325517	FALSE
473.4	Voice disturbance	Respiratory	1.00	0.91	1.09	0.94	310068	1101	308967	FALSE
244.4	Hypothyroidism NOS	Endocrine/Metabolic	1.00	0.97	1.02	0.94	324776	14430	310346	FALSE
344	Other paralytic syndromes	Neurological	1.00	0.90	1.12	0.94	286858	689	286169	FALSE
938.2	Chronic dermatitis due to solar radiation	Injuries & Poisonings	1.01	0.83	1.19	0.94	322187	264	321923	FALSE
700	Corns and callosities	Dermatologic	0.99	0.85	1.19	0.94	323369	288	323081	FALSE
571.8	Liver abscess and sequelae of chronic liver disease	Digestive	1.00	0.89	1.13	0.94	318921	573	318348	FALSE
290.2	Delirium due to conditions classified elsewhere	Mental Disorders	1.00	0.90	1.12	0.94	322168	681	321487	FALSE
285.1	Acute posthemorrhagic anemia	Hematopoietic	1.01	0.83	1.19	0.95	309184	267	308917	FALSE
345.12	Partial epilepsy	Neurological	1.01	0.84	1.18	0.95	286467	298	286169	FALSE
636.3	Hemorrhage in early pregnancy	Pregnancy Complications	1.00	0.91	1.09	0.95	321095	1113	319982	FALSE
747.11	Cardiac shunt/ heart septal defect	Congenital Anomalies	1.00	0.88	1.12	0.95	325952	581	325371	FALSE
184.1	Malignant neoplasm of ovary and other uterine adnexa	Neoplasms	1.00	0.94	1.06	0.95	308123	2553	305570	FALSE
427.42	Cardiac arrest	Circulatory System	1.00	0.91	1.10	0.95	300487	949	299538	FALSE
709.2	Sicca syndrome	Dermatologic	1.00	0.88	1.13	0.95	242503	520	241983	FALSE
621	Endometrial hyperplasia	Genitourinary	1.00	0.92	1.09	0.95	316478	1154	315324	FALSE
481	Influenza	Respiratory	1.00	0.97	1.03	0.95	327723	10017	317706	FALSE

261.2	Vitamin B-complex deficiencies	Endocrine/Metabolic	1.00	0.90	1.11	0.95	326576	773	325803	FALSE
483	Acute bronchitis and bronchiolitis	Respiratory	1.01	0.81	1.22	0.95	317906	200	317706	FALSE
857	Mechanical complication of unspecified genitourinary device, implant, and graft	Injuries & Poisonings	1.00	0.92	1.08	0.95	315265	1284	313981	FALSE
220	Benign neoplasm of ovary	Neoplasms	1.00	0.93	1.08	0.96	297563	1490	296073	FALSE
251.1	Hypoglycemia	Endocrine/Metabolic	1.00	0.91	1.09	0.96	305969	977	304992	FALSE
571	Chronic liver disease and cirrhosis	Digestive	1.00	0.89	1.14	0.96	318888	540	318348	FALSE
634.3	Ectopic pregnancy	Pregnancy Complications	1.00	0.85	1.17	0.96	320324	342	319982	FALSE
803.2	Fracture of radius and ulna	Injuries & Poisonings	1.00	0.91	1.11	0.96	324458	884	323574	FALSE
53	Herpes zoster	Infectious Diseases	1.00	0.85	1.16	0.96	322564	341	322223	FALSE
619	Noninflammatory female genital disorders	Genitourinary	1.00	0.99	1.02	0.96	328123	49558	278565	FALSE
292.3	Memory loss	Mental Disorders	1.00	0.90	1.12	0.96	322225	738	321487	FALSE
803.3	Fracture of clavicle or scapula	Injuries & Poisonings	1.00	0.85	1.19	0.96	323874	300	323574	FALSE
297.2	Suicide or self-inflicted injury	Mental Disorders	1.00	0.95	1.06	0.96	285672	2757	282915	FALSE
296.1	Bipolar	Mental Disorders	1.00	0.92	1.09	0.96	284036	1121	282915	FALSE
353	Nerve root and plexus disorders	Neurological	1.00	0.91	1.10	0.97	314022	994	313028	FALSE
444	Arterial embolism and thrombosis	Circulatory System	1.00	0.87	1.15	0.97	319811	434	319377	FALSE
694.2	Other dyschromia	Dermatologic	1.00	0.90	1.11	0.97	322566	800	321766	FALSE
599.3	Dysuria	Genitourinary	1.00	0.92	1.08	0.97	221653	1209	220444	FALSE
335	Multiple sclerosis	Neurological	1.00	0.92	1.08	0.97	287548	1379	286169	FALSE
365	Glaucoma	Sense Organs	1.00	0.96	1.04	0.98	321357	4558	316799	FALSE
368	Visual disturbances	Sense Organs	1.00	0.92	1.09	0.98	325980	1081	324899	FALSE
454.11	Varicose veins of lower extremity, symptomtic	Circulatory System	1.00	0.89	1.12	0.98	288382	652	287730	FALSE
613.9	Breast disorder NOS	Genitourinary	1.00	0.96	1.04	0.98	327954	5519	322435	FALSE
740.1	Osteoarthritis; localized	Musculoskeletal	1.00	0.97	1.03	0.98	315814	9472	306342	FALSE
362.29	Macular degeneration (senile) of retina NOS	Sense Organs	1.00	0.94	1.06	0.98	318069	2200	315869	FALSE
519.8	Other diseases of respiratory system, NEC	Respiratory	1.00	0.97	1.03	0.98	274546	9082	265464	FALSE
977	Personal history of allergy to medicinal agents	Injuries & Poisonings	1.00	0.83	1.20	0.98	300466	238	300228	FALSE
362.2	Degeneration of macula and posterior pole of retina	Sense Organs	1.00	0.94	1.06	0.98	318072	2203	315869	FALSE
252.1	Hyperparathyroidism	Endocrine/Metabolic	1.00	0.90	1.11	0.99	325376	814	324562	FALSE
428.2	Heart failure NOS	Circulatory System	1.00	0.96	1.04	0.99	326384	4334	322050	FALSE
835	Internal derangement of knee	Injuries & Poisonings	1.00	0.96	1.05	0.99	326029	4239	321790	FALSE
729	Other disorders of soft tissues	Musculoskeletal	1.00	0.98	1.02	0.99	327495	22524	304971	FALSE
586	Other disorders of the kidney and ureters	Genitourinary	1.00	0.95	1.05	0.99	317507	3411	314096	FALSE
464	Acute sinusitis	Respiratory	1.00	0.82	1.22	0.99	325404	208	325196	FALSE
960	Poisoning by antibiotics	Injuries & Poisonings	1.00	0.95	1.05	1.00	303756	3528	300228	FALSE
578	Gastrointestinal hemorrhage	Digestive	1.00	0.84	1.19	1.00	303696	285	303411	FALSE
433.2	Occlusion of cerebral arteries	Circulatory System	1.00	0.95	1.05	1.00	321104	2980	318124	FALSE

Supplementary Table 11. Phenome-wide association study (PheWAS) results for the main beta-blocker (BB) genetic risk score.

Phecode	Trait	Category	OR	Low 95% CI	Upp 95% CI	P value	Total sample size	Cases	Controls	FDR
401.1	Essential hypertension	Circulatory System	0.95	0.95	0.96	2.06E-28	327983	79235	248748	TRUE
401	Hypertension	Circulatory System	0.95	0.95	0.96	2.16E-28	328239	79491	248748	TRUE
459.9	Circulatory disease NEC	Circulatory System	0.97	0.97	0.98	1.89E-13	327928	133749	194179	TRUE
427.2	Atrial fibrillation and flutter	Circulatory System	0.97	0.95	0.99	1.99E-04	314573	15052	299521	TRUE
916	Contusion	Injuries & Poisonings	0.91	0.87	0.96	4.33E-04	328240	1478	326762	FALSE
395.1	Nonrheumatic mitral valve disorders	Circulatory System	0.94	0.91	0.97	7.14E-04	324497	2969	321528	FALSE
189.21	Malignant neoplasm of bladder	Neoplasms	0.93	0.89	0.97	7.48E-04	326150	2188	323962	FALSE
394.2	Mitral valve disease	Circulatory System	0.94	0.91	0.97	7.65E-04	324603	3075	321528	FALSE
289.3	Personal history of diseases of blood and blood-forming organs	Hematopoietic	0.82	0.74	0.92	8.13E-04	320615	297	320318	FALSE
427	Cardiac dysrhythmias	Circulatory System	0.83	0.75	0.93	1.10E-03	299844	323	299521	FALSE
411.8	Other chronic ischemic heart disease, unspecified	Circulatory System	0.98	0.97	0.99	1.19E-03	326969	31280	295689	FALSE
411	Ischemic Heart Disease	Circulatory System	0.98	0.97	0.99	1.25E-03	327032	31343	295689	FALSE
250	Diabetes mellitus	Endocrine/Metabolic	1.02	1.01	1.04	1.68E-03	327730	20240	307490	FALSE
250.2	Type 2 diabetes	Endocrine/Metabolic	1.02	1.01	1.04	1.70E-03	326603	19113	307490	FALSE
411.4	Coronary atherosclerosis	Circulatory System	0.98	0.97	0.99	1.71E-03	327242	31553	295689	FALSE
738.4	Acquired spondylolisthesis	Musculoskeletal	1.22	1.07	1.38	2.14E-03	316942	255	316687	FALSE
747.13	Congenital anomalies of great vessels	Congenital Anomalies	0.93	0.89	0.98	2.99E-03	327177	1823	325354	FALSE
371.1	Uveitis, noninfectious or NOS	Sense Organs	1.14	1.04	1.24	4.43E-03	318886	498	318388	FALSE
575.1	Cholangitis	Digestive	1.13	1.03	1.24	0.01	310820	497	310323	FALSE
380	Disorders of external ear	Sense Organs	0.93	0.89	0.98	0.01	328227	1475	326752	FALSE
395.6	Heart valve replaced	Circulatory System	0.93	0.89	0.98	0.01	323056	1528	321528	FALSE
528	Diseases of the oral soft tissues, excluding lesions specific for gingiva and tongue	Digestive	0.94	0.90	0.99	0.01	324593	2059	322534	FALSE
850	Hemorrhage or hematoma complicating a procedure	Injuries & Poisonings	0.97	0.94	0.99	0.01	319328	5364	313964	FALSE
277	Other disorders of metabolism	Endocrine/Metabolic	0.99	0.98	1.00	0.01	328230	45303	282927	FALSE
189.4	Malignant neoplasm of other urinary organs	Neoplasms	0.96	0.92	0.99	0.01	327185	3223	323962	FALSE
857	Mechanical complication of unspecified genitourinary device, implant, and graft	Injuries & Poisonings	0.93	0.88	0.98	0.01	315248	1284	313964	FALSE
586.2	Cyst of kidney, acquired	Genitourinary	0.93	0.88	0.98	0.01	315372	1293	314079	FALSE
276.12	Hyposmolality and/or hyponatremia	Endocrine/Metabolic	0.94	0.90	0.99	0.01	322496	1852	320644	FALSE
550.3	Femoral hernia	Digestive	0.91	0.84	0.98	0.01	280442	653	279789	FALSE
634.3	Ectopic pregnancy	Pregnancy Complications	0.87	0.78	0.97	0.01	320307	342	319965	FALSE
704	Diseases of hair and hair follicles	Dermatologic	1.04	1.01	1.06	0.01	326692	5263	321429	FALSE
702.1	Actinic keratosis	Dermatologic	1.05	1.01	1.09	0.01	325264	2664	322600	FALSE
803.2	Fracture of radius and ulna	Injuries & Poisonings	0.92	0.86	0.98	0.01	324441	884	323557	FALSE
225.1	Benign neoplasm of brain, cranial nerves, meninges	Neoplasms	0.92	0.86	0.98	0.01	327267	820	326447	FALSE
613.1	Inflammatory disease of breast	Genitourinary	1.09	1.02	1.18	0.02	323156	738	322418	FALSE
180.3	Cervical intraepithelial neoplasia [CIN] [Cervical dysplasia]	Neoplasms	0.95	0.91	0.99	0.02	299736	2153	297583	FALSE

747	Cardiac and circulatory congenital anomalies	Congenital Anomalies	0.93	0.88	0.99	0.02	326576	1222	325354	FALSE
649.1	Diabetes or abnormal glucose tolerance complicating pregnancy	Pregnancy Complications	1.18	1.03	1.36	0.02	328127	208	327919	FALSE
623	Hypertrophy of female genital organs	Genitourinary	1.07	1.01	1.13	0.02	316579	1272	315307	FALSE
747.12	Valvular heart disease/ heart chambers	Congenital Anomalies	0.86	0.76	0.98	0.02	325592	238	325354	FALSE
293	Symptoms involving head and neck	Mental Disorders	1.05	1.01	1.10	0.02	327323	2204	325119	FALSE
149.4	Cancer of larynx	Neoplasms	0.87	0.77	0.98	0.02	326307	266	326041	FALSE
260.6	Anorexia	Endocrine/Metabolic	0.93	0.87	0.99	0.02	326636	850	325786	FALSE
594.1	Calculus of kidney	Genitourinary	0.96	0.93	0.99	0.02	323265	3334	319931	FALSE
471	Nasal polyps	Respiratory	1.04	1.00	1.08	0.03	312342	3392	308950	FALSE
427.9	Palpitations	Circulatory System	0.97	0.94	1.00	0.03	303480	3959	299521	FALSE
636.3	Hemorrhage in early pregnancy	Pregnancy Complications	0.94	0.88	0.99	0.03	321078	1113	319965	FALSE
574.2	Calculus of bile duct	Digestive	1.04	1.00	1.08	0.03	313011	2688	310323	FALSE
989	Toxic effect of other substances, chiefly nonmedicinal as to source	Injuries & Poisonings	1.06	1.01	1.12	0.03	328136	1438	326698	FALSE
414	Other forms of chronic heart disease	Circulatory System	0.95	0.91	1.00	0.03	297457	1768	295689	FALSE
250.1	Type 1 diabetes	Endocrine/Metabolic	1.04	1.00	1.08	0.03	310189	2699	307490	FALSE
297.2	Suicide or self-inflicted injury	Mental Disorders	1.04	1.00	1.08	0.03	285655	2757	282898	FALSE
202.21	Nodular lymphoma	Neoplasms	0.90	0.81	0.99	0.03	323913	390	323523	FALSE
756	Other congenital musculoskeletal anomalies	Congenital Anomalies	1.08	1.01	1.16	0.03	328123	812	327311	FALSE
348.8	Encephalopathy, not elsewhere classified	Neurological	1.16	1.01	1.34	0.03	286356	204	286152	FALSE
550.4	Umbilical hernia	Digestive	0.97	0.94	1.00	0.04	283693	3904	279789	FALSE
411.41	Aneurysm and dissection of heart	Circulatory System	0.92	0.86	0.99	0.04	296410	721	295689	FALSE
571.6	Primary biliary cirrhosis	Digestive	1.14	1.01	1.29	0.04	318589	258	318331	FALSE
740.2	Osteoarthrosis, generalized	Musculoskeletal	0.92	0.85	1.00	0.04	306914	589	306325	FALSE
706.2	Sebaceous cyst	Dermatologic	1.02	1.00	1.04	0.04	327401	9107	318294	FALSE
555.2	Ulcerative colitis	Digestive	0.96	0.93	1.00	0.04	261550	3154	258396	FALSE
291.8	Alteration of consciousness	Mental Disorders	1.10	1.00	1.21	0.04	321904	434	321470	FALSE
535	Gastritis and duodenitis	Digestive	1.02	1.00	1.03	0.04	314259	17748	296511	FALSE
562.1	Diverticulosis	Digestive	0.99	0.97	1.00	0.04	286281	27885	258396	FALSE
151	Cancer of stomach	Neoplasms	0.92	0.85	1.00	0.04	312905	574	312331	FALSE
555.21	Ulcerative colitis (chronic)	Digestive	1.09	1.00	1.18	0.05	258967	571	258396	FALSE
416	Cardiomegaly	Circulatory System	0.96	0.93	1.00	0.05	324157	2610	321547	FALSE
184.11	Malignant neoplasm of ovary	Neoplasms	0.97	0.95	1.00	0.05	310562	5009	305553	FALSE
977	Personal history of allergy to medicinal agents	Injuries & Poisonings	1.14	1.00	1.30	0.05	300449	238	300211	FALSE
427.3	Other specified cardiac dysrhythmias	Circulatory System	0.97	0.93	1.00	0.05	302836	3315	299521	FALSE
426.4	Anomalous atrioventricular excitation	Circulatory System	0.88	0.78	1.00	0.05	299761	240	299521	FALSE
440.2	Atherosclerosis of the extremities	Circulatory System	0.92	0.85	1.00	0.05	319912	552	319360	FALSE
804	Fracture of hand or wrist	Injuries & Poisonings	1.08	1.00	1.16	0.05	324232	675	323557	FALSE
426.9	Cardiac pacemaker/device in situ	Circulatory System	1.14	1.00	1.29	0.05	299758	237	299521	FALSE

362.4	Retinal vascular changes and abnomalities	Sense Organs	1.07	1.00	1.14	0.05	316733	881	315852	FALSE
303.3	Psychogenic disorder	Mental Disorders	1.07	1.00	1.14	0.05	283739	841	282898	FALSE
766	Neuralgia, neuritis, and radiculitis NOS	Symptoms	1.12	1.00	1.25	0.06	326987	304	326683	FALSE
642.1	Preeclampsia and eclampsia	Pregnancy Complications	0.90	0.81	1.00	0.06	327385	335	327050	FALSE
938	Dermatitis due to solar radiation	Injuries & Poisonings	1.04	1.00	1.08	0.06	324444	2538	321906	FALSE
380.4	Impacted cerumen	Sense Organs	0.91	0.82	1.00	0.06	327106	354	326752	FALSE
317.11	Alcoholic liver damage	Mental Disorders	1.07	1.00	1.14	0.06	298534	865	297669	FALSE
687.4	Disturbance of skin sensation	Dermatologic	0.97	0.93	1.00	0.07	325793	2979	322814	FALSE
411.3	Angina pectoris	Circulatory System	0.99	0.97	1.00	0.07	312048	16359	295689	FALSE
90	Sexually transmitted infections (not HIV or hepatitis)	Infectious Diseases	0.90	0.80	1.01	0.07	328239	298	327941	FALSE
53	Herpes zoster	Infectious Diseases	0.91	0.81	1.01	0.07	322547	341	322206	FALSE
295.1	Schizophrenia	Mental Disorders	1.08	0.99	1.17	0.07	283509	611	282898	FALSE
596.1	Bladder neck obstruction	Genitourinary	0.96	0.92	1.00	0.07	315665	2029	313636	FALSE
187.2	Malignant neoplasm of testis	Neoplasms	0.97	0.95	1.00	0.07	323790	4572	319218	FALSE
333.4	Torsion dystonia	Neurological	1.12	0.99	1.26	0.07	286417	265	286152	FALSE
208	Benign neoplasm of colon	Neoplasms	0.99	0.97	1.00	0.07	325437	20827	304610	FALSE
737	Curvature of spine	Musculoskeletal	1.07	0.99	1.15	0.07	317430	743	316687	FALSE
444.1	Arterial embolism and thrombosis of lower extremity artery	Circulatory System	0.93	0.85	1.01	0.07	319930	570	319360	FALSE
747.11	Cardiac shunt/ heart septal defect	Congenital Anomalies	0.93	0.86	1.01	0.08	325935	581	325354	FALSE
524.3	Anomalies of tooth position/malocclusion	Digestive	0.90	0.80	1.01	0.08	311953	295	311658	FALSE
871	Open wounds of extremities	Injuries & Poisonings	1.03	1.00	1.06	0.08	323873	4142	319731	FALSE
272.11	Hypercholesterolemia	Endocrine/Metabolic	0.99	0.98	1.00	0.08	325499	34002	291497	FALSE
586	Other disorders of the kidney and ureters	Genitourinary	0.97	0.94	1.00	0.08	317490	3411	314079	FALSE
8	Intestinal infection	Infectious Diseases	0.98	0.96	1.00	0.08	328240	9161	319079	FALSE
158	Neoplasm of unspecified nature of digestive system	Neoplasms	1.05	0.99	1.12	0.08	313429	1098	312331	FALSE
840	Sprains and strains	Injuries & Poisonings	1.08	0.99	1.19	0.08	328201	481	327720	FALSE
569.2	Gastrointestinal complications	Digestive	1.08	0.99	1.19	0.09	247132	472	246660	FALSE
755.1	Congenital deformities of feet	Congenital Anomalies	1.12	0.98	1.28	0.09	327531	220	327311	FALSE
184.1	Malignant neoplasm of ovary and other uterine adnexa	Neoplasms	0.97	0.93	1.01	0.09	308106	2553	305553	FALSE
8.5	Bacterial enteritis	Infectious Diseases	0.96	0.92	1.01	0.09	321188	2109	319079	FALSE
342	Hemiplegia	Neurological	0.96	0.91	1.01	0.09	287677	1525	286152	FALSE
394.7	Disease of tricuspid valve	Circulatory System	0.95	0.89	1.01	0.09	322614	1086	321528	FALSE
331.9	Cerebral degeneration, unspecified	Neurological	1.09	0.99	1.20	0.09	286569	417	286152	FALSE
509.8	Dependence on respirator [Ventilator] or supplemental oxygen	Respiratory	1.09	0.99	1.20	0.09	316885	401	316484	FALSE
783	Fever of unknown origin	Symptoms	1.03	1.00	1.06	0.09	328240	4111	324129	FALSE
256.4	Polycystic ovaries	Endocrine/Metabolic	1.12	0.98	1.28	0.09	324764	219	324545	FALSE
595	Hydronephrosis	Genitourinary	0.96	0.92	1.01	0.09	321941	2010	319931	FALSE
577	Diseases of pancreas	Digestive	0.93	0.86	1.01	0.10	326478	558	325920	FALSE

647.1	Infections of genitourinary tract during pregnancy	Pregnancy Complications	1.11	0.98	1.24	0.10	328128	284	327844	FALSE
722.6	Degeneration of intervertebral disc	Musculoskeletal	0.97	0.93	1.01	0.10	313866	2922	310944	FALSE
189	Cancer of urinary organs (incl. kidney and bladder)	Neoplasms	0.97	0.94	1.01	0.10	326965	3003	323962	FALSE
613.9	Breast disorder NOS	Genitourinary	1.02	1.00	1.05	0.10	327937	5519	322418	FALSE
577.1	Acute pancreatitis	Digestive	0.96	0.91	1.01	0.10	327437	1517	325920	FALSE
627.2	Symptomatic menopause	Genitourinary	0.89	0.78	1.02	0.10	296434	203	296231	FALSE
578.8	Hemorrhage of rectum and anus	Digestive	0.99	0.97	1.00	0.10	317220	13826	303394	FALSE
180.1	Cervical cancer	Neoplasms	0.98	0.95	1.00	0.10	302137	4554	297583	FALSE
513.4	Hyperventilation	Respiratory	1.10	0.98	1.24	0.10	327904	280	327624	FALSE
703	Diseases of nail, NOS	Dermatologic	1.09	0.98	1.21	0.10	321795	366	321429	FALSE
415.21	Primary pulmonary hypertension	Circulatory System	0.93	0.85	1.02	0.10	322013	466	321547	FALSE
578	Gastrointestinal hemorrhage	Digestive	0.91	0.81	1.02	0.11	303679	285	303394	FALSE
350.3	Lack of coordination	Neurological	0.92	0.83	1.02	0.11	325804	360	325444	FALSE
585.31	Renal dialysis	Genitourinary	0.93	0.86	1.02	0.11	314603	524	314079	FALSE
386.1	Meniere's disease	Sense Organs	1.07	0.98	1.16	0.11	322213	564	321649	FALSE
733	Other disorders of bone and cartilage	Musculoskeletal	1.07	0.98	1.16	0.11	316001	569	315432	FALSE
374.3	Ptosis of eyelid	Sense Organs	1.04	0.99	1.09	0.11	320284	1896	318388	FALSE
365.2	Primary angle-closure glaucoma	Sense Organs	0.94	0.88	1.01	0.12	317491	709	316782	FALSE
364.5	Corneal dystrophy	Sense Organs	1.11	0.97	1.27	0.12	316998	216	316782	FALSE
112	Candidiasis	Infectious Diseases	0.97	0.93	1.01	0.12	327650	2150	325500	FALSE
261.4	Vitamin D deficiency	Endocrine/Metabolic	0.93	0.84	1.02	0.12	326194	408	325786	FALSE
159	Malignant neoplasm of other and ill-defined sites within the digestive organs and peritoneum	Neoplasms	0.98	0.95	1.01	0.12	317620	5289	312331	FALSE
250.23	Type 2 diabetes with ophthalmic manifestations	Endocrine/Metabolic	1.04	0.99	1.10	0.12	308834	1344	307490	FALSE
201	Hodgkin's disease	Neoplasms	1.10	0.97	1.24	0.12	323794	271	323523	FALSE
426.3	Bundle branch block	Circulatory System	0.91	0.81	1.02	0.12	299812	291	299521	FALSE
80	Postoperative infection	Infectious Diseases	0.98	0.95	1.01	0.12	326101	4622	321479	FALSE
473.3	Paralysis/spasm of vocal cords or larynx	Respiratory	1.10	0.97	1.24	0.13	309217	267	308950	FALSE
586.4	Stricture/obstruction of ureter	Genitourinary	0.95	0.89	1.01	0.13	315018	939	314079	FALSE
472	Chronic pharyngitis and nasopharyngitis	Respiratory	1.05	0.99	1.12	0.13	309897	947	308950	FALSE
381.9	Otorrhea	Sense Organs	0.91	0.81	1.03	0.13	324420	277	324143	FALSE
374	Other disorders of eyelids	Sense Organs	0.97	0.94	1.01	0.13	321593	3205	318388	FALSE
411.2	Myocardial infarction	Circulatory System	0.99	0.97	1.00	0.13	307658	11969	295689	FALSE
357	Inflammatory and toxic neuropathy	Neurological	1.04	0.99	1.10	0.13	327375	1423	325952	FALSE
364	Corneal opacity and other disorders of cornea	Sense Organs	1.11	0.97	1.26	0.13	317009	227	316782	FALSE
446.9	Arteritis NOS	Circulatory System	0.91	0.80	1.03	0.13	319605	245	319360	FALSE
477	Epistaxis or throat hemorrhage	Respiratory	0.97	0.93	1.01	0.13	311469	2519	308950	FALSE
858	Complication of internal orthopedic device	Injuries & Poisonings	1.03	0.99	1.06	0.13	317147	3183	313964	FALSE
504	Other alveolar and parietoalveolar pneumonopathy	Respiratory	1.09	0.97	1.22	0.13	316793	309	316484	FALSE

728.71	Contracture of palmar fascia [Dupuytren's disease]	Musculoskeletal	0.97	0.93	1.01	0.13	307403	2449	304954	FALSE
290.2	Delirium due to conditions classified elsewhere	Mental Disorders	0.94	0.88	1.02	0.14	322151	681	321470	FALSE
729	Other disorders of soft tissues	Musculoskeletal	0.99	0.98	1.00	0.14	327478	22524	304954	FALSE
368	Visual disturbances	Sense Organs	1.05	0.99	1.11	0.14	325963	1081	324882	FALSE
450	Noninfectious disorders of lymphatic channels	Circulatory System	0.95	0.88	1.02	0.14	328240	717	327523	FALSE
182	Malignant neoplasm of uterus	Neoplasms	0.96	0.91	1.01	0.14	298948	1303	297645	FALSE
701.4	Keloid scar	Dermatologic	1.10	0.97	1.26	0.14	323292	228	323064	FALSE
614.4	Inflammatory diseases of uterus, except cervix	Genitourinary	0.92	0.82	1.03	0.14	319107	308	318799	FALSE
732	Osteochondropathies	Musculoskeletal	0.91	0.79	1.03	0.14	315651	219	315432	FALSE
382	Otalgia	Sense Organs	0.92	0.82	1.03	0.15	324458	315	324143	FALSE
520.2	Disturbances in tooth eruption	Digestive	1.03	0.99	1.07	0.15	314095	2437	311658	FALSE
497	Bronchitis	Respiratory	0.94	0.87	1.02	0.15	294834	642	294192	FALSE
344	Other paralytic syndromes	Neurological	0.95	0.88	1.02	0.15	286841	689	286152	FALSE
275.1	Disorders of iron metabolism	Hematopoietic	0.95	0.88	1.02	0.15	326735	700	326035	FALSE
262	Mineral deficiency NEC	Endocrine/Metabolic	1.10	0.97	1.25	0.15	326027	241	325786	FALSE
289.4	Lymphadenitis	Hematopoietic	0.97	0.94	1.01	0.15	323033	2715	320318	FALSE
379.5	Disorders of iris and ciliary body	Sense Organs	1.07	0.97	1.18	0.16	288604	412	288192	FALSE
301	Personality disorders	Mental Disorders	1.07	0.97	1.18	0.16	283330	432	282898	FALSE
191.11	Cancer of brain	Neoplasms	0.94	0.86	1.03	0.16	326945	498	326447	FALSE
374.1	Ectropion or entropion	Sense Organs	0.96	0.90	1.02	0.16	319480	1092	318388	FALSE
304	Adjustment reaction	Mental Disorders	1.08	0.97	1.21	0.16	283221	323	282898	FALSE
296.2	Depression	Mental Disorders	1.01	0.99	1.03	0.16	295043	12145	282898	FALSE
433.3	Cerebral ischemia	Circulatory System	0.96	0.90	1.02	0.16	319041	934	318107	FALSE
150	Cancer of esophagus	Neoplasms	0.95	0.88	1.02	0.16	313058	727	312331	FALSE
474.2	Chronic tonsillitis and adenoiditis	Respiratory	1.04	0.98	1.10	0.16	310135	1185	308950	FALSE
965.1	Opiates and related narcotics causing adverse effects in therapeutic use	Injuries & Poisonings	0.96	0.91	1.02	0.16	301372	1161	300211	FALSE
250.42	Other abnormal glucose	Endocrine/Metabolic	1.07	0.97	1.18	0.17	307927	437	307490	FALSE
296	Mood disorders	Mental Disorders	1.01	0.99	1.03	0.17	295853	12955	282898	FALSE
475	Chronic sinusitis	Respiratory	1.03	0.99	1.07	0.17	311580	2630	308950	FALSE
366.2	Senile cataract	Sense Organs	0.98	0.96	1.01	0.17	315842	8458	307384	FALSE
564.1	Irritable Bowel Syndrome	Digestive	1.02	0.99	1.05	0.17	264057	5661	258396	FALSE
241.1	Nontoxic uninodular goiter	Endocrine/Metabolic	0.94	0.86	1.03	0.17	310840	511	310329	FALSE
388	Other disorders of ear	Sense Organs	0.99	0.97	1.01	0.17	328080	9886	318194	FALSE
476	Allergic rhinitis	Respiratory	0.96	0.90	1.02	0.18	310025	1075	308950	FALSE
741.4	Joint effusions	Musculoskeletal	0.92	0.82	1.04	0.18	310925	283	310642	FALSE
306.9	Tension headache	Mental Disorders	1.08	0.97	1.21	0.18	283203	305	282898	FALSE
70.4	Chronic hepatitis	Infectious Diseases	1.08	0.96	1.22	0.18	322496	290	322206	FALSE
324	Other CNS infection and poliomyelitis	Neurological	0.92	0.82	1.04	0.18	327426	288	327138	FALSE

426.32	Left bundle branch block	Circulatory System	0.97	0.92	1.01	0.18	301302	1781	299521	FALSE
605	Erectile dysfunction [ED]	Genitourinary	0.92	0.82	1.04	0.18	308197	291	307906	FALSE
608	Other disorders of male genital organs	Genitourinary	0.99	0.98	1.00	0.18	327998	20092	307906	FALSE
292.2	Mild cognitive impairment	Mental Disorders	1.10	0.96	1.26	0.18	321672	202	321470	FALSE
377	Disorders of optic nerve and visual pathways	Sense Organs	0.94	0.85	1.03	0.18	288628	436	288192	FALSE
441.1	Acute vascular insufficiency of intestine	Circulatory System	1.08	0.96	1.22	0.18	319631	271	319360	FALSE
611.3	Lump or mass in breast	Genitourinary	1.03	0.98	1.09	0.19	322461	1588	320873	FALSE
386.9	Dizziness and giddiness (Light-headedness and vertigo)	Sense Organs	0.98	0.95	1.01	0.19	326388	4739	321649	FALSE
369.5	Conjunctivitis, infectious	Sense Organs	0.92	0.80	1.04	0.19	318612	224	318388	FALSE
426.21	First degree AV block	Circulatory System	0.96	0.90	1.02	0.19	300526	1005	299521	FALSE
204.4	Multiple myeloma	Neoplasms	0.95	0.87	1.03	0.19	324097	574	323523	FALSE
117	Mycoses	Infectious Diseases	0.98	0.94	1.01	0.19	328235	2735	325500	FALSE
191	Malignant and unknown neoplasms of brain and nervous system	Neoplasms	0.92	0.80	1.05	0.19	326662	215	326447	FALSE
747.1	Cardiac congenital anomalies	Congenital Anomalies	1.09	0.95	1.25	0.20	325565	211	325354	FALSE
674	Other complications of the puerperium NEC	Pregnancy Complications	1.08	0.96	1.22	0.20	328015	280	327735	FALSE
960	Poisoning by antibiotics	Injuries & Poisonings	0.98	0.95	1.01	0.20	303739	3528	300211	FALSE
529	Diseases and other conditions of the tongue	Digestive	1.04	0.98	1.11	0.20	323485	951	322534	FALSE
939	Atopic/contact dermatitis due to other or unspecified	Dermatologic	1.03	0.99	1.07	0.20	324060	2154	321906	FALSE
429.2	Abnormal function study of cardiovascular system	Circulatory System	0.95	0.87	1.03	0.20	322577	544	322033	FALSE
433.8	Late effects of cerebrovascular disease	Circulatory System	0.96	0.91	1.02	0.20	319384	1277	318107	FALSE
695.7	Prurigo and Lichen	Dermatologic	0.96	0.89	1.02	0.20	322541	792	321749	FALSE
275.5	Disorders of calcium/phosphorus metabolism	Endocrine/Metabolic	0.96	0.91	1.02	0.20	327144	1109	326035	FALSE
198	Secondary malignant neoplasm	Neoplasms	0.96	0.91	1.02	0.20	230431	1119	229312	FALSE
530.14	Reflux esophagitis	Digestive	1.01	0.99	1.03	0.21	298696	10893	287803	FALSE
430.3	Subdural hemorrhage	Circulatory System	0.93	0.82	1.04	0.21	318378	271	318107	FALSE
204.21	Myeloid leukemia, acute	Neoplasms	1.07	0.96	1.20	0.21	323842	319	323523	FALSE
495	Asthma	Respiratory	0.99	0.98	1.00	0.21	320971	26779	294192	FALSE
430.2	Intracerebral hemorrhage	Circulatory System	0.95	0.89	1.03	0.21	318830	723	318107	FALSE
394.3	Aortic valve disease	Circulatory System	0.97	0.91	1.02	0.21	322836	1308	321528	FALSE
226	Benign neoplasm of thyroid glands	Neoplasms	1.08	0.96	1.22	0.21	326908	266	326642	FALSE
800	Fracture of lower limb	Injuries & Poisonings	1.05	0.97	1.13	0.21	324256	699	323557	FALSE
800.3	Fracture of tibia and fibula	Injuries & Poisonings	1.06	0.97	1.15	0.21	324092	535	323557	FALSE
966	Poisoning by anticonvulsants and anti-Parkinsonism drugs	Injuries & Poisonings	1.06	0.97	1.15	0.22	300747	536	300211	FALSE
596.5	Functional disorders of bladder	Genitourinary	1.03	0.98	1.08	0.22	315318	1682	313636	FALSE
360.2	Progressive myopia	Sense Organs	0.93	0.82	1.05	0.22	317032	250	316782	FALSE
602	Other disorders of prostate	Genitourinary	0.97	0.92	1.02	0.22	308765	1372	307393	FALSE
564.9	Personal history of diseases of digestive system	Digestive	0.99	0.97	1.01	0.22	274320	15924	258396	FALSE
530.2	Esophageal bleeding (varices/hemorrhage)	Digestive	1.03	0.98	1.08	0.22	289525	1722	287803	FALSE

749	Congenital anomalies of face and neck	Congenital Anomalies	0.93	0.82	1.05	0.22	328137	271	327866	FALSE
242	Thyrotoxicosis with or without goiter	Endocrine/Metabolic	0.97	0.92	1.02	0.22	311794	1465	310329	FALSE
751.12	Congenital anomalies of male genital organs	Congenital Anomalies	0.92	0.81	1.05	0.22	326231	228	326003	FALSE
745	Pain in joint	Musculoskeletal	0.97	0.93	1.02	0.22	328240	1940	326300	FALSE
501	Pneumonitis due to inhalation of food or vomitus	Respiratory	0.95	0.88	1.03	0.22	317076	592	316484	FALSE
286.7	Other and unspecified coagulation defects	Hematopoietic	1.06	0.96	1.17	0.23	325902	405	325497	FALSE
276.5	Hypovolemia	Endocrine/Metabolic	0.98	0.94	1.01	0.23	323539	2895	320644	FALSE
962.3	Hormones and synthetic substitutes causing adverse effects in therapeutic use	Injuries & Poisonings	0.94	0.85	1.04	0.23	300575	364	300211	FALSE
627.1	Postmenopausal bleeding	Genitourinary	1.01	0.99	1.03	0.23	305697	9466	296231	FALSE
296.22	Major depressive disorder	Mental Disorders	1.06	0.96	1.18	0.23	283282	384	282898	FALSE
764	Sciatica	Symptoms	0.97	0.91	1.02	0.23	327944	1261	326683	FALSE
803	Fracture of upper limb	Injuries & Poisonings	0.94	0.86	1.04	0.23	323990	433	323557	FALSE
389.4	Tinnitus	Sense Organs	0.95	0.87	1.03	0.23	318735	541	318194	FALSE
250.7	Diabetic retinopathy	Endocrine/Metabolic	1.03	0.98	1.09	0.23	317232	1380	315852	FALSE
345	Epilepsy, recurrent seizures, convulsions	Neurological	0.98	0.95	1.01	0.23	289613	3461	286152	FALSE
722.9	Other and unspecified disc disorder	Musculoskeletal	1.02	0.99	1.05	0.24	314894	3950	310944	FALSE
565	Anal and rectal conditions	Digestive	1.01	0.99	1.04	0.24	255321	8661	246660	FALSE
275.3	Disorders of magnesium metabolism	Endocrine/Metabolic	0.94	0.85	1.04	0.24	326410	375	326035	FALSE
136	Other infectious and parasitic diseases	Infectious Diseases	0.94	0.86	1.04	0.24	327982	428	327554	FALSE
696.42	Psoriatic arthropathy	Dermatologic	0.96	0.89	1.03	0.24	314672	740	313932	FALSE
599.5	Frequency of urination and polyuria	Genitourinary	0.98	0.95	1.01	0.24	224574	4147	220427	FALSE
425.1	Primary/intrinsic cardiomyopathies	Circulatory System	0.96	0.91	1.02	0.24	326036	1053	324983	FALSE
386.3	Labyrinthitis	Sense Organs	1.04	0.97	1.12	0.24	322440	791	321649	FALSE
300.13	Phobia	Mental Disorders	0.95	0.87	1.04	0.25	283412	514	282898	FALSE
967	Adverse effects of sedatives or other central nervous system depressants and anesthetics	Injuries & Poisonings	0.95	0.88	1.03	0.25	300790	579	300211	FALSE
276.11	Hyperosmolality and/or hypernatremia	Endocrine/Metabolic	1.08	0.95	1.22	0.25	320891	247	320644	FALSE
965.2	Antirheumatics causing adverse effects in therapeutic use	Injuries & Poisonings	1.05	0.96	1.15	0.25	300710	499	300211	FALSE
594	Urinary calculus	Genitourinary	0.99	0.96	1.01	0.25	326897	6966	319931	FALSE
250.41	Impaired fasting glucose	Endocrine/Metabolic	1.07	0.95	1.21	0.25	307758	268	307490	FALSE
380.1	Otitis externa	Sense Organs	0.95	0.87	1.04	0.25	327284	532	326752	FALSE
306	Other mental disorder	Mental Disorders	0.99	0.98	1.01	0.25	312303	29405	282898	FALSE
41	Bacterial infection NOS	Infectious Diseases	1.01	0.99	1.03	0.25	323384	10752	312632	FALSE
276.13	Hyperpotassemia	Endocrine/Metabolic	1.04	0.97	1.10	0.25	321623	979	320644	FALSE
333.1	Essential tremor	Neurological	1.08	0.95	1.24	0.26	286370	218	286152	FALSE
571	Chronic liver disease and cirrhosis	Digestive	1.05	0.96	1.14	0.26	318871	540	318331	FALSE
599.4	Urinary incontinence	Genitourinary	0.99	0.97	1.01	0.26	229423	8996	220427	FALSE
420.3	Endocarditis	Circulatory System	0.96	0.89	1.03	0.26	325668	685	324983	FALSE
686.3	Pilonidal cyst	Dermatologic	1.05	0.97	1.13	0.26	317024	617	316407	FALSE

451	Phlebitis and thrombophlebitis	Circulatory System	0.94	0.86	1.04	0.26	288110	397	287713	FALSE
521.1	Dental caries	Digestive	1.02	0.99	1.06	0.26	314912	3254	311658	FALSE
695.9	Unspecified erythematous condition	Dermatologic	1.05	0.96	1.15	0.26	322226	477	321749	FALSE
198.2	Secondary malignancy of respiratory organs	Neoplasms	1.02	0.98	1.07	0.26	231589	2277	229312	FALSE
530.7	Gastroesophageal laceration-hemorrhage syndrome	Digestive	1.06	0.95	1.19	0.26	288136	333	287803	FALSE
785	Abdominal pain	Symptoms	1.01	1.00	1.02	0.26	328240	42311	285929	FALSE
604.1	Redundant prepuce and phimosis/BXO	Genitourinary	0.98	0.94	1.02	0.26	310716	2810	307906	FALSE
597.1	Urethral stricture (not specified as infectious)	Genitourinary	0.98	0.95	1.01	0.26	317079	3443	313636	FALSE
743.9	Osteopenia or other disorder of bone and cartilage	Musculoskeletal	1.02	0.99	1.05	0.26	328188	3989	324199	FALSE
618.6	Vaginal enterocele, congenital or acquired	Genitourinary	1.04	0.97	1.13	0.26	316909	667	316242	FALSE
174.1	Breast cancer [female]	Neoplasms	0.98	0.94	1.02	0.27	306711	2287	304424	FALSE
531	Peptic ulcer (excl. esophageal)	Digestive	0.94	0.83	1.05	0.27	320833	284	320549	FALSE
495.2	Asthma with exacerbation	Respiratory	1.07	0.95	1.21	0.27	294453	261	294192	FALSE
561	Symptoms involving digestive system	Digestive	1.01	0.99	1.03	0.27	272941	14545	258396	FALSE
717	Polymyalgia Rheumatica	Musculoskeletal	0.97	0.91	1.03	0.27	328240	1147	327093	FALSE
969	Poisoning by psychotropic agents	Injuries & Poisonings	1.03	0.98	1.07	0.27	302207	1996	300211	FALSE
740.1	Osteoarthritis; localized	Musculoskeletal	0.99	0.97	1.01	0.27	315797	9472	306325	FALSE
362	Other retinal disorders	Sense Organs	1.04	0.97	1.10	0.27	316825	973	315852	FALSE
689	Disorder of skin and subcutaneous tissue NOS	Dermatologic	1.01	1.00	1.02	0.27	328240	42194	286046	FALSE
715	Other inflammatory spondylopathies	Musculoskeletal	0.94	0.83	1.05	0.28	317524	271	317253	FALSE
447.1	Stricture of artery	Circulatory System	0.96	0.90	1.03	0.28	320246	886	319360	FALSE
870.1	Open wound or laceration of eye or eyelid	Injuries & Poisonings	0.94	0.83	1.05	0.28	320012	281	319731	FALSE
788	Syncope and collapse	Symptoms	0.99	0.97	1.01	0.28	328240	9372	318868	FALSE
348.9	Other conditions of brain, NOS	Neurological	0.95	0.86	1.04	0.28	286559	407	286152	FALSE
622.2	Mucous polyp of cervix	Genitourinary	1.02	0.98	1.05	0.28	318829	3522	315307	FALSE
740.11	Osteoarthrosis, localized, primary	Musculoskeletal	1.01	0.99	1.03	0.29	315552	9227	306325	FALSE
720	Spinal stenosis	Musculoskeletal	1.04	0.97	1.12	0.29	311636	692	310944	FALSE
145.2	Cancer of tongue	Neoplasms	1.06	0.95	1.18	0.29	326366	325	326041	FALSE
610.8	Other specified benign mammary dysplasias	Genitourinary	0.96	0.89	1.03	0.29	321576	703	320873	FALSE
381.11	Suppurative and unspecified otitis media	Sense Organs	0.96	0.90	1.03	0.29	324993	850	324143	FALSE
508	Pulmonary collapse; interstitial and compensatory emphysema	Respiratory	0.98	0.94	1.02	0.29	318570	2086	316484	FALSE
41.2	Streptococcus infection	Infectious Diseases	0.97	0.93	1.02	0.29	314280	1648	312632	FALSE
701.5	Abnormal granulation tissue	Dermatologic	0.95	0.87	1.04	0.29	323543	479	323064	FALSE
333	Extrapyramidal disease and abnormal movement disorders	Neurological	1.02	0.98	1.07	0.29	288187	2035	286152	FALSE
383	Otosclerosis	Sense Organs	0.94	0.85	1.05	0.29	324473	330	324143	FALSE
573	Other disorders of liver	Digestive	1.01	0.99	1.04	0.29	323533	5202	318331	FALSE
70	Viral hepatitis	Infectious Diseases	0.96	0.89	1.03	0.30	322928	722	322206	FALSE
523.32	Chronic periodontitis	Digestive	0.96	0.88	1.04	0.30	312248	590	311658	FALSE

185	Cancer of prostate	Neoplasms	0.99	0.97	1.01	0.30	315856	8463	307393	FALSE
627.3	Postmenopausal atrophic vaginitis	Genitourinary	1.03	0.97	1.09	0.30	297359	1128	296231	FALSE
345.1	Epilepsy	Neurological	0.94	0.85	1.05	0.30	286483	331	286152	FALSE
619.5	Noninflammatory disorders of vulva and perineum	Genitourinary	0.97	0.92	1.03	0.30	279927	1379	278548	FALSE
337	Disorders of the autonomic nervous system	Neurological	0.93	0.81	1.07	0.30	286359	207	286152	FALSE
389.2	Conductive hearing loss	Sense Organs	1.05	0.96	1.16	0.31	318629	435	318194	FALSE
197	Chemotherapy	Neoplasms	0.99	0.98	1.01	0.31	251774	22462	229312	FALSE
726.3	Bursitis	Musculoskeletal	0.96	0.88	1.04	0.31	305497	543	304954	FALSE
789	Nausea and vomiting	Symptoms	0.99	0.97	1.01	0.31	328240	11983	316257	FALSE
530.3	Stricture and stenosis of esophagus	Digestive	1.02	0.98	1.07	0.31	289757	1954	287803	FALSE
285.22	Anemia in neoplastic disease	Hematopoietic	0.95	0.87	1.05	0.31	309337	437	308900	FALSE
522.5	Periapical abscess	Digestive	1.03	0.97	1.09	0.31	312904	1246	311658	FALSE
577.2	Chronic pancreatitis	Digestive	1.04	0.96	1.14	0.32	326456	536	325920	FALSE
523	Gingival and periodontal diseases	Digestive	0.96	0.88	1.04	0.32	312187	529	311658	FALSE
427.11	Paroxysmal supraventricular tachycardia	Circulatory System	0.98	0.94	1.02	0.32	301952	2431	299521	FALSE
496	Chronic airway obstruction	Respiratory	0.99	0.97	1.01	0.32	301827	7635	294192	FALSE
585.3	Chronic renal failure [CKD]	Genitourinary	0.98	0.94	1.02	0.32	316664	2585	314079	FALSE
428.2	Heart failure NOS	Circulatory System	0.99	0.96	1.02	0.33	326367	4334	322033	FALSE
8.6	Viral Enteritis	Infectious Diseases	0.97	0.90	1.03	0.33	319924	845	319079	FALSE
751.22	Other specified congenital anomalies of kidney	Congenital Anomalies	1.05	0.95	1.17	0.33	326353	350	326003	FALSE
614.3	Pelvic inflammatory disease (PID)	Genitourinary	1.06	0.94	1.21	0.33	319048	249	318799	FALSE
614.1	Pelvic peritoneal adhesions, female (postoperative) (postinfection)	Genitourinary	1.02	0.98	1.06	0.33	321370	2571	318799	FALSE
569	Other disorders of intestine	Digestive	1.00	0.99	1.00	0.34	326148	79488	246660	FALSE
572	Ascites (non malignant)	Digestive	1.02	0.98	1.08	0.34	319925	1594	318331	FALSE
714.1	Rheumatoid arthritis	Musculoskeletal	1.02	0.98	1.06	0.34	319560	2307	317253	FALSE
613	Other nonmalignant breast conditions	Genitourinary	1.05	0.95	1.17	0.34	322786	368	322418	FALSE
603.1	Hydrocele	Genitourinary	0.97	0.92	1.03	0.34	309308	1402	307906	FALSE
433.2	Occlusion of cerebral arteries	Circulatory System	1.02	0.98	1.06	0.34	321087	2980	318107	FALSE
519.9	Symptoms involving respiratory system and other chest symptoms	Respiratory	0.95	0.85	1.06	0.34	265755	308	265447	FALSE
345.3	Convulsions	Neurological	1.02	0.98	1.06	0.35	288463	2311	286152	FALSE
214	Lipoma	Neoplasms	1.02	0.98	1.07	0.35	322495	1819	320676	FALSE
348.7	Coma	Neurological	0.95	0.86	1.05	0.35	286531	379	286152	FALSE
696.4	Psoriasis	Dermatologic	0.98	0.93	1.03	0.35	315554	1622	313932	FALSE
372	Disorders of conjunctiva	Sense Organs	0.97	0.91	1.03	0.35	319431	1043	318388	FALSE
289.5	Diseases of spleen	Hematopoietic	1.04	0.96	1.13	0.35	320846	528	320318	FALSE
707	Chronic ulcer of skin	Dermatologic	0.97	0.92	1.03	0.35	327959	1260	326699	FALSE
550.1	Inguinal hernia	Digestive	1.01	0.99	1.02	0.35	296174	16385	279789	FALSE
574	Cholelithiasis and cholecystitis	Digestive	0.95	0.86	1.05	0.35	310726	403	310323	FALSE

480	Pneumonia	Respiratory	0.99	0.95	1.02	0.35	321603	3914	317689	FALSE
614.33	Pelvic inflammatory disease, NOS	Genitourinary	1.01	0.99	1.04	0.35	324944	6145	318799	FALSE
204.12	Lymphoid leukemia, chronic	Neoplasms	1.04	0.95	1.14	0.35	324030	507	323523	FALSE
759	Other and unspecified congenital anomalies	Congenital Anomalies	0.97	0.90	1.04	0.36	327249	679	326570	FALSE
626.12	Excessive or frequent menstruation	Genitourinary	1.01	0.99	1.03	0.36	306272	10041	296231	FALSE
367.1	Myopia	Sense Organs	0.97	0.92	1.03	0.36	327025	1271	325754	FALSE
216	Benign neoplasm of skin	Neoplasms	1.01	0.99	1.03	0.36	327614	7865	319749	FALSE
741	Symptoms and disorders of the joints	Musculoskeletal	0.99	0.98	1.01	0.36	327531	16889	310642	FALSE
612.2	Hypertrophy of breast (Gynecomastia)	Genitourinary	1.03	0.96	1.10	0.36	321732	859	320873	FALSE
695.42	Systemic lupus erythematosus	Dermatologic	0.95	0.86	1.06	0.36	320784	363	320421	FALSE
627.4	Premenopausal menorrhagia	Genitourinary	0.95	0.85	1.06	0.36	296563	332	296231	FALSE
38	Septicemia	Infectious Diseases	1.02	0.98	1.05	0.36	315677	3045	312632	FALSE
626.14	Irregular menstrual bleeding	Genitourinary	1.01	0.98	1.05	0.36	300177	3946	296231	FALSE
624.9	stress incontinence, female	Genitourinary	0.99	0.96	1.01	0.37	324769	6100	318669	FALSE
530.11	GERD	Digestive	0.99	0.98	1.01	0.37	302292	14489	287803	FALSE
535.2	Atrophic gastritis	Digestive	1.05	0.95	1.16	0.37	296869	358	296511	FALSE
809	Fracture of unspecified bones	Injuries & Poisonings	0.96	0.87	1.05	0.37	323967	410	323557	FALSE
394	Rheumatic disease of the heart valves	Circulatory System	0.97	0.91	1.04	0.37	322471	943	321528	FALSE
525	Other diseases of the teeth and supporting structures	Digestive	1.02	0.98	1.06	0.37	314357	2699	311658	FALSE
599.2	Retention of urine	Genitourinary	0.99	0.97	1.01	0.37	227284	6857	220427	FALSE
250.11	Type 1 diabetes with ketoacidosis	Endocrine/Metabolic	0.95	0.84	1.07	0.37	307745	255	307490	FALSE
696.41	Psoriasis vulgaris	Dermatologic	0.98	0.93	1.03	0.37	315655	1723	313932	FALSE
378.1	Strabismus (not specified as paralytic)	Sense Organs	0.97	0.91	1.04	0.37	289139	947	288192	FALSE
530	Diseases of esophagus	Digestive	0.97	0.90	1.04	0.37	288604	801	287803	FALSE
681.1	Cellulitis and abscess of fingers/toes	Dermatologic	0.96	0.89	1.05	0.38	316989	582	316407	FALSE
614.53	Cyst or abscess of Bartholin's gland	Genitourinary	1.03	0.96	1.11	0.38	319602	803	318799	FALSE
285.1	Acute posthemorrhagic anemia	Hematopoietic	0.95	0.84	1.07	0.38	309167	267	308900	FALSE
440	Atherosclerosis	Circulatory System	1.06	0.93	1.22	0.38	319564	204	319360	FALSE
870.3	Other open wound of head and face	Injuries & Poisonings	1.02	0.98	1.05	0.38	322782	3051	319731	FALSE
496.21	Obstructive chronic bronchitis	Respiratory	0.98	0.95	1.02	0.38	296921	2729	294192	FALSE
726.2	Synoviopathy	Musculoskeletal	0.95	0.86	1.06	0.38	305285	331	304954	FALSE
598	Abnormal findings on examination of urine	Genitourinary	0.99	0.95	1.02	0.38	328240	3386	324854	FALSE
626.2	Dysmenorrhea	Genitourinary	0.98	0.93	1.03	0.39	297910	1679	296231	FALSE
614.5	Inflammatory disease of cervix, vagina, and vulva	Genitourinary	0.95	0.86	1.06	0.39	319133	334	318799	FALSE
618.1	Prolapse of vaginal walls	Genitourinary	0.99	0.97	1.01	0.39	323726	7484	316242	FALSE
418	Nonspecific chest pain	Circulatory System	0.99	0.98	1.01	0.39	326032	30212	295820	FALSE
202.2	Non-Hodgkins lymphoma	Neoplasms	0.99	0.95	1.02	0.39	327055	3532	323523	FALSE
599.9	Other abnormality of urination	Genitourinary	0.98	0.94	1.03	0.39	222371	1944	220427	FALSE

601.1	Prostatitis	Genitourinary	1.03	0.96	1.12	0.40	308058	665	307393	FALSE
681.7	Cellulitis and abscess of trunk	Dermatologic	0.97	0.89	1.05	0.40	317030	623	316407	FALSE
426.91	Cardiac pacemaker in situ	Circulatory System	0.98	0.94	1.02	0.40	301837	2316	299521	FALSE
575.2	Obstruction of bile duct	Digestive	0.97	0.91	1.04	0.40	311135	812	310323	FALSE
736.2	Acquired deformities of finger	Musculoskeletal	0.95	0.84	1.07	0.40	316940	253	316687	FALSE
451.2	Phlebitis and thrombophlebitis of lower extremities	Circulatory System	0.99	0.95	1.02	0.41	291357	3644	287713	FALSE
528.7	Sialolithiasis	Digestive	1.05	0.94	1.17	0.41	322847	313	322534	FALSE
567	Peritonitis and retroperitoneal infections	Digestive	0.97	0.91	1.04	0.41	247550	890	246660	FALSE
706	Diseases of sebaceous glands	Dermatologic	1.04	0.95	1.12	0.41	318889	595	318294	FALSE
187.1	Malignant neoplasm of unspecified male genital organ	Neoplasms	0.99	0.97	1.01	0.41	327699	8481	319218	FALSE
938.2	Chronic dermatitis due to solar radiation	Injuries & Poisonings	0.95	0.84	1.07	0.41	322170	264	321906	FALSE
300	Anxiety, phobic and dissociative disorders	Mental Disorders	0.96	0.86	1.06	0.41	283261	363	282898	FALSE
574.3	Cholecystitis without cholelithiasis	Digestive	0.98	0.95	1.02	0.42	313141	2818	310323	FALSE
411.1	Unstable angina (intermediate coronary syndrome)	Circulatory System	0.99	0.96	1.02	0.42	301011	5322	295689	FALSE
365	Glaucoma	Sense Organs	0.99	0.96	1.02	0.42	321340	4558	316782	FALSE
38.2	Gram positive septicemia	Infectious Diseases	1.04	0.95	1.13	0.42	313123	491	312632	FALSE
250.6	Polyneuropathy in diabetes	Endocrine/Metabolic	1.04	0.94	1.15	0.42	307871	381	307490	FALSE
215	Other benign neoplasm of connective and other soft tissue	Neoplasms	0.98	0.92	1.04	0.42	321804	1128	320676	FALSE
427.7	Tachycardia NOS	Circulatory System	0.98	0.94	1.02	0.42	301787	2266	299521	FALSE
379.2	Disorders of vitreous body	Sense Organs	0.98	0.93	1.03	0.42	289599	1407	288192	FALSE
300.1	Anxiety disorder	Mental Disorders	0.99	0.96	1.02	0.42	288368	5470	282898	FALSE
252.1	Hyperparathyroidism	Endocrine/Metabolic	1.03	0.96	1.10	0.43	325359	814	324545	FALSE
195.1	Malignant neoplasm, other	Neoplasms	1.00	0.99	1.00	0.43	320138	90826	229312	FALSE
801	Fracture of ankle and foot	Injuries & Poisonings	0.95	0.84	1.08	0.43	323808	251	323557	FALSE
735	Acquired foot deformities	Musculoskeletal	0.95	0.85	1.07	0.43	316986	299	316687	FALSE
591	Urinary tract infection	Genitourinary	1.01	0.99	1.03	0.43	309711	12676	297035	FALSE
946	Anaphylactic shock NOS	Injuries & Poisonings	0.97	0.89	1.05	0.43	322450	544	321906	FALSE
385.5	Tympanosclerosis and middle ear disease related to otitis media	Sense Organs	0.95	0.84	1.08	0.43	324379	236	324143	FALSE
516.1	Hemoptysis	Respiratory	1.02	0.97	1.06	0.43	328154	2103	326051	FALSE
550.2	Diaphragmatic hernia	Digestive	1.00	0.98	1.01	0.43	307453	27664	279789	FALSE
455	Hemorrhoids	Circulatory System	1.01	0.99	1.02	0.43	312410	24697	287713	FALSE
210	Benign neoplasm of lip, oral cavity, and pharynx	Neoplasms	1.03	0.96	1.09	0.43	327034	993	326041	FALSE
227.2	Benign neoplasm of parathyroid gland	Neoplasms	1.04	0.94	1.15	0.44	327032	390	326642	FALSE
965	Poisoning by analgesics, antipyretics, and antirheumatics	Injuries & Poisonings	0.99	0.97	1.02	0.44	306293	6082	300211	FALSE
389	Hearing loss	Sense Organs	0.99	0.95	1.02	0.44	321364	3170	318194	FALSE
415	Pulmonary heart disease	Circulatory System	1.01	0.98	1.05	0.44	325300	3753	321547	FALSE
281.11	Pernicious anemia	Hematopoietic	0.97	0.90	1.04	0.44	309650	750	308900	FALSE
212	Benign neoplasm of respiratory and intrathoracic organs	Neoplasms	0.96	0.87	1.07	0.44	328240	355	327885	FALSE

619.4	Noninflammatory disorders of vagina	Genitourinary	1.02	0.97	1.07	0.44	280328	1780	278548	FALSE
618	Genital prolapse	Genitourinary	0.97	0.90	1.05	0.44	316862	620	316242	FALSE
458.2	Iatrogenic hypotension	Circulatory System	0.95	0.84	1.08	0.45	194417	238	194179	FALSE
578.2	Blood in stool	Digestive	1.01	0.98	1.05	0.45	306143	2749	303394	FALSE
228	Hemangioma and lymphangioma, any site	Neoplasms	1.02	0.97	1.07	0.45	328240	1635	326605	FALSE
636.2	Early onset of delivery	Pregnancy Complications	1.03	0.95	1.12	0.45	320594	629	319965	FALSE
859	Complication due to other implant and internal device	Injuries & Poisonings	1.01	0.98	1.05	0.45	317302	3338	313964	FALSE
531.3	Duodenal ulcer	Digestive	0.99	0.95	1.02	0.45	323644	3095	320549	FALSE
386	Vertiginous syndromes and other disorders of vestibular system	Sense Organs	1.02	0.97	1.06	0.45	323761	2112	321649	FALSE
994.2	Sepsis	Injuries & Poisonings	1.01	0.98	1.05	0.45	328240	2885	325355	FALSE
427.4	Cardiac arrest and ventricular fibrillation	Circulatory System	0.96	0.86	1.07	0.45	299869	348	299521	FALSE
351	Other peripheral nerve disorders	Neurological	0.99	0.98	1.01	0.45	325903	12892	313011	FALSE
614.51	Cervicitis and endocervicitis	Genitourinary	1.02	0.97	1.08	0.45	320048	1249	318799	FALSE
559	Ileostomy status	Digestive	0.98	0.94	1.03	0.45	260069	1673	258396	FALSE
290	Delirium dementia and amnestic and other cognitive disorders	Mental Disorders	1.04	0.95	1.13	0.45	321950	480	321470	FALSE
290.1	Dementias	Mental Disorders	1.03	0.95	1.11	0.45	322121	651	321470	FALSE
603	Other disorders of testis	Genitourinary	0.98	0.92	1.04	0.45	308895	989	307906	FALSE
560.4	Other intestinal obstruction	Digestive	0.99	0.95	1.02	0.46	261839	3443	258396	FALSE
323	Encephalitis	Neurological	1.03	0.96	1.10	0.46	327999	861	327138	FALSE
496.2	Chronic bronchitis	Respiratory	1.04	0.93	1.17	0.46	294485	293	294192	FALSE
781	Symptoms involving nervous and musculoskeletal systems	Symptoms	0.99	0.98	1.01	0.46	328238	22180	306058	FALSE
359.2	Myopathy	Neurological	1.03	0.95	1.13	0.46	326450	498	325952	FALSE
274.1	Gout	Endocrine/Metabolic	0.98	0.94	1.03	0.46	327930	1668	326262	FALSE
389.1	Sensorineural hearing loss	Sense Organs	1.04	0.94	1.13	0.46	318658	464	318194	FALSE
560.2	Impaction of intestine	Digestive	0.96	0.85	1.08	0.46	258667	271	258396	FALSE
189.2	Cancer of bladder	Neoplasms	0.97	0.91	1.04	0.46	324798	836	323962	FALSE
565.1	Anal and rectal polyp	Digestive	0.99	0.97	1.01	0.46	254329	7669	246660	FALSE
742.9	Other derangement of joint	Musculoskeletal	1.04	0.94	1.15	0.46	311042	400	310642	FALSE
353	Nerve root and plexus disorders	Neurological	0.98	0.92	1.04	0.46	314005	994	313011	FALSE
274.21	Chondrocalcinosis	Endocrine/Metabolic	0.96	0.85	1.07	0.47	326552	290	326262	FALSE
292.3	Memory loss	Mental Disorders	1.03	0.96	1.10	0.47	322208	738	321470	FALSE
165.1	Cancer of bronchus; lung	Neoplasms	1.02	0.97	1.06	0.47	327450	2181	325269	FALSE
379.3	Aphakia and other disorders of lens	Sense Organs	0.99	0.98	1.01	0.47	308920	20728	288192	FALSE
610	Benign mammary dysplasias	Genitourinary	1.05	0.92	1.21	0.47	321081	208	320873	FALSE
727.4	Ganglion and cyst of synovium, tendon, and bursa	Musculoskeletal	0.99	0.95	1.02	0.47	307936	2982	304954	FALSE
642	Hypertension complicating pregnancy, childbirth, and the puerperium	Pregnancy Complications	0.98	0.92	1.04	0.47	328039	989	327050	FALSE
54	Herpes simplex	Infectious Diseases	0.95	0.83	1.09	0.47	322425	219	322206	FALSE
519	Other diseases of respiratory system, not elsewhere classified	Respiratory	1.00	0.99	1.01	0.47	327615	62168	265447	FALSE

550.5	Ventral hernia	Digestive	0.99	0.96	1.02	0.47	283371	3582	279789	FALSE
276.14	Hypopotassemia	Endocrine/Metabolic	0.98	0.93	1.03	0.47	322115	1471	320644	FALSE
285	Other anemias	Hematopoietic	1.01	0.99	1.03	0.47	320744	11844	308900	FALSE
184.2	Cancer of other female genital organs	Neoplasms	1.04	0.93	1.16	0.48	305876	323	305553	FALSE
695.3	Rosacea	Dermatologic	0.96	0.86	1.07	0.48	322068	319	321749	FALSE
198.3	Secondary malignant neoplasm of digestive systems	Neoplasms	0.98	0.93	1.03	0.48	230877	1565	229312	FALSE
614	Inflammatory diseases of female pelvic organs	Genitourinary	1.04	0.94	1.15	0.48	319173	374	318799	FALSE
70.9	Hepatitis NOS	Infectious Diseases	1.03	0.94	1.13	0.48	322658	452	322206	FALSE
686.4	Pyogenic granuloma	Dermatologic	0.96	0.87	1.07	0.48	316787	380	316407	FALSE
170.2	Cancer of connective tissue	Neoplasms	1.03	0.95	1.10	0.48	328122	734	327388	FALSE
420.21	Acute pericarditis	Circulatory System	0.95	0.84	1.09	0.48	325211	228	324983	FALSE
771.1	Swelling of limb	Symptoms	0.98	0.91	1.04	0.49	327356	842	326514	FALSE
571.81	Portal hypertension	Digestive	1.03	0.95	1.12	0.49	318900	569	318331	FALSE
293.1	Swelling, mass, or lump in head and neck [Space-occupying lesion, intracranial NOS]	Mental Disorders	0.98	0.92	1.04	0.49	326044	925	325119	FALSE
512.7	Shortness of breath	Respiratory	0.99	0.97	1.02	0.49	320384	6116	314268	FALSE
500.2	Pneumoconiosis	Respiratory	0.98	0.92	1.04	0.49	317485	1001	316484	FALSE
626.13	Irregular menstrual cycle	Genitourinary	1.02	0.97	1.06	0.49	298189	1958	296231	FALSE
550	Abdominal hernia	Digestive	1.00	0.99	1.01	0.49	328240	48451	279789	FALSE
594.3	Calculus of ureter	Genitourinary	1.01	0.97	1.05	0.50	322471	2540	319931	FALSE
577.3	Cyst and pseudocyst of pancreas	Digestive	1.04	0.94	1.15	0.50	326295	375	325920	FALSE
339	Other headache syndromes	Neurological	1.01	0.99	1.03	0.50	325888	7938	317950	FALSE
805	Fracture of vertebral column without mention of spinal cord injury	Injuries & Poisonings	0.96	0.87	1.07	0.50	323890	333	323557	FALSE
433.21	Cerebral artery occlusion, with cerebral infarction	Circulatory System	1.02	0.97	1.07	0.50	319641	1534	318107	FALSE
8.52	Intestinal infection due to C. difficile	Infectious Diseases	0.97	0.90	1.05	0.50	319727	648	319079	FALSE
429.3	Symptoms involving cardiovascular system	Circulatory System	0.95	0.83	1.09	0.50	322241	208	322033	FALSE
379	Other disorders of eye	Sense Organs	1.00	0.99	1.01	0.51	328190	39998	288192	FALSE
535.8	Other specified gastritis	Digestive	0.99	0.97	1.01	0.51	304926	8415	296511	FALSE
327	Sleep disorders	Neurological	0.98	0.92	1.04	0.51	323754	1034	322720	FALSE
519.2	Respiratory complications	Respiratory	1.04	0.93	1.17	0.51	265743	296	265447	FALSE
426.23	Second degree AV block	Circulatory System	0.97	0.88	1.06	0.51	299982	461	299521	FALSE
79	Viral infection	Infectious Diseases	0.99	0.96	1.02	0.51	326439	4233	322206	FALSE
338.1	Acute pain	Neurological	0.97	0.88	1.07	0.51	327846	420	327426	FALSE
872	Traumatic amputation	Injuries & Poisonings	1.03	0.94	1.13	0.51	320213	482	319731	FALSE
590	Pyelonephritis	Genitourinary	0.99	0.96	1.02	0.51	300960	3925	297035	FALSE
375.2	Epiphora	Sense Organs	0.98	0.92	1.04	0.52	289094	902	288192	FALSE
165	Cancer within the respiratory system	Neoplasms	1.01	0.98	1.05	0.52	328223	2954	325269	FALSE
571.8	Liver abscess and sequelae of chronic liver disease	Digestive	0.97	0.90	1.06	0.52	318904	573	318331	FALSE
172.11	Melanomas of skin	Neoplasms	0.99	0.95	1.03	0.52	316943	2723	314220	FALSE

470	Septal Deviations/Turbinate Hypertrophy	Respiratory	0.99	0.96	1.02	0.52	313771	4821	308950	FALSE
172.2	Other non-epithelial cancer of skin	Neoplasms	0.99	0.98	1.01	0.52	325462	11242	314220	FALSE
790.6	Other abnormal blood chemistry	Symptoms	0.99	0.97	1.02	0.52	328029	6529	321500	FALSE
958	Certain early complications of trauma or procedure	Injuries & Poisonings	0.97	0.88	1.07	0.52	328118	381	327737	FALSE
798.1	Chronic fatigue syndrome	Symptoms	0.97	0.90	1.06	0.52	325335	606	324729	FALSE
433.1	Occlusion and stenosis of precerebral arteries	Circulatory System	1.02	0.96	1.08	0.52	319149	1042	318107	FALSE
245.21	Chronic lymphocytic thyroiditis	Endocrine/Metabolic	1.04	0.91	1.19	0.52	310548	219	310329	FALSE
286.12	Congenital deficiency of other clotting factors (including factor VII)	Hematopoietic	1.04	0.93	1.16	0.52	325800	303	325497	FALSE
241.2	Nontoxic multinodular goiter	Endocrine/Metabolic	0.98	0.91	1.05	0.53	311043	714	310329	FALSE
722.1	Displacement of intervertebral disc	Musculoskeletal	1.03	0.94	1.12	0.53	311460	516	310944	FALSE
496.1	Emphysema	Respiratory	0.98	0.94	1.03	0.53	295918	1726	294192	FALSE
433.31	Transient cerebral ischemia	Circulatory System	1.01	0.97	1.06	0.53	320281	2174	318107	FALSE
276.6	Fluid overload	Endocrine/Metabolic	0.97	0.89	1.06	0.53	321117	473	320644	FALSE
350.2	Abnormality of gait	Neurological	1.02	0.97	1.07	0.53	327077	1633	325444	FALSE
427.41	Ventricular fibrillation and flutter	Circulatory System	0.97	0.87	1.07	0.53	299866	345	299521	FALSE
281	Other deficiency anemia	Hematopoietic	0.99	0.97	1.01	0.53	317687	8787	308900	FALSE
281.13	Folate-deficiency anemia	Hematopoietic	0.96	0.83	1.10	0.54	309101	201	308900	FALSE
444	Arterial embolism and thrombosis	Circulatory System	0.97	0.88	1.07	0.54	319794	434	319360	FALSE
535.1	Acute gastritis	Digestive	0.98	0.93	1.04	0.54	297704	1193	296511	FALSE
557	Intestinal malabsorption (non-celiac)	Digestive	1.04	0.92	1.16	0.54	258690	294	258396	FALSE
480.11	Pneumococcal pneumonia	Respiratory	0.99	0.97	1.02	0.54	323680	5991	317689	FALSE
503	Pulmonary congestion and hypostasis	Respiratory	1.03	0.94	1.13	0.54	316959	475	316484	FALSE
716.2	Unspecified monoarthritis	Musculoskeletal	0.99	0.98	1.01	0.54	289797	15901	273896	FALSE
573.5	Jaundice (not of newborn)	Digestive	1.02	0.96	1.09	0.54	319269	938	318331	FALSE
427.8	Sinoatrial node dysfunction (Bradycardia)	Circulatory System	0.97	0.88	1.07	0.54	299940	419	299521	FALSE
735.3	Hallux valgus (Bunion)	Musculoskeletal	0.99	0.97	1.02	0.54	323592	6905	316687	FALSE
420.2	Pericarditis	Circulatory System	1.02	0.96	1.08	0.54	326070	1087	324983	FALSE
447	Other disorders of arteries and arterioles	Circulatory System	0.97	0.90	1.06	0.54	319916	556	319360	FALSE
751.11	Congenital anomalies of female genital organs	Congenital Anomalies	1.03	0.94	1.13	0.54	326445	442	326003	FALSE
703.1	Ingrowing nail	Dermatologic	1.02	0.96	1.08	0.54	322439	1010	321429	FALSE
440.9	Atherosclerosis of aorta	Circulatory System	1.04	0.91	1.20	0.55	319562	202	319360	FALSE
255.21	Glucocorticoid deficiency	Endocrine/Metabolic	1.03	0.93	1.14	0.55	324917	372	324545	FALSE
593	Hematuria	Genitourinary	1.00	0.99	1.02	0.55	313795	16760	297035	FALSE
610.3	Fibrosclerosis of breast	Genitourinary	0.97	0.86	1.08	0.55	321176	303	320873	FALSE
320	Meningitis	Neurological	1.03	0.94	1.13	0.55	327577	439	327138	FALSE
594.8	Renal colic	Genitourinary	0.99	0.95	1.03	0.55	322062	2131	319931	FALSE
514	Abnormal findings examination of lungs	Respiratory	0.99	0.95	1.03	0.56	328212	2577	325635	FALSE
600	Hyperplasia of prostate	Genitourinary	0.99	0.98	1.01	0.56	318965	11572	307393	FALSE

479	Other upper respiratory disease	Respiratory	1.00	0.99	1.02	0.56	324241	15291	308950	FALSE
540	Appendiceal conditions	Digestive	0.99	0.96	1.02	0.56	328240	3861	324379	FALSE
636	Early or threatened labor; hemorrhage in early pregnancy	Pregnancy Complications	0.98	0.93	1.04	0.56	321227	1262	319965	FALSE
941	Adverse reaction to serum or vaccine	Injuries & Poisonings	1.04	0.91	1.19	0.56	322128	222	321906	FALSE
290.11	Alzheimer's disease	Mental Disorders	1.03	0.93	1.14	0.57	321872	402	321470	FALSE
430.1	Subarachnoid hemorrhage	Circulatory System	0.98	0.92	1.05	0.57	318931	824	318107	FALSE
726.1	Enthesopathy	Musculoskeletal	0.99	0.97	1.02	0.57	311657	6703	304954	FALSE
149.1	Cancer of oropharynx	Neoplasms	1.04	0.92	1.17	0.57	326297	256	326041	FALSE
556	Ulceration of the lower GI tract	Digestive	0.97	0.89	1.07	0.57	258836	440	258396	FALSE
213	Benign neoplasm of bone and articular cartilage	Neoplasms	0.97	0.87	1.08	0.57	277528	322	277206	FALSE
750.21	Congenital anomalies of intestine	Congenital Anomalies	0.96	0.85	1.10	0.58	326230	227	326003	FALSE
742.8	Articular cartilage disorder	Musculoskeletal	0.98	0.91	1.06	0.58	311297	655	310642	FALSE
78	Viral warts & HPV	Infectious Diseases	0.98	0.92	1.05	0.58	323218	1012	322206	FALSE
473.4	Voice disturbance	Respiratory	0.98	0.93	1.04	0.58	310051	1101	308950	FALSE
193	Thyroid cancer	Neoplasms	0.97	0.88	1.08	0.58	327009	367	326642	FALSE
174.11	Malignant neoplasm of female breast	Neoplasms	1.01	0.99	1.02	0.58	316838	12414	304424	FALSE
653	Problems associated with amniotic cavity and membranes	Pregnancy Complications	0.99	0.94	1.04	0.58	328119	1523	326596	FALSE
263	Other nutritional deficiency	Endocrine/Metabolic	0.99	0.94	1.04	0.58	327337	1551	325786	FALSE
585.2	Renal failure NOS	Genitourinary	0.99	0.97	1.02	0.58	322824	8745	314079	FALSE
604	Disorders of penis	Genitourinary	0.98	0.91	1.05	0.58	308641	735	307906	FALSE
700	Corns and callosities	Dermatologic	0.97	0.86	1.09	0.59	323352	288	323064	FALSE
278.1	Obesity	Endocrine/Metabolic	1.01	0.99	1.02	0.59	328110	11143	316967	FALSE
509.2	Respiratory insufficiency	Respiratory	0.99	0.94	1.03	0.59	318272	1788	316484	FALSE
480.1	Bacterial pneumonia	Respiratory	1.02	0.95	1.09	0.59	318628	939	317689	FALSE
378.2	Nystagmus and other irregular eye movements	Sense Organs	1.04	0.91	1.19	0.59	288407	215	288192	FALSE
454	Varicose veins	Circulatory System	0.99	0.94	1.04	0.59	289316	1603	287713	FALSE
823	Fracture of tibia and fibula	Injuries & Poisonings	1.03	0.93	1.15	0.59	322362	342	322020	FALSE
458.9	Hypotension NOS	Circulatory System	1.01	0.98	1.04	0.59	197817	3638	194179	FALSE
723	Other disorders of cervical region	Musculoskeletal	0.97	0.88	1.07	0.59	311345	401	310944	FALSE
341	Other demyelinating diseases of central nervous system	Neurological	0.99	0.94	1.04	0.60	287764	1612	286152	FALSE
532	Dysphagia	Digestive	0.99	0.97	1.02	0.60	294356	6553	287803	FALSE
961.1	Poisoning/allergy of sulfonamides	Injuries & Poisonings	0.98	0.92	1.05	0.60	301101	890	300211	FALSE
473	Diseases of the larynx and vocal cords	Respiratory	1.01	0.96	1.06	0.60	310564	1614	308950	FALSE
574.12	Cholelithiasis with other cholecystitis	Digestive	0.99	0.97	1.02	0.60	315816	5493	310323	FALSE
634.1	Missed abortion/Hydatidiform mole	Pregnancy Complications	1.02	0.96	1.08	0.60	321168	1203	319965	FALSE
155	Cancer of liver and intrahepatic bile duct	Neoplasms	0.97	0.85	1.10	0.60	312576	245	312331	FALSE
204	Leukemia	Neoplasms	0.98	0.89	1.07	0.60	323984	461	323523	FALSE
803.3	Fracture of clavicle or scapula	Injuries & Poisonings	0.97	0.87	1.09	0.60	323857	300	323557	FALSE

614.32	Chronic inflammatory pelvic disease	Genitourinary	1.03	0.93	1.13	0.60	319224	425	318799	FALSE
246	Other disorders of thyroid	Endocrine/Metabolic	1.00	0.98	1.01	0.61	327738	17409	310329	FALSE
442.1	Aortic aneurysm	Circulatory System	0.98	0.90	1.06	0.61	319946	586	319360	FALSE
331.1	Hydrocephalus	Neurological	1.02	0.94	1.12	0.61	286652	500	286152	FALSE
560.3	Peritoneal or intestinal adhesions	Digestive	0.98	0.92	1.05	0.61	259257	861	258396	FALSE
340.1	Migrain with aura	Neurological	0.97	0.85	1.10	0.62	318167	217	317950	FALSE
528.11	Stomatitis and mucositis (ulcerative)	Digestive	0.98	0.89	1.08	0.62	322945	411	322534	FALSE
481	Influenza	Respiratory	0.99	0.98	1.02	0.62	327706	10017	317689	FALSE
195	Cancer, suspected or other	Neoplasms	0.98	0.92	1.05	0.62	230227	915	229312	FALSE
613.8	Other specified disorders of breast	Genitourinary	1.03	0.92	1.14	0.62	322773	355	322418	FALSE
361	Retinal detachments and defects	Sense Organs	1.01	0.97	1.05	0.62	319011	2229	316782	FALSE
292	Neurological disorders	Mental Disorders	0.98	0.89	1.07	0.62	321919	449	321470	FALSE
41.4	E. coli	Infectious Diseases	1.01	0.97	1.05	0.62	315432	2800	312632	FALSE
724.9	Other unspecified back disorders	Musculoskeletal	1.00	0.99	1.02	0.63	328029	17085	310944	FALSE
738	Other acquired musculoskeletal deformity	Musculoskeletal	0.98	0.89	1.08	0.63	317104	417	316687	FALSE
502	Postinflammatory pulmonary fibrosis	Respiratory	1.02	0.95	1.09	0.63	317367	883	316484	FALSE
628	Ovarian cyst	Genitourinary	1.01	0.98	1.04	0.63	301051	4820	296231	FALSE
721.1	Spondylosis without myelopathy	Musculoskeletal	0.99	0.93	1.05	0.63	312014	1070	310944	FALSE
568	Other disorders of peritoneum	Digestive	0.99	0.96	1.02	0.63	250464	3804	246660	FALSE
798	Malaise and fatigue	Symptoms	0.99	0.96	1.03	0.63	327695	2966	324729	FALSE
687.1	Rash and other nonspecific skin eruption	Dermatologic	0.99	0.95	1.03	0.63	325032	2218	322814	FALSE
454.1	Varicose veins of lower extremity	Circulatory System	1.00	0.98	1.01	0.63	299275	11562	287713	FALSE
318	Tobacco use disorder	Mental Disorders	1.00	0.99	1.02	0.64	318172	20503	297669	FALSE
701.2	Scar conditions and fibrosis of skin	Dermatologic	1.01	0.97	1.05	0.64	325471	2407	323064	FALSE
287.31	Primary thrombocytopenia	Hematopoietic	1.02	0.93	1.13	0.64	325925	428	325497	FALSE
530.5	Disorders of esophageal motility	Digestive	1.02	0.94	1.10	0.64	288452	649	287803	FALSE
526.41	Temporomandibular joint disorder, unspecified	Digestive	1.03	0.91	1.18	0.64	311886	228	311658	FALSE
800.1	Fracture of neck of femur	Injuries & Poisonings	0.97	0.85	1.10	0.64	323796	239	323557	FALSE
743.11	Osteoporosis NOS	Musculoskeletal	1.01	0.97	1.05	0.64	327235	3036	324199	FALSE
519.8	Other diseases of respiratory system, NEC	Respiratory	1.00	0.98	1.03	0.64	274529	9082	265447	FALSE
626.1	Irregular menstrual cycle/bleeding	Genitourinary	0.99	0.96	1.03	0.65	299824	3593	296231	FALSE
465.2	Acute pharyngitis	Respiratory	0.98	0.92	1.05	0.65	326053	874	325179	FALSE
289	Other diseases of blood and blood-forming organs	Hematopoietic	1.01	0.98	1.04	0.65	325300	4982	320318	FALSE
276.41	Acidosis	Endocrine/Metabolic	0.99	0.93	1.05	0.65	321700	1056	320644	FALSE
214.1	Lipoma of skin and subcutaneous tissue	Neoplasms	0.99	0.97	1.02	0.65	325432	4756	320676	FALSE
211	Benign neoplasm of other parts of digestive system	Neoplasms	0.99	0.97	1.02	0.65	319683	5375	314308	FALSE
433	Cerebrovascular disease	Circulatory System	1.00	0.97	1.02	0.65	326753	8646	318107	FALSE
721.8	Other allied disorders of spine	Musculoskeletal	1.01	0.97	1.04	0.65	314171	3227	310944	FALSE

536	Disorders of function of stomach	Digestive	1.03	0.91	1.17	0.65	296768	257	296511	FALSE
427.6	Premature beats	Circulatory System	1.02	0.93	1.12	0.65	299979	458	299521	FALSE
601.4	Balanoposthitis	Genitourinary	0.97	0.87	1.09	0.66	307689	296	307393	FALSE
752.11	Spina bifida	Congenital Anomalies	1.03	0.90	1.18	0.66	327886	211	327675	FALSE
558	Noninfectious gastroenteritis	Digestive	1.00	0.98	1.01	0.66	278260	19864	258396	FALSE
334	Degenerative disease of the spinal cord	Neurological	1.01	0.96	1.06	0.66	287631	1479	286152	FALSE
292.4	Altered mental status	Mental Disorders	1.01	0.97	1.05	0.66	323742	2272	321470	FALSE
284	Aplastic anemia	Hematopoietic	1.00	0.99	1.02	0.66	321659	12759	308900	FALSE
323.8	Encephalitis, non-infectious	Neurological	1.02	0.94	1.10	0.66	327771	633	327138	FALSE
528.6	Leukoplakia of oral mucosa	Digestive	1.03	0.92	1.15	0.66	322846	312	322534	FALSE
350.1	Abnormal involuntary movements	Neurological	0.99	0.92	1.05	0.67	326371	927	325444	FALSE
448	Disease of capillaries	Circulatory System	0.99	0.97	1.02	0.67	326841	7481	319360	FALSE
70.3	Viral hepatitis C	Infectious Diseases	0.98	0.88	1.09	0.67	322549	343	322206	FALSE
578.9	Hemorrhage of gastrointestinal tract	Digestive	1.01	0.98	1.03	0.67	308849	5455	303394	FALSE
332	Parkinson's disease	Neurological	1.01	0.96	1.07	0.67	287334	1182	286152	FALSE
522	Diseases of pulp and periapical tissues	Digestive	0.98	0.91	1.06	0.67	312297	639	311658	FALSE
427.12	Paroxysmal ventricular tachycardia	Circulatory System	0.99	0.93	1.05	0.67	300490	969	299521	FALSE
536.8	Dyspepsia and other specified disorders of function of stomach	Digestive	1.03	0.90	1.17	0.67	296758	247	296511	FALSE
531.1	Hemorrhage from gastrointestinal ulcer	Digestive	0.98	0.91	1.06	0.67	321204	655	320549	FALSE
535.6	Duodenitis	Digestive	1.00	0.98	1.03	0.68	304405	7894	296511	FALSE
594.2	Calculus of lower urinary tract	Genitourinary	1.01	0.95	1.09	0.68	320761	830	319931	FALSE
512.2	Painful respiration	Respiratory	0.97	0.85	1.11	0.68	314496	228	314268	FALSE
735.2	Acquired toe deformities	Musculoskeletal	1.01	0.97	1.05	0.68	318913	2226	316687	FALSE
251.1	Hypoglycemia	Endocrine/Metabolic	1.01	0.95	1.08	0.68	305952	977	304975	FALSE
681.5	Cellulitis and abscess of leg, except foot	Dermatologic	1.01	0.98	1.03	0.68	322184	5777	316407	FALSE
613.7	Other signs and symptoms in breast	Genitourinary	1.02	0.94	1.09	0.68	323169	751	322418	FALSE
316	Substance addiction and disorders	Mental Disorders	0.98	0.88	1.08	0.69	298042	373	297669	FALSE
537	Other disorders of stomach and duodenum	Digestive	1.01	0.97	1.04	0.69	299994	3483	296511	FALSE
610.1	Cystic mastopathy	Genitourinary	1.01	0.95	1.08	0.69	321832	959	320873	FALSE
568.1	Peritoneal adhesions (postoperative) (postinfection)	Digestive	0.99	0.96	1.03	0.69	249757	3097	246660	FALSE
530.1	Esophagitis, GERD and related diseases	Digestive	1.00	0.98	1.03	0.69	297342	9539	287803	FALSE
157	Pancreatic cancer	Neoplasms	1.02	0.94	1.10	0.69	312933	602	312331	FALSE
705.8	Hyperhidrosis	Dermatologic	1.02	0.94	1.10	0.69	318896	602	318294	FALSE
509.1	Respiratory failure	Respiratory	1.01	0.97	1.05	0.69	318564	2080	316484	FALSE
707.1	Decubitus ulcer	Dermatologic	1.02	0.92	1.14	0.69	327025	326	326699	FALSE
771	Musculoskeletal symptoms referable to limbs	Symptoms	0.99	0.92	1.05	0.69	327405	891	326514	FALSE
625	Pain and other symptoms associated with female genital organs	Genitourinary	1.01	0.97	1.05	0.70	320718	2049	318669	FALSE
751.21	Cystic kidney disease	Congenital Anomalies	1.02	0.93	1.12	0.70	326461	458	326003	FALSE

277.4	Disorders of bilirubin excretion	Endocrine/Metabolic	0.98	0.89	1.08	0.70	283300	373	282927	FALSE
428.1	Congestive heart failure (CHF) NOS	Circulatory System	1.01	0.97	1.05	0.70	324086	2053	322033	FALSE
296.1	Bipolar	Mental Disorders	0.99	0.93	1.05	0.70	284019	1121	282898	FALSE
227.3	Benign neoplasm of pituitary gland and craniopharyngeal duct (pouch)	Neoplasms	0.98	0.88	1.09	0.71	326970	328	326642	FALSE
458	Hypotension	Circulatory System	0.99	0.93	1.05	0.71	195260	1081	194179	FALSE
302	Sexual and gender identity disorders	Mental Disorders	1.02	0.92	1.14	0.71	283238	340	282898	FALSE
555	Inflammatory bowel disease and other gastroenteritis and colitis	Digestive	1.00	0.98	1.01	0.71	278195	19799	258396	FALSE
530.9	Heartburn	Digestive	1.01	0.97	1.05	0.71	289911	2108	287803	FALSE
960.2	Allergy/adverse effect of penicillin	Injuries & Poisonings	1.00	0.98	1.01	0.71	316894	16683	300211	FALSE
349	Other and unspecified disorders of the nervous system	Neurological	1.00	0.99	1.01	0.71	326855	40703	286152	FALSE
740.9	Osteoarthrosis NOS	Musculoskeletal	1.01	0.98	1.04	0.71	310757	4432	306325	FALSE
686	Other local infections of skin and subcutaneous tissue	Dermatologic	1.00	0.98	1.02	0.71	327410	11003	316407	FALSE
317.1	Alcoholism	Mental Disorders	1.00	0.97	1.02	0.71	306366	8697	297669	FALSE
385.3	Cholesteatoma	Sense Organs	1.02	0.94	1.10	0.71	324732	589	324143	FALSE
575.9	Nonspecific abnormal findings on radiological and other examination of biliary tract	Digestive	1.02	0.92	1.13	0.72	310690	367	310323	FALSE
367.8	Hypermetropia	Sense Organs	0.98	0.86	1.11	0.72	325995	241	325754	FALSE
528.5	Diseases of lips	Digestive	0.99	0.91	1.06	0.72	323215	681	322534	FALSE
529.1	Glossitis	Digestive	1.02	0.91	1.14	0.72	322838	304	322534	FALSE
716.9	Arthropathy NOS	Musculoskeletal	1.00	0.99	1.01	0.72	327719	53823	273896	FALSE
427.5	Arrhythmia (cardiac) NOS	Circulatory System	1.01	0.95	1.08	0.73	300469	948	299521	FALSE
727.5	Rupture of synovium	Musculoskeletal	1.02	0.92	1.13	0.73	305298	344	304954	FALSE
961	Poisoning by other anti-infectives	Injuries & Poisonings	0.98	0.90	1.08	0.73	300647	436	300211	FALSE
315	Develomental delays and disorders	Mental Disorders	0.99	0.91	1.07	0.73	326992	549	326443	FALSE
458.1	Orthostatic hypotension	Circulatory System	1.01	0.96	1.06	0.74	195553	1374	194179	FALSE
378.5	Paralytic strabismus	Sense Organs	1.02	0.91	1.15	0.74	288479	287	288192	FALSE
694.2	Other dyschromia	Dermatologic	0.99	0.92	1.06	0.74	322549	800	321749	FALSE
189.11	Malignant neoplasm of kidney, except pelvis	Neoplasms	0.99	0.93	1.05	0.74	324997	1035	323962	FALSE
418.1	Precordial pain	Circulatory System	1.01	0.97	1.04	0.74	299506	3686	295820	FALSE
761	Cervicalgia	Symptoms	0.99	0.93	1.05	0.74	328240	1005	327235	FALSE
345.11	Generalized convulsive epilepsy	Neurological	0.98	0.90	1.08	0.74	286617	465	286152	FALSE
735.21	Hammer toe (acquired)	Musculoskeletal	0.99	0.95	1.04	0.74	318701	2014	316687	FALSE
599.3	Dysuria	Genitourinary	1.01	0.95	1.07	0.74	221636	1209	220427	FALSE
964.1	Anticoagulants causing adverse effects	Injuries & Poisonings	1.02	0.90	1.15	0.74	300470	259	300211	FALSE
202	Cancer of other lymphoid, histiocytic tissue	Neoplasms	0.99	0.93	1.05	0.74	324661	1138	323523	FALSE
175	Acquired absence of breast	Neoplasms	0.99	0.95	1.03	0.74	305907	2516	303391	FALSE
261.2	Vitamin B-complex deficiencies	Endocrine/Metabolic	1.01	0.94	1.09	0.74	326559	773	325786	FALSE
362.2	Degeneration of macula and posterior pole of retina	Sense Organs	0.99	0.95	1.04	0.75	318055	2203	315852	FALSE
253.2	Pituitary hypofunction	Endocrine/Metabolic	0.98	0.87	1.10	0.75	324826	281	324545	FALSE

575.8	Other disorders of biliary tract	Digestive	0.99	0.93	1.05	0.75	311372	1049	310323	FALSE
396	Abnormal heart sounds	Circulatory System	1.01	0.95	1.07	0.75	322603	1075	321528	FALSE
367.9	Blindness and low vision	Sense Organs	1.01	0.94	1.09	0.75	326510	756	325754	FALSE
557.1	Celiac disease	Digestive	0.99	0.95	1.04	0.75	260290	1894	258396	FALSE
386.2	Peripheral or central vertigo	Sense Organs	0.98	0.89	1.09	0.75	322036	387	321649	FALSE
81	Infection/inflammation of internal prosthetic device; implant; and graft	Infectious Diseases	0.99	0.96	1.03	0.75	323993	2514	321479	FALSE
540.1	Appendicitis	Digestive	0.99	0.92	1.06	0.75	325174	795	324379	FALSE
317	Alcohol-related disorders	Mental Disorders	1.00	0.98	1.03	0.75	303529	5860	297669	FALSE
300.12	Agorophobia, social phobia, and panic disorder	Mental Disorders	0.99	0.92	1.06	0.75	283642	744	282898	FALSE
250.24	Type 2 diabetes with neurological manifestations	Endocrine/Metabolic	1.01	0.94	1.10	0.76	308102	612	307490	FALSE
464	Acute sinusitis	Respiratory	1.02	0.89	1.17	0.76	325387	208	325179	FALSE
368.2	Diplopia and disorders of binocular vision	Sense Organs	0.99	0.92	1.06	0.76	325635	753	324882	FALSE
722	Intervertebral disc disorders	Musculoskeletal	1.00	0.98	1.03	0.76	316907	5963	310944	FALSE
681.2	Cellulitis and abscess of face/neck	Dermatologic	0.99	0.91	1.08	0.76	316936	529	316407	FALSE
571.5	Other chronic nonalcoholic liver disease	Digestive	1.01	0.96	1.06	0.76	320004	1673	318331	FALSE
540.11	Acute appendicitis	Digestive	1.01	0.97	1.05	0.77	327037	2658	324379	FALSE
870	Open wounds of head; neck; and trunk	Injuries & Poisonings	0.99	0.91	1.07	0.77	320327	596	319731	FALSE
334.2	Anterior horn cell disease	Neurological	0.98	0.86	1.12	0.77	286376	224	286152	FALSE
592.13	Chronic interstitial cystitis	Genitourinary	0.98	0.87	1.11	0.77	297289	254	297035	FALSE
366	Cataract	Sense Organs	1.00	0.98	1.01	0.77	323825	16441	307384	FALSE
362.29	Macular degeneration (senile) of retina NOS	Sense Organs	0.99	0.95	1.04	0.77	318052	2200	315852	FALSE
442.11	Abdominal aortic aneurysm	Circulatory System	1.01	0.95	1.08	0.77	320257	897	319360	FALSE
622	Polyp of female genital organs	Genitourinary	0.99	0.90	1.08	0.77	315794	487	315307	FALSE
625.1	Dyspareunia	Genitourinary	1.01	0.95	1.07	0.77	319824	1155	318669	FALSE
512.8	Cough	Respiratory	1.01	0.97	1.04	0.77	317232	2964	314268	FALSE
751.2	Congenital anomalies of urinary system	Congenital Anomalies	1.01	0.95	1.08	0.78	326908	905	326003	FALSE
465	Acute upper respiratory infections of multiple or unspecified sites	Respiratory	0.99	0.96	1.03	0.78	328232	3053	325179	FALSE
601.11	Acute prostatitis	Genitourinary	1.02	0.90	1.15	0.78	307653	260	307393	FALSE
669	Complications of labor and delivery NEC	Pregnancy Complications	1.00	0.97	1.02	0.78	328240	9534	318706	FALSE
244.4	Hypothyroidism NOS	Endocrine/Metabolic	1.00	0.99	1.02	0.78	324759	14430	310329	FALSE
807	Fracture of ribs	Injuries & Poisonings	0.98	0.86	1.12	0.78	323780	223	323557	FALSE
728.7	Fasciitis	Musculoskeletal	1.02	0.89	1.17	0.78	305167	213	304954	FALSE
601.8	Other inflammatory disorders of male genital organs	Genitourinary	1.02	0.91	1.14	0.78	307698	305	307393	FALSE
426.31	Right bundle branch block	Circulatory System	0.99	0.94	1.04	0.78	301094	1573	299521	FALSE
381.1	Otitis media	Sense Organs	0.99	0.94	1.05	0.78	325296	1153	324143	FALSE
217.1	Nevus, non-neoplastic	Neoplasms	1.01	0.93	1.10	0.78	320346	597	319749	FALSE
371.3	Inflammation of eyelids	Sense Organs	0.99	0.96	1.04	0.78	320786	2398	318388	FALSE
854	Complications of cardiac/vascular device, implant, and graft	Injuries & Poisonings	0.99	0.95	1.04	0.79	315807	1843	313964	FALSE

835	Internal derangement of knee	Injuries & Poisonings	1.00	0.97	1.04	0.79	326012	4239	321773	FALSE
512.1	Wheezing	Respiratory	1.02	0.89	1.16	0.79	314499	231	314268	FALSE
361.1	Retinal detachment with retinal defect	Sense Organs	0.99	0.94	1.05	0.79	318238	1456	316782	FALSE
573.9	Abnormal serum enzyme levels	Digestive	1.02	0.89	1.16	0.79	318561	230	318331	FALSE
218.2	Other benign neoplasm of uterus	Neoplasms	0.99	0.89	1.09	0.79	308143	363	307780	FALSE
587	Kidney replaced by transpant	Genitourinary	1.01	0.92	1.12	0.79	314477	398	314079	FALSE
285.2	Anemia of chronic disease	Hematopoietic	1.02	0.91	1.14	0.79	309194	294	308900	FALSE
474.1	Acute tonsillitis	Respiratory	1.01	0.93	1.10	0.79	309515	565	308950	FALSE
288.11	Neutropenia	Hematopoietic	1.00	0.97	1.04	0.79	323644	3326	320318	FALSE
979	Adverse drug events and drug allergies	Injuries & Poisonings	1.01	0.94	1.09	0.79	300927	716	300211	FALSE
526.9	Jaw disease NOS	Digestive	1.00	0.99	1.02	0.79	327620	15962	311658	FALSE
646	Other complications of pregnancy NEC	Pregnancy Complications	1.01	0.96	1.05	0.79	328240	2396	325844	FALSE
947	Urticaria	Injuries & Poisonings	0.99	0.89	1.09	0.80	322293	387	321906	FALSE
687	Symptoms affecting skin	Dermatologic	1.02	0.89	1.16	0.80	323032	218	322814	FALSE
368.4	Visual field defects	Sense Organs	1.01	0.91	1.13	0.80	325215	333	324882	FALSE
681.6	Cellulitis and abscess of foot, toe	Dermatologic	1.00	0.98	1.03	0.80	322141	5734	316407	FALSE
272.1	Hyperlipidemia	Endocrine/Metabolic	1.00	0.97	1.02	0.80	296728	5231	291497	FALSE
624.2	Atrophy of female genital tract	Genitourinary	1.01	0.92	1.11	0.80	319111	442	318669	FALSE
724.2	Disorders of coccyx	Musculoskeletal	1.02	0.90	1.14	0.80	311226	282	310944	FALSE
579.2	Splenomegaly	Digestive	0.99	0.90	1.08	0.80	303837	443	303394	FALSE
627	Menopausal and postmenopausal disorders	Genitourinary	1.01	0.94	1.08	0.80	297078	847	296231	FALSE
681.3	Cellulitis and abscess of arm/hand	Dermatologic	1.00	0.98	1.03	0.80	322177	5770	316407	FALSE
198.4	Secondary malignant neoplasm of liver	Neoplasms	1.00	0.97	1.04	0.80	232009	2697	229312	FALSE
870.4	Open wound of nose and sinus	Injuries & Poisonings	0.98	0.87	1.12	0.80	319969	238	319731	FALSE
526	Diseases of the jaws	Digestive	1.00	0.99	1.02	0.81	327645	15987	311658	FALSE
250.22	Type 2 diabetes with renal manifestations	Endocrine/Metabolic	1.02	0.89	1.17	0.81	307698	208	307490	FALSE
507	Pleurisy; pleural effusion	Respiratory	1.00	0.97	1.02	0.81	323091	6607	316484	FALSE
352.1	Trigeminal nerve disorders [CN5]	Neurological	0.99	0.90	1.08	0.81	313473	462	313011	FALSE
526.1	Cysts of the jaws	Digestive	0.99	0.89	1.10	0.81	311993	335	311658	FALSE
443.7	Peripheral angiopathy in diseases classified elsewhere	Circulatory System	0.99	0.90	1.09	0.81	319775	415	319360	FALSE
716.1	Unspecified polyarthropathy or polyarthritis	Musculoskeletal	1.00	0.96	1.03	0.82	277426	3530	273896	FALSE
506	Empyema and pneumothorax	Respiratory	0.99	0.94	1.05	0.82	317630	1146	316484	FALSE
701	Other hypertrophic and atrophic conditions of skin	Dermatologic	1.01	0.96	1.05	0.82	324891	1827	323064	FALSE
760	Back pain	Symptoms	1.00	0.98	1.03	0.82	328240	5923	322317	FALSE
530.12	Ulcer of esophagus	Digestive	1.00	0.97	1.02	0.82	293151	5348	287803	FALSE
592.1	Cystitis	Genitourinary	1.01	0.96	1.05	0.82	299089	2054	297035	FALSE
949	Allergies, other	Injuries & Poisonings	0.99	0.90	1.09	0.82	322326	420	321906	FALSE
614.54	Abscess or ulceration of vulva	Genitourinary	0.99	0.88	1.11	0.82	319079	280	318799	FALSE

803.1	Fracture of humerus	Injuries & Poisonings	1.01	0.90	1.14	0.82	323850	293	323557	FALSE
340	Migraine	Neurological	1.00	0.97	1.04	0.82	320723	2773	317950	FALSE
578.1	Hematemesis	Digestive	1.01	0.96	1.05	0.82	305428	2034	303394	FALSE
715.2	Ankylosing spondylitis	Musculoskeletal	1.01	0.91	1.12	0.82	317637	384	317253	FALSE
564	Functional digestive disorders	Digestive	1.01	0.95	1.07	0.82	259379	983	258396	FALSE
433.12	Cerebral atherosclerosis	Circulatory System	0.99	0.87	1.12	0.83	318345	238	318107	FALSE
352.2	Facial nerve disorders [CN7]	Neurological	0.99	0.93	1.06	0.83	313911	900	313011	FALSE
365.11	Primary open angle glaucoma	Sense Organs	1.01	0.95	1.07	0.83	317838	1056	316782	FALSE
957	Injury to other and unspecified nerves	Injuries & Poisonings	0.99	0.88	1.11	0.83	328157	275	327882	FALSE
433.5	Cerebral aneurysm	Circulatory System	0.99	0.90	1.09	0.83	318505	398	318107	FALSE
496.3	Bronchiectasis	Respiratory	1.00	0.96	1.05	0.83	296077	1885	294192	FALSE
801.1	Fracture of foot	Injuries & Poisonings	1.01	0.92	1.11	0.84	323975	418	323557	FALSE
702.2	Seborrheic keratosis	Dermatologic	1.00	0.97	1.04	0.84	325769	3169	322600	FALSE
655	Known or suspected fetal abnormality affecting management of mother	Pregnancy Complications	1.00	0.97	1.04	0.84	328240	4575	323665	FALSE
395.2	Nonrheumatic aortic valve disorders	Circulatory System	0.99	0.87	1.12	0.84	321775	247	321528	FALSE
427.42	Cardiac arrest	Circulatory System	1.01	0.94	1.07	0.85	300470	949	299521	FALSE
740.12	Osteoarthrosis, localized, secondary	Musculoskeletal	1.01	0.90	1.14	0.85	306589	264	306325	FALSE
686.1	Carbuncle and furuncle	Dermatologic	1.00	0.96	1.05	0.85	318829	2422	316407	FALSE
737.3	Kyphoscoliosis and scoliosis	Musculoskeletal	0.99	0.89	1.10	0.85	317058	371	316687	FALSE
727	Other disorders of synovium, tendon, and bursa	Musculoskeletal	0.99	0.92	1.07	0.85	305708	754	304954	FALSE
681	Superficial cellulitis and abscess	Dermatologic	0.99	0.92	1.07	0.85	317135	728	316407	FALSE
384.4	Perforation of tympanic membrane	Sense Organs	1.01	0.95	1.07	0.85	325167	1024	324143	FALSE
288	Diseases of white blood cells	Hematopoietic	1.01	0.93	1.09	0.85	320928	610	320318	FALSE
751.1	Congenital anomalies of genital organs	Congenital Anomalies	0.99	0.92	1.07	0.85	326709	706	326003	FALSE
709.2	Sicca syndrome	Dermatologic	0.99	0.91	1.08	0.86	242486	520	241966	FALSE
452	Other venous embolism and thrombosis	Circulatory System	1.01	0.93	1.10	0.86	288267	554	287713	FALSE
371	Inflammation of the eye	Sense Organs	1.01	0.92	1.11	0.86	318796	408	318388	FALSE
287.3	Thrombocytopenia	Hematopoietic	1.00	0.95	1.06	0.86	326768	1271	325497	FALSE
289.8	Polycythemia vera, secondary	Hematopoietic	1.01	0.90	1.13	0.86	320039	291	319748	FALSE
626.8	Infertility, female	Genitourinary	1.00	0.94	1.05	0.86	297638	1407	296231	FALSE
174	Breast cancer	Neoplasms	0.99	0.88	1.11	0.86	304712	288	304424	FALSE
38.1	Gram negative septicemia	Infectious Diseases	0.99	0.93	1.06	0.86	313487	855	312632	FALSE
426.24	Atrioventricular block, complete	Circulatory System	0.99	0.92	1.08	0.86	300112	591	299521	FALSE
750	Digestive congenital anomalies	Congenital Anomalies	0.99	0.92	1.07	0.87	326705	702	326003	FALSE
724.1	Disorders of sacrum	Musculoskeletal	1.01	0.90	1.14	0.87	311225	281	310944	FALSE
698	Pruritus and related conditions	Dermatologic	1.01	0.94	1.08	0.87	328240	799	327441	FALSE
752	Nervous system congenital anomalies	Congenital Anomalies	1.01	0.90	1.13	0.87	327963	288	327675	FALSE
368.1	Amblyopia	Sense Organs	1.01	0.93	1.10	0.87	325423	541	324882	FALSE

411.9	Other acute and subacute forms of ischemic heart disease	Circulatory System	1.00	0.95	1.06	0.87	296883	1194	295689	FALSE
401.22	Hypertensive chronic kidney disease	Circulatory System	1.00	0.95	1.05	0.87	250343	1595	248748	FALSE
531.4	Peptic ulcer, site unspecified	Digestive	0.99	0.90	1.09	0.87	320998	449	320549	FALSE
601.12	Chronic prostatitis	Genitourinary	0.99	0.93	1.06	0.87	308341	948	307393	FALSE
619.3	Noninflammatory disorders of cervix	Genitourinary	1.00	0.97	1.04	0.87	281393	2845	278548	FALSE
585.1	Acute renal failure	Genitourinary	1.00	0.97	1.03	0.87	318744	4665	314079	FALSE
614.52	Vaginitis and vulvovaginitis	Genitourinary	1.01	0.92	1.11	0.87	319219	420	318799	FALSE
218	Benign neoplasm of uterus	Neoplasms	0.99	0.90	1.10	0.88	308168	388	307780	FALSE
244.1	Secondary hypothyroidism	Endocrine/Metabolic	1.00	0.95	1.06	0.88	311484	1155	310329	FALSE
454.11	Varicose veins of lower extremity, symptomtic	Circulatory System	1.01	0.93	1.09	0.88	288365	652	287713	FALSE
368.9	Subjective visual disturbances	Sense Organs	0.99	0.92	1.07	0.88	325515	633	324882	FALSE
574.11	Cholelithiasis with acute cholecystitis	Digestive	1.00	0.95	1.06	0.88	311836	1513	310323	FALSE
615	Endometriosis	Genitourinary	1.00	0.97	1.03	0.88	322888	4089	318799	FALSE
709.7	Unspecified diffuse connective tissue disease	Dermatologic	1.00	0.99	1.01	0.88	324635	82669	241966	FALSE
619.1	Noninflammatory disorders of ovary, fallopian tube, and broad ligament	Genitourinary	0.99	0.92	1.07	0.89	279282	734	278548	FALSE
622.1	Polyp of corpus uteri	Genitourinary	1.00	0.98	1.02	0.89	323490	8183	315307	FALSE
990	Effects radiation NOS	Injuries & Poisonings	1.00	0.97	1.04	0.90	325633	3244	322389	FALSE
596	Other disorders of bladder	Genitourinary	1.00	0.98	1.02	0.90	321385	7749	313636	FALSE
635.2	Antepartum hemorrhage, abruptio placentae, and placenta previa	Pregnancy Complications	1.00	0.94	1.07	0.90	320901	936	319965	FALSE
483	Acute bronchitis and bronchiolitis	Respiratory	1.01	0.88	1.16	0.90	317889	200	317689	FALSE
198.5	Secondary malignancy of brain/spine	Neoplasms	1.00	0.93	1.07	0.90	230113	801	229312	FALSE
272.9	Unspecified disorder of lipoid metabolism	Endocrine/Metabolic	1.01	0.88	1.15	0.91	291721	224	291497	FALSE
335	Multiple sclerosis	Neurological	1.00	0.95	1.05	0.91	287531	1379	286152	FALSE
621	Endometrial hyperplasia	Genitourinary	1.00	0.94	1.06	0.91	316461	1154	315307	FALSE
200.1	Polycythemia vera	Neoplasms	1.01	0.91	1.11	0.91	318136	404	317732	FALSE
510	Other diseases of lung	Respiratory	1.00	0.94	1.08	0.91	328200	770	327430	FALSE
198.1	Secondary malignancy of lymph nodes	Neoplasms	1.00	0.98	1.03	0.91	234815	5503	229312	FALSE
853	Complication of colostomy or enterostomy	Injuries & Poisonings	0.99	0.91	1.09	0.91	314478	514	313964	FALSE
221	Benign neoplasm of other female genital organs	Neoplasms	0.99	0.87	1.13	0.91	295974	223	295751	FALSE
573.3	Hepatomegaly	Digestive	0.99	0.89	1.11	0.91	318641	310	318331	FALSE
41.1	Staphylococcus infections	Infectious Diseases	1.00	0.96	1.03	0.91	315832	3200	312632	FALSE
280.2	Iron deficiency anemia secondary to blood loss (chronic)	Hematopoietic	1.00	0.92	1.10	0.91	309376	476	308900	FALSE
279.7	Other immunological findings	Endocrine/Metabolic	1.01	0.89	1.14	0.91	327978	264	327714	FALSE
512	Other symptoms of respiratory system	Respiratory	1.00	0.97	1.03	0.91	319772	5504	314268	FALSE
312	Conduct disorders	Mental Disorders	1.00	0.95	1.06	0.91	327638	1195	326443	FALSE
331	Other cerebral degenerations	Neurological	0.99	0.87	1.13	0.92	286392	240	286152	FALSE
597	Other disorders of urethra and urinary tract	Genitourinary	1.00	0.93	1.07	0.92	314510	874	313636	FALSE
200	Myeloproliferative disease	Neoplasms	1.00	0.93	1.08	0.92	324202	679	323523	FALSE

736	Other acquired deformities of limbs	Musculoskeletal	0.99	0.89	1.11	0.92	316998	311	316687	FALSE
626	Disorders of menstruation and other abnormal bleeding from female genital tract	Genitourinary	1.00	0.97	1.03	0.92	300178	3947	296231	FALSE
348.2	Cerebral edema and compression of brain	Neurological	0.99	0.88	1.12	0.92	286412	260	286152	FALSE
442.8	Aneurysm of other specified artery	Circulatory System	1.01	0.88	1.15	0.92	319570	210	319360	FALSE
618.2	Uterine/Uterovaginal prolapse	Genitourinary	1.00	0.97	1.03	0.92	321713	5471	316242	FALSE
384	Other disorders of tympanic membrane	Sense Organs	1.00	0.91	1.11	0.92	324573	430	324143	FALSE
573.7	Abnormal results of function study of liver	Digestive	1.00	0.97	1.03	0.92	321896	3565	318331	FALSE
292.6	Hallucinations	Mental Disorders	1.01	0.90	1.12	0.93	321793	323	321470	FALSE
819	Skull and face fracture and other intercranial injury	Injuries & Poisonings	1.00	0.95	1.05	0.93	328056	1517	326539	FALSE
369	Infection of the eye	Sense Organs	0.99	0.88	1.12	0.93	318642	254	318388	FALSE
575.7	Other disorders of gallbladder	Digestive	1.00	0.95	1.05	0.93	311719	1396	310323	FALSE
523.31	Acute periodontitis	Digestive	1.00	0.93	1.08	0.93	312371	713	311658	FALSE
367.2	Astigmatism	Sense Organs	1.01	0.88	1.15	0.93	325964	210	325754	FALSE
697	Sarcoidosis	Dermatologic	1.00	0.92	1.09	0.93	322309	560	321749	FALSE
480.5	Bronchopneumonia and lung abscess	Respiratory	1.00	0.90	1.10	0.93	318077	388	317689	FALSE
556.1	Ulceration of intestine	Digestive	1.00	0.93	1.08	0.93	259087	691	258396	FALSE
327.3	Sleep apnea	Neurological	1.00	0.97	1.03	0.94	327419	4699	322720	FALSE
441	Vascular insufficiency of intestine	Circulatory System	1.00	0.89	1.12	0.94	319657	297	319360	FALSE
619.2	Disorders of uterus, NEC	Genitourinary	1.00	0.97	1.04	0.94	281939	3391	278548	FALSE
153.3	Malignant neoplasm of rectum, rectosigmoid junction, and anus	Neoplasms	1.00	0.96	1.05	0.94	303397	2117	301280	FALSE
830	Dislocation	Injuries & Poisonings	1.00	0.96	1.05	0.94	323927	2154	321773	FALSE
478	Throat pain	Respiratory	1.00	0.91	1.11	0.94	309337	387	308950	FALSE
836	Traumatic arthropathy	Injuries & Poisonings	1.00	0.88	1.13	0.94	322016	243	321773	FALSE
269	Proteinuria	Endocrine/Metabolic	1.00	0.90	1.11	0.95	327850	355	327495	FALSE
443.9	Peripheral vascular disease, unspecified	Circulatory System	1.00	0.96	1.04	0.95	321969	2609	319360	FALSE
153.2	Colon cancer	Neoplasms	1.00	0.97	1.04	0.95	304402	3122	301280	FALSE
560.1	Paralytic ileus	Digestive	1.00	0.92	1.09	0.95	258916	520	258396	FALSE
618.5	Prolapse of vaginal vault after hysterectomy	Genitourinary	1.00	0.92	1.10	0.95	316743	501	316242	FALSE
624.1	Dystrophy of female genital tract	Genitourinary	1.00	0.88	1.14	0.95	318909	240	318669	FALSE
735.23	Hallux rigidus	Musculoskeletal	1.00	0.95	1.05	0.95	318243	1556	316687	FALSE
635.3	Placenta previa and abruptio placenta	Pregnancy Complications	1.00	0.95	1.06	0.95	321301	1336	319965	FALSE
610.2	Fibroadenosis of breast	Genitourinary	1.00	0.90	1.12	0.95	321189	316	320873	FALSE
555.1	Regional enteritis	Digestive	1.00	0.95	1.05	0.95	260201	1805	258396	FALSE
527.2	Sialoadenitis	Digestive	1.00	0.91	1.11	0.96	322908	374	322534	FALSE
791	Gangrene	Symptoms	1.00	0.92	1.09	0.96	328240	579	327661	FALSE
714	Rheumatoid arthritis and other inflammatory polyarthropathies	Musculoskeletal	1.00	0.98	1.02	0.96	325905	8652	317253	FALSE
446.5	Giant cell arteritis	Circulatory System	1.00	0.90	1.10	0.96	319750	390	319360	FALSE
218.1	Uterine leiomyoma	Neoplasms	1.00	0.98	1.02	0.96	318346	10566	307780	FALSE

172.3	Carcinoma in situ of skin	Neoplasms	1.00	0.93	1.08	0.96	314884	664	314220	FALSE
531.2	Gastric ulcer	Digestive	1.00	0.97	1.03	0.96	324777	4228	320549	FALSE
229	Benign neoplasm of unspecified sites	Neoplasms	1.00	0.99	1.01	0.96	328240	46165	282075	FALSE
965.3	Salicylates causing adverse effects in therapeutic use	Injuries & Poisonings	1.00	0.91	1.11	0.96	300612	401	300211	FALSE
727.1	Synovitis and tenosynovitis	Musculoskeletal	1.00	0.93	1.08	0.96	305641	687	304954	FALSE
520	Disorders of tooth development	Digestive	1.00	0.91	1.10	0.96	312128	470	311658	FALSE
610.4	Benign neoplasm of breast	Genitourinary	1.00	0.95	1.05	0.97	322359	1486	320873	FALSE
580.32	Nephritis and nephropathy with pathological lesion	Genitourinary	1.00	0.94	1.06	0.97	315157	1078	314079	FALSE
907	Injuries to the nervous system	Injuries & Poisonings	1.00	0.96	1.05	0.97	328240	1845	326395	FALSE
782.3	Edema	Symptoms	1.00	0.95	1.05	0.97	328067	1715	326352	FALSE
375	Disorders of lacrimal system	Sense Organs	1.00	0.95	1.05	0.97	289852	1660	288192	FALSE
634	Miscarriage; stillbirth	Pregnancy Complications	1.00	0.97	1.03	0.97	324534	4569	319965	FALSE
474	Acute and chronic tonsillitis	Respiratory	1.00	0.92	1.08	0.97	309554	604	308950	FALSE
240	Simple and unspecified goiter	Endocrine/Metabolic	1.00	0.93	1.08	0.97	310951	622	310329	FALSE
202.24	Large cell lymphoma	Neoplasms	1.00	0.92	1.09	0.97	324112	589	323523	FALSE
592.12	Chronic cystitis	Genitourinary	1.00	0.94	1.07	0.97	297948	913	297035	FALSE
574.1	Cholelithiasis	Digestive	1.00	0.98	1.02	0.98	319629	9306	310323	FALSE
198.6	Secondary malignancy of bone	Neoplasms	1.00	0.96	1.04	0.98	231505	2193	229312	FALSE
599	Other symptoms/disorders or the urinary system	Genitourinary	1.00	0.99	1.01	0.98	324256	103829	220427	FALSE
580.2	Nephrotic syndrome without mention of glomerulonephritis	Genitourinary	1.00	0.92	1.09	0.98	314575	496	314079	FALSE
619	Noninflammatory female genital disorders	Genitourinary	1.00	0.99	1.01	0.98	328106	49558	278548	FALSE
220	Benign neoplasm of ovary	Neoplasms	1.00	0.95	1.05	0.98	297546	1490	296056	FALSE
721	Spondylosis and allied disorders	Musculoskeletal	1.00	0.94	1.07	0.98	311869	925	310944	FALSE
726	Peripheral enthesopathies and allied syndromes	Musculoskeletal	1.00	0.98	1.02	0.98	313722	8768	304954	FALSE
579.8	Nonspecific abnormal findings in stool contents	Digestive	1.00	0.95	1.05	0.98	305134	1740	303394	FALSE
199	Neoplasm of uncertain behavior	Neoplasms	1.00	0.94	1.06	0.99	230468	1156	229312	FALSE
443.1	Raynaud's syndrome	Circulatory System	1.00	0.94	1.06	0.99	320525	1165	319360	FALSE
579	Other symptoms involving abdomen and pelvis	Digestive	1.00	0.94	1.06	0.99	304580	1186	303394	FALSE
149	Cancer of larynx, pharynx, nasal cavities	Neoplasms	1.00	0.94	1.07	0.99	326986	945	326041	FALSE
292.1	Aphasia/speech disturbance	Mental Disorders	1.00	0.95	1.05	0.99	323019	1549	321470	FALSE
575.6	Cholesterolosis of gallbladder	Digestive	1.00	0.91	1.10	0.99	310789	466	310323	FALSE
512.9	Other dyspnea	Respiratory	1.00	0.94	1.07	0.99	315211	943	314268	FALSE
280.1	Iron deficiency anemias, unspecified or not due to blood loss	Hematopoietic	1.00	0.98	1.02	0.99	316402	7502	308900	FALSE
729.1	Rheumatism, unspecified and fibrositis	Musculoskeletal	1.00	0.90	1.11	0.99	305341	387	304954	FALSE
338.2	Chronic pain	Neurological	1.00	0.91	1.10	1.00	327830	404	327426	FALSE
242.1	Graves' disease	Endocrine/Metabolic	1.00	0.91	1.10	1.00	310789	460	310329	FALSE
345.12	Partial epilepsy	Neurological	1.00	0.89	1.12	1.00	286450	298	286152	FALSE

Supplementary Table 12. Phenome-wide association study (PheWAS) results for the main calcium channel blocker (CCB) genetic risk score.

Phecode	Trait	Category	OR	Low 95% CI	Upp 95% CI	P value	Total sample size	Cases	Controls	FDR
401.1	Essential hypertension	Circulatory System	0.95	0.94	0.95	1.49E-37	327983	79235	248748	TRUE
401	Hypertension	Circulatory System	0.95	0.94	0.96	3.01E-37	328239	79491	248748	TRUE
459.9	Circulatory disease NEC	Circulatory System	0.97	0.96	0.98	1.34E-15	327928	133749	194179	TRUE
411.4	Coronary atherosclerosis	Circulatory System	0.97	0.96	0.99	2.64E-05	327242	31553	295689	TRUE
411	Ischemic Heart Disease	Circulatory System	0.97	0.96	0.99	2.89E-05	327032	31343	295689	TRUE
411.8	Other chronic ischemic heart disease, unspecified	Circulatory System	0.97	0.96	0.99	3.07E-05	326969	31280	295689	TRUE
427.2	Atrial fibrillation and flutter	Circulatory System	0.97	0.95	0.98	1.18E-04	314573	15052	299521	TRUE
411.2	Myocardial infarction	Circulatory System	0.97	0.95	0.98	2.35E-04	307658	11969	295689	TRUE
562.1	Diverticulosis	Digestive	1.02	1.01	1.04	2.39E-04	286281	27885	258396	TRUE
411.41	Aneurysm and dissection of heart	Circulatory System	0.87	0.81	0.94	3.07E-04	296410	721	295689	TRUE
411.3	Angina pectoris	Circulatory System	0.97	0.96	0.99	5.44E-04	312048	16359	295689	TRUE
716.2	Unspecified monoarthritis	Musculoskeletal	1.03	1.01	1.04	2.30E-03	289797	15901	273896	FALSE
416	Cardiomegaly	Circulatory System	0.94	0.91	0.98	3.50E-03	324157	2610	321547	FALSE
428.1	Congestive heart failure (CHF) NOS	Circulatory System	0.94	0.90	0.98	0.01	324086	2053	322033	FALSE
38.2	Gram positive septicemia	Infectious Diseases	0.89	0.81	0.97	0.01	313123	491	312632	FALSE
946	Anaphylactic shock NOS	Injuries & Poisonings	0.89	0.82	0.97	0.01	322450	544	321906	FALSE
395.1	Nonrheumatic mitral valve disorders	Circulatory System	0.95	0.92	0.99	0.01	324497	2969	321528	FALSE
977	Personal history of allergy to medicinal agents	Injuries & Poisonings	0.85	0.74	0.96	0.01	300449	238	300211	FALSE
476	Allergic rhinitis	Respiratory	1.08	1.02	1.15	0.01	310025	1075	308950	FALSE
428.2	Heart failure NOS	Circulatory System	0.96	0.93	0.99	0.01	326367	4334	322033	FALSE
751.11	Congenital anomalies of female genital organs	Congenital Anomalies	0.89	0.81	0.97	0.01	326445	442	326003	FALSE
240	Simple and unspecified goiter	Endocrine/Metabolic	0.90	0.83	0.98	0.01	310951	622	310329	FALSE
352.2	Facial nerve disorders [CN7]	Neurological	0.92	0.86	0.98	0.01	313911	900	313011	FALSE
333.1	Essential tremor	Neurological	0.84	0.74	0.96	0.01	286370	218	286152	FALSE
200.1	Polycythemia vera	Neoplasms	0.88	0.80	0.97	0.01	318136	404	317732	FALSE
634.1	Missed abortion/Hydatidiform mole	Pregnancy Complications	1.07	1.01	1.14	0.01	321168	1203	319965	FALSE
686.3	Pilonidal cyst	Dermatologic	1.10	1.02	1.19	0.01	317024	617	316407	FALSE
503	Pulmonary congestion and hypostasis	Respiratory	0.89	0.82	0.98	0.02	316959	475	316484	FALSE
555	Inflammatory bowel disease and other gastroenteritis and colitis	Digestive	1.02	1.00	1.03	0.02	278195	19799	258396	FALSE
741.4	Joint effusions	Musculoskeletal	0.87	0.77	0.98	0.02	310925	283	310642	FALSE
220	Benign neoplasm of ovary	Neoplasms	1.06	1.01	1.12	0.02	297546	1490	296056	FALSE
558	Noninfectious gastroenteritis	Digestive	1.02	1.00	1.03	0.02	278260	19864	258396	FALSE
513.4	Hyperventilation	Respiratory	1.14	1.02	1.28	0.03	327904	280	327624	FALSE
574	Cholelithiasis and cholecystitis	Digestive	0.90	0.81	0.99	0.03	310726	403	310323	FALSE
394.2	Mitral valve disease	Circulatory System	0.96	0.93	1.00	0.03	324603	3075	321528	FALSE
381.11	Suppurative and unspecified otitis media	Sense Organs	0.93	0.87	0.99	0.03	324993	850	324143	FALSE

411.9	Other acute and subacute forms of ischemic heart disease	Circulatory System	0.94	0.89	0.99	0.03	296883	1194	295689	FALSE
375	Disorders of lacrimal system	Sense Organs	1.05	1.00	1.11	0.03	289852	1660	288192	FALSE
574.12	Cholelithiasis with other cholecystitis	Digestive	0.97	0.95	1.00	0.03	315816	5493	310323	FALSE
335	Multiple sclerosis	Neurological	1.06	1.00	1.12	0.03	287531	1379	286152	FALSE
850	Hemorrhage or hematoma complicating a procedure	Injuries & Poisonings	0.97	0.95	1.00	0.03	319328	5364	313964	FALSE
378.5	Paralytic strabismus	Sense Organs	0.88	0.79	0.99	0.04	288479	287	288192	FALSE
594.3	Calculus of ureter	Genitourinary	0.96	0.92	1.00	0.04	322471	2540	319931	FALSE
960	Poisoning by antibiotics	Injuries & Poisonings	0.97	0.93	1.00	0.04	303739	3528	300211	FALSE
560.4	Other intestinal obstruction	Digestive	1.04	1.00	1.07	0.04	261839	3443	258396	FALSE
170.2	Cancer of connective tissue	Neoplasms	0.93	0.86	1.00	0.04	328122	734	327388	FALSE
574.3	Cholecystitis without cholelithiasis	Digestive	1.04	1.00	1.08	0.04	313141	2818	310323	FALSE
426.24	Atrioventricular block, complete	Circulatory System	0.92	0.85	1.00	0.04	300112	591	299521	FALSE
601.11	Acute prostatitis	Genitourinary	1.13	1.00	1.28	0.04	307653	260	307393	FALSE
564.9	Personal history of diseases of digestive system	Digestive	1.02	1.00	1.03	0.04	274320	15924	258396	FALSE
380.4	Impacted cerumen	Sense Organs	0.90	0.81	1.00	0.05	327106	354	326752	FALSE
989	Toxic effect of other substances, chiefly nonmedicinal as to source	Injuries & Poisonings	1.05	1.00	1.11	0.05	328136	1438	326698	FALSE
750	Digestive congenital anomalies	Congenital Anomalies	0.93	0.86	1.00	0.05	326705	702	326003	FALSE
751.1	Congenital anomalies of genital organs	Congenital Anomalies	0.93	0.86	1.00	0.05	326709	706	326003	FALSE
215	Other benign neoplasm of connective and other soft tissue	Neoplasms	1.06	1.00	1.12	0.05	321804	1128	320676	FALSE
388	Other disorders of ear	Sense Organs	0.98	0.96	1.00	0.05	328080	9886	318194	FALSE
735	Acquired foot deformities	Musculoskeletal	1.12	1.00	1.25	0.05	316986	299	316687	FALSE
530.12	Ulcer of esophagus	Digestive	0.97	0.95	1.00	0.06	293151	5348	287803	FALSE
452	Other venous embolism and thrombosis	Circulatory System	0.92	0.85	1.00	0.06	288267	554	287713	FALSE
304	Adjustment reaction	Mental Disorders	1.11	1.00	1.24	0.06	283221	323	282898	FALSE
442.8	Aneurysm of other specified artery	Circulatory System	0.87	0.76	1.00	0.06	319570	210	319360	FALSE
478	Throat pain	Respiratory	0.91	0.82	1.00	0.06	309337	387	308950	FALSE
560.3	Peritoneal or intestinal adhesions	Digestive	1.07	1.00	1.14	0.06	259257	861	258396	FALSE
414	Other forms of chronic heart disease	Circulatory System	0.96	0.91	1.00	0.06	297457	1768	295689	FALSE
415.21	Primary pulmonary hypertension	Circulatory System	1.09	1.00	1.19	0.06	322013	466	321547	FALSE
745	Pain in joint	Musculoskeletal	0.96	0.92	1.00	0.06	328240	1940	326300	FALSE
365	Glaucoma	Sense Organs	1.03	1.00	1.06	0.06	321340	4558	316782	FALSE
800.1	Fracture of neck of femur	Injuries & Poisonings	0.88	0.78	1.01	0.06	323796	239	323557	FALSE
429.3	Symptoms involving cardiovascular system	Circulatory System	0.88	0.76	1.01	0.06	322241	208	322033	FALSE
286.7	Other and unspecified coagulation defects	Hematopoietic	1.10	1.00	1.21	0.06	325902	405	325497	FALSE
716.9	Arthropathy NOS	Musculoskeletal	1.01	1.00	1.02	0.06	327719	53823	273896	FALSE
736.2	Acquired deformities of finger	Musculoskeletal	0.89	0.78	1.01	0.06	316940	253	316687	FALSE
380	Disorders of external ear	Sense Organs	0.95	0.90	1.00	0.06	328227	1475	326752	FALSE
341	Other demyelinating diseases of central nervous system	Neurological	1.05	1.00	1.10	0.06	287764	1612	286152	FALSE

70.9	Hepatitis NOS	Infectious Diseases	1.09	0.99	1.20	0.06	322658	452	322206	FALSE
250.41	Impaired fasting glucose	Endocrine/Metabolic	1.12	0.99	1.26	0.07	307758	268	307490	FALSE
681	Superficial cellulitis and abscess	Dermatologic	0.93	0.87	1.00	0.07	317135	728	316407	FALSE
360.2	Progressive myopia	Sense Organs	1.12	0.99	1.27	0.07	317032	250	316782	FALSE
272.1	Hyperlipidemia	Endocrine/Metabolic	0.97	0.95	1.00	0.07	296728	5231	291497	FALSE
277	Other disorders of metabolism	Endocrine/Metabolic	0.99	0.98	1.00	0.07	328230	45303	282927	FALSE
250	Diabetes mellitus	Endocrine/Metabolic	1.01	1.00	1.03	0.07	327730	20240	307490	FALSE
250.2	Type 2 diabetes	Endocrine/Metabolic	1.01	1.00	1.03	0.07	326603	19113	307490	FALSE
180.1	Cervical cancer	Neoplasms	0.97	0.95	1.00	0.08	302137	4554	297583	FALSE
375.2	Epiphora	Sense Organs	1.06	0.99	1.13	0.08	289094	902	288192	FALSE
350.2	Abnormality of gait	Neurological	0.96	0.91	1.00	0.08	327077	1633	325444	FALSE
507	Pleurisy; pleural effusion	Respiratory	0.98	0.95	1.00	0.08	323091	6607	316484	FALSE
709.7	Unspecified diffuse connective tissue disease	Dermatologic	1.01	1.00	1.02	0.08	324635	82669	241966	FALSE
368.1	Amblyopia	Sense Organs	0.93	0.85	1.01	0.08	325423	541	324882	FALSE
907	Injuries to the nervous system	Injuries & Poisonings	0.96	0.92	1.01	0.08	328240	1845	326395	FALSE
250.42	Other abnormal glucose	Endocrine/Metabolic	0.92	0.84	1.01	0.08	307927	437	307490	FALSE
510	Other diseases of lung	Respiratory	0.94	0.87	1.01	0.08	328200	770	327430	FALSE
726	Peripheral enthesopathies and allied syndromes	Musculoskeletal	1.02	1.00	1.04	0.08	313722	8768	304954	FALSE
334	Degenerative disease of the spinal cord	Neurological	1.05	0.99	1.10	0.08	287631	1479	286152	FALSE
244.1	Secondary hypothyroidism	Endocrine/Metabolic	0.95	0.90	1.01	0.08	311484	1155	310329	FALSE
292.2	Mild cognitive impairment	Mental Disorders	1.13	0.98	1.29	0.09	321672	202	321470	FALSE
528.6	Leukoplakia of oral mucosa	Digestive	0.91	0.81	1.02	0.09	322846	312	322534	FALSE
202.24	Large cell lymphoma	Neoplasms	1.07	0.99	1.16	0.09	324112	589	323523	FALSE
857	Mechanical complication of unspecified genitourinary device, implant, and graft	Injuries & Poisonings	0.95	0.90	1.01	0.09	315248	1284	313964	FALSE
379.2	Disorders of vitreous body	Sense Organs	1.05	0.99	1.10	0.09	289599	1407	288192	FALSE
151	Cancer of stomach	Neoplasms	1.07	0.99	1.16	0.09	312905	574	312331	FALSE
425.1	Primary/intrinsic cardiomyopathies	Circulatory System	0.95	0.89	1.01	0.09	326036	1053	324983	FALSE
345.12	Partial epilepsy	Neurological	0.91	0.81	1.02	0.09	286450	298	286152	FALSE
371	Inflammation of the eye	Sense Organs	0.92	0.83	1.01	0.09	318796	408	318388	FALSE
480.11	Pneumococcal pneumonia	Respiratory	1.02	1.00	1.05	0.10	323680	5991	317689	FALSE
798	Malaise and fatigue	Symptoms	1.03	0.99	1.07	0.10	327695	2966	324729	FALSE
157	Pancreatic cancer	Neoplasms	1.07	0.99	1.16	0.10	312933	602	312331	FALSE
389.2	Conductive hearing loss	Sense Organs	0.92	0.84	1.01	0.10	318629	435	318194	FALSE
593	Hematuria	Genitourinary	1.01	1.00	1.03	0.10	313795	16760	297035	FALSE
961.1	Poisoning/allergy of sulfonamides	Injuries & Poisonings	0.95	0.89	1.01	0.10	301101	890	300211	FALSE
642.1	Preeclampsia and eclampsia	Pregnancy Complications	0.91	0.82	1.02	0.10	327385	335	327050	FALSE
324	Other CNS infection and poliomyelitis	Neurological	1.10	0.98	1.23	0.10	327426	288	327138	FALSE
601.12	Chronic prostatitis	Genitourinary	1.05	0.99	1.12	0.11	308341	948	307393	FALSE

149.4	Cancer of larynx	Neoplasms	0.90	0.80	1.02	0.11	326307	266	326041	FALSE
601.1	Prostatitis	Genitourinary	1.06	0.99	1.15	0.11	308058	665	307393	FALSE
480.5	Bronchopneumonia and lung abscess	Respiratory	0.92	0.83	1.02	0.11	318077	388	317689	FALSE
433.12	Cerebral atherosclerosis	Circulatory System	1.11	0.98	1.26	0.11	318345	238	318107	FALSE
700	Corns and callosities	Dermatologic	0.91	0.81	1.02	0.11	323352	288	323064	FALSE
525	Other diseases of the teeth and supporting structures	Digestive	1.03	0.99	1.07	0.11	314357	2699	311658	FALSE
458.9	Hypotension NOS	Circulatory System	0.97	0.94	1.01	0.11	197817	3638	194179	FALSE
184.11	Malignant neoplasm of ovary	Neoplasms	0.98	0.95	1.01	0.11	310562	5009	305553	FALSE
728.71	Contracture of palmar fascia [Dupuytren's disease]	Musculoskeletal	0.97	0.93	1.01	0.11	307403	2449	304954	FALSE
41	Bacterial infection NOS	Infectious Diseases	0.98	0.97	1.00	0.11	323384	10752	312632	FALSE
627.4	Premenopausal menorrhagia	Genitourinary	0.92	0.82	1.02	0.11	296563	332	296231	FALSE
187.2	Malignant neoplasm of testis	Neoplasms	0.98	0.95	1.01	0.11	323790	4572	319218	FALSE
636	Early or threatened labor; hemorrhage in early pregnancy	Pregnancy Complications	1.05	0.99	1.11	0.12	321227	1262	319965	FALSE
371.1	Uveitis, noninfectious or NOS	Sense Organs	1.07	0.98	1.17	0.12	318886	498	318388	FALSE
198.6	Secondary malignancy of bone	Neoplasms	1.03	0.99	1.08	0.12	231505	2193	229312	FALSE
451.2	Phlebitis and thrombophlebitis of lower extremities	Circulatory System	1.03	0.99	1.06	0.12	291357	3644	287713	FALSE
722.1	Displacement of intervertebral disc	Musculoskeletal	1.07	0.98	1.17	0.12	311460	516	310944	FALSE
473	Diseases of the larynx and vocal cords	Respiratory	0.96	0.92	1.01	0.12	310564	1614	308950	FALSE
386.9	Dizziness and giddiness (Light-headedness and vertigo)	Sense Organs	0.98	0.95	1.01	0.12	326388	4739	321649	FALSE
916	Contusion	Injuries & Poisonings	0.96	0.91	1.01	0.12	328240	1478	326762	FALSE
395.6	Heart valve replaced	Circulatory System	0.96	0.91	1.01	0.12	323056	1528	321528	FALSE
418.1	Precordial pain	Circulatory System	0.97	0.94	1.01	0.13	299506	3686	295820	FALSE
280.2	Iron deficiency anemia secondary to blood loss (chronic)	Hematopoietic	1.07	0.98	1.17	0.13	309376	476	308900	FALSE
722.6	Degeneration of intervertebral disc	Musculoskeletal	1.03	0.99	1.07	0.13	313866	2922	310944	FALSE
374	Other disorders of eyelids	Sense Organs	0.97	0.94	1.01	0.13	321593	3205	318388	FALSE
426.31	Right bundle branch block	Circulatory System	0.96	0.92	1.01	0.13	301094	1573	299521	FALSE
389	Hearing loss	Sense Organs	0.97	0.94	1.01	0.13	321364	3170	318194	FALSE
276.14	Hypopotassemia	Endocrine/Metabolic	0.96	0.91	1.01	0.13	322115	1471	320644	FALSE
614.54	Abscess or ulceration of vulva	Genitourinary	1.09	0.97	1.23	0.13	319079	280	318799	FALSE
333	Extrapyramidal disease and abnormal movement disorders	Neurological	0.97	0.93	1.01	0.13	288187	2035	286152	FALSE
722.9	Other and unspecified disc disorder	Musculoskeletal	1.02	0.99	1.06	0.13	314894	3950	310944	FALSE
378.1	Strabismus (not specified as paralytic)	Sense Organs	1.05	0.99	1.12	0.13	289139	947	288192	FALSE
477	Epistaxis or throat hemorrhage	Respiratory	0.97	0.93	1.01	0.14	311469	2519	308950	FALSE
702.2	Seborrheic keratosis	Dermatologic	1.03	0.99	1.06	0.14	325769	3169	322600	FALSE
174.11	Malignant neoplasm of female breast	Neoplasms	0.99	0.97	1.00	0.14	316838	12414	304424	FALSE
250.24	Type 2 diabetes with neurological manifestations	Endocrine/Metabolic	0.94	0.87	1.02	0.14	308102	612	307490	FALSE
530.2	Esophageal bleeding (varices/hemorrhage)	Digestive	1.04	0.99	1.09	0.14	289525	1722	287803	FALSE
962.3	Hormones and synthetic substitutes causing adverse effects in therapeutic use	Injuries & Poisonings	1.08	0.98	1.20	0.14	300575	364	300211	FALSE

578.8	Hemorrhage of rectum and anus	Digestive	0.99	0.97	1.00	0.14	317220	13826	303394	FALSE
509.8	Dependence on respirator [Ventilator] or supplemental oxygen	Respiratory	1.08	0.98	1.19	0.14	316885	401	316484	FALSE
465	Acute upper respiratory infections of multiple or unspecified sites	Respiratory	0.97	0.94	1.01	0.14	328232	3053	325179	FALSE
681.2	Cellulitis and abscess of face/neck	Dermatologic	0.94	0.86	1.02	0.14	316936	529	316407	FALSE
726.3	Bursitis	Musculoskeletal	1.06	0.98	1.16	0.14	305497	543	304954	FALSE
681.7	Cellulitis and abscess of trunk	Dermatologic	1.06	0.98	1.15	0.15	317030	623	316407	FALSE
444.1	Arterial embolism and thrombosis of lower extremity artery	Circulatory System	1.06	0.98	1.15	0.15	319930	570	319360	FALSE
202.21	Nodular lymphoma	Neoplasms	1.08	0.97	1.19	0.15	323913	390	323523	FALSE
619.3	Noninflammatory disorders of cervix	Genitourinary	0.97	0.94	1.01	0.15	281393	2845	278548	FALSE
703	Diseases of nail, NOS	Dermatologic	0.93	0.84	1.03	0.15	321795	366	321429	FALSE
528	Diseases of the oral soft tissues, excluding lesions specific for gingiva and tongue	Digestive	0.97	0.93	1.01	0.15	324593	2059	322534	FALSE
221	Benign neoplasm of other female genital organs	Neoplasms	0.91	0.79	1.04	0.15	295974	223	295751	FALSE
475	Chronic sinusitis	Respiratory	1.03	0.99	1.07	0.15	311580	2630	308950	FALSE
281.13	Folate-deficiency anemia	Hematopoietic	1.10	0.96	1.27	0.16	309101	201	308900	FALSE
441	Vascular insufficiency of intestine	Circulatory System	0.92	0.82	1.03	0.16	319657	297	319360	FALSE
642	Hypertension complicating pregnancy, childbirth, and the puerperium	Pregnancy Complications	0.95	0.90	1.02	0.16	328039	989	327050	FALSE
306	Other mental disorder	Mental Disorders	0.99	0.98	1.00	0.16	312303	29405	282898	FALSE
939	Atopic/contact dermatitis due to other or unspecified	Dermatologic	1.03	0.99	1.08	0.16	324060	2154	321906	FALSE
695.3	Rosacea	Dermatologic	0.92	0.83	1.03	0.16	322068	319	321749	FALSE
573.3	Hepatomegaly	Digestive	1.08	0.97	1.21	0.16	318641	310	318331	FALSE
191.11	Cancer of brain	Neoplasms	0.94	0.86	1.03	0.16	326945	498	326447	FALSE
578	Gastrointestinal hemorrhage	Digestive	1.09	0.97	1.22	0.16	303679	285	303394	FALSE
367.2	Astigmatism	Sense Organs	1.10	0.96	1.26	0.16	325964	210	325754	FALSE
727.5	Rupture of synovium	Musculoskeletal	1.08	0.97	1.20	0.17	305298	344	304954	FALSE
702.1	Actinic keratosis	Dermatologic	1.03	0.99	1.07	0.17	325264	2664	322600	FALSE
255.21	Glucocorticoid deficiency	Endocrine/Metabolic	1.07	0.97	1.19	0.17	324917	372	324545	FALSE
361	Retinal detachments and defects	Sense Organs	1.03	0.99	1.07	0.17	319011	2229	316782	FALSE
979	Adverse drug events and drug allergies	Injuries & Poisonings	0.95	0.88	1.02	0.17	300927	716	300211	FALSE
696.42	Psoriatic arthropathy	Dermatologic	1.05	0.98	1.13	0.17	314672	740	313932	FALSE
217.1	Nevus, non-neoplastic	Neoplasms	0.94	0.87	1.02	0.17	320346	597	319749	FALSE
8.6	Viral Enteritis	Infectious Diseases	0.95	0.89	1.02	0.18	319924	845	319079	FALSE
433.3	Cerebral ischemia	Circulatory System	0.96	0.90	1.02	0.18	319041	934	318107	FALSE
508	Pulmonary collapse; interstitial and compensatory emphysema	Respiratory	1.03	0.99	1.08	0.18	318570	2086	316484	FALSE
585.1	Acute renal failure	Genitourinary	0.98	0.95	1.01	0.18	318744	4665	314079	FALSE
8.5	Bacterial enteritis	Infectious Diseases	1.03	0.99	1.07	0.18	321188	2109	319079	FALSE
281.11	Pernicious anemia	Hematopoietic	0.95	0.89	1.02	0.18	309650	750	308900	FALSE
426.3	Bundle branch block	Circulatory System	1.08	0.96	1.21	0.18	299812	291	299521	FALSE
526.1	Cysts of the jaws	Digestive	1.08	0.97	1.20	0.18	311993	335	311658	FALSE

278.1	Obesity	Endocrine/Metabolic	0.99	0.97	1.01	0.19	328110	11143	316967	FALSE
752	Nervous system congenital anomalies	Congenital Anomalies	0.92	0.82	1.04	0.19	327963	288	327675	FALSE
528.11	Stomatitis and mucositis (ulcerative)	Digestive	1.07	0.97	1.17	0.19	322945	411	322534	FALSE
969	Poisoning by psychotropic agents	Injuries & Poisonings	1.03	0.99	1.08	0.19	302207	1996	300211	FALSE
394	Rheumatic disease of the heart valves	Circulatory System	0.96	0.90	1.02	0.19	322471	943	321528	FALSE
226	Benign neoplasm of thyroid glands	Neoplasms	1.08	0.96	1.22	0.19	326908	266	326642	FALSE
211	Benign neoplasm of other parts of digestive system	Neoplasms	1.02	0.99	1.05	0.19	319683	5375	314308	FALSE
199	Neoplasm of uncertain behavior	Neoplasms	0.96	0.91	1.02	0.19	230468	1156	229312	FALSE
442.1	Aortic aneurysm	Circulatory System	0.95	0.87	1.03	0.19	319946	586	319360	FALSE
717	Polymyalgia Rheumatica	Musculoskeletal	1.04	0.98	1.10	0.19	328240	1147	327093	FALSE
374.1	Ectropion or entropion	Sense Organs	1.04	0.98	1.10	0.19	319480	1092	318388	FALSE
610.8	Other specified benign mammary dysplasias	Genitourinary	1.05	0.98	1.13	0.20	321576	703	320873	FALSE
474	Acute and chronic tonsillitis	Respiratory	1.05	0.97	1.14	0.20	309554	604	308950	FALSE
530.5	Disorders of esophageal motility	Digestive	1.05	0.97	1.14	0.20	288452	649	287803	FALSE
624.9	stress incontinence, female	Genitourinary	1.02	0.99	1.04	0.20	324769	6100	318669	FALSE
550.2	Diaphragmatic hernia	Digestive	1.01	1.00	1.02	0.20	307453	27664	279789	FALSE
859	Complication due to other implant and internal device	Injuries & Poisonings	0.98	0.95	1.01	0.20	317302	3338	313964	FALSE
473.3	Paralysis/spasm of vocal cords or larynx	Respiratory	0.92	0.82	1.04	0.20	309217	267	308950	FALSE
571.5	Other chronic nonalcoholic liver disease	Digestive	1.03	0.98	1.08	0.20	320004	1673	318331	FALSE
348.8	Encephalopathy, not elsewhere classified	Neurological	1.09	0.95	1.25	0.21	286356	204	286152	FALSE
689	Disorder of skin and subcutaneous tissue NOS	Dermatologic	1.01	1.00	1.02	0.21	328240	42194	286046	FALSE
426.23	Second degree AV block	Circulatory System	1.06	0.97	1.16	0.21	299982	461	299521	FALSE
647.1	Infections of genitourinary tract during pregnancy	Pregnancy Complications	1.08	0.96	1.21	0.21	328128	284	327844	FALSE
614.33	Pelvic inflammatory disease, NOS	Genitourinary	0.98	0.96	1.01	0.21	324944	6145	318799	FALSE
573	Other disorders of liver	Digestive	1.02	0.99	1.05	0.21	323533	5202	318331	FALSE
938.2	Chronic dermatitis due to solar radiation	Injuries & Poisonings	0.93	0.82	1.04	0.21	322170	264	321906	FALSE
316	Substance addiction and disorders	Mental Disorders	1.07	0.96	1.18	0.21	298042	373	297669	FALSE
858	Complication of internal orthopedic device	Injuries & Poisonings	0.98	0.94	1.01	0.21	317147	3183	313964	FALSE
290.2	Delirium due to conditions classified elsewhere	Mental Disorders	0.95	0.88	1.03	0.21	322151	681	321470	FALSE
276.5	Hypovolemia	Endocrine/Metabolic	1.02	0.99	1.06	0.21	323539	2895	320644	FALSE
704	Diseases of hair and hair follicles	Dermatologic	1.02	0.99	1.05	0.21	326692	5263	321429	FALSE
361.1	Retinal detachment with retinal defect	Sense Organs	0.97	0.92	1.02	0.22	318238	1456	316782	FALSE
195	Cancer, suspected or other	Neoplasms	1.04	0.98	1.11	0.22	230227	915	229312	FALSE
618.2	Uterine/Uterovaginal prolapse	Genitourinary	1.02	0.99	1.04	0.22	321713	5471	316242	FALSE
575.8	Other disorders of biliary tract	Digestive	0.96	0.91	1.02	0.22	311372	1049	310323	FALSE
574.1	Cholelithiasis	Digestive	1.01	0.99	1.03	0.22	319629	9306	310323	FALSE
458.1	Orthostatic hypotension	Circulatory System	0.97	0.92	1.02	0.22	195553	1374	194179	FALSE
729	Other disorders of soft tissues	Musculoskeletal	1.01	0.99	1.02	0.22	327478	22524	304954	FALSE

331	Other cerebral degenerations	Neurological	1.08	0.95	1.23	0.22	286392	240	286152	FALSE
634	Miscarriage; stillbirth	Pregnancy Complications	0.98	0.95	1.01	0.22	324534	4569	319965	FALSE
193	Thyroid cancer	Neoplasms	0.94	0.85	1.04	0.23	327009	367	326642	FALSE
790.6	Other abnormal blood chemistry	Symptoms	0.98	0.96	1.01	0.23	328029	6529	321500	FALSE
41.4	E. coli	Infectious Diseases	0.98	0.94	1.01	0.23	315432	2800	312632	FALSE
740.12	Osteoarthrosis, localized, secondary	Musculoskeletal	0.93	0.82	1.05	0.23	306589	264	306325	FALSE
218.1	Uterine leiomyoma	Neoplasms	0.99	0.97	1.01	0.23	318346	10566	307780	FALSE
450	Noninfectious disorders of lymphatic channels	Circulatory System	0.96	0.89	1.03	0.23	328240	717	327523	FALSE
497	Bronchitis	Respiratory	1.05	0.97	1.13	0.23	294834	642	294192	FALSE
519	Other diseases of respiratory system, not elsewhere classified	Respiratory	0.99	0.99	1.00	0.23	327615	62168	265447	FALSE
427.12	Paroxysmal ventricular tachycardia	Circulatory System	1.04	0.98	1.11	0.23	300490	969	299521	FALSE
743.9	Osteopenia or other disorder of bone and cartilage	Musculoskeletal	0.98	0.95	1.01	0.23	328188	3989	324199	FALSE
965.1	Opiates and related narcotics causing adverse effects in therapeutic use	Injuries & Poisonings	1.04	0.98	1.10	0.23	301372	1161	300211	FALSE
519.8	Other diseases of respiratory system, NEC	Respiratory	1.01	0.99	1.03	0.24	274529	9082	265447	FALSE
70.4	Chronic hepatitis	Infectious Diseases	1.07	0.96	1.20	0.24	322496	290	322206	FALSE
200	Myeloproliferative disease	Neoplasms	1.05	0.97	1.13	0.24	324202	679	323523	FALSE
735.3	Hallux valgus (Bunion)	Musculoskeletal	1.01	0.99	1.04	0.24	323592	6905	316687	FALSE
440.9	Atherosclerosis of aorta	Circulatory System	0.92	0.80	1.06	0.24	319562	202	319360	FALSE
274.1	Gout	Endocrine/Metabolic	0.97	0.93	1.02	0.24	327930	1668	326262	FALSE
618.1	Prolapse of vaginal walls	Genitourinary	1.01	0.99	1.04	0.24	323726	7484	316242	FALSE
458.2	Iatrogenic hypotension	Circulatory System	0.93	0.82	1.05	0.25	194417	238	194179	FALSE
556	Ulceration of the lower GI tract	Digestive	0.95	0.86	1.04	0.25	258836	440	258396	FALSE
208	Benign neoplasm of colon	Neoplasms	0.99	0.98	1.01	0.25	325437	20827	304610	FALSE
526.41	Temporomandibular joint disorder, unspecified	Digestive	1.08	0.95	1.23	0.25	311886	228	311658	FALSE
427.11	Paroxysmal supraventricular tachycardia	Circulatory System	0.98	0.94	1.02	0.25	301952	2431	299521	FALSE
184.1	Malignant neoplasm of ovary and other uterine adnexa	Neoplasms	0.98	0.94	1.02	0.25	308106	2553	305553	FALSE
727.1	Synovitis and tenosynovitis	Musculoskeletal	1.04	0.97	1.13	0.25	305641	687	304954	FALSE
646	Other complications of pregnancy NEC	Pregnancy Complications	1.02	0.98	1.07	0.26	328240	2396	325844	FALSE
626.1	Irregular menstrual cycle/bleeding	Genitourinary	1.02	0.99	1.05	0.26	299824	3593	296231	FALSE
506	Empyema and pneumothorax	Respiratory	0.97	0.91	1.02	0.26	317630	1146	316484	FALSE
512.7	Shortness of breath	Respiratory	1.01	0.99	1.04	0.26	320384	6116	314268	FALSE
317.1	Alcoholism	Mental Disorders	0.99	0.97	1.01	0.26	306366	8697	297669	FALSE
286.12	Congenital deficiency of other clotting factors (including factor VII)	Hematopoietic	0.94	0.84	1.05	0.26	325800	303	325497	FALSE
371.3	Inflammation of eyelids	Sense Organs	0.98	0.94	1.02	0.26	320786	2398	318388	FALSE
571.6	Primary biliary cirrhosis	Digestive	0.93	0.82	1.05	0.26	318589	258	318331	FALSE
458	Hypotension	Circulatory System	0.97	0.91	1.03	0.26	195260	1081	194179	FALSE
465.2	Acute pharyngitis	Respiratory	0.96	0.90	1.03	0.26	326053	874	325179	FALSE
292	Neurological disorders	Mental Disorders	1.05	0.96	1.16	0.27	321919	449	321470	FALSE

297.2	Suicide or self-inflicted injury	Mental Disorders	1.02	0.98	1.06	0.27	285655	2757	282898	FALSE
364.5	Corneal dystrophy	Sense Organs	1.08	0.94	1.23	0.27	316998	216	316782	FALSE
870.4	Open wound of nose and sinus	Injuries & Poisonings	1.07	0.95	1.22	0.27	319969	238	319731	FALSE
994.2	Sepsis	Injuries & Poisonings	0.98	0.94	1.02	0.27	328240	2885	325355	FALSE
597	Other disorders of urethra and urinary tract	Genitourinary	0.96	0.90	1.03	0.27	314510	874	313636	FALSE
604	Disorders of penis	Genitourinary	1.04	0.97	1.12	0.27	308641	735	307906	FALSE
724.9	Other unspecified back disorders	Musculoskeletal	1.01	0.99	1.02	0.27	328029	17085	310944	FALSE
564.1	Irritable Bowel Syndrome	Digestive	1.01	0.99	1.04	0.27	264057	5661	258396	FALSE
202	Cancer of other lymphoid, histiocytic tissue	Neoplasms	0.97	0.91	1.03	0.27	324661	1138	323523	FALSE
569	Other disorders of intestine	Digestive	1.00	1.00	1.01	0.27	326148	79488	246660	FALSE
337	Disorders of the autonomic nervous system	Neurological	1.08	0.94	1.24	0.28	286359	207	286152	FALSE
695.42	Systemic lupus erythematosus	Dermatologic	1.06	0.96	1.17	0.28	320784	363	320421	FALSE
803.1	Fracture of humerus	Injuries & Poisonings	0.94	0.84	1.05	0.28	323850	293	323557	FALSE
535.2	Atrophic gastritis	Digestive	1.06	0.96	1.17	0.28	296869	358	296511	FALSE
619.4	Noninflammatory disorders of vagina	Genitourinary	1.03	0.98	1.08	0.28	280328	1780	278548	FALSE
272.11	Hypercholesterolemia	Endocrine/Metabolic	0.99	0.98	1.01	0.28	325499	34002	291497	FALSE
627.3	Postmenopausal atrophic vaginitis	Genitourinary	1.03	0.97	1.10	0.28	297359	1128	296231	FALSE
242	Thyrotoxicosis with or without goiter	Endocrine/Metabolic	0.97	0.92	1.02	0.28	311794	1465	310329	FALSE
560.1	Paralytic ileus	Digestive	0.95	0.87	1.04	0.28	258916	520	258396	FALSE
225.1	Benign neoplasm of brain, cranial nerves, meninges	Neoplasms	1.04	0.97	1.11	0.28	327267	820	326447	FALSE
716.1	Unspecified polyarthropathy or polyarthritis	Musculoskeletal	1.02	0.99	1.05	0.28	277426	3530	273896	FALSE
292.3	Memory loss	Mental Disorders	0.96	0.89	1.03	0.28	322208	738	321470	FALSE
530.1	Esophagitis, GERD and related diseases	Digestive	0.99	0.97	1.01	0.29	297342	9539	287803	FALSE
365.11	Primary open angle glaucoma	Sense Organs	1.03	0.97	1.10	0.29	317838	1056	316782	FALSE
540.1	Appendicitis	Digestive	1.04	0.97	1.11	0.29	325174	795	324379	FALSE
504	Other alveolar and parietoalveolar pneumonopathy	Respiratory	0.94	0.84	1.05	0.29	316793	309	316484	FALSE
614.51	Cervicitis and endocervicitis	Genitourinary	0.97	0.92	1.03	0.29	320048	1249	318799	FALSE
592.13	Chronic interstitial cystitis	Genitourinary	0.94	0.83	1.06	0.29	297289	254	297035	FALSE
559	Ileostomy status	Digestive	1.03	0.98	1.08	0.29	260069	1673	258396	FALSE
433.5	Cerebral aneurysm	Circulatory System	0.95	0.86	1.05	0.29	318505	398	318107	FALSE
771	Musculoskeletal symptoms referable to limbs	Symptoms	1.04	0.97	1.11	0.29	327405	891	326514	FALSE
636.3	Hemorrhage in early pregnancy	Pregnancy Complications	1.03	0.97	1.10	0.29	321078	1113	319965	FALSE
172.2	Other non-epithelial cancer of skin	Neoplasms	1.01	0.99	1.03	0.30	325462	11242	314220	FALSE
512.1	Wheezing	Respiratory	1.07	0.94	1.22	0.30	314499	231	314268	FALSE
594.2	Calculus of lower urinary tract	Genitourinary	0.96	0.90	1.03	0.30	320761	830	319931	FALSE
751.22	Other specified congenital anomalies of kidney	Congenital Anomalies	0.95	0.85	1.05	0.30	326353	350	326003	FALSE
870.1	Open wound or laceration of eye or eyelid	Injuries & Poisonings	0.94	0.83	1.06	0.30	320012	281	319731	FALSE
136	Other infectious and parasitic diseases	Infectious Diseases	1.05	0.96	1.16	0.30	327982	428	327554	FALSE

246	Other disorders of thyroid	Endocrine/Metabolic	0.99	0.98	1.01	0.30	327738	17409	310329	FALSE
967	Adverse effects of sedatives or other central nervous system depressants and anesthetics	Injuries & Poisonings	0.96	0.88	1.04	0.30	300790	579	300211	FALSE
480	Pneumonia	Respiratory	0.98	0.95	1.02	0.30	321603	3914	317689	FALSE
384.4	Perforation of tympanic membrane	Sense Organs	0.97	0.91	1.03	0.30	325167	1024	324143	FALSE
724.1	Disorders of sacrum	Musculoskeletal	0.94	0.84	1.06	0.30	311225	281	310944	FALSE
724.2	Disorders of coccyx	Musculoskeletal	0.94	0.84	1.06	0.30	311226	282	310944	FALSE
512	Other symptoms of respiratory system	Respiratory	0.99	0.96	1.01	0.30	319772	5504	314268	FALSE
359.2	Myopathy	Neurological	0.95	0.87	1.04	0.30	326450	498	325952	FALSE
655	Known or suspected fetal abnormality affecting management of mother	Pregnancy Complications	1.02	0.99	1.05	0.30	328240	4575	323665	FALSE
427.41	Ventricular fibrillation and flutter	Circulatory System	1.06	0.95	1.17	0.30	299866	345	299521	FALSE
213	Benign neoplasm of bone and articular cartilage	Neoplasms	1.06	0.95	1.18	0.31	277528	322	277206	FALSE
276.41	Acidosis	Endocrine/Metabolic	0.97	0.91	1.03	0.31	321700	1056	320644	FALSE
557	Intestinal malabsorption (non-celiac)	Digestive	1.06	0.95	1.19	0.31	258690	294	258396	FALSE
153.3	Malignant neoplasm of rectum, rectosigmoid junction, and anus	Neoplasms	0.98	0.94	1.02	0.31	303397	2117	301280	FALSE
153.2	Colon cancer	Neoplasms	0.98	0.95	1.02	0.31	304402	3122	301280	FALSE
686.1	Carbuncle and furuncle	Dermatologic	1.02	0.98	1.06	0.31	318829	2422	316407	FALSE
728.7	Fasciitis	Musculoskeletal	0.93	0.81	1.07	0.31	305167	213	304954	FALSE
180.3	Cervical intraepithelial neoplasia [CIN] [Cervical dysplasia]	Neoplasms	1.02	0.98	1.07	0.31	299736	2153	297583	FALSE
530	Diseases of esophagus	Digestive	1.04	0.97	1.11	0.31	288604	801	287803	FALSE
574.2	Calculus of bile duct	Digestive	1.02	0.98	1.06	0.31	313011	2688	310323	FALSE
579	Other symptoms involving abdomen and pelvis	Digestive	0.97	0.92	1.03	0.31	304580	1186	303394	FALSE
145.2	Cancer of tongue	Neoplasms	0.95	0.85	1.05	0.32	326366	325	326041	FALSE
367.1	Myopia	Sense Organs	1.03	0.97	1.09	0.32	327025	1271	325754	FALSE
443.1	Raynaud's syndrome	Circulatory System	1.03	0.97	1.09	0.32	320525	1165	319360	FALSE
516.1	Hemoptysis	Respiratory	1.02	0.98	1.07	0.32	328154	2103	326051	FALSE
714.1	Rheumatoid arthritis	Musculoskeletal	1.02	0.98	1.06	0.32	319560	2307	317253	FALSE
352.1	Trigeminal nerve disorders [CN5]	Neurological	0.95	0.87	1.05	0.32	313473	462	313011	FALSE
598	Abnormal findings on examination of urine	Genitourinary	1.02	0.98	1.05	0.33	328240	3386	324854	FALSE
276.6	Fluid overload	Endocrine/Metabolic	0.96	0.87	1.05	0.33	321117	473	320644	FALSE
736	Other acquired deformities of limbs	Musculoskeletal	1.06	0.95	1.18	0.33	316998	311	316687	FALSE
599.4	Urinary incontinence	Genitourinary	1.01	0.99	1.03	0.33	229423	8996	220427	FALSE
696.4	Psoriasis	Dermatologic	1.02	0.98	1.08	0.33	315554	1622	313932	FALSE
738	Other acquired musculoskeletal deformity	Musculoskeletal	0.95	0.87	1.05	0.33	317104	417	316687	FALSE
189	Cancer of urinary organs (incl. kidney and bladder)	Neoplasms	1.02	0.98	1.06	0.33	326965	3003	323962	FALSE
496	Chronic airway obstruction	Respiratory	0.99	0.97	1.01	0.33	301827	7635	294192	FALSE
276.11	Hyperosmolality and/or hypernatremia	Endocrine/Metabolic	1.06	0.94	1.20	0.33	320891	247	320644	FALSE
741	Symptoms and disorders of the joints	Musculoskeletal	1.01	0.99	1.02	0.34	327531	16889	310642	FALSE
381.9	Otorrhea	Sense Organs	0.94	0.84	1.06	0.34	324420	277	324143	FALSE

353	Nerve root and plexus disorders	Neurological	1.03	0.97	1.10	0.34	314005	994	313011	FALSE
602	Other disorders of prostate	Genitourinary	0.97	0.92	1.03	0.34	308765	1372	307393	FALSE
625	Pain and other symptoms associated with female genital organs	Genitourinary	0.98	0.94	1.02	0.34	320718	2049	318669	FALSE
608	Other disorders of male genital organs	Genitourinary	1.01	0.99	1.02	0.34	327998	20092	307906	FALSE
622.2	Mucous polyp of cervix	Genitourinary	0.98	0.95	1.02	0.34	318829	3522	315307	FALSE
78	Viral warts & HPV	Infectious Diseases	1.03	0.97	1.10	0.34	323218	1012	322206	FALSE
289.3	Personal history of diseases of blood and blood-forming organs	Hematopoietic	0.95	0.84	1.06	0.34	320615	297	320318	FALSE
250.7	Diabetic retinopathy	Endocrine/Metabolic	0.97	0.92	1.03	0.35	317232	1380	315852	FALSE
627.2	Symptomatic menopause	Genitourinary	1.07	0.93	1.23	0.35	296434	203	296231	FALSE
442.11	Abdominal aortic aneurysm	Circulatory System	0.97	0.91	1.04	0.35	320257	897	319360	FALSE
737.3	Kyphoscoliosis and scoliosis	Musculoskeletal	0.95	0.86	1.06	0.35	317058	371	316687	FALSE
372	Disorders of conjunctiva	Sense Organs	0.97	0.91	1.03	0.35	319431	1043	318388	FALSE
350.3	Lack of coordination	Neurological	1.05	0.95	1.16	0.35	325804	360	325444	FALSE
496.21	Obstructive chronic bronchitis	Respiratory	0.98	0.95	1.02	0.35	296921	2729	294192	FALSE
597.1	Urethral stricture (not specified as infectious)	Genitourinary	1.02	0.98	1.05	0.35	317079	3443	313636	FALSE
789	Nausea and vomiting	Symptoms	0.99	0.97	1.01	0.35	328240	11983	316257	FALSE
512.8	Cough	Respiratory	1.02	0.98	1.05	0.35	317232	2964	314268	FALSE
289.4	Lymphadenitis	Hematopoietic	0.98	0.95	1.02	0.35	323033	2715	320318	FALSE
427.7	Tachycardia NOS	Circulatory System	1.02	0.98	1.06	0.35	301787	2266	299521	FALSE
187.1	Malignant neoplasm of unspecified male genital organ	Neoplasms	0.99	0.97	1.01	0.35	327699	8481	319218	FALSE
801	Fracture of ankle and foot	Injuries & Poisonings	0.94	0.83	1.07	0.36	323808	251	323557	FALSE
38	Septicemia	Infectious Diseases	0.98	0.95	1.02	0.36	315677	3045	312632	FALSE
70	Viral hepatitis	Infectious Diseases	1.04	0.96	1.11	0.36	322928	722	322206	FALSE
681.3	Cellulitis and abscess of arm/hand	Dermatologic	0.99	0.96	1.01	0.36	322177	5770	316407	FALSE
751.2	Congenital anomalies of urinary system	Congenital Anomalies	0.97	0.91	1.04	0.36	326908	905	326003	FALSE
590	Pyelonephritis	Genitourinary	1.01	0.98	1.05	0.36	300960	3925	297035	FALSE
618	Genital prolapse	Genitourinary	0.96	0.89	1.04	0.36	316862	620	316242	FALSE
740.11	Osteoarthrosis, localized, primary	Musculoskeletal	1.01	0.99	1.03	0.36	315552	9227	306325	FALSE
427.4	Cardiac arrest and ventricular fibrillation	Circulatory System	1.05	0.95	1.17	0.36	299869	348	299521	FALSE
327	Sleep disorders	Neurological	1.03	0.97	1.09	0.36	323754	1034	322720	FALSE
81	Infection/inflammation of internal prosthetic device; implant; and graft	Infectious Diseases	0.98	0.94	1.02	0.36	323993	2514	321479	FALSE
573.5	Jaundice (not of newborn)	Digestive	1.03	0.97	1.10	0.36	319269	938	318331	FALSE
577.3	Cyst and pseudocyst of pancreas	Digestive	0.95	0.86	1.06	0.37	326295	375	325920	FALSE
202.2	Non-Hodgkins lymphoma	Neoplasms	1.02	0.98	1.05	0.37	327055	3532	323523	FALSE
345.1	Epilepsy	Neurological	1.05	0.94	1.17	0.37	286483	331	286152	FALSE
364	Corneal opacity and other disorders of cornea	Sense Organs	1.06	0.93	1.21	0.37	317009	227	316782	FALSE
296.1	Bipolar	Mental Disorders	1.03	0.97	1.09	0.37	284019	1121	282898	FALSE
601.8	Other inflammatory disorders of male genital organs	Genitourinary	0.95	0.85	1.06	0.37	307698	305	307393	FALSE

454.1	Varicose veins of lower extremity	Circulatory System	1.01	0.99	1.03	0.37	299275	11562	287713	FALSE
430.2	Intracerebral hemorrhage	Circulatory System	0.97	0.90	1.04	0.37	318830	723	318107	FALSE
585.2	Renal failure NOS	Genitourinary	0.99	0.97	1.01	0.37	322824	8745	314079	FALSE
715	Other inflammatory spondylopathies	Musculoskeletal	1.05	0.94	1.19	0.38	317524	271	317253	FALSE
327.3	Sleep apnea	Neurological	1.01	0.98	1.04	0.38	327419	4699	322720	FALSE
727	Other disorders of synovium, tendon, and bursa	Musculoskeletal	1.03	0.96	1.11	0.38	305708	754	304954	FALSE
290.1	Dementias	Mental Disorders	1.04	0.96	1.12	0.38	322121	651	321470	FALSE
613.8	Other specified disorders of breast	Genitourinary	0.95	0.86	1.06	0.38	322773	355	322418	FALSE
272.9	Unspecified disorder of lipoid metabolism	Endocrine/Metabolic	0.94	0.83	1.08	0.39	291721	224	291497	FALSE
854	Complications of cardiac/vascular device, implant, and graft	Injuries & Poisonings	0.98	0.94	1.03	0.39	315807	1843	313964	FALSE
681.6	Cellulitis and abscess of foot, toe	Dermatologic	0.99	0.96	1.01	0.39	322141	5734	316407	FALSE
172.3	Carcinoma in situ of skin	Neoplasms	1.03	0.96	1.12	0.39	314884	664	314220	FALSE
613.1	Inflammatory disease of breast	Genitourinary	0.97	0.90	1.04	0.39	323156	738	322418	FALSE
836	Traumatic arthropathy	Injuries & Poisonings	1.06	0.93	1.20	0.39	322016	243	321773	FALSE
446.5	Giant cell arteritis	Circulatory System	0.96	0.87	1.06	0.39	319750	390	319360	FALSE
509.1	Respiratory failure	Respiratory	0.98	0.94	1.02	0.39	318564	2080	316484	FALSE
455	Hemorrhoids	Circulatory System	0.99	0.98	1.01	0.39	312410	24697	287713	FALSE
586.4	Stricture/obstruction of ureter	Genitourinary	0.97	0.91	1.04	0.39	315018	939	314079	FALSE
149.1	Cancer of oropharynx	Neoplasms	1.05	0.93	1.19	0.39	326297	256	326041	FALSE
550	Abdominal hernia	Digestive	1.00	0.99	1.01	0.39	328240	48451	279789	FALSE
269	Proteinuria	Endocrine/Metabolic	1.05	0.94	1.16	0.39	327850	355	327495	FALSE
369	Infection of the eye	Sense Organs	0.95	0.84	1.07	0.40	318642	254	318388	FALSE
344	Other paralytic syndromes	Neurological	0.97	0.90	1.04	0.40	286841	689	286152	FALSE
514	Abnormal findings examination of lungs	Respiratory	1.02	0.98	1.06	0.40	328212	2577	325635	FALSE
90	Sexually transmitted infections (not HIV or hepatitis)	Infectious Diseases	1.05	0.94	1.18	0.40	328239	298	327941	FALSE
433.21	Cerebral artery occlusion, with cerebral infarction	Circulatory System	0.98	0.93	1.03	0.40	319641	1534	318107	FALSE
427.5	Arrhythmia (cardiac) NOS	Circulatory System	0.97	0.91	1.04	0.40	300469	948	299521	FALSE
348.2	Cerebral edema and compression of brain	Neurological	1.05	0.93	1.19	0.41	286412	260	286152	FALSE
368.4	Visual field defects	Sense Organs	0.96	0.86	1.06	0.41	325215	333	324882	FALSE
429.2	Abnormal function study of cardiovascular system	Circulatory System	0.96	0.89	1.05	0.41	322577	544	322033	FALSE
275.3	Disorders of magnesium metabolism	Endocrine/Metabolic	0.96	0.87	1.06	0.41	326410	375	326035	FALSE
362.2	Degeneration of macula and posterior pole of retina	Sense Organs	0.98	0.94	1.02	0.41	318055	2203	315852	FALSE
362.29	Macular degeneration (senile) of retina NOS	Sense Organs	0.98	0.94	1.02	0.41	318052	2200	315852	FALSE
415	Pulmonary heart disease	Circulatory System	1.01	0.98	1.05	0.41	325300	3753	321547	FALSE
348.7	Coma	Neurological	1.04	0.94	1.15	0.41	286531	379	286152	FALSE
185	Cancer of prostate	Neoplasms	0.99	0.97	1.01	0.41	315856	8463	307393	FALSE
599.3	Dysuria	Genitourinary	1.02	0.97	1.08	0.41	221636	1209	220427	FALSE
681.5	Cellulitis and abscess of leg, except foot	Dermatologic	0.99	0.96	1.02	0.42	322184	5777	316407	FALSE

614.32	Chronic inflammatory pelvic disease	Genitourinary	0.96	0.87	1.06	0.42	319224	425	318799	FALSE
214.1	Lipoma of skin and subcutaneous tissue	Neoplasms	0.99	0.96	1.02	0.42	325432	4756	320676	FALSE
348.9	Other conditions of brain, NOS	Neurological	1.04	0.94	1.15	0.42	286559	407	286152	FALSE
578.1	Hematemesis	Digestive	0.98	0.94	1.03	0.42	305428	2034	303394	FALSE
441.1	Acute vascular insufficiency of intestine	Circulatory System	1.05	0.93	1.18	0.43	319631	271	319360	FALSE
276.13	Hyperpotassemia	Endocrine/Metabolic	0.97	0.92	1.04	0.43	321623	979	320644	FALSE
275.1	Disorders of iron metabolism	Hematopoietic	1.03	0.96	1.11	0.43	326735	700	326035	FALSE
394.3	Aortic valve disease	Circulatory System	0.98	0.93	1.03	0.43	322836	1308	321528	FALSE
279.7	Other immunological findings	Endocrine/Metabolic	0.95	0.84	1.08	0.44	327978	264	327714	FALSE
159	Malignant neoplasm of other and ill-defined sites within the digestive organs and peritoneum	Neoplasms	0.99	0.96	1.02	0.44	317620	5289	312331	FALSE
195.1	Malignant neoplasm, other	Neoplasms	1.00	0.99	1.00	0.44	320138	90826	229312	FALSE
430.1	Subarachnoid hemorrhage	Circulatory System	1.03	0.96	1.10	0.44	318931	824	318107	FALSE
444	Arterial embolism and thrombosis	Circulatory System	0.96	0.88	1.06	0.44	319794	434	319360	FALSE
586	Other disorders of the kidney and ureters	Genitourinary	0.99	0.95	1.02	0.44	317490	3411	314079	FALSE
687	Symptoms affecting skin	Dermatologic	0.95	0.83	1.08	0.44	323032	218	322814	FALSE
250.23	Type 2 diabetes with ophthalmic manifestations	Endocrine/Metabolic	0.98	0.93	1.03	0.44	308834	1344	307490	FALSE
433.31	Transient cerebral ischemia	Circulatory System	0.98	0.94	1.03	0.45	320281	2174	318107	FALSE
599.9	Other abnormality of urination	Genitourinary	1.02	0.97	1.06	0.45	222371	1944	220427	FALSE
555.1	Regional enteritis	Digestive	1.02	0.97	1.07	0.45	260201	1805	258396	FALSE
579.8	Nonspecific abnormal findings in stool contents	Digestive	1.02	0.97	1.07	0.45	305134	1740	303394	FALSE
634.3	Ectopic pregnancy	Pregnancy Complications	1.04	0.94	1.16	0.45	320307	342	319965	FALSE
451	Phlebitis and thrombophlebitis	Circulatory System	0.96	0.87	1.06	0.46	288110	397	287713	FALSE
697	Sarcoidosis	Dermatologic	1.03	0.95	1.12	0.46	322309	560	321749	FALSE
743.11	Osteoporosis NOS	Musculoskeletal	0.99	0.95	1.02	0.46	327235	3036	324199	FALSE
550.5	Ventral hernia	Digestive	1.01	0.98	1.05	0.46	283371	3582	279789	FALSE
331.1	Hydrocephalus	Neurological	0.97	0.89	1.06	0.46	286652	500	286152	FALSE
622.1	Polyp of corpus uteri	Genitourinary	1.01	0.99	1.03	0.47	323490	8183	315307	FALSE
747.13	Congenital anomalies of great vessels	Congenital Anomalies	0.98	0.94	1.03	0.47	327177	1823	325354	FALSE
289.5	Diseases of spleen	Hematopoietic	0.97	0.89	1.06	0.47	320846	528	320318	FALSE
150	Cancer of esophagus	Neoplasms	1.03	0.96	1.10	0.47	313058	727	312331	FALSE
540	Appendiceal conditions	Digestive	1.01	0.98	1.04	0.47	328240	3861	324379	FALSE
427.9	Palpitations	Circulatory System	0.99	0.96	1.02	0.48	303480	3959	299521	FALSE
801.1	Fracture of foot	Injuries & Poisonings	0.97	0.88	1.06	0.48	323975	418	323557	FALSE
635.3	Placenta previa and abruptio placenta	Pregnancy Complications	1.02	0.97	1.08	0.48	321301	1336	319965	FALSE
262	Mineral deficiency NEC	Endocrine/Metabolic	1.05	0.92	1.19	0.48	326027	241	325786	FALSE
292.4	Altered mental status	Mental Disorders	1.01	0.97	1.06	0.48	323742	2272	321470	FALSE
749	Congenital anomalies of face and neck	Congenital Anomalies	0.96	0.85	1.08	0.48	328137	271	327866	FALSE
752.11	Spina bifida	Congenital Anomalies	0.95	0.83	1.09	0.48	327886	211	327675	FALSE

218.2	Other benign neoplasm of uterus	Neoplasms	1.04	0.94	1.15	0.48	308143	363	307780	FALSE
38.1	Gram negative septicemia	Infectious Diseases	1.02	0.96	1.10	0.48	313487	855	312632	FALSE
189.21	Malignant neoplasm of bladder	Neoplasms	1.02	0.97	1.06	0.48	326150	2188	323962	FALSE
395.2	Nonrheumatic aortic valve disorders	Circulatory System	0.96	0.84	1.08	0.48	321775	247	321528	FALSE
596.5	Functional disorders of bladder	Genitourinary	1.02	0.97	1.07	0.48	315318	1682	313636	FALSE
687.1	Rash and other nonspecific skin eruption	Dermatologic	1.01	0.97	1.06	0.49	325032	2218	322814	FALSE
522	Diseases of pulp and periapical tissues	Digestive	1.03	0.95	1.11	0.49	312297	639	311658	FALSE
722	Intervertebral disc disorders	Musculoskeletal	1.01	0.98	1.04	0.49	316907	5963	310944	FALSE
284	Aplastic anemia	Hematopoietic	0.99	0.98	1.01	0.49	321659	12759	308900	FALSE
496.3	Bronchiectasis	Respiratory	0.98	0.94	1.03	0.49	296077	1885	294192	FALSE
723	Other disorders of cervical region	Musculoskeletal	1.04	0.94	1.14	0.49	311345	401	310944	FALSE
870	Open wounds of head; neck; and trunk	Injuries & Poisonings	0.97	0.90	1.05	0.49	320327	596	319731	FALSE
624.1	Dystrophy of female genital tract	Genitourinary	0.96	0.84	1.09	0.49	318909	240	318669	FALSE
340	Migraine	Neurological	1.01	0.98	1.05	0.49	320723	2773	317950	FALSE
531.3	Duodenal ulcer	Digestive	0.99	0.95	1.02	0.49	323644	3095	320549	FALSE
300.12	Agorophobia, social phobia, and panic disorder	Mental Disorders	0.98	0.91	1.05	0.49	283642	744	282898	FALSE
528.5	Diseases of lips	Digestive	1.03	0.95	1.11	0.49	323215	681	322534	FALSE
384	Other disorders of tympanic membrane	Sense Organs	0.97	0.88	1.06	0.50	324573	430	324143	FALSE
292.1	Aphasia/speech disturbance	Mental Disorders	0.98	0.93	1.03	0.50	323019	1549	321470	FALSE
557.1	Celiac disease	Digestive	0.98	0.94	1.03	0.50	260290	1894	258396	FALSE
626.8	Infertility, female	Genitourinary	0.98	0.93	1.04	0.50	297638	1407	296231	FALSE
614.5	Inflammatory disease of cervix, vagina, and vulva	Genitourinary	1.04	0.93	1.15	0.50	319133	334	318799	FALSE
430.3	Subdural hemorrhage	Circulatory System	0.96	0.85	1.08	0.50	318378	271	318107	FALSE
819	Skull and face fracture and other intercranial injury	Injuries & Poisonings	1.02	0.97	1.07	0.51	328056	1517	326539	FALSE
426.4	Anomalous atrioventricular excitation	Circulatory System	1.04	0.92	1.18	0.51	299761	240	299521	FALSE
536.8	Dyspepsia and other specified disorders of function of stomach	Digestive	1.04	0.92	1.18	0.51	296758	247	296511	FALSE
394.7	Disease of tricuspid valve	Circulatory System	0.98	0.92	1.04	0.51	322614	1086	321528	FALSE
729.1	Rheumatism, unspecified and fibrositis	Musculoskeletal	1.03	0.94	1.14	0.52	305341	387	304954	FALSE
625.1	Dyspareunia	Genitourinary	1.02	0.96	1.08	0.52	319824	1155	318669	FALSE
362	Other retinal disorders	Sense Organs	0.98	0.92	1.04	0.52	316825	973	315852	FALSE
338.1	Acute pain	Neurological	0.97	0.88	1.07	0.52	327846	420	327426	FALSE
303.3	Psychogenic disorder	Mental Disorders	1.02	0.96	1.09	0.52	283739	841	282898	FALSE
531.4	Peptic ulcer, site unspecified	Digestive	0.97	0.88	1.06	0.52	320998	449	320549	FALSE
285.22	Anemia in neoplastic disease	Hematopoietic	0.97	0.88	1.07	0.52	309337	437	308900	FALSE
382	Otalgia	Sense Organs	1.04	0.93	1.16	0.52	324458	315	324143	FALSE
694.2	Other dyschromia	Dermatologic	0.98	0.91	1.05	0.52	322549	800	321749	FALSE
674	Other complications of the puerperium NEC	Pregnancy Complications	1.04	0.92	1.17	0.52	328015	280	327735	FALSE
614.52	Vaginitis and vulvovaginitis	Genitourinary	0.97	0.88	1.07	0.52	319219	420	318799	FALSE

805	Fracture of vertebral column without mention of spinal cord injury	Injuries & Poisonings	0.97	0.87	1.08	0.52	323890	333	323557	FALSE
531.2	Gastric ulcer	Digestive	1.01	0.98	1.04	0.53	324777	4228	320549	FALSE
788	Syncope and collapse	Symptoms	0.99	0.97	1.01	0.53	328240	9372	318868	FALSE
871	Open wounds of extremities	Injuries & Poisonings	0.99	0.96	1.02	0.53	323873	4142	319731	FALSE
591	Urinary tract infection	Genitourinary	1.01	0.99	1.02	0.53	309711	12676	297035	FALSE
263	Other nutritional deficiency	Endocrine/Metabolic	0.98	0.94	1.03	0.53	327337	1551	325786	FALSE
627	Menopausal and postmenopausal disorders	Genitourinary	1.02	0.95	1.09	0.53	297078	847	296231	FALSE
740.9	Osteoarthrosis NOS	Musculoskeletal	1.01	0.98	1.04	0.54	310757	4432	306325	FALSE
389.4	Tinnitus	Sense Organs	1.03	0.94	1.12	0.54	318735	541	318194	FALSE
613	Other nonmalignant breast conditions	Genitourinary	0.97	0.87	1.07	0.54	322786	368	322418	FALSE
420.2	Pericarditis	Circulatory System	0.98	0.92	1.04	0.54	326070	1087	324983	FALSE
705.8	Hyperhidrosis	Dermatologic	1.03	0.95	1.11	0.54	318896	602	318294	FALSE
293	Symptoms involving head and neck	Mental Disorders	1.01	0.97	1.06	0.54	327323	2204	325119	FALSE
274.21	Chondrocalcinosis	Endocrine/Metabolic	1.04	0.92	1.16	0.54	326552	290	326262	FALSE
610.3	Fibrosclerosis of breast	Genitourinary	0.97	0.86	1.08	0.55	321176	303	320873	FALSE
500.2	Pneumoconiosis	Respiratory	1.02	0.96	1.08	0.55	317485	1001	316484	FALSE
747.11	Cardiac shunt/ heart septal defect	Congenital Anomalies	0.98	0.90	1.06	0.55	325935	581	325354	FALSE
853	Complication of colostomy or enterostomy	Injuries & Poisonings	1.03	0.94	1.12	0.55	314478	514	313964	FALSE
383	Otosclerosis	Sense Organs	1.03	0.93	1.15	0.55	324473	330	324143	FALSE
761	Cervicalgia	Symptoms	0.98	0.92	1.04	0.55	328240	1005	327235	FALSE
480.1	Bacterial pneumonia	Respiratory	0.98	0.92	1.05	0.55	318628	939	317689	FALSE
184.2	Cancer of other female genital organs	Neoplasms	0.97	0.87	1.08	0.55	305876	323	305553	FALSE
726.2	Synoviopathy	Musculoskeletal	0.97	0.87	1.08	0.55	305285	331	304954	FALSE
703.1	Ingrowing nail	Dermatologic	0.98	0.92	1.04	0.56	322439	1010	321429	FALSE
155	Cancer of liver and intrahepatic bile duct	Neoplasms	1.04	0.92	1.18	0.56	312576	245	312331	FALSE
174	Breast cancer	Neoplasms	1.04	0.92	1.16	0.56	304712	288	304424	FALSE
79	Viral infection	Infectious Diseases	1.01	0.98	1.04	0.56	326439	4233	322206	FALSE
242.1	Graves' disease	Endocrine/Metabolic	0.97	0.89	1.07	0.56	310789	460	310329	FALSE
447	Other disorders of arteries and arterioles	Circulatory System	1.02	0.94	1.11	0.56	319916	556	319360	FALSE
368.2	Diplopia and disorders of binocular vision	Sense Organs	1.02	0.95	1.10	0.56	325635	753	324882	FALSE
835	Internal derangement of knee	Injuries & Poisonings	1.01	0.98	1.04	0.56	326012	4239	321773	FALSE
201	Hodgkin's disease	Neoplasms	0.97	0.86	1.09	0.57	323794	271	323523	FALSE
198.1	Secondary malignancy of lymph nodes	Neoplasms	0.99	0.97	1.02	0.57	234815	5503	229312	FALSE
550.4	Umbilical hernia	Digestive	1.01	0.98	1.04	0.57	283693	3904	279789	FALSE
750.21	Congenital anomalies of intestine	Congenital Anomalies	0.96	0.85	1.10	0.57	326230	227	326003	FALSE
333.4	Torsion dystonia	Neurological	0.97	0.86	1.09	0.57	286417	265	286152	FALSE
427.42	Cardiac arrest	Circulatory System	0.98	0.92	1.05	0.57	300470	949	299521	FALSE
747.12	Valvular heart disease/ heart chambers	Congenital Anomalies	0.96	0.85	1.10	0.58	325592	238	325354	FALSE

210	Benign neoplasm of lip, oral cavity, and pharynx	Neoplasms	1.02	0.96	1.08	0.58	327034	993	326041	FALSE
474.1	Acute tonsillitis	Respiratory	0.98	0.90	1.06	0.58	309515	565	308950	FALSE
698	Pruritus and related conditions	Dermatologic	1.02	0.95	1.09	0.58	328240	799	327441	FALSE
323	Encephalitis	Neurological	1.02	0.95	1.09	0.58	327999	861	327138	FALSE
189.11	Malignant neoplasm of kidney, except pelvis	Neoplasms	0.98	0.92	1.05	0.58	324997	1035	323962	FALSE
872	Traumatic amputation	Injuries & Poisonings	0.98	0.89	1.07	0.58	320213	482	319731	FALSE
614.1	Pelvic peritoneal adhesions, female (postoperative) (postinfection)	Genitourinary	0.99	0.95	1.03	0.58	321370	2571	318799	FALSE
369.5	Conjunctivitis, infectious	Sense Organs	1.04	0.91	1.18	0.58	318612	224	318388	FALSE
495.2	Asthma with exacerbation	Respiratory	1.03	0.92	1.17	0.58	294453	261	294192	FALSE
715.2	Ankylosing spondylitis	Musculoskeletal	0.97	0.88	1.08	0.58	317637	384	317253	FALSE
614.53	Cyst or abscess of Bartholin's gland	Genitourinary	0.98	0.91	1.05	0.59	319602	803	318799	FALSE
756	Other congenital musculoskeletal anomalies	Congenital Anomalies	0.98	0.92	1.05	0.59	328123	812	327311	FALSE
301	Personality disorders	Mental Disorders	1.03	0.93	1.13	0.59	283330	432	282898	FALSE
823	Fracture of tibia and fibula	Injuries & Poisonings	0.97	0.87	1.08	0.59	322362	342	322020	FALSE
172.11	Melanomas of skin	Neoplasms	1.01	0.97	1.05	0.59	316943	2723	314220	FALSE
714	Rheumatoid arthritis and other inflammatory polyarthropathies	Musculoskeletal	1.01	0.98	1.03	0.60	325905	8652	317253	FALSE
536	Disorders of function of stomach	Digestive	1.03	0.91	1.17	0.60	296768	257	296511	FALSE
619.2	Disorders of uterus, NEC	Genitourinary	1.01	0.98	1.04	0.60	281939	3391	278548	FALSE
938	Dermatitis due to solar radiation	Injuries & Poisonings	1.01	0.97	1.05	0.60	324444	2538	321906	FALSE
386.3	Labyrinthitis	Sense Organs	0.98	0.92	1.05	0.60	322440	791	321649	FALSE
800.3	Fracture of tibia and fibula	Injuries & Poisonings	0.98	0.90	1.06	0.60	324092	535	323557	FALSE
624.2	Atrophy of female genital tract	Genitourinary	1.02	0.93	1.13	0.61	319111	442	318669	FALSE
338.2	Chronic pain	Neurological	1.03	0.93	1.13	0.61	327830	404	327426	FALSE
612.2	Hypertrophy of breast (Gynecomastia)	Genitourinary	1.02	0.95	1.09	0.61	321732	859	320873	FALSE
614	Inflammatory diseases of female pelvic organs	Genitourinary	1.03	0.93	1.14	0.61	319173	374	318799	FALSE
427.6	Premature beats	Circulatory System	1.02	0.93	1.12	0.61	299979	458	299521	FALSE
519.9	Symptoms involving respiratory system and other chest symptoms	Respiratory	0.97	0.87	1.09	0.61	265755	308	265447	FALSE
293.1	Swelling, mass, or lump in head and neck [Space-occupying lesion, intracranial NOS]	Mental Disorders	1.02	0.95	1.08	0.61	326044	925	325119	FALSE
592.1	Cystitis	Genitourinary	0.99	0.95	1.03	0.61	299089	2054	297035	FALSE
701.5	Abnormal granulation tissue	Dermatologic	1.02	0.94	1.12	0.61	323543	479	323064	FALSE
291.8	Alteration of consciousness	Mental Disorders	1.02	0.93	1.13	0.61	321904	434	321470	FALSE
260.6	Anorexia	Endocrine/Metabolic	1.02	0.95	1.09	0.61	326636	850	325786	FALSE
669	Complications of labor and delivery NEC	Pregnancy Complications	1.01	0.98	1.03	0.61	328240	9534	318706	FALSE
528.7	Sialolithiasis	Digestive	0.97	0.87	1.09	0.61	322847	313	322534	FALSE
250.11	Type 1 diabetes with ketoacidosis	Endocrine/Metabolic	0.97	0.86	1.10	0.62	307745	255	307490	FALSE
653	Problems associated with amniotic cavity and membranes	Pregnancy Complications	1.01	0.96	1.07	0.62	328119	1523	326596	FALSE
603.1	Hydrocele	Genitourinary	1.01	0.96	1.07	0.62	309308	1402	307906	FALSE
585.3	Chronic renal failure [CKD]	Genitourinary	1.01	0.97	1.05	0.62	316664	2585	314079	FALSE

323.8	Encephalitis, non-infectious	Neurological	1.02	0.94	1.10	0.62	327771	633	327138	FALSE
709.2	Sicca syndrome	Dermatologic	1.02	0.94	1.11	0.62	242486	520	241966	FALSE
523.32	Chronic periodontitis	Digestive	1.02	0.94	1.11	0.62	312248	590	311658	FALSE
532	Dysphagia	Digestive	0.99	0.97	1.02	0.62	294356	6553	287803	FALSE
740.2	Osteoarthrosis, generalized	Musculoskeletal	0.98	0.90	1.06	0.62	306914	589	306325	FALSE
426.32	Left bundle branch block	Circulatory System	0.99	0.94	1.04	0.62	301302	1781	299521	FALSE
447.1	Stricture of artery	Circulatory System	0.98	0.92	1.05	0.63	320246	886	319360	FALSE
696.41	Psoriasis vulgaris	Dermatologic	1.01	0.96	1.06	0.63	315655	1723	313932	FALSE
512.2	Painful respiration	Respiratory	1.03	0.91	1.18	0.63	314496	228	314268	FALSE
626	Disorders of menstruation and other abnormal bleeding from female genital tract	Genitourinary	1.01	0.98	1.04	0.63	300178	3947	296231	FALSE
595	Hydronephrosis	Genitourinary	0.99	0.95	1.03	0.63	321941	2010	319931	FALSE
300.13	Phobia	Mental Disorders	1.02	0.94	1.11	0.63	283412	514	282898	FALSE
340.1	Migrain with aura	Neurological	1.03	0.90	1.18	0.63	318167	217	317950	FALSE
626.12	Excessive or frequent menstruation	Genitourinary	1.00	0.97	1.02	0.64	306272	10041	296231	FALSE
446.9	Arteritis NOS	Circulatory System	1.03	0.91	1.17	0.64	319605	245	319360	FALSE
575.7	Other disorders of gallbladder	Digestive	1.01	0.96	1.07	0.64	311719	1396	310323	FALSE
385.3	Cholesteatoma	Sense Organs	1.02	0.94	1.11	0.64	324732	589	324143	FALSE
550.1	Inguinal hernia	Digestive	1.00	0.98	1.01	0.64	296174	16385	279789	FALSE
635.2	Antepartum hemorrhage, abruptio placentae, and placenta previa	Pregnancy Complications	1.02	0.95	1.08	0.65	320901	936	319965	FALSE
735.2	Acquired toe deformities	Musculoskeletal	1.01	0.97	1.05	0.65	318913	2226	316687	FALSE
261.2	Vitamin B-complex deficiencies	Endocrine/Metabolic	0.98	0.92	1.06	0.65	326559	773	325786	FALSE
965	Poisoning by analgesics, antipyretics, and antirheumatics	Injuries & Poisonings	1.01	0.98	1.03	0.65	306293	6082	300211	FALSE
530.7	Gastroesophageal laceration-hemorrhage syndrome	Digestive	1.03	0.92	1.14	0.65	288136	333	287803	FALSE
275.5	Disorders of calcium/phosphorus metabolism	Endocrine/Metabolic	1.01	0.96	1.08	0.65	327144	1109	326035	FALSE
345.3	Convulsions	Neurological	0.99	0.95	1.03	0.65	288463	2311	286152	FALSE
427.8	Sinoatrial node dysfunction (Bradycardia)	Circulatory System	0.98	0.89	1.08	0.65	299940	419	299521	FALSE
287.3	Thrombocytopenia	Hematopoietic	0.99	0.93	1.04	0.65	326768	1271	325497	FALSE
949	Allergies, other	Injuries & Poisonings	1.02	0.93	1.12	0.65	322326	420	321906	FALSE
443.7	Peripheral angiopathy in diseases classified elsewhere	Circulatory System	1.02	0.93	1.13	0.65	319775	415	319360	FALSE
751.12	Congenital anomalies of male genital organs	Congenital Anomalies	1.03	0.90	1.17	0.65	326231	228	326003	FALSE
379	Other disorders of eye	Sense Organs	1.00	0.99	1.01	0.65	328190	39998	288192	FALSE
577	Diseases of pancreas	Digestive	1.02	0.94	1.11	0.66	326478	558	325920	FALSE
613.7	Other signs and symptoms in breast	Genitourinary	0.98	0.92	1.06	0.66	323169	751	322418	FALSE
312	Conduct disorders	Mental Disorders	1.01	0.96	1.07	0.66	327638	1195	326443	FALSE
958	Certain early complications of trauma or procedure	Injuries & Poisonings	1.02	0.92	1.13	0.66	328118	381	327737	FALSE
579.2	Splenomegaly	Digestive	1.02	0.93	1.12	0.66	303837	443	303394	FALSE
531.1	Hemorrhage from gastrointestinal ulcer	Digestive	0.98	0.91	1.06	0.66	321204	655	320549	FALSE
807	Fracture of ribs	Injuries & Poisonings	1.03	0.90	1.17	0.66	323780	223	323557	FALSE

433.1	Occlusion and stenosis of precerebral arteries	Circulatory System	0.99	0.93	1.05	0.66	319149	1042	318107	FALSE
433.8	Late effects of cerebrovascular disease	Circulatory System	0.99	0.93	1.04	0.66	319384	1277	318107	FALSE
302	Sexual and gender identity disorders	Mental Disorders	1.02	0.92	1.14	0.67	283238	340	282898	FALSE
53	Herpes zoster	Infectious Diseases	1.02	0.92	1.14	0.67	322547	341	322206	FALSE
573.7	Abnormal results of function study of liver	Digestive	1.01	0.97	1.04	0.67	321896	3565	318331	FALSE
357	Inflammatory and toxic neuropathy	Neurological	1.01	0.96	1.07	0.67	327375	1423	325952	FALSE
244.4	Hypothyroidism NOS	Endocrine/Metabolic	1.00	0.98	1.01	0.68	324759	14430	310329	FALSE
426.9	Cardiac pacemaker/device in situ	Circulatory System	1.03	0.90	1.17	0.68	299758	237	299521	FALSE
626.14	Irregular menstrual bleeding	Genitourinary	0.99	0.96	1.03	0.68	300177	3946	296231	FALSE
317	Alcohol-related disorders	Mental Disorders	0.99	0.97	1.02	0.68	303529	5860	297669	FALSE
961	Poisoning by other anti-infectives	Injuries & Poisonings	0.98	0.89	1.08	0.68	300647	436	300211	FALSE
701.2	Scar conditions and fibrosis of skin	Dermatologic	0.99	0.95	1.03	0.68	325471	2407	323064	FALSE
440	Atherosclerosis	Circulatory System	0.97	0.85	1.12	0.68	319564	204	319360	FALSE
735.21	Hammer toe (acquired)	Musculoskeletal	1.01	0.97	1.05	0.68	318701	2014	316687	FALSE
212	Benign neoplasm of respiratory and intrathoracic organs	Neoplasms	1.02	0.92	1.13	0.69	328240	355	327885	FALSE
426.91	Cardiac pacemaker in situ	Circulatory System	0.99	0.95	1.03	0.69	301837	2316	299521	FALSE
720	Spinal stenosis	Musculoskeletal	0.98	0.91	1.06	0.69	311636	692	310944	FALSE
964.1	Anticoagulants causing adverse effects	Injuries & Poisonings	1.03	0.91	1.16	0.69	300470	259	300211	FALSE
367.8	Hypermetropia	Sense Organs	1.03	0.90	1.16	0.69	325995	241	325754	FALSE
501	Pneumonitis due to inhalation of food or vomitus	Respiratory	1.02	0.94	1.10	0.69	317076	592	316484	FALSE
740.1	Osteoarthritis; localized	Musculoskeletal	1.00	0.98	1.02	0.69	315797	9472	306325	FALSE
613.9	Breast disorder NOS	Genitourinary	0.99	0.97	1.02	0.69	327937	5519	322418	FALSE
433	Cerebrovascular disease	Circulatory System	1.00	0.97	1.02	0.69	326753	8646	318107	FALSE
575.9	Nonspecific abnormal findings on radiological and other examination of biliary tract	Digestive	1.02	0.92	1.13	0.70	310690	367	310323	FALSE
755.1	Congenital deformities of feet	Congenital Anomalies	1.03	0.90	1.17	0.70	327531	220	327311	FALSE
334.2	Anterior horn cell disease	Neurological	1.03	0.90	1.17	0.70	286376	224	286152	FALSE
575.2	Obstruction of bile duct	Digestive	0.99	0.92	1.06	0.70	311135	812	310323	FALSE
619.1	Noninflammatory disorders of ovary, fallopian tube, and broad ligament	Genitourinary	0.99	0.92	1.06	0.70	279282	734	278548	FALSE
594.1	Calculus of kidney	Genitourinary	0.99	0.96	1.03	0.70	323265	3334	319931	FALSE
306.9	Tension headache	Mental Disorders	1.02	0.91	1.14	0.71	283203	305	282898	FALSE
427	Cardiac dysrhythmias	Circulatory System	0.98	0.88	1.09	0.71	299844	323	299521	FALSE
530.14	Reflux esophagitis	Digestive	1.00	0.98	1.02	0.71	298696	10893	287803	FALSE
520.2	Disturbances in tooth eruption	Digestive	1.01	0.97	1.05	0.71	314095	2437	311658	FALSE
189.2	Cancer of bladder	Neoplasms	0.99	0.92	1.06	0.71	324798	836	323962	FALSE
840	Sprains and strains	Injuries & Poisonings	1.02	0.93	1.11	0.71	328201	481	327720	FALSE
565.1	Anal and rectal polyp	Digestive	1.00	0.97	1.02	0.71	254329	7669	246660	FALSE
362.4	Retinal vascular changes and abnomalities	Sense Organs	0.99	0.92	1.06	0.71	316733	881	315852	FALSE
253.2	Pituitary hypofunction	Endocrine/Metabolic	0.98	0.87	1.10	0.71	324826	281	324545	FALSE

285.2	Anemia of chronic disease	Hematopoietic	0.98	0.87	1.10	0.71	309194	294	308900	FALSE
227.2	Benign neoplasm of parathyroid gland	Neoplasms	0.98	0.89	1.08	0.72	327032	390	326642	FALSE
965.3	Salicylates causing adverse effects in therapeutic use	Injuries & Poisonings	0.98	0.89	1.08	0.72	300612	401	300211	FALSE
379.5	Disorders of iris and ciliary body	Sense Organs	1.02	0.92	1.12	0.72	288604	412	288192	FALSE
575.6	Cholesterolosis of gallbladder	Digestive	0.98	0.90	1.08	0.72	310789	466	310323	FALSE
622	Polyp of female genital organs	Genitourinary	0.98	0.90	1.08	0.72	315794	487	315307	FALSE
621	Endometrial hyperplasia	Genitourinary	1.01	0.95	1.07	0.72	316461	1154	315307	FALSE
426.21	First degree AV block	Circulatory System	1.01	0.95	1.08	0.72	300526	1005	299521	FALSE
941	Adverse reaction to serum or vaccine	Injuries & Poisonings	1.02	0.90	1.17	0.72	322128	222	321906	FALSE
601.4	Balanoposthitis	Genitourinary	1.02	0.91	1.14	0.72	307689	296	307393	FALSE
550.3	Femoral hernia	Digestive	1.01	0.94	1.10	0.72	280442	653	279789	FALSE
385.5	Tympanosclerosis and middle ear disease related to otitis media	Sense Organs	0.98	0.86	1.11	0.72	324379	236	324143	FALSE
618.6	Vaginal enterocele, congenital or acquired	Genitourinary	1.01	0.94	1.09	0.72	316909	667	316242	FALSE
586.2	Cyst of kidney, acquired	Genitourinary	0.99	0.94	1.05	0.72	315372	1293	314079	FALSE
367.9	Blindness and low vision	Sense Organs	0.99	0.92	1.06	0.72	326510	756	325754	FALSE
555.2	Ulcerative colitis	Digestive	1.01	0.97	1.04	0.73	261550	3154	258396	FALSE
727.4	Ganglion and cyst of synovium, tendon, and bursa	Musculoskeletal	0.99	0.96	1.03	0.73	307936	2982	304954	FALSE
204	Leukemia	Neoplasms	1.02	0.93	1.11	0.73	323984	461	323523	FALSE
649.1	Diabetes or abnormal glucose tolerance complicating pregnancy	Pregnancy Complications	0.98	0.85	1.12	0.73	328127	208	327919	FALSE
245.21	Chronic lymphocytic thyroiditis	Endocrine/Metabolic	0.98	0.86	1.12	0.73	310548	219	310329	FALSE
764	Sciatica	Symptoms	0.99	0.94	1.05	0.73	327944	1261	326683	FALSE
560.2	Impaction of intestine	Digestive	1.02	0.91	1.15	0.73	258667	271	258396	FALSE
568.1	Peritoneal adhesions (postoperative) (postinfection)	Digestive	0.99	0.96	1.03	0.73	249757	3097	246660	FALSE
594	Urinary calculus	Genitourinary	1.00	0.97	1.02	0.74	326897	6966	319931	FALSE
296.2	Depression	Mental Disorders	1.00	0.98	1.02	0.74	295043	12145	282898	FALSE
261.4	Vitamin D deficiency	Endocrine/Metabolic	1.02	0.92	1.12	0.74	326194	408	325786	FALSE
454.11	Varicose veins of lower extremity, symptomtic	Circulatory System	0.99	0.91	1.07	0.74	288365	652	287713	FALSE
440.2	Atherosclerosis of the extremities	Circulatory System	1.01	0.93	1.10	0.74	319912	552	319360	FALSE
567	Peritonitis and retroperitoneal infections	Digestive	0.99	0.93	1.06	0.74	247550	890	246660	FALSE
112	Candidiasis	Infectious Diseases	1.01	0.97	1.05	0.74	327650	2150	325500	FALSE
396	Abnormal heart sounds	Circulatory System	1.01	0.95	1.07	0.74	322603	1075	321528	FALSE
389.1	Sensorineural hearing loss	Sense Organs	1.02	0.93	1.11	0.74	318658	464	318194	FALSE
957	Injury to other and unspecified nerves	Injuries & Poisonings	1.02	0.91	1.15	0.74	328157	275	327882	FALSE
520	Disorders of tooth development	Digestive	1.02	0.93	1.11	0.74	312128	470	311658	FALSE
381.1	Otitis media	Sense Organs	1.01	0.95	1.07	0.74	325296	1153	324143	FALSE
771.1	Swelling of limb	Symptoms	0.99	0.92	1.06	0.74	327356	842	326514	FALSE
564	Functional digestive disorders	Digestive	0.99	0.93	1.05	0.74	259379	983	258396	FALSE
342	Hemiplegia	Neurological	1.01	0.96	1.06	0.74	287677	1525	286152	FALSE

600	Hyperplasia of prostate	Genitourinary	1.00	0.98	1.02	0.75	318965	11572	307393	FALSE
580.2	Nephrotic syndrome without mention of glomerulonephritis	Genitourinary	0.99	0.90	1.08	0.75	314575	496	314079	FALSE
610.4	Benign neoplasm of breast	Genitourinary	1.01	0.96	1.06	0.75	322359	1486	320873	FALSE
523.31	Acute periodontitis	Digestive	0.99	0.92	1.06	0.75	312371	713	311658	FALSE
785	Abdominal pain	Symptoms	1.00	0.99	1.01	0.75	328240	42311	285929	FALSE
721.1	Spondylosis without myelopathy	Musculoskeletal	1.01	0.95	1.07	0.75	312014	1070	310944	FALSE
803.3	Fracture of clavicle or scapula	Injuries & Poisonings	0.98	0.88	1.10	0.75	323857	300	323557	FALSE
803.2	Fracture of radius and ulna	Injuries & Poisonings	0.99	0.93	1.06	0.75	324441	884	323557	FALSE
701.4	Keloid scar	Dermatologic	1.02	0.90	1.16	0.75	323292	228	323064	FALSE
182	Malignant neoplasm of uterus	Neoplasms	0.99	0.94	1.05	0.75	298948	1303	297645	FALSE
285	Other anemias	Hematopoietic	1.00	0.98	1.02	0.75	320744	11844	308900	FALSE
568	Other disorders of peritoneum	Digestive	0.99	0.96	1.03	0.75	250464	3804	246660	FALSE
256.4	Polycystic ovaries	Endocrine/Metabolic	0.98	0.86	1.12	0.75	324764	219	324545	FALSE
158	Neoplasm of unspecified nature of digestive system	Neoplasms	0.99	0.93	1.05	0.75	313429	1098	312331	FALSE
290.11	Alzheimer's disease	Mental Disorders	1.02	0.92	1.12	0.75	321872	402	321470	FALSE
227.3	Benign neoplasm of pituitary gland and craniopharyngeal duct (pouch)	Neoplasms	1.02	0.91	1.13	0.75	326970	328	326642	FALSE
296	Mood disorders	Mental Disorders	1.00	0.98	1.01	0.76	295853	12955	282898	FALSE
379.3	Aphakia and other disorders of lens	Sense Organs	1.00	0.98	1.01	0.76	308920	20728	288192	FALSE
803	Fracture of upper limb	Injuries & Poisonings	0.99	0.90	1.08	0.76	323990	433	323557	FALSE
214	Lipoma	Neoplasms	0.99	0.95	1.04	0.76	322495	1819	320676	FALSE
70.3	Viral hepatitis C	Infectious Diseases	1.02	0.91	1.13	0.77	322549	343	322206	FALSE
618.5	Prolapse of vaginal vault after hysterectomy	Genitourinary	1.01	0.93	1.11	0.77	316743	501	316242	FALSE
401.22	Hypertensive chronic kidney disease	Circulatory System	0.99	0.94	1.04	0.77	250343	1595	248748	FALSE
572	Ascites (non malignant)	Digestive	1.01	0.96	1.06	0.77	319925	1594	318331	FALSE
830	Dislocation	Injuries & Poisonings	0.99	0.95	1.04	0.77	323927	2154	321773	FALSE
614.4	Inflammatory diseases of uterus, except cervix	Genitourinary	1.02	0.91	1.14	0.77	319107	308	318799	FALSE
627.1	Postmenopausal bleeding	Genitourinary	1.00	0.98	1.02	0.77	305697	9466	296231	FALSE
250.1	Type 1 diabetes	Endocrine/Metabolic	1.01	0.97	1.04	0.77	310189	2699	307490	FALSE
596.1	Bladder neck obstruction	Genitourinary	1.01	0.96	1.05	0.77	315665	2029	313636	FALSE
523	Gingival and periodontal diseases	Digestive	1.01	0.93	1.10	0.77	312187	529	311658	FALSE
578.2	Blood in stool	Digestive	1.01	0.97	1.04	0.78	306143	2749	303394	FALSE
610.2	Fibroadenosis of breast	Genitourinary	0.98	0.88	1.10	0.78	321189	316	320873	FALSE
165.1	Cancer of bronchus; lung	Neoplasms	1.01	0.96	1.05	0.78	327450	2181	325269	FALSE
960.2	Allergy/adverse effect of penicillin	Injuries & Poisonings	1.00	0.98	1.01	0.78	316894	16683	300211	FALSE
189.4	Malignant neoplasm of other urinary organs	Neoplasms	1.00	0.97	1.04	0.78	327185	3223	323962	FALSE
386.1	Meniere's disease	Sense Organs	0.99	0.91	1.07	0.78	322213	564	321649	FALSE
791	Gangrene	Symptoms	0.99	0.91	1.07	0.78	328240	579	327661	FALSE
386.2	Peripheral or central vertigo	Sense Organs	1.01	0.92	1.12	0.78	322036	387	321649	FALSE

191	Malignant and unknown neoplasms of brain and nervous system	Neoplasms	0.98	0.86	1.12	0.78	326662	215	326447	FALSE
535.6	Duodenitis	Digestive	1.00	0.98	1.03	0.79	304405	7894	296511	FALSE
277.4	Disorders of bilirubin excretion	Endocrine/Metabolic	1.01	0.92	1.12	0.79	283300	373	282927	FALSE
522.5	Periapical abscess	Digestive	0.99	0.94	1.05	0.79	312904	1246	311658	FALSE
561	Symptoms involving digestive system	Digestive	1.00	0.98	1.01	0.79	272941	14545	258396	FALSE
615	Endometriosis	Genitourinary	1.00	0.97	1.03	0.79	322888	4089	318799	FALSE
368.9	Subjective visual disturbances	Sense Organs	1.01	0.93	1.09	0.79	325515	633	324882	FALSE
759	Other and unspecified congenital anomalies	Congenital Anomalies	0.99	0.92	1.07	0.79	327249	679	326570	FALSE
512.9	Other dyspnea	Respiratory	0.99	0.93	1.06	0.79	315211	943	314268	FALSE
706	Diseases of sebaceous glands	Dermatologic	0.99	0.91	1.07	0.79	318889	595	318294	FALSE
345.11	Generalized convulsive epilepsy	Neurological	1.01	0.92	1.11	0.79	286617	465	286152	FALSE
502	Postinflammatory pulmonary fibrosis	Respiratory	0.99	0.93	1.06	0.79	317367	883	316484	FALSE
707	Chronic ulcer of skin	Dermatologic	1.01	0.95	1.06	0.80	327959	1260	326699	FALSE
296.22	Major depressive disorder	Mental Disorders	1.01	0.92	1.12	0.80	283282	384	282898	FALSE
760	Back pain	Symptoms	1.00	0.98	1.03	0.80	328240	5923	322317	FALSE
276.12	Hyposmolality and/or hyponatremia	Endocrine/Metabolic	1.01	0.96	1.05	0.80	322496	1852	320644	FALSE
433.2	Occlusion of cerebral arteries	Circulatory System	1.00	0.96	1.03	0.80	321087	2980	318107	FALSE
377	Disorders of optic nerve and visual pathways	Sense Organs	1.01	0.92	1.11	0.80	288628	436	288192	FALSE
531	Peptic ulcer (excl. esophageal)	Digestive	0.98	0.88	1.11	0.80	320833	284	320549	FALSE
611.3	Lump or mass in breast	Genitourinary	0.99	0.95	1.04	0.80	322461	1588	320873	FALSE
368	Visual disturbances	Sense Organs	0.99	0.93	1.05	0.80	325963	1081	324882	FALSE
526	Diseases of the jaws	Digestive	1.00	0.99	1.02	0.80	327645	15987	311658	FALSE
483	Acute bronchitis and bronchiolitis	Respiratory	1.02	0.89	1.17	0.80	317889	200	317689	FALSE
726.1	Enthesopathy	Musculoskeletal	1.00	0.98	1.03	0.81	311657	6703	304954	FALSE
530.9	Heartburn	Digestive	0.99	0.95	1.04	0.81	289911	2108	287803	FALSE
366	Cataract	Sense Organs	1.00	0.98	1.01	0.81	323825	16441	307384	FALSE
695.9	Unspecified erythematous condition	Dermatologic	0.99	0.90	1.08	0.81	322226	477	321749	FALSE
537	Other disorders of stomach and duodenum	Digestive	1.00	0.96	1.03	0.81	299994	3483	296511	FALSE
174.1	Breast cancer [female]	Neoplasms	0.99	0.95	1.04	0.81	306711	2287	304424	FALSE
686	Other local infections of skin and subcutaneous tissue	Dermatologic	1.00	0.98	1.02	0.81	327410	11003	316407	FALSE
526.9	Jaw disease NOS	Digestive	1.00	0.99	1.02	0.81	327620	15962	311658	FALSE
386	Vertiginous syndromes and other disorders of vestibular system	Sense Organs	1.01	0.96	1.05	0.81	323761	2112	321649	FALSE
571.81	Portal hypertension	Digestive	1.01	0.93	1.10	0.82	318900	569	318331	FALSE
574.11	Cholelithiasis with acute cholecystitis	Digestive	0.99	0.94	1.05	0.82	311836	1513	310323	FALSE
54	Herpes simplex	Infectious Diseases	1.02	0.89	1.16	0.82	322425	219	322206	FALSE
198.3	Secondary malignant neoplasm of digestive systems	Neoplasms	1.01	0.96	1.06	0.82	230877	1565	229312	FALSE
198.5	Secondary malignancy of brain/spine	Neoplasms	0.99	0.93	1.06	0.82	230113	801	229312	FALSE
251.1	Hypoglycemia	Endocrine/Metabolic	0.99	0.93	1.06	0.82	305952	977	304975	FALSE

587	Kidney replaced by transpant	Genitourinary	1.01	0.92	1.12	0.82	314477	398	314079	FALSE
804	Fracture of hand or wrist	Injuries & Poisonings	0.99	0.92	1.07	0.83	324232	675	323557	FALSE
577.1	Acute pancreatitis	Digestive	0.99	0.95	1.05	0.83	327437	1517	325920	FALSE
117	Mycoses	Infectious Diseases	1.00	0.97	1.04	0.83	328235	2735	325500	FALSE
204.21	Myeloid leukemia, acute	Neoplasms	1.01	0.91	1.13	0.83	323842	319	323523	FALSE
300.1	Anxiety disorder	Mental Disorders	1.00	0.97	1.02	0.83	288368	5470	282898	FALSE
800	Fracture of lower limb	Injuries & Poisonings	1.01	0.94	1.09	0.83	324256	699	323557	FALSE
165	Cancer within the respiratory system	Neoplasms	1.00	0.96	1.03	0.83	328223	2954	325269	FALSE
695.7	Prurigo and Lichen	Dermatologic	0.99	0.93	1.06	0.83	322541	792	321749	FALSE
585.31	Renal dialysis	Genitourinary	0.99	0.91	1.08	0.83	314603	524	314079	FALSE
216	Benign neoplasm of skin	Neoplasms	1.00	0.98	1.03	0.84	327614	7865	319749	FALSE
742.9	Other derangement of joint	Musculoskeletal	1.01	0.92	1.11	0.84	311042	400	310642	FALSE
578.9	Hemorrhage of gastrointestinal tract	Digestive	1.00	0.98	1.03	0.84	308849	5455	303394	FALSE
701	Other hypertrophic and atrophic conditions of skin	Dermatologic	1.00	0.95	1.04	0.84	324891	1827	323064	FALSE
496.1	Emphysema	Respiratory	1.00	0.96	1.05	0.84	295918	1726	294192	FALSE
577.2	Chronic pancreatitis	Digestive	0.99	0.91	1.08	0.84	326456	536	325920	FALSE
781	Symptoms involving nervous and musculoskeletal systems	Symptoms	1.00	0.99	1.02	0.85	328238	22180	306058	FALSE
345	Epilepsy, recurrent seizures, convulsions	Neurological	1.00	0.96	1.03	0.85	289613	3461	286152	FALSE
290	Delirium dementia and amnestic and other cognitive disorders	Mental Disorders	1.01	0.92	1.10	0.85	321950	480	321470	FALSE
250.22	Type 2 diabetes with renal manifestations	Endocrine/Metabolic	1.01	0.88	1.16	0.85	307698	208	307490	FALSE
737	Curvature of spine	Musculoskeletal	0.99	0.92	1.07	0.85	317430	743	316687	FALSE
339	Other headache syndromes	Neurological	1.00	0.98	1.02	0.86	325888	7938	317950	FALSE
509.2	Respiratory insufficiency	Respiratory	1.00	0.95	1.04	0.86	318272	1788	316484	FALSE
288	Diseases of white blood cells	Hematopoietic	0.99	0.92	1.08	0.86	320928	610	320318	FALSE
418	Nonspecific chest pain	Circulatory System	1.00	0.99	1.01	0.86	326032	30212	295820	FALSE
529.1	Glossitis	Digestive	0.99	0.88	1.11	0.86	322838	304	322534	FALSE
732	Osteochondropathies	Musculoskeletal	0.99	0.87	1.13	0.86	315651	219	315432	FALSE
747	Cardiac and circulatory congenital anomalies	Congenital Anomalies	1.00	0.95	1.06	0.87	326576	1222	325354	FALSE
427.3	Other specified cardiac dysrhythmias	Circulatory System	1.00	0.97	1.04	0.87	302836	3315	299521	FALSE
798.1	Chronic fatigue syndrome	Symptoms	1.01	0.93	1.09	0.87	325335	606	324729	FALSE
374.3	Ptosis of eyelid	Sense Organs	1.00	0.95	1.04	0.87	320284	1896	318388	FALSE
751.21	Cystic kidney disease	Congenital Anomalies	0.99	0.91	1.09	0.87	326461	458	326003	FALSE
281	Other deficiency anemia	Hematopoietic	1.00	0.98	1.02	0.87	317687	8787	308900	FALSE
580.32	Nephritis and nephropathy with pathological lesion	Genitourinary	1.00	0.94	1.06	0.87	315157	1078	314079	FALSE
464	Acute sinusitis	Respiratory	1.01	0.88	1.16	0.87	325387	208	325179	FALSE
481	Influenza	Respiratory	1.00	0.98	1.02	0.87	327706	10017	317689	FALSE
535.8	Other specified gastritis	Digestive	1.00	0.98	1.02	0.87	304926	8415	296511	FALSE
380.1	Otitis externa	Sense Organs	1.01	0.92	1.10	0.87	327284	532	326752	FALSE

420.3	Endocarditis	Circulatory System	1.01	0.93	1.08	0.87	325668	685	324983	FALSE
280.1	Iron deficiency anemias, unspecified or not due to blood loss	Hematopoietic	1.00	0.98	1.02	0.87	316402	7502	308900	FALSE
556.1	Ulceration of intestine	Digestive	1.01	0.93	1.08	0.88	259087	691	258396	FALSE
218	Benign neoplasm of uterus	Neoplasms	0.99	0.90	1.10	0.88	308168	388	307780	FALSE
519.2	Respiratory complications	Respiratory	0.99	0.88	1.11	0.88	265743	296	265447	FALSE
411.1	Unstable angina (intermediate coronary syndrome)	Circulatory System	1.00	0.98	1.03	0.88	301011	5322	295689	FALSE
990	Effects radiation NOS	Injuries & Poisonings	1.00	0.97	1.04	0.88	325633	3244	322389	FALSE
569.2	Gastrointestinal complications	Digestive	0.99	0.91	1.09	0.88	247132	472	246660	FALSE
809	Fracture of unspecified bones	Injuries & Poisonings	0.99	0.90	1.09	0.88	323967	410	323557	FALSE
604.1	Redundant prepuce and phimosis/BXO	Genitourinary	1.00	0.96	1.04	0.88	310716	2810	307906	FALSE
351	Other peripheral nerve disorders	Neurological	1.00	0.98	1.02	0.88	325903	12892	313011	FALSE
738.4	Acquired spondylolisthesis	Musculoskeletal	1.01	0.89	1.14	0.89	316942	255	316687	FALSE
470	Septal Deviations/Turbinate Hypertrophy	Respiratory	1.00	0.97	1.03	0.89	313771	4821	308950	FALSE
332	Parkinson's disease	Neurological	1.00	0.95	1.06	0.89	287334	1182	286152	FALSE
575.1	Cholangitis	Digestive	1.01	0.92	1.10	0.89	310820	497	310323	FALSE
610	Benign mammary dysplasias	Genitourinary	1.01	0.88	1.16	0.89	321081	208	320873	FALSE
742.8	Articular cartilage disorder	Musculoskeletal	1.01	0.93	1.09	0.89	311297	655	310642	FALSE
555.21	Ulcerative colitis (chronic)	Digestive	0.99	0.92	1.08	0.90	258967	571	258396	FALSE
241.1	Nontoxic uninodular goiter	Endocrine/Metabolic	1.01	0.92	1.10	0.90	310840	511	310329	FALSE
197	Chemotherapy	Neoplasms	1.00	0.99	1.01	0.90	251774	22462	229312	FALSE
198	Secondary malignant neoplasm	Neoplasms	1.00	0.94	1.06	0.90	230431	1119	229312	FALSE
782.3	Edema	Symptoms	1.00	0.96	1.05	0.90	328067	1715	326352	FALSE
41.1	Staphylococcus infections	Infectious Diseases	1.00	0.97	1.04	0.90	315832	3200	312632	FALSE
965.2	Antirheumatics causing adverse effects in therapeutic use	Injuries & Poisonings	0.99	0.91	1.09	0.91	300710	499	300211	FALSE
626.2	Dysmenorrhea	Genitourinary	1.00	0.96	1.05	0.91	297910	1679	296231	FALSE
565	Anal and rectal conditions	Digestive	1.00	0.98	1.02	0.91	255321	8661	246660	FALSE
204.4	Multiple myeloma	Neoplasms	1.00	0.93	1.09	0.91	324097	574	323523	FALSE
289.8	Polycythemia vera, secondary	Hematopoietic	0.99	0.89	1.12	0.91	320039	291	319748	FALSE
599	Other symptoms/disorders or the urinary system	Genitourinary	1.00	0.99	1.01	0.91	324256	103829	220427	FALSE
285.1	Acute posthemorrhagic anemia	Hematopoietic	0.99	0.88	1.12	0.91	309167	267	308900	FALSE
747.1	Cardiac congenital anomalies	Congenital Anomalies	1.01	0.88	1.15	0.91	325565	211	325354	FALSE
315	Develomental delays and disorders	Mental Disorders	1.00	0.92	1.08	0.92	326992	549	326443	FALSE
573.9	Abnormal serum enzyme levels	Digestive	0.99	0.87	1.13	0.92	318561	230	318331	FALSE
250.6	Polyneuropathy in diabetes	Endocrine/Metabolic	1.01	0.91	1.11	0.92	307871	381	307490	FALSE
535	Gastritis and duodenitis	Digestive	1.00	0.98	1.01	0.92	314259	17748	296511	FALSE
707.1	Decubitus ulcer	Dermatologic	0.99	0.89	1.11	0.92	327025	326	326699	FALSE
947	Urticaria	Injuries & Poisonings	0.99	0.90	1.10	0.92	322293	387	321906	FALSE
149	Cancer of larynx, pharynx, nasal cavities	Neoplasms	1.00	0.94	1.07	0.92	326986	945	326041	FALSE

540.11	Acute appendicitis	Digestive	1.00	0.96	1.04	0.92	327037	2658	324379	FALSE
292.6	Hallucinations	Mental Disorders	0.99	0.89	1.11	0.92	321793	323	321470	FALSE
636.2	Early onset of delivery	Pregnancy Complications	1.00	0.92	1.08	0.92	320594	629	319965	FALSE
596	Other disorders of bladder	Genitourinary	1.00	0.98	1.02	0.92	321385	7749	313636	FALSE
496.2	Chronic bronchitis	Respiratory	1.01	0.90	1.13	0.93	294485	293	294192	FALSE
420.21	Acute pericarditis	Circulatory System	0.99	0.87	1.13	0.93	325211	228	324983	FALSE
448	Disease of capillaries	Circulatory System	1.00	0.98	1.02	0.93	326841	7481	319360	FALSE
614.3	Pelvic inflammatory disease (PID)	Genitourinary	0.99	0.88	1.13	0.93	319048	249	318799	FALSE
766	Neuralgia, neuritis, and radiculitis NOS	Symptoms	1.01	0.90	1.13	0.93	326987	304	326683	FALSE
599.5	Frequency of urination and polyuria	Genitourinary	1.00	0.97	1.03	0.93	224574	4147	220427	FALSE
735.23	Hallux rigidus	Musculoskeletal	1.00	0.95	1.05	0.93	318243	1556	316687	FALSE
204.12	Lymphoid leukemia, chronic	Neoplasms	1.00	0.92	1.10	0.93	324030	507	323523	FALSE
443.9	Peripheral vascular disease, unspecified	Circulatory System	1.00	0.96	1.04	0.93	321969	2609	319360	FALSE
289	Other diseases of blood and blood-forming organs	Hematopoietic	1.00	0.97	1.03	0.94	325300	4982	320318	FALSE
198.2	Secondary malignancy of respiratory organs	Neoplasms	1.00	0.96	1.04	0.94	231589	2277	229312	FALSE
527.2	Sialoadenitis	Digestive	1.00	0.91	1.11	0.94	322908	374	322534	FALSE
479	Other upper respiratory disease	Respiratory	1.00	0.98	1.02	0.94	324241	15291	308950	FALSE
626.13	Irregular menstrual cycle	Genitourinary	1.00	0.96	1.05	0.94	298189	1958	296231	FALSE
603	Other disorders of testis	Genitourinary	1.00	0.94	1.06	0.94	308895	989	307906	FALSE
300	Anxiety, phobic and dissociative disorders	Mental Disorders	1.00	0.90	1.10	0.95	283261	363	282898	FALSE
320	Meningitis	Neurological	1.00	0.91	1.09	0.95	327577	439	327138	FALSE
288.11	Neutropenia	Hematopoietic	1.00	0.97	1.03	0.95	323644	3326	320318	FALSE
966	Poisoning by anticonvulsants and anti-Parkinsonism drugs	Injuries & Poisonings	1.00	0.92	1.09	0.95	300747	536	300211	FALSE
594.8	Renal colic	Genitourinary	1.00	0.96	1.05	0.95	322062	2131	319931	FALSE
331.9	Cerebral degeneration, unspecified	Neurological	1.00	0.91	1.10	0.95	286569	417	286152	FALSE
571	Chronic liver disease and cirrhosis	Digestive	1.00	0.92	1.09	0.95	318871	540	318331	FALSE
252.1	Hyperparathyroidism	Endocrine/Metabolic	1.00	0.93	1.07	0.95	325359	814	324545	FALSE
733	Other disorders of bone and cartilage	Musculoskeletal	1.00	0.92	1.08	0.95	316001	569	315432	FALSE
524.3	Anomalies of tooth position/malocclusion	Digestive	1.00	0.89	1.13	0.95	311953	295	311658	FALSE
530.3	Stricture and stenosis of esophagus	Digestive	1.00	0.96	1.04	0.95	289757	1954	287803	FALSE
471	Nasal polyps	Respiratory	1.00	0.97	1.03	0.96	312342	3392	308950	FALSE
198.4	Secondary malignant neoplasm of liver	Neoplasms	1.00	0.96	1.04	0.96	232009	2697	229312	FALSE
295.1	Schizophrenia	Mental Disorders	1.00	0.92	1.08	0.96	283509	611	282898	FALSE
349	Other and unspecified disorders of the nervous system	Neurological	1.00	0.99	1.01	0.96	326855	40703	286152	FALSE
599.2	Retention of urine	Genitourinary	1.00	0.98	1.03	0.96	227284	6857	220427	FALSE
619.5	Noninflammatory disorders of vulva and perineum	Genitourinary	1.00	0.95	1.06	0.96	279927	1379	278548	FALSE
783	Fever of unknown origin	Symptoms	1.00	0.97	1.03	0.96	328240	4111	324129	FALSE
529	Diseases and other conditions of the tongue	Digestive	1.00	0.94	1.06	0.96	323485	951	322534	FALSE

521.1	Dental caries	Digestive	1.00	0.97	1.04	0.96	314912	3254	311658	FALSE
687.4	Disturbance of skin sensation	Dermatologic	1.00	0.96	1.04	0.96	325793	2979	322814	FALSE
41.2	Streptococcus infection	Infectious Diseases	1.00	0.95	1.05	0.96	314280	1648	312632	FALSE
317.11	Alcoholic liver damage	Mental Disorders	1.00	0.94	1.07	0.96	298534	865	297669	FALSE
287.31	Primary thrombocytopenia	Hematopoietic	1.00	0.91	1.10	0.97	325925	428	325497	FALSE
8.52	Intestinal infection due to C. difficile	Infectious Diseases	1.00	0.93	1.08	0.97	319727	648	319079	FALSE
535.1	Acute gastritis	Digestive	1.00	0.94	1.06	0.97	297704	1193	296511	FALSE
706.2	Sebaceous cyst	Dermatologic	1.00	0.98	1.02	0.97	327401	9107	318294	FALSE
365.2	Primary angle-closure glaucoma	Sense Organs	1.00	0.93	1.08	0.97	317491	709	316782	FALSE
350.1	Abnormal involuntary movements	Neurological	1.00	0.94	1.07	0.98	326371	927	325444	FALSE
229	Benign neoplasm of unspecified sites	Neoplasms	1.00	0.99	1.01	0.98	328240	46165	282075	FALSE
228	Hemangioma and lymphangioma, any site	Neoplasms	1.00	0.95	1.05	0.98	328240	1635	326605	FALSE
318	Tobacco use disorder	Mental Disorders	1.00	0.99	1.01	0.98	318172	20503	297669	FALSE
474.2	Chronic tonsillitis and adenoiditis	Respiratory	1.00	0.94	1.06	0.98	310135	1185	308950	FALSE
8	Intestinal infection	Infectious Diseases	1.00	0.98	1.02	0.98	328240	9161	319079	FALSE
571.8	Liver abscess and sequelae of chronic liver disease	Digestive	1.00	0.92	1.08	0.98	318904	573	318331	FALSE
592.12	Chronic cystitis	Genitourinary	1.00	0.94	1.07	0.98	297948	913	297035	FALSE
378.2	Nystagmus and other irregular eye movements	Sense Organs	1.00	0.88	1.15	0.98	288407	215	288192	FALSE
870.3	Other open wound of head and face	Injuries & Poisonings	1.00	0.96	1.04	0.98	322782	3051	319731	FALSE
80	Postoperative infection	Infectious Diseases	1.00	0.97	1.03	0.98	326101	4622	321479	FALSE
454	Varicose veins	Circulatory System	1.00	0.95	1.05	0.99	289316	1603	287713	FALSE
623	Hypertrophy of female genital organs	Genitourinary	1.00	0.95	1.06	0.99	316579	1272	315307	FALSE
495	Asthma	Respiratory	1.00	0.99	1.01	0.99	320971	26779	294192	FALSE
472	Chronic pharyngitis and nasopharyngitis	Respiratory	1.00	0.94	1.07	0.99	309897	947	308950	FALSE
241.2	Nontoxic multinodular goiter	Endocrine/Metabolic	1.00	0.93	1.08	0.99	311043	714	310329	FALSE
628	Ovarian cyst	Genitourinary	1.00	0.97	1.03	0.99	301051	4820	296231	FALSE
681.1	Cellulitis and abscess of fingers/toes	Dermatologic	1.00	0.92	1.08	0.99	316989	582	316407	FALSE
721.8	Other allied disorders of spine	Musculoskeletal	1.00	0.97	1.04	0.99	314171	3227	310944	FALSE
721	Spondylosis and allied disorders	Musculoskeletal	1.00	0.94	1.07	0.99	311869	925	310944	FALSE
686.4	Pyogenic granuloma	Dermatologic	1.00	0.90	1.11	0.99	316787	380	316407	FALSE
175	Acquired absence of breast	Neoplasms	1.00	0.96	1.04	0.99	305907	2516	303391	FALSE
366.2	Senile cataract	Sense Organs	1.00	0.98	1.02	0.99	315842	8458	307384	FALSE
610.1	Cystic mastopathy	Genitourinary	1.00	0.94	1.07	0.99	321832	959	320873	FALSE
619	Noninflammatory female genital disorders	Genitourinary	1.00	0.99	1.01	1.00	328106	49558	278548	FALSE
605	Erectile dysfunction [ED]	Genitourinary	1.00	0.89	1.12	1.00	308197	291	307906	FALSE
473.4	Voice disturbance	Respiratory	1.00	0.94	1.06	1.00	310051	1101	308950	FALSE
530.11	GERD	Digestive	1.00	0.98	1.02	1.00	302292	14489	287803	FALSE

Supplementary Table 13. Phenome-wide association study (PheWAS) results for the beta-blocker (BB) genetic risk score when using single-nucleotide polymorphisms from the systolic blood pressure genome-wide association study that did not correct for antihypertensive medication use or adjust for body mass index.

Phecode	Trait	Category	OR	Low 95% CI	Upp 95% CI	Total sample size	Cases	Controls
401	Hypertension	Circulatory System	0.96	0.95	0.97	328239	79491	248748
401.1	Essential hypertension	Circulatory System	0.96	0.95	0.97	327983	79235	248748
459.9	Circulatory disease NEC	Circulatory System	0.98	0.97	0.99	327928	133749	194179
189.21	Malignant neoplasm of bladder	Neoplasms	0.92	0.88	0.96	326150	2188	323962
747.12	Valvular heart disease/ heart chambers	Congenital Anomalies	0.81	0.70	0.93	325592	238	325354
289.3	Personal history of diseases of blood and blood-forming organs	Hematopoietic	0.83	0.74	0.94	320615	297	320318
747.13	Congenital anomalies of great vessels	Congenital Anomalies	0.93	0.89	0.98	327177	1823	325354
747	Cardiac and circulatory congenital anomalies	Congenital Anomalies	0.92	0.86	0.97	326576	1222	325354
427	Cardiac dysrhythmias	Circulatory System	0.85	0.75	0.95	299844	323	299521
530.3	Stricture and stenosis of esophagus	Digestive	1.06	1.02	1.11	289757	1954	287803
574.2	Calculus of bile duct	Digestive	1.05	1.01	1.09	313011	2688	310323
112	Candidiasis	Infectious Diseases	0.94	0.90	0.98	327650	2150	325500
395.6	Heart valve replaced	Circulatory System	0.93	0.88	0.98	323056	1528	321528
90	Sexually transmitted infections (not HIV or hepatitis)	Infectious Diseases	0.85	0.75	0.96	328239	298	327941
427.2	Atrial fibrillation and flutter	Circulatory System	0.98	0.96	0.99	314573	15052	299521
189.4	Malignant neoplasm of other urinary organs	Neoplasms	0.95	0.92	0.99	327185	3223	323962
117	Mycoses	Infectious Diseases	0.95	0.91	0.99	328235	2735	325500
857	Mechanical complication of unspecified genitourinary device, implant, and graft	Injuries & Poisonings	0.93	0.88	0.98	315248	1284	313964
362.4	Retinal vascular changes and abnomalities	Sense Organs	1.09	1.02	1.16	316733	881	315852
182	Malignant neoplasm of uterus	Neoplasms	0.93	0.88	0.99	298948	1303	297645
850	Hemorrhage or hematoma complicating a procedure	Injuries & Poisonings	0.97	0.94	0.99	319328	5364	313964
556	Ulceration of the lower GI tract	Digestive	0.89	0.80	0.98	258836	440	258396
535	Gastritis and duodenitis	Digestive	1.02	1.00	1.03	314259	17748	296511
509.8	Dependence on respirator [Ventilator] or supplemental oxygen	Respiratory	1.12	1.02	1.24	316885	401	316484
575.1	Cholangitis	Digestive	1.11	1.02	1.21	310820	497	310323
184.11	Malignant neoplasm of ovary	Neoplasms	0.97	0.94	0.99	310562	5009	305553
362	Other retinal disorders	Sense Organs	1.08	1.01	1.15	316825	973	315852
261.4	Vitamin D deficiency	Endocrine/Metabolic	0.88	0.80	0.98	326194	408	325786
250.1	Type 1 diabetes	Endocrine/Metabolic	1.05	1.01	1.09	310189	2699	307490
184.1	Malignant neoplasm of ovary and other uterine adnexa	Neoplasms	0.95	0.92	0.99	308106	2553	305553
426.21	First degree AV block	Circulatory System	0.93	0.87	0.99	300526	1005	299521
411	Ischemic Heart Disease	Circulatory System	0.99	0.97	1.00	327032	31343	295689
411.8	Other chronic ischemic heart disease, unspecified	Circulatory System	0.99	0.97	1.00	326969	31280	295689
555.21	Ulcerative colitis (chronic)	Digestive	1.10	1.01	1.19	258967	571	258396
226	Benign neoplasm of thyroid glands	Neoplasms	1.15	1.02	1.29	326908	266	326642

450	Noninfectious disorders of lymphatic channels	Circulatory System	0.92	0.85	0.99	328240	717	327523
733	Other disorders of bone and cartilage	Musculoskeletal	1.10	1.01	1.19	316001	569	315432
70	Viral hepatitis	Infectious Diseases	0.92	0.85	0.99	322928	722	322206
187.2	Malignant neoplasm of testis	Neoplasms	0.97	0.94	1.00	323790	4572	319218
411.4	Coronary atherosclerosis	Circulatory System	0.99	0.97	1.00	327242	31553	295689
577	Diseases of pancreas	Digestive	0.91	0.83	0.99	326478	558	325920
293	Symptoms involving head and neck	Mental Disorders	1.05	1.00	1.09	327323	2204	325119
696.42	Psoriatic arthropathy	Dermatologic	0.92	0.85	0.99	314672	740	313932
180.1	Cervical cancer	Neoplasms	0.97	0.94	1.00	302137	4554	297583
738.4	Acquired spondylolisthesis	Musculoskeletal	1.14	1.01	1.28	316942	255	316687
597.1	Urethral stricture (not specified as infectious)	Genitourinary	0.96	0.93	1.00	317079	3443	313636
451.2	Phlebitis and thrombophlebitis of lower extremities	Circulatory System	0.96	0.93	1.00	291357	3644	287713
383	Otosclerosis	Sense Organs	0.88	0.79	0.99	324473	330	324143
747.11	Cardiac shunt/ heart septal defect	Congenital Anomalies	0.91	0.84	0.99	325935	581	325354
550.3	Femoral hernia	Digestive	0.92	0.85	0.99	280442	653	279789
250.41	Impaired fasting glucose	Endocrine/Metabolic	1.13	1.01	1.27	307758	268	307490
585.2	Renal failure NOS	Genitourinary	1.02	1.00	1.05	322824	8745	314079
870.1	Open wound or laceration of eye or eyelid	Injuries & Poisonings	0.88	0.78	0.99	320012	281	319731
374.3	Ptosis of eyelid	Sense Organs	1.05	1.00	1.10	320284	1896	318388
285	Other anemias	Hematopoietic	1.02	1.00	1.04	320744	11844	308900
414	Other forms of chronic heart disease	Circulatory System	0.95	0.91	1.00	297457	1768	295689
550.4	Umbilical hernia	Digestive	0.97	0.94	1.00	283693	3904	279789
522.5	Periapical abscess	Digestive	1.06	1.00	1.12	312904	1246	311658
191.11	Cancer of brain	Neoplasms	0.91	0.83	1.00	326945	498	326447
348.7	Coma	Neurological	0.90	0.81	1.00	286531	379	286152
260.6	Anorexia	Endocrine/Metabolic	0.93	0.87	1.00	326636	850	325786
149.4	Cancer of larynx	Neoplasms	0.88	0.78	1.00	326307	266	326041
636.3	Hemorrhage in early pregnancy	Pregnancy Complications	0.94	0.88	1.00	321078	1113	319965
426.9	Cardiac pacemaker/device in situ	Circulatory System	1.13	1.00	1.28	299758	237	299521
151	Cancer of stomach	Neoplasms	0.92	0.84	1.00	312905	574	312331
350.3	Lack of coordination	Neurological	0.90	0.81	1.00	325804	360	325444
804	Fracture of hand or wrist	Injuries & Poisonings	1.08	1.00	1.16	324232	675	323557
966	Poisoning by anticonvulsants and anti-Parkinsonism drugs	Injuries & Poisonings	1.09	1.00	1.18	300747	536	300211
250.2	Type 2 diabetes	Endocrine/Metabolic	1.01	1.00	1.03	326603	19113	307490
611.3	Lump or mass in breast	Genitourinary	1.05	1.00	1.10	322461	1588	320873
916	Contusion	Injuries & Poisonings	0.95	0.90	1.00	328240	1478	326762
386.1	Meniere's disease	Sense Organs	1.08	1.00	1.17	322213	564	321649
530.7	Gastroesophageal laceration-hemorrhage syndrome	Digestive	1.11	1.00	1.23	288136	333	287803

185	Cancer of prostate	Neoplasms	0.98	0.96	1.00	315856	8463	307393
377	Disorders of optic nerve and visual pathways	Sense Organs	0.91	0.83	1.00	288628	436	288192
395.1	Nonrheumatic mitral valve disorders	Circulatory System	0.97	0.93	1.00	324497	2969	321528
301	Personality disorders	Mental Disorders	1.09	1.00	1.20	283330	432	282898
594.1	Calculus of kidney	Genitourinary	0.97	0.93	1.00	323265	3334	319931
180.3	Cervical intraepithelial neoplasia [CIN] [Cervical dysplasia]	Neoplasms	0.96	0.92	1.00	299736	2153	297583
766	Neuralgia, neuritis, and radiculitis NOS	Symptoms	1.11	0.99	1.24	326987	304	326683
472	Chronic pharyngitis and nasopharyngitis	Respiratory	1.06	1.00	1.13	309897	947	308950
634.3	Ectopic pregnancy	Pregnancy Complications	0.90	0.81	1.01	320307	342	319965
256.4	Polycystic ovaries	Endocrine/Metabolic	1.13	0.99	1.29	324764	219	324545
603	Other disorders of testis	Genitourinary	0.94	0.88	1.00	308895	989	307906
272.11	Hypercholesterolemia	Endocrine/Metabolic	0.99	0.98	1.00	325499	34002	291497
241.2	Nontoxic multinodular goiter	Endocrine/Metabolic	0.93	0.86	1.00	311043	714	310329
480.5	Bronchopneumonia and lung abscess	Respiratory	0.91	0.82	1.01	318077	388	317689
369	Infection of the eye	Sense Organs	1.12	0.99	1.26	318642	254	318388
250	Diabetes mellitus	Endocrine/Metabolic	1.01	1.00	1.03	327730	20240	307490
172.3	Carcinoma in situ of skin	Neoplasms	1.07	0.99	1.15	314884	664	314220
565	Anal and rectal conditions	Digestive	1.02	1.00	1.04	255321	8661	246660
292.3	Memory loss	Mental Disorders	1.07	0.99	1.15	322208	738	321470
394.3	Aortic valve disease	Circulatory System	0.95	0.90	1.00	322836	1308	321528
394.2	Mitral valve disease	Circulatory System	0.97	0.93	1.00	324603	3075	321528
604	Disorders of penis	Genitourinary	0.93	0.87	1.01	308641	735	307906
599.5	Frequency of urination and polyuria	Genitourinary	0.97	0.94	1.00	224574	4147	220427
516.1	Hemoptysis	Respiratory	1.04	1.00	1.08	328154	2103	326051
989	Toxic effect of other substances, chiefly nonmedicinal as to source	Injuries & Poisonings	1.05	1.00	1.10	328136	1438	326698
380	Disorders of external ear	Sense Organs	0.95	0.91	1.00	328227	1475	326752
362.29	Macular degeneration (senile) of retina NOS	Sense Organs	1.04	1.00	1.08	318052	2200	315852
574.3	Cholecystitis without cholelithiasis	Digestive	0.97	0.93	1.00	313141	2818	310323
187.1	Malignant neoplasm of unspecified male genital organ	Neoplasms	0.98	0.96	1.00	327699	8481	319218
514	Abnormal findings examination of lungs	Respiratory	0.97	0.93	1.00	328212	2577	325635
430.2	Intracerebral hemorrhage	Circulatory System	0.94	0.87	1.01	318830	723	318107
742.8	Articular cartilage disorder	Musculoskeletal	0.93	0.86	1.01	311297	655	310642
427.9	Palpitations	Circulatory System	0.97	0.94	1.00	303480	3959	299521
362.2	Degeneration of macula and posterior pole of retina	Sense Organs	1.04	1.00	1.08	318055	2203	315852
476	Allergic rhinitis	Respiratory	0.95	0.89	1.01	310025	1075	308950
381.11	Suppurative and unspecified otitis media	Sense Organs	0.94	0.88	1.01	324993	850	324143
764	Sciatica	Symptoms	0.95	0.90	1.01	327944	1261	326683
189.2	Cancer of bladder	Neoplasms	0.94	0.88	1.01	324798	836	323962

681.7	Cellulitis and abscess of trunk	Dermatologic	0.93	0.86	1.01	317030	623	316407
331.9	Cerebral degeneration, unspecified	Neurological	1.09	0.99	1.19	286569	417	286152
420.21	Acute pericarditis	Circulatory System	0.89	0.78	1.02	325211	228	324983
381.9	Otorrhea	Sense Organs	0.90	0.80	1.02	324420	277	324143
442.11	Abdominal aortic aneurysm	Circulatory System	1.06	0.99	1.13	320257	897	319360
613.1	Inflammatory disease of breast	Genitourinary	1.06	0.99	1.14	323156	738	322418
759	Other and unspecified congenital anomalies	Congenital Anomalies	0.94	0.87	1.01	327249	679	326570
303.3	Psychogenic disorder	Mental Disorders	1.06	0.99	1.13	283739	841	282898
585.1	Acute renal failure	Genitourinary	1.03	1.00	1.06	318744	4665	314079
596.1	Bladder neck obstruction	Genitourinary	0.96	0.92	1.01	315665	2029	313636
726.1	Enthesopathy	Musculoskeletal	0.98	0.96	1.00	311657	6703	304954
344	Other paralytic syndromes	Neurological	0.94	0.87	1.01	286841	689	286152
195.1	Malignant neoplasm, other	Neoplasms	0.99	0.99	1.00	320138	90826	229312
227.3	Benign neoplasm of pituitary gland and craniopharyngeal duct (pouch)	Neoplasms	0.91	0.81	1.02	326970	328	326642
614.4	Inflammatory diseases of uterus, except cervix	Genitourinary	0.91	0.81	1.02	319107	308	318799
803.2	Fracture of radius and ulna	Injuries & Poisonings	0.94	0.88	1.01	324441	884	323557
429.3	Symptoms involving cardiovascular system	Circulatory System	0.89	0.77	1.02	322241	208	322033
291.8	Alteration of consciousness	Mental Disorders	1.08	0.99	1.19	321904	434	321470
296.2	Depression	Mental Disorders	1.02	1.00	1.03	295043	12145	282898
333.4	Torsion dystonia	Neurological	1.10	0.98	1.24	286417	265	286152
284	Aplastic anemia	Hematopoietic	1.01	1.00	1.03	321659	12759	308900
150	Cancer of esophagus	Neoplasms	0.94	0.87	1.01	313058	727	312331
732	Osteochondropathies	Musculoskeletal	0.89	0.78	1.02	315651	219	315432
285.22	Anemia in neoplastic disease	Hematopoietic	0.92	0.84	1.02	309337	437	308900
292.2	Mild cognitive impairment	Mental Disorders	1.12	0.98	1.28	321672	202	321470
800.3	Fracture of tibia and fibula	Injuries & Poisonings	1.07	0.99	1.16	324092	535	323557
580.32	Nephritis and nephropathy with pathological lesion	Genitourinary	1.05	0.99	1.11	315157	1078	314079
715	Other inflammatory spondylopathies	Musculoskeletal	0.91	0.80	1.02	317524	271	317253
365.2	Primary angle-closure glaucoma	Sense Organs	0.94	0.87	1.01	317491	709	316782
197	Chemotherapy	Neoplasms	0.99	0.98	1.00	251774	22462	229312
586.2	Cyst of kidney, acquired	Genitourinary	0.96	0.90	1.01	315372	1293	314079
569.2	Gastrointestinal complications	Digestive	1.07	0.98	1.17	247132	472	246660
318	Tobacco use disorder	Mental Disorders	1.01	1.00	1.03	318172	20503	297669
189	Cancer of urinary organs (incl. kidney and bladder)	Neoplasms	0.97	0.94	1.01	326965	3003	323962
599.4	Urinary incontinence	Genitourinary	0.98	0.96	1.00	229423	8996	220427
803	Fracture of upper limb	Injuries & Poisonings	0.93	0.84	1.02	323990	433	323557
357	Inflammatory and toxic neuropathy	Neurological	1.04	0.99	1.10	327375	1423	325952
737	Curvature of spine	Musculoskeletal	1.06	0.98	1.14	317430	743	316687

426.4	Anomalous atrioventricular excitation	Circulatory System	0.90	0.79	1.03	299761	240	299521
250.42	Other abnormal glucose	Endocrine/Metabolic	1.07	0.98	1.18	307927	437	307490
297.2	Suicide or self-inflicted injury	Mental Disorders	1.03	0.99	1.07	285655	2757	282898
687.4	Disturbance of skin sensation	Dermatologic	0.97	0.94	1.01	325793	2979	322814
360.2	Progressive myopia	Sense Organs	0.91	0.80	1.03	317032	250	316782
411.9	Other acute and subacute forms of ischemic heart disease	Circulatory System	1.04	0.99	1.11	296883	1194	295689
364.5	Corneal dystrophy	Sense Organs	1.11	0.97	1.26	316998	216	316782
296	Mood disorders	Mental Disorders	1.01	1.00	1.03	295853	12955	282898
430.1	Subarachnoid hemorrhage	Circulatory System	0.95	0.88	1.02	318931	824	318107
195	Cancer, suspected or other	Neoplasms	0.95	0.89	1.02	230227	915	229312
198.3	Secondary malignant neoplasm of digestive systems	Neoplasms	0.96	0.92	1.01	230877	1565	229312
290.2	Delirium due to conditions classified elsewhere	Mental Disorders	0.94	0.87	1.02	322151	681	321470
427.3	Other specified cardiac dysrhythmias	Circulatory System	0.97	0.94	1.01	302836	3315	299521
592.13	Chronic interstitial cystitis	Genitourinary	0.91	0.80	1.03	297289	254	297035
698	Pruritus and related conditions	Dermatologic	1.05	0.98	1.13	328240	799	327441
380.4	Impacted cerumen	Sense Organs	0.92	0.83	1.03	327106	354	326752
574.1	Cholelithiasis	Digestive	1.02	0.99	1.04	319629	9306	310323
385.5	Tympanosclerosis and middle ear disease related to otitis media	Sense Organs	0.91	0.80	1.04	324379	236	324143
290.1	Dementias	Mental Disorders	1.06	0.98	1.14	322121	651	321470
411.41	Aneurysm and dissection of heart	Circulatory System	0.95	0.88	1.02	296410	721	295689
368.2	Diplopia and disorders of binocular vision	Sense Organs	0.95	0.88	1.02	325635	753	324882
578	Gastrointestinal hemorrhage	Digestive	0.92	0.81	1.03	303679	285	303394
604.1	Redundant prepuce and phimosis/BXO	Genitourinary	0.97	0.94	1.01	310716	2810	307906
687	Symptoms affecting skin	Dermatologic	1.10	0.96	1.25	323032	218	322814
471	Nasal polyps	Respiratory	1.02	0.99	1.06	312342	3392	308950
53	Herpes zoster	Infectious Diseases	0.92	0.83	1.03	322547	341	322206
214.1	Lipoma of skin and subcutaneous tissue	Neoplasms	0.98	0.95	1.01	325432	4756	320676
871	Open wounds of extremities	Injuries & Poisonings	1.02	0.99	1.05	323873	4142	319731
530.14	Reflux esophagitis	Digestive	1.01	0.99	1.03	298696	10893	287803
603.1	Hydrocele	Genitourinary	0.96	0.91	1.02	309308	1402	307906
788	Syncope and collapse	Symptoms	0.99	0.97	1.01	328240	9372	318868
41.2	Streptococcus infection	Infectious Diseases	0.97	0.92	1.01	314280	1648	312632
496.2	Chronic bronchitis	Respiratory	1.08	0.97	1.21	294485	293	294192
277	Other disorders of metabolism	Endocrine/Metabolic	0.99	0.98	1.00	328230	45303	282927
416	Cardiomegaly	Circulatory System	0.97	0.94	1.01	324157	2610	321547
714.1	Rheumatoid arthritis	Musculoskeletal	1.03	0.99	1.07	319560	2307	317253
302	Sexual and gender identity disorders	Mental Disorders	1.08	0.97	1.20	283238	340	282898
532	Dysphagia	Digestive	0.98	0.96	1.01	294356	6553	287803

368	Visual disturbances	Sense Organs	1.04	0.98	1.11	325963	1081	324882
276.12	Hyposmolality and/or hyponatremia	Endocrine/Metabolic	0.97	0.92	1.01	322496	1852	320644
695.7	Prurigo and Lichen	Dermatologic	0.95	0.89	1.02	322541	792	321749
969	Poisoning by psychotropic agents	Injuries & Poisonings	1.03	0.99	1.08	302207	1996	300211
367.2	Astigmatism	Sense Organs	0.91	0.79	1.04	325964	210	325754
433.1	Occlusion and stenosis of precerebral arteries	Circulatory System	1.04	0.98	1.11	319149	1042	318107
371.1	Uveitis, noninfectious or NOS	Sense Organs	1.06	0.97	1.16	318886	498	318388
508	Pulmonary collapse; interstitial and compensatory emphysema	Respiratory	0.97	0.93	1.01	318570	2086	316484
342	Hemiplegia	Neurological	0.97	0.92	1.02	287677	1525	286152
528.7	Sialolithiasis	Digestive	1.08	0.97	1.20	322847	313	322534
80	Postoperative infection	Infectious Diseases	0.98	0.95	1.01	326101	4622	321479
594.3	Calculus of ureter	Genitourinary	1.03	0.99	1.07	322471	2540	319931
448	Disease of capillaries	Circulatory System	1.02	0.99	1.04	326841	7481	319360
496.1	Emphysema	Respiratory	0.97	0.92	1.02	295918	1726	294192
618.6	Vaginal enterocele, congenital or acquired	Genitourinary	1.05	0.98	1.13	316909	667	316242
939	Atopic/contact dermatitis due to other or unspecified	Dermatologic	1.03	0.99	1.07	324060	2154	321906
571.8	Liver abscess and sequelae of chronic liver disease	Digestive	0.95	0.87	1.03	318904	573	318331
642	Hypertension complicating pregnancy, childbirth, and the puerperium	Pregnancy Complications	0.96	0.90	1.02	328039	989	327050
306.9	Tension headache	Mental Disorders	1.08	0.96	1.20	283203	305	282898
70.3	Viral hepatitis C	Infectious Diseases	0.93	0.84	1.04	322549	343	322206
564	Functional digestive disorders	Digestive	1.04	0.98	1.11	259379	983	258396
686.4	Pyogenic granuloma	Dermatologic	0.93	0.84	1.04	316787	380	316407
722.6	Degeneration of intervertebral disc	Musculoskeletal	0.98	0.94	1.01	313866	2922	310944
244.4	Hypothyroidism NOS	Endocrine/Metabolic	1.01	0.99	1.03	324759	14430	310329
626.14	Irregular menstrual bleeding	Genitourinary	1.02	0.99	1.05	300177	3946	296231
213	Benign neoplasm of bone and articular cartilage	Neoplasms	0.93	0.83	1.04	277528	322	277206
345.11	Generalized convulsive epilepsy	Neurological	0.94	0.86	1.03	286617	465	286152
374	Other disorders of eyelids	Sense Organs	0.98	0.94	1.01	321593	3205	318388
636	Early or threatened labor; hemorrhage in early pregnancy	Pregnancy Complications	0.96	0.91	1.02	321227	1262	319965
743.9	Osteopenia or other disorder of bone and cartilage	Musculoskeletal	1.02	0.99	1.05	328188	3989	324199
289.5	Diseases of spleen	Hematopoietic	1.06	0.97	1.15	320846	528	320318
525	Other diseases of the teeth and supporting structures	Digestive	1.02	0.99	1.06	314357	2699	311658
394.7	Disease of tricuspid valve	Circulatory System	0.96	0.91	1.02	322614	1086	321528
345	Epilepsy, recurrent seizures, convulsions	Neurological	0.98	0.95	1.01	289613	3461	286152
524.3	Anomalies of tooth position/malocclusion	Digestive	0.93	0.83	1.04	311953	295	311658
295.1	Schizophrenia	Mental Disorders	1.05	0.97	1.14	283509	611	282898
574	Cholelithiasis and cholecystitis	Digestive	0.94	0.85	1.04	310726	403	310323
341	Other demyelinating diseases of central nervous system	Neurological	0.97	0.92	1.02	287764	1612	286152

338.2	Chronic pain	Neurological	0.94	0.85	1.04	327830	404	327426
800	Fracture of lower limb	Injuries & Poisonings	1.05	0.97	1.13	324256	699	323557
723	Other disorders of cervical region	Musculoskeletal	0.94	0.85	1.04	311345	401	310944
250.7	Diabetic retinopathy	Endocrine/Metabolic	1.03	0.98	1.09	317232	1380	315852
386.3	Labyrinthitis	Sense Organs	1.04	0.97	1.12	322440	791	321649
740.12	Osteoarthrosis, localized, secondary	Musculoskeletal	1.08	0.96	1.21	306589	264	306325
218	Benign neoplasm of uterus	Neoplasms	0.94	0.85	1.04	308168	388	307780
54	Herpes simplex	Infectious Diseases	0.92	0.80	1.05	322425	219	322206
174.1	Breast cancer [female]	Neoplasms	0.97	0.93	1.02	306711	2287	304424
352.2	Facial nerve disorders [CN7]	Neurological	1.04	0.98	1.11	313911	900	313011
598	Abnormal findings on examination of urine	Genitourinary	0.98	0.95	1.01	328240	3386	324854
994.2	Sepsis	Injuries & Poisonings	1.02	0.99	1.06	328240	2885	325355
965.1	Opiates and related narcotics causing adverse effects in therapeutic use	Injuries & Poisonings	0.97	0.91	1.02	301372	1161	300211
38	Septicemia	Infectious Diseases	1.02	0.99	1.06	315677	3045	312632
628	Ovarian cyst	Genitourinary	1.02	0.99	1.05	301051	4820	296231
253.2	Pituitary hypofunction	Endocrine/Metabolic	0.93	0.82	1.05	324826	281	324545
729	Other disorders of soft tissues	Musculoskeletal	0.99	0.98	1.01	327478	22524	304954
440.2	Atherosclerosis of the extremities	Circulatory System	0.95	0.87	1.03	319912	552	319360
858	Complication of internal orthopedic device	Injuries & Poisonings	1.02	0.99	1.06	317147	3183	313964
613.9	Breast disorder NOS	Genitourinary	1.02	0.99	1.04	327937	5519	322418
735.23	Hallux rigidus	Musculoskeletal	0.97	0.92	1.02	318243	1556	316687
577.1	Acute pancreatitis	Digestive	0.97	0.92	1.02	327437	1517	325920
702.1	Actinic keratosis	Dermatologic	1.02	0.98	1.06	325264	2664	322600
427.11	Paroxysmal supraventricular tachycardia	Circulatory System	0.98	0.94	1.02	301952	2431	299521
938	Dermatitis due to solar radiation	Injuries & Poisonings	1.02	0.98	1.06	324444	2538	321906
372	Disorders of conjunctiva	Sense Organs	0.96	0.91	1.03	319431	1043	318388
501	Pneumonitis due to inhalation of food or vomitus	Respiratory	0.95	0.88	1.03	317076	592	316484
622	Polyp of female genital organs	Genitourinary	0.95	0.87	1.04	315794	487	315307
495	Asthma	Respiratory	0.99	0.98	1.01	320971	26779	294192
742.9	Other derangement of joint	Musculoskeletal	1.06	0.96	1.17	311042	400	310642
907	Injuries to the nervous system	Injuries & Poisonings	1.03	0.98	1.07	328240	1845	326395
564.9	Personal history of diseases of digestive system	Digestive	0.99	0.97	1.01	274320	15924	258396
317.11	Alcoholic liver damage	Mental Disorders	1.04	0.97	1.11	298534	865	297669
649.1	Diabetes or abnormal glucose tolerance complicating pregnancy	Pregnancy Complications	1.08	0.94	1.24	328127	208	327919
218.1	Uterine leiomyoma	Neoplasms	0.99	0.97	1.01	318346	10566	307780
340.1	Migrain with aura	Neurological	0.92	0.81	1.06	318167	217	317950
281.11	Pernicious anemia	Hematopoietic	0.96	0.89	1.03	309650	750	308900
571.81	Portal hypertension	Digestive	1.05	0.97	1.14	318900	569	318331

380.1	Otitis externa	Sense Organs	0.95	0.87	1.04	327284	532	326752
789	Nausea and vomiting	Symptoms	0.99	0.97	1.01	328240	11983	316257
751.12	Congenital anomalies of male genital organs	Congenital Anomalies	0.93	0.81	1.06	326231	228	326003
481	Influenza	Respiratory	0.99	0.97	1.01	327706	10017	317689
519.2	Respiratory complications	Respiratory	1.07	0.95	1.19	265743	296	265447
526.9	Jaw disease NOS	Digestive	1.01	0.99	1.03	327620	15962	311658
687.1	Rash and other nonspecific skin eruption	Dermatologic	0.98	0.94	1.02	325032	2218	322814
427.8	Sinoatrial node dysfunction (Bradycardia)	Circulatory System	0.95	0.86	1.04	299940	419	299521
474.2	Chronic tonsillitis and adenoiditis	Respiratory	1.03	0.98	1.09	310135	1185	308950
411.1	Unstable angina (intermediate coronary syndrome)	Circulatory System	0.98	0.96	1.01	301011	5322	295689
263	Other nutritional deficiency	Endocrine/Metabolic	0.97	0.92	1.02	327337	1551	325786
626.2	Dysmenorrhea	Genitourinary	0.97	0.93	1.02	297910	1679	296231
575.8	Other disorders of biliary tract	Digestive	0.97	0.91	1.03	311372	1049	310323
496.21	Obstructive chronic bronchitis	Respiratory	0.98	0.94	1.02	296921	2729	294192
353	Nerve root and plexus disorders	Neurological	0.97	0.91	1.03	314005	994	313011
612.2	Hypertrophy of breast (Gynecomastia)	Genitourinary	1.04	0.97	1.11	321732	859	320873
526	Diseases of the jaws	Digestive	1.01	0.99	1.03	327645	15987	311658
573.5	Jaundice (not of newborn)	Digestive	1.04	0.97	1.10	319269	938	318331
579.2	Splenomegaly	Digestive	1.05	0.96	1.15	303837	443	303394
562.1	Diverticulosis	Digestive	0.99	0.98	1.01	286281	27885	258396
599.2	Retention of urine	Genitourinary	0.99	0.96	1.01	227284	6857	220427
627.2	Symptomatic menopause	Genitourinary	0.93	0.80	1.07	296434	203	296231
411.3	Angina pectoris	Circulatory System	0.99	0.98	1.01	312048	16359	295689
626.1	Irregular menstrual cycle/bleeding	Genitourinary	0.98	0.95	1.02	299824	3593	296231
624.9	stress incontinence, female	Genitourinary	0.99	0.96	1.01	324769	6100	318669
426.23	Second degree AV block	Circulatory System	0.95	0.87	1.04	299982	461	299521
530.5	Disorders of esophageal motility	Digestive	1.04	0.97	1.12	288452	649	287803
503	Pulmonary congestion and hypostasis	Respiratory	1.05	0.96	1.15	316959	475	316484
292.1	Aphasia/speech disturbance	Mental Disorders	0.97	0.93	1.02	323019	1549	321470
38.2	Gram positive septicemia	Infectious Diseases	1.05	0.96	1.14	313123	491	312632
506	Empyema and pneumothorax	Respiratory	0.97	0.91	1.03	317630	1146	316484
619.5	Noninflammatory disorders of vulva and perineum	Genitourinary	0.97	0.92	1.03	279927	1379	278548
480.11	Pneumococcal pneumonia	Respiratory	0.99	0.96	1.01	323680	5991	317689
608	Other disorders of male genital organs	Genitourinary	0.99	0.98	1.01	327998	20092	307906
722	Intervertebral disc disorders	Musculoskeletal	0.99	0.96	1.01	316907	5963	310944
621	Endometrial hyperplasia	Genitourinary	0.97	0.91	1.03	316461	1154	315307
560.4	Other intestinal obstruction	Digestive	0.98	0.95	1.02	261839	3443	258396
427.41	Ventricular fibrillation and flutter	Circulatory System	1.06	0.95	1.17	299866	345	299521

756	Other congenital musculoskeletal anomalies	Congenital Anomalies	1.04	0.97	1.11	328123	812	327311
749	Congenital anomalies of face and neck	Congenital Anomalies	0.94	0.83	1.06	328137	271	327866
228	Hemangioma and lymphangioma, any site	Neoplasms	1.03	0.98	1.08	328240	1635	326605
977	Personal history of allergy to medicinal agents	Injuries & Poisonings	1.07	0.94	1.21	300449	238	300211
962.3	Hormones and synthetic substitutes causing adverse effects in therapeutic use	Injuries & Poisonings	0.95	0.85	1.05	300575	364	300211
537	Other disorders of stomach and duodenum	Digestive	1.02	0.98	1.05	299994	3483	296511
464	Acute sinusitis	Respiratory	1.07	0.94	1.23	325387	208	325179
378.1	Strabismus (not specified as paralytic)	Sense Organs	0.97	0.91	1.03	289139	947	288192
229	Benign neoplasm of unspecified sites	Neoplasms	0.99	0.99	1.00	328240	46165	282075
519.9	Symptoms involving respiratory system and other chest symptoms	Respiratory	0.94	0.84	1.06	265755	308	265447
528	Diseases of the oral soft tissues, excluding lesions specific for gingiva and tongue	Digestive	0.98	0.94	1.02	324593	2059	322534
425.1	Primary/intrinsic cardiomyopathies	Circulatory System	0.97	0.91	1.03	326036	1053	324983
782.3	Edema	Symptoms	1.02	0.98	1.07	328067	1715	326352
512.9	Other dyspnea	Respiratory	0.97	0.91	1.03	315211	943	314268
427.4	Cardiac arrest and ventricular fibrillation	Circulatory System	1.05	0.95	1.17	299869	348	299521
433.8	Late effects of cerebrovascular disease	Circulatory System	0.97	0.92	1.03	319384	1277	318107
599.3	Dysuria	Genitourinary	0.97	0.92	1.03	221636	1209	220427
704	Diseases of hair and hair follicles	Dermatologic	1.01	0.99	1.04	326692	5263	321429
350.1	Abnormal involuntary movements	Neurological	0.97	0.91	1.03	326371	927	325444
250.23	Type 2 diabetes with ophthalmic manifestations	Endocrine/Metabolic	1.03	0.97	1.08	308834	1344	307490
429.2	Abnormal function study of cardiovascular system	Circulatory System	0.96	0.88	1.04	322577	544	322033
202.21	Nodular lymphoma	Neoplasms	0.95	0.86	1.05	323913	390	323523
204.21	Myeloid leukemia, acute	Neoplasms	1.06	0.95	1.18	323842	319	323523
674	Other complications of the puerperium NEC	Pregnancy Complications	1.06	0.94	1.19	328015	280	327735
317.1	Alcoholism	Mental Disorders	0.99	0.97	1.01	306366	8697	297669
571.6	Primary biliary cirrhosis	Digestive	1.06	0.94	1.20	318589	258	318331
8.6	Viral Enteritis	Infectious Diseases	0.97	0.90	1.04	319924	845	319079
707	Chronic ulcer of skin	Dermatologic	0.97	0.92	1.03	327959	1260	326699
530.1	Esophagitis, GERD and related diseases	Digestive	1.01	0.99	1.03	297342	9539	287803
198.2	Secondary malignancy of respiratory organs	Neoplasms	0.98	0.94	1.02	231589	2277	229312
433	Cerebrovascular disease	Circulatory System	0.99	0.97	1.01	326753	8646	318107
555.2	Ulcerative colitis	Digestive	0.98	0.95	1.02	261550	3154	258396
614.51	Cervicitis and endocervicitis	Genitourinary	1.03	0.97	1.09	320048	1249	318799
527.2	Sialoadenitis	Digestive	1.05	0.95	1.16	322908	374	322534
306	Other mental disorder	Mental Disorders	0.99	0.98	1.01	312303	29405	282898
497	Bronchitis	Respiratory	0.96	0.89	1.04	294834	642	294192
521.1	Dental caries	Digestive	1.02	0.98	1.05	314912	3254	311658
430.3	Subdural hemorrhage	Circulatory System	0.94	0.84	1.07	318378	271	318107

396	Abnormal heart sounds	Circulatory System	0.97	0.91	1.03	322603	1075	321528
272.9	Unspecified disorder of lipoid metabolism	Endocrine/Metabolic	1.06	0.93	1.21	291721	224	291497
304	Adjustment reaction	Mental Disorders	1.05	0.95	1.17	283221	323	282898
208	Benign neoplasm of colon	Neoplasms	0.99	0.98	1.01	325437	20827	304610
367.8	Hypermetropia	Sense Organs	0.94	0.83	1.07	325995	241	325754
452	Other venous embolism and thrombosis	Circulatory System	0.96	0.88	1.05	288267	554	287713
601.1	Prostatitis	Genitourinary	1.04	0.96	1.12	308058	665	307393
201	Hodgkin's disease	Neoplasms	1.06	0.94	1.19	323794	271	323523
760	Back pain	Symptoms	1.01	0.99	1.04	328240	5923	322317
870	Open wounds of head; neck; and trunk	Injuries & Poisonings	0.96	0.89	1.04	320327	596	319731
578.8	Hemorrhage of rectum and anus	Digestive	0.99	0.98	1.01	317220	13826	303394
276.6	Fluid overload	Endocrine/Metabolic	0.96	0.87	1.05	321117	473	320644
433.3	Cerebral ischemia	Circulatory System	0.97	0.91	1.04	319041	934	318107
741	Symptoms and disorders of the joints	Musculoskeletal	0.99	0.98	1.01	327531	16889	310642
626.8	Infertility, female	Genitourinary	1.03	0.97	1.08	297638	1407	296231
531	Peptic ulcer (excl. esophageal)	Digestive	0.95	0.84	1.07	320833	284	320549
965.2	Antirheumatics causing adverse effects in therapeutic use	Injuries & Poisonings	1.04	0.95	1.14	300710	499	300211
623	Hypertrophy of female genital organs	Genitourinary	1.03	0.97	1.08	316579	1272	315307
579.8	Nonspecific abnormal findings in stool contents	Digestive	0.98	0.93	1.03	305134	1740	303394
443.1	Raynaud's syndrome	Circulatory System	1.03	0.97	1.09	320525	1165	319360
700	Corns and callosities	Dermatologic	0.95	0.84	1.07	323352	288	323064
473.4	Voice disturbance	Respiratory	0.97	0.92	1.03	310051	1101	308950
726.2	Synoviopathy	Musculoskeletal	0.95	0.85	1.06	305285	331	304954
519	Other diseases of respiratory system, not elsewhere classified	Respiratory	1.00	0.99	1.00	327615	62168	265447
823	Fracture of tibia and fibula	Injuries & Poisonings	1.05	0.94	1.17	322362	342	322020
585.3	Chronic renal failure [CKD]	Genitourinary	1.02	0.98	1.06	316664	2585	314079
798	Malaise and fatigue	Symptoms	0.98	0.95	1.02	327695	2966	324729
427.7	Tachycardia NOS	Circulatory System	0.98	0.94	1.02	301787	2266	299521
379.2	Disorders of vitreous body	Sense Organs	0.98	0.93	1.03	289599	1407	288192
212	Benign neoplasm of respiratory and intrathoracic organs	Neoplasms	0.95	0.86	1.06	328240	355	327885
41.1	Staphylococcus infections	Infectious Diseases	0.98	0.95	1.02	315832	3200	312632
225.1	Benign neoplasm of brain, cranial nerves, meninges	Neoplasms	0.97	0.90	1.04	327267	820	326447
312	Conduct disorders	Mental Disorders	0.97	0.92	1.03	327638	1195	326443
204.12	Lymphoid leukemia, chronic	Neoplasms	1.04	0.95	1.13	324030	507	323523
706.2	Sebaceous cyst	Dermatologic	1.01	0.99	1.03	327401	9107	318294
155	Cancer of liver and intrahepatic bile duct	Neoplasms	0.94	0.83	1.07	312576	245	312331
736.2	Acquired deformities of finger	Musculoskeletal	0.95	0.83	1.07	316940	253	316687
681.6	Cellulitis and abscess of foot, toe	Dermatologic	0.99	0.96	1.01	322141	5734	316407

597	Other disorders of urethra and urinary tract	Genitourinary	0.97	0.91	1.04	314510	874	313636
594	Urinary calculus	Genitourinary	0.99	0.97	1.01	326897	6966	319931
557	Intestinal malabsorption (non-celiac)	Digestive	1.05	0.94	1.18	258690	294	258396
331	Other cerebral degenerations	Neurological	1.06	0.93	1.20	286392	240	286152
158	Neoplasm of unspecified nature of digestive system	Neoplasms	1.03	0.97	1.09	313429	1098	312331
745	Pain in joint	Musculoskeletal	0.98	0.94	1.03	328240	1940	326300
504	Other alveolar and parietoalveolar pneumonopathy	Respiratory	1.05	0.94	1.17	316793	309	316484
564.1	Irritable Bowel Syndrome	Digestive	1.01	0.99	1.04	264057	5661	258396
722.1	Displacement of intervertebral disc	Musculoskeletal	1.04	0.95	1.13	311460	516	310944
681.3	Cellulitis and abscess of arm/hand	Dermatologic	0.99	0.96	1.01	322177	5770	316407
250.6	Polyneuropathy in diabetes	Endocrine/Metabolic	1.04	0.95	1.15	307871	381	307490
477	Epistaxis or throat hemorrhage	Respiratory	0.98	0.94	1.02	311469	2519	308950
964.1	Anticoagulants causing adverse effects	Injuries & Poisonings	1.05	0.93	1.19	300470	259	300211
433.2	Occlusion of cerebral arteries	Circulatory System	1.02	0.98	1.05	321087	2980	318107
348.8	Encephalopathy, not elsewhere classified	Neurological	1.06	0.93	1.21	286356	204	286152
242	Thyrotoxicosis with or without goiter	Endocrine/Metabolic	0.98	0.93	1.03	311794	1465	310329
290.11	Alzheimer's disease	Mental Disorders	1.04	0.95	1.15	321872	402	321470
601.8	Other inflammatory disorders of male genital organs	Genitourinary	1.05	0.94	1.17	307698	305	307393
520.2	Disturbances in tooth eruption	Digestive	1.02	0.98	1.06	314095	2437	311658
174.11	Malignant neoplasm of female breast	Neoplasms	1.01	0.99	1.03	316838	12414	304424
465.2	Acute pharyngitis	Respiratory	0.97	0.91	1.04	326053	874	325179
510	Other diseases of lung	Respiratory	1.03	0.96	1.11	328200	770	327430
585.31	Renal dialysis	Genitourinary	0.96	0.88	1.05	314603	524	314079
292.6	Hallucinations	Mental Disorders	1.05	0.94	1.17	321793	323	321470
619.4	Noninflammatory disorders of vagina	Genitourinary	1.02	0.97	1.07	280328	1780	278548
752	Nervous system congenital anomalies	Congenital Anomalies	0.95	0.85	1.07	327963	288	327675
202.24	Large cell lymphoma	Neoplasms	1.03	0.95	1.12	324112	589	323523
600	Hyperplasia of prostate	Genitourinary	0.99	0.97	1.01	318965	11572	307393
653	Problems associated with amniotic cavity and membranes	Pregnancy Complications	0.98	0.93	1.03	328119	1523	326596
386	Vertiginous syndromes and other disorders of vestibular system	Sense Organs	1.02	0.98	1.06	323761	2112	321649
783	Fever of unknown origin	Symptoms	1.01	0.98	1.04	328240	4111	324129
575.6	Cholesterolosis of gallbladder	Digestive	0.96	0.88	1.06	310789	466	310323
379.5	Disorders of iris and ciliary body	Sense Organs	1.04	0.95	1.15	288604	412	288192
281	Other deficiency anemia	Hematopoietic	0.99	0.97	1.01	317687	8787	308900
614.33	Pelvic inflammatory disease, NOS	Genitourinary	1.01	0.99	1.04	324944	6145	318799
415	Pulmonary heart disease	Circulatory System	1.01	0.98	1.05	325300	3753	321547
613	Other nonmalignant breast conditions	Genitourinary	1.04	0.94	1.16	322786	368	322418
726.3	Bursitis	Musculoskeletal	0.97	0.89	1.05	305497	543	304954

751.22	Other specified congenital anomalies of kidney	Congenital Anomalies	1.04	0.94	1.16	326353	350	326003
38.1	Gram negative septicemia	Infectious Diseases	0.97	0.91	1.04	313487	855	312632
529.1	Glossitis	Digestive	1.05	0.94	1.17	322838	304	322534
427.12	Paroxysmal ventricular tachycardia	Circulatory System	0.97	0.91	1.04	300490	969	299521
427.5	Arrhythmia (cardiac) NOS	Circulatory System	0.97	0.91	1.04	300469	948	299521
853	Complication of colostomy or enterostomy	Injuries & Poisonings	0.96	0.88	1.05	314478	514	313964
279.7	Other immunological findings	Endocrine/Metabolic	0.95	0.84	1.08	327978	264	327714
519.8	Other diseases of respiratory system, NEC	Respiratory	0.99	0.97	1.01	274529	9082	265447
454	Varicose veins	Circulatory System	0.98	0.93	1.03	289316	1603	287713
540	Appendiceal conditions	Digestive	0.99	0.96	1.02	328240	3861	324379
286.12	Congenital deficiency of other clotting factors (including factor VII)	Hematopoietic	1.05	0.94	1.17	325800	303	325497
475	Chronic sinusitis	Respiratory	1.02	0.98	1.06	311580	2630	308950
573.7	Abnormal results of function study of liver	Digestive	1.01	0.98	1.05	321896	3565	318331
550.2	Diaphragmatic hernia	Digestive	1.00	0.99	1.02	307453	27664	279789
550.1	Inguinal hernia	Digestive	1.01	0.99	1.02	296174	16385	279789
800.1	Fracture of neck of femur	Injuries & Poisonings	0.95	0.84	1.08	323796	239	323557
378.5	Paralytic strabismus	Sense Organs	1.05	0.93	1.17	288479	287	288192
428.1	Congestive heart failure (CHF) NOS	Circulatory System	1.02	0.97	1.06	324086	2053	322033
165.1	Cancer of bronchus; lung	Neoplasms	1.02	0.97	1.06	327450	2181	325269
426.31	Right bundle branch block	Circulatory System	0.98	0.93	1.03	301094	1573	299521
214	Lipoma	Neoplasms	1.02	0.97	1.07	322495	1819	320676
245.21	Chronic lymphocytic thyroiditis	Endocrine/Metabolic	1.05	0.92	1.20	310548	219	310329
703	Diseases of nail, NOS	Dermatologic	1.04	0.94	1.15	321795	366	321429
740.2	Osteoarthrosis, generalized	Musculoskeletal	0.97	0.89	1.05	306914	589	306325
444.1	Arterial embolism and thrombosis of lower extremity artery	Circulatory System	0.97	0.89	1.05	319930	570	319360
371.3	Inflammation of eyelids	Sense Organs	1.02	0.98	1.06	320786	2398	318388
669	Complications of labor and delivery NEC	Pregnancy Complications	0.99	0.97	1.02	328240	9534	318706
327	Sleep disorders	Neurological	0.98	0.92	1.04	323754	1034	322720
361	Retinal detachments and defects	Sense Organs	1.02	0.97	1.06	319011	2229	316782
642.1	Preeclampsia and eclampsia	Pregnancy Complications	0.96	0.86	1.07	327385	335	327050
540.1	Appendicitis	Digestive	0.97	0.91	1.04	325174	795	324379
369.5	Conjunctivitis, infectious	Sense Organs	0.95	0.83	1.09	318612	224	318388
335	Multiple sclerosis	Neurological	0.98	0.93	1.03	287531	1379	286152
681.5	Cellulitis and abscess of leg, except foot	Dermatologic	0.99	0.96	1.02	322184	5777	316407
415.21	Primary pulmonary hypertension	Circulatory System	0.97	0.88	1.06	322013	466	321547
961	Poisoning by other anti-infectives	Injuries & Poisonings	0.97	0.88	1.06	300647	436	300211
614.32	Chronic inflammatory pelvic disease	Genitourinary	1.04	0.94	1.14	319224	425	318799
480.1	Bacterial pneumonia	Respiratory	1.02	0.96	1.09	318628	939	317689

586.4	Stricture/obstruction of ureter	Genitourinary	0.98	0.91	1.04	315018	939	314079
480	Pneumonia	Respiratory	0.99	0.96	1.02	321603	3914	317689
418.1	Precordial pain	Circulatory System	1.01	0.98	1.05	299506	3686	295820
528.6	Leukoplakia of oral mucosa	Digestive	0.96	0.86	1.07	322846	312	322534
755.1	Congenital deformities of feet	Congenital Anomalies	1.05	0.92	1.20	327531	220	327311
625	Pain and other symptoms associated with female genital organs	Genitourinary	1.02	0.97	1.06	320718	2049	318669
573	Other disorders of liver	Digestive	1.01	0.98	1.04	323533	5202	318331
702.2	Seborrheic keratosis	Dermatologic	1.01	0.98	1.05	325769	3169	322600
375.2	Epiphora	Sense Organs	0.98	0.91	1.04	289094	902	288192
334	Degenerative disease of the spinal cord	Neurological	0.98	0.93	1.03	287631	1479	286152
610.8	Other specified benign mammary dysplasias	Genitourinary	0.97	0.90	1.05	321576	703	320873
513.4	Hyperventilation	Respiratory	1.04	0.93	1.17	327904	280	327624
451	Phlebitis and thrombophlebitis	Circulatory System	0.96	0.87	1.07	288110	397	287713
686.1	Carbuncle and furuncle	Dermatologic	1.01	0.97	1.06	318829	2422	316407
316	Substance addiction and disorders	Mental Disorders	0.96	0.87	1.07	298042	373	297669
384	Other disorders of tympanic membrane	Sense Organs	0.97	0.88	1.06	324573	430	324143
701.4	Keloid scar	Dermatologic	1.05	0.92	1.19	323292	228	323064
695.42	Systemic lupus erythematosus	Dermatologic	0.96	0.87	1.07	320784	363	320421
872	Traumatic amputation	Injuries & Poisonings	0.97	0.88	1.06	320213	482	319731
241.1	Nontoxic uninodular goiter	Endocrine/Metabolic	0.97	0.89	1.06	310840	511	310329
686	Other local infections of skin and subcutaneous tissue	Dermatologic	0.99	0.97	1.01	327410	11003	316407
738	Other acquired musculoskeletal deformity	Musculoskeletal	0.97	0.88	1.06	317104	417	316687
495.2	Asthma with exacerbation	Respiratory	1.04	0.93	1.18	294453	261	294192
721.1	Spondylosis without myelopathy	Musculoskeletal	1.02	0.96	1.08	312014	1070	310944
210	Benign neoplasm of lip, oral cavity, and pharynx	Neoplasms	0.98	0.92	1.04	327034	993	326041
443.7	Peripheral angiopathy in diseases classified elsewhere	Circulatory System	0.97	0.88	1.07	319775	415	319360
204	Leukemia	Neoplasms	0.97	0.88	1.06	323984	461	323523
626.12	Excessive or frequent menstruation	Genitourinary	1.01	0.99	1.03	306272	10041	296231
174	Breast cancer	Neoplasms	0.96	0.85	1.08	304712	288	304424
496	Chronic airway obstruction	Respiratory	0.99	0.97	1.02	301827	7635	294192
979	Adverse drug events and drug allergies	Injuries & Poisonings	0.97	0.90	1.05	300927	716	300211
385.3	Cholesteatoma	Sense Organs	1.03	0.95	1.11	324732	589	324143
252.1	Hyperparathyroidism	Endocrine/Metabolic	1.02	0.96	1.10	325359	814	324545
365	Glaucoma	Sense Organs	0.99	0.96	1.02	321340	4558	316782
371	Inflammation of the eye	Sense Organs	0.97	0.88	1.07	318796	408	318388
947	Urticaria	Injuries & Poisonings	1.03	0.94	1.14	322293	387	321906
605	Erectile dysfunction [ED]	Genitourinary	0.96	0.86	1.08	308197	291	307906
568.1	Peritoneal adhesions (postoperative) (postinfection)	Digestive	0.99	0.95	1.02	249757	3097	246660

420.2	Pericarditis	Circulatory System	1.02	0.96	1.08	326070	1087	324983
276.11	Hyperosmolality and/or hypernatremia	Endocrine/Metabolic	1.04	0.92	1.18	320891	247	320644
558	Noninfectious gastroenteritis	Digestive	1.00	0.98	1.01	278260	19864	258396
41	Bacterial infection NOS	Infectious Diseases	1.01	0.99	1.03	323384	10752	312632
735.21	Hammer toe (acquired)	Musculoskeletal	0.99	0.94	1.03	318701	2014	316687
592.12	Chronic cystitis	Genitourinary	1.02	0.96	1.09	297948	913	297035
8.5	Bacterial enteritis	Infectious Diseases	0.99	0.94	1.03	321188	2109	319079
455	Hemorrhoids	Circulatory System	1.00	0.99	1.02	312410	24697	287713
172.2	Other non-epithelial cancer of skin	Neoplasms	1.01	0.99	1.03	325462	11242	314220
433.12	Cerebral atherosclerosis	Circulatory System	0.96	0.84	1.09	318345	238	318107
801.1	Fracture of foot	Injuries & Poisonings	1.03	0.94	1.14	323975	418	323557
618.5	Prolapse of vaginal vault after hysterectomy	Genitourinary	0.97	0.89	1.06	316743	501	316242
217.1	Nevus, non-neoplastic	Neoplasms	0.97	0.90	1.06	320346	597	319749
531.2	Gastric ulcer	Digestive	0.99	0.96	1.02	324777	4228	320549
285.1	Acute posthemorrhagic anemia	Hematopoietic	0.96	0.85	1.09	309167	267	308900
595	Hydronephrosis	Genitourinary	0.99	0.94	1.03	321941	2010	319931
728.71	Contracture of palmar fascia [Dupuytren's disease]	Musculoskeletal	0.99	0.95	1.03	307403	2449	304954
454.1	Varicose veins of lower extremity	Circulatory System	0.99	0.98	1.01	299275	11562	287713
244.1	Secondary hypothyroidism	Endocrine/Metabolic	1.02	0.96	1.08	311484	1155	310329
446.5	Giant cell arteritis	Circulatory System	0.97	0.88	1.07	319750	390	319360
386.2	Peripheral or central vertigo	Sense Organs	1.03	0.93	1.14	322036	387	321649
535.1	Acute gastritis	Digestive	0.98	0.93	1.04	297704	1193	296511
577.3	Cyst and pseudocyst of pancreas	Digestive	1.03	0.93	1.14	326295	375	325920
345.1	Epilepsy	Neurological	0.97	0.87	1.08	286483	331	286152
367.9	Blindness and low vision	Sense Organs	0.98	0.91	1.05	326510	756	325754
202	Cancer of other lymphoid, histiocytic tissue	Neoplasms	0.98	0.93	1.04	324661	1138	323523
389.1	Sensorineural hearing loss	Sense Organs	1.03	0.94	1.13	318658	464	318194
727.5	Rupture of synovium	Musculoskeletal	0.97	0.87	1.08	305298	344	304954
610.2	Fibroadenosis of breast	Genitourinary	0.97	0.86	1.08	321189	316	320873
389.4	Tinnitus	Sense Organs	0.97	0.89	1.06	318735	541	318194
175	Acquired absence of breast	Neoplasms	0.99	0.95	1.03	305907	2516	303391
199	Neoplasm of uncertain behavior	Neoplasms	1.02	0.96	1.08	230468	1156	229312
242.1	Graves' disease	Endocrine/Metabolic	1.03	0.94	1.13	310789	460	310329
531.4	Peptic ulcer, site unspecified	Digestive	0.97	0.89	1.07	320998	449	320549
368.1	Amblyopia	Sense Organs	1.03	0.94	1.11	325423	541	324882
615	Endometriosis	Genitourinary	0.99	0.96	1.02	322888	4089	318799
578.1	Hematemesis	Digestive	1.01	0.97	1.06	305428	2034	303394
324	Other CNS infection and poliomyelitis	Neurological	0.97	0.86	1.09	327426	288	327138

509.2	Respiratory insufficiency	Respiratory	0.99	0.94	1.03	318272	1788	316484
624.2	Atrophy of female genital tract	Genitourinary	1.03	0.94	1.13	319111	442	318669
716.2	Unspecified monoarthritis	Musculoskeletal	1.00	0.98	1.01	289797	15901	273896
198.1	Secondary malignancy of lymph nodes	Neoplasms	0.99	0.97	1.02	234815	5503	229312
960.2	Allergy/adverse effect of penicillin	Injuries & Poisonings	1.00	0.98	1.01	316894	16683	300211
440.9	Atherosclerosis of aorta	Circulatory System	1.04	0.91	1.19	319562	202	319360
618.2	Uterine/Uterovaginal prolapse	Genitourinary	0.99	0.97	1.02	321713	5471	316242
803.3	Fracture of clavicle or scapula	Injuries & Poisonings	0.97	0.86	1.09	323857	300	323557
191	Malignant and unknown neoplasms of brain and nervous system	Neoplasms	0.96	0.84	1.10	326662	215	326447
367.1	Myopia	Sense Organs	0.98	0.93	1.04	327025	1271	325754
750	Digestive congenital anomalies	Congenital Anomalies	1.02	0.95	1.10	326705	702	326003
337	Disorders of the autonomic nervous system	Neurological	1.04	0.91	1.19	286359	207	286152
535.8	Other specified gastritis	Digestive	0.99	0.97	1.02	304926	8415	296511
714	Rheumatoid arthritis and other inflammatory polyarthropathies	Musculoskeletal	1.01	0.98	1.03	325905	8652	317253
803.1	Fracture of humerus	Injuries & Poisonings	0.97	0.86	1.09	323850	293	323557
443.9	Peripheral vascular disease, unspecified	Circulatory System	1.01	0.97	1.05	321969	2609	319360
458.1	Orthostatic hypotension	Circulatory System	0.98	0.93	1.04	195553	1374	194179
555	Inflammatory bowel disease and other gastroenteritis and colitis	Digestive	1.00	0.98	1.01	278195	19799	258396
375	Disorders of lacrimal system	Sense Organs	1.01	0.97	1.06	289852	1660	288192
751.1	Congenital anomalies of genital organs	Congenital Anomalies	0.98	0.91	1.05	326709	706	326003
500.2	Pneumoconiosis	Respiratory	0.98	0.92	1.05	317485	1001	316484
411.2	Myocardial infarction	Circulatory System	0.99	0.98	1.01	307658	11969	295689
276.13	Hyperpotassemia	Endocrine/Metabolic	1.02	0.96	1.08	321623	979	320644
556.1	Ulceration of intestine	Digestive	0.98	0.91	1.06	259087	691	258396
153.2	Colon cancer	Neoplasms	0.99	0.96	1.03	304402	3122	301280
364	Corneal opacity and other disorders of cornea	Sense Organs	1.04	0.91	1.18	317009	227	316782
340	Migraine	Neurological	1.01	0.97	1.05	320723	2773	317950
741.4	Joint effusions	Musculoskeletal	0.97	0.86	1.09	310925	283	310642
960	Poisoning by antibiotics	Injuries & Poisonings	0.99	0.96	1.02	303739	3528	300211
512.2	Painful respiration	Respiratory	0.96	0.85	1.10	314496	228	314268
323	Encephalitis	Neurological	0.98	0.92	1.05	327999	861	327138
334.2	Anterior horn cell disease	Neurological	0.96	0.84	1.10	286376	224	286152
618	Genital prolapse	Genitourinary	0.98	0.90	1.06	316862	620	316242
442.8	Aneurysm of other specified artery	Circulatory System	1.04	0.91	1.19	319570	210	319360
599.9	Other abnormality of urination	Genitourinary	0.99	0.94	1.03	222371	1944	220427
200.1	Polycythemia vera	Neoplasms	1.03	0.93	1.13	318136	404	317732
526.41	Temporomandibular joint disorder, unspecified	Digestive	0.96	0.85	1.10	311886	228	311658
529	Diseases and other conditions of the tongue	Digestive	1.02	0.95	1.08	323485	951	322534

752.11	Spina bifida	Congenital Anomalies	0.96	0.84	1.11	327886	211	327675
587	Kidney replaced by transpant	Genitourinary	1.03	0.93	1.13	314477	398	314079
427.6	Premature beats	Circulatory System	1.02	0.94	1.12	299979	458	299521
593	Hematuria	Genitourinary	1.00	0.98	1.01	313795	16760	297035
473.3	Paralysis/spasm of vocal cords or larynx	Respiratory	1.03	0.92	1.16	309217	267	308950
512.8	Cough	Respiratory	1.01	0.97	1.05	317232	2964	314268
292	Neurological disorders	Mental Disorders	1.03	0.93	1.12	321919	449	321470
941	Adverse reaction to serum or vaccine	Injuries & Poisonings	0.96	0.84	1.10	322128	222	321906
149	Cancer of larynx, pharynx, nasal cavities	Neoplasms	0.98	0.92	1.05	326986	945	326041
272.1	Hyperlipidemia	Endocrine/Metabolic	1.01	0.98	1.04	296728	5231	291497
300.1	Anxiety disorder	Mental Disorders	0.99	0.97	1.02	288368	5470	282898
579	Other symptoms involving abdomen and pelvis	Digestive	1.02	0.96	1.07	304580	1186	303394
771.1	Swelling of limb	Symptoms	1.02	0.95	1.09	327356	842	326514
618.1	Prolapse of vaginal walls	Genitourinary	0.99	0.97	1.02	323726	7484	316242
382	Otalgia	Sense Organs	0.97	0.87	1.09	324458	315	324143
613.8	Other specified disorders of breast	Genitourinary	1.03	0.93	1.14	322773	355	322418
726	Peripheral enthesopathies and allied syndromes	Musculoskeletal	1.01	0.98	1.03	313722	8768	304954
275.5	Disorders of calcium/phosphorus metabolism	Endocrine/Metabolic	0.98	0.93	1.05	327144	1109	326035
320	Meningitis	Neurological	0.98	0.89	1.07	327577	439	327138
440	Atherosclerosis	Circulatory System	1.04	0.90	1.19	319564	204	319360
727.1	Synovitis and tenosynovitis	Musculoskeletal	0.98	0.91	1.06	305641	687	304954
636.2	Early onset of delivery	Pregnancy Complications	1.02	0.94	1.10	320594	629	319965
830	Dislocation	Injuries & Poisonings	0.99	0.95	1.03	323927	2154	321773
535.6	Duodenitis	Digestive	1.01	0.98	1.03	304405	7894	296511
550.5	Ventral hernia	Digestive	0.99	0.96	1.03	283371	3582	279789
707.1	Decubitus ulcer	Dermatologic	0.97	0.87	1.09	327025	326	326699
575.7	Other disorders of gallbladder	Digestive	0.99	0.94	1.04	311719	1396	310323
170.2	Cancer of connective tissue	Neoplasms	0.98	0.91	1.06	328122	734	327388
374.1	Ectropion or entropion	Sense Organs	0.99	0.93	1.05	319480	1092	318388
614.52	Vaginitis and vulvovaginitis	Genitourinary	1.02	0.93	1.13	319219	420	318799
198	Secondary malignant neoplasm	Neoplasms	0.99	0.93	1.05	230431	1119	229312
805	Fracture of vertebral column without mention of spinal cord injury	Injuries & Poisonings	0.97	0.87	1.09	323890	333	323557
172.11	Melanomas of skin	Neoplasms	0.99	0.95	1.03	316943	2723	314220
388	Other disorders of ear	Sense Organs	1.00	0.98	1.02	328080	9886	318194
559	Ileostomy status	Digestive	1.01	0.96	1.06	260069	1673	258396
384.4	Perforation of tympanic membrane	Sense Organs	0.99	0.93	1.05	325167	1024	324143
819	Skull and face fracture and other intercranial injury	Injuries & Poisonings	0.99	0.94	1.04	328056	1517	326539
751.21	Cystic kidney disease	Congenital Anomalies	1.02	0.93	1.12	326461	458	326003

701.2	Scar conditions and fibrosis of skin	Dermatologic	1.01	0.97	1.05	325471	2407	323064
946	Anaphylactic shock NOS	Injuries & Poisonings	0.98	0.90	1.07	322450	544	321906
614.1	Pelvic peritoneal adhesions, female (postoperative) (postinfection)	Genitourinary	1.01	0.97	1.05	321370	2571	318799
686.3	Pilonidal cyst	Dermatologic	1.02	0.94	1.10	317024	617	316407
550	Abdominal hernia	Digestive	1.00	0.99	1.01	328240	48451	279789
446.9	Arteritis NOS	Circulatory System	0.97	0.86	1.10	319605	245	319360
447	Other disorders of arteries and arterioles	Circulatory System	1.02	0.94	1.11	319916	556	319360
246	Other disorders of thyroid	Endocrine/Metabolic	1.00	0.99	1.02	327738	17409	310329
619.1	Noninflammatory disorders of ovary, fallopian tube, and broad ligament	Genitourinary	1.02	0.95	1.09	279282	734	278548
523.31	Acute periodontitis	Digestive	0.98	0.91	1.06	312371	713	311658
614.5	Inflammatory disease of cervix, vagina, and vulva	Genitourinary	0.98	0.87	1.09	319133	334	318799
352.1	Trigeminal nerve disorders [CN5]	Neurological	0.98	0.89	1.07	313473	462	313011
184.2	Cancer of other female genital organs	Neoplasms	1.02	0.92	1.14	305876	323	305553
560.3	Peritoneal or intestinal adhesions	Digestive	0.98	0.92	1.05	259257	861	258396
721	Spondylosis and allied disorders	Musculoskeletal	0.99	0.92	1.05	311869	925	310944
345.12	Partial epilepsy	Neurological	0.97	0.87	1.09	286450	298	286152
801	Fracture of ankle and foot	Injuries & Poisonings	0.97	0.86	1.10	323808	251	323557
220	Benign neoplasm of ovary	Neoplasms	0.99	0.94	1.04	297546	1490	296056
361.1	Retinal detachment with retinal defect	Sense Organs	0.99	0.94	1.04	318238	1456	316782
157	Pancreatic cancer	Neoplasms	1.02	0.94	1.10	312933	602	312331
281.13	Folate-deficiency anemia	Hematopoietic	0.97	0.84	1.12	309101	201	308900
338.1	Acute pain	Neurological	0.98	0.89	1.08	327846	420	327426
681.1	Cellulitis and abscess of fingers/toes	Dermatologic	0.98	0.90	1.07	316989	582	316407
526.1	Cysts of the jaws	Digestive	0.98	0.88	1.09	311993	335	311658
722.9	Other and unspecified disc disorder	Musculoskeletal	0.99	0.96	1.02	314894	3950	310944
840	Sprains and strains	Injuries & Poisonings	1.02	0.93	1.11	328201	481	327720
442.1	Aortic aneurysm	Circulatory System	0.98	0.91	1.07	319946	586	319360
535.2	Atrophic gastritis	Digestive	1.02	0.92	1.13	296869	358	296511
366.2	Senile cataract	Sense Organs	1.00	0.97	1.02	315842	8458	307384
614.53	Cyst or abscess of Bartholin's gland	Genitourinary	1.01	0.95	1.09	319602	803	318799
634.1	Missed abortion/Hydatidiform mole	Pregnancy Complications	1.01	0.96	1.07	321168	1203	319965
703.1	Ingrowing nail	Dermatologic	1.01	0.95	1.08	322439	1010	321429
689	Disorder of skin and subcutaneous tissue NOS	Dermatologic	1.00	0.99	1.01	328240	42194	286046
275.1	Disorders of iron metabolism	Hematopoietic	0.98	0.91	1.06	326735	700	326035
251.1	Hypoglycemia	Endocrine/Metabolic	0.99	0.93	1.05	305952	977	304975
348.2	Cerebral edema and compression of brain	Neurological	0.98	0.86	1.10	286412	260	286152
740.9	Osteoarthrosis NOS	Musculoskeletal	1.01	0.98	1.04	310757	4432	306325
522	Diseases of pulp and periapical tissues	Digestive	0.98	0.91	1.06	312297	639	311658

701.5	Abnormal granulation tissue	Dermatologic	0.98	0.90	1.08	323543	479	323064
717	Polymyalgia Rheumatica	Musculoskeletal	0.99	0.93	1.05	328240	1147	327093
262	Mineral deficiency NEC	Endocrine/Metabolic	1.03	0.90	1.16	326027	241	325786
136	Other infectious and parasitic diseases	Infectious Diseases	0.98	0.89	1.08	327982	428	327554
365.11	Primary open angle glaucoma	Sense Organs	1.01	0.95	1.07	317838	1056	316782
8	Intestinal infection	Infectious Diseases	1.00	0.98	1.02	328240	9161	319079
586	Other disorders of the kidney and ureters	Genitourinary	0.99	0.96	1.03	317490	3411	314079
300	Anxiety, phobic and dissociative disorders	Mental Disorders	0.98	0.88	1.09	283261	363	282898
261.2	Vitamin B-complex deficiencies	Endocrine/Metabolic	1.01	0.94	1.09	326559	773	325786
578.2	Blood in stool	Digestive	0.99	0.96	1.03	306143	2749	303394
715.2	Ankylosing spondylitis	Musculoskeletal	1.02	0.92	1.13	317637	384	317253
389	Hearing loss	Sense Organs	1.01	0.97	1.04	321364	3170	318194
327.3	Sleep apnea	Neurological	1.01	0.98	1.04	327419	4699	322720
502	Postinflammatory pulmonary fibrosis	Respiratory	1.01	0.95	1.08	317367	883	316484
274.1	Gout	Endocrine/Metabolic	1.01	0.96	1.06	327930	1668	326262
870.4	Open wound of nose and sinus	Injuries & Poisonings	0.98	0.86	1.11	319969	238	319731
444	Arterial embolism and thrombosis	Circulatory System	0.98	0.89	1.08	319794	434	319360
967	Adverse effects of sedatives or other central nervous system depressants and anesthetics	Injuries & Poisonings	0.98	0.91	1.07	300790	579	300211
153.3	Malignant neoplasm of rectum, rectosigmoid junction, and anus	Neoplasms	1.01	0.97	1.05	303397	2117	301280
580.2	Nephrotic syndrome without mention of glomerulonephritis	Genitourinary	1.02	0.93	1.11	314575	496	314079
590	Pyelonephritis	Genitourinary	1.01	0.97	1.04	300960	3925	297035
523.32	Chronic periodontitis	Digestive	0.99	0.91	1.07	312248	590	311658
635.2	Antepartum hemorrhage, abruptio placentae, and placenta previa	Pregnancy Complications	1.01	0.95	1.08	320901	936	319965
479	Other upper respiratory disease	Respiratory	1.00	0.99	1.02	324241	15291	308950
957	Injury to other and unspecified nerves	Injuries & Poisonings	0.98	0.87	1.10	328157	275	327882
198.4	Secondary malignant neoplasm of liver	Neoplasms	0.99	0.96	1.03	232009	2697	229312
200	Myeloproliferative disease	Neoplasms	1.01	0.94	1.09	324202	679	323523
727.4	Ganglion and cyst of synovium, tendon, and bursa	Musculoskeletal	1.01	0.97	1.04	307936	2982	304954
790.6	Other abnormal blood chemistry	Symptoms	1.00	0.97	1.02	328029	6529	321500
697	Sarcoidosis	Dermatologic	0.99	0.91	1.07	322309	560	321749
250.11	Type 1 diabetes with ketoacidosis	Endocrine/Metabolic	0.98	0.86	1.11	307745	255	307490
737.3	Kyphoscoliosis and scoliosis	Musculoskeletal	1.02	0.92	1.13	317058	371	316687
785	Abdominal pain	Symptoms	1.00	0.99	1.01	328240	42311	285929
601.4	Balanoposthitis	Genitourinary	0.98	0.87	1.10	307689	296	307393
791	Gangrene	Symptoms	1.01	0.93	1.10	328240	579	327661
458	Hypotension	Circulatory System	0.99	0.93	1.05	195260	1081	194179
578.9	Hemorrhage of gastrointestinal tract	Digestive	1.00	0.98	1.03	308849	5455	303394
216	Benign neoplasm of skin	Neoplasms	1.00	0.98	1.03	327614	7865	319749

193	Thyroid cancer	Neoplasms	1.02	0.92	1.13	327009	367	326642
591	Urinary tract infection	Genitourinary	1.00	0.99	1.02	309711	12676	297035
624.1	Dystrophy of female genital tract	Genitourinary	1.02	0.90	1.16	318909	240	318669
571.5	Other chronic nonalcoholic liver disease	Digestive	1.01	0.96	1.06	320004	1673	318331
575.9	Nonspecific abnormal findings on radiological and other examination of biliary tract	Digestive	1.02	0.92	1.13	310690	367	310323
560.1	Paralytic ileus	Digestive	0.99	0.90	1.07	258916	520	258396
949	Allergies, other	Injuries & Poisonings	1.02	0.92	1.12	322326	420	321906
601.11	Acute prostatitis	Genitourinary	1.02	0.90	1.15	307653	260	307393
565.1	Anal and rectal polyp	Digestive	1.00	0.97	1.02	254329	7669	246660
721.8	Other allied disorders of spine	Musculoskeletal	1.01	0.97	1.04	314171	3227	310944
740.1	Osteoarthritis; localized	Musculoskeletal	1.00	0.98	1.02	315797	9472	306325
426.32	Left bundle branch block	Circulatory System	0.99	0.95	1.04	301302	1781	299521
536	Disorders of function of stomach	Digestive	1.02	0.90	1.15	296768	257	296511
614	Inflammatory diseases of female pelvic organs	Genitourinary	0.98	0.89	1.09	319173	374	318799
292.4	Altered mental status	Mental Disorders	1.01	0.97	1.05	323742	2272	321470
540.11	Acute appendicitis	Digestive	0.99	0.96	1.03	327037	2658	324379
709.2	Sicca syndrome	Dermatologic	1.01	0.93	1.11	242486	520	241966
289.8	Polycythemia vera, secondary	Hematopoietic	0.98	0.87	1.10	320039	291	319748
401.22	Hypertensive chronic kidney disease	Circulatory System	1.01	0.96	1.06	250343	1595	248748
447.1	Stricture of artery	Circulatory System	0.99	0.93	1.06	320246	886	319360
870.3	Other open wound of head and face	Injuries & Poisonings	0.99	0.96	1.03	322782	3051	319731
420.3	Endocarditis	Circulatory System	0.99	0.92	1.07	325668	685	324983
198.5	Secondary malignancy of brain/spine	Neoplasms	0.99	0.92	1.06	230113	801	229312
567	Peritonitis and retroperitoneal infections	Digestive	1.01	0.95	1.08	247550	890	246660
743.11	Osteoporosis NOS	Musculoskeletal	1.01	0.97	1.04	327235	3036	324199
635.3	Placenta previa and abruptio placenta	Pregnancy Complications	1.01	0.95	1.07	321301	1336	319965
159	Malignant neoplasm of other and ill-defined sites within the digestive organs and peritoneum	Neoplasms	1.00	0.97	1.02	317620	5289	312331
512	Other symptoms of respiratory system	Respiratory	1.00	0.97	1.02	319772	5504	314268
530.11	GERD	Digestive	1.00	0.98	1.01	302292	14489	287803
507	Pleurisy; pleural effusion	Respiratory	1.00	0.98	1.03	323091	6607	316484
619.3	Noninflammatory disorders of cervix	Genitourinary	0.99	0.96	1.03	281393	2845	278548
523	Gingival and periodontal diseases	Digestive	1.01	0.93	1.10	312187	529	311658
530.2	Esophageal bleeding (varices/hemorrhage)	Digestive	1.01	0.96	1.06	289525	1722	287803
426.24	Atrioventricular block, complete	Circulatory System	1.01	0.93	1.10	300112	591	299521
557.1	Celiac disease	Digestive	1.01	0.96	1.05	260290	1894	258396
378.2	Nystagmus and other irregular eye movements	Sense Organs	1.02	0.89	1.17	288407	215	288192
781	Symptoms involving nervous and musculoskeletal systems	Symptoms	1.00	0.98	1.01	328238	22180	306058
348.9	Other conditions of brain, NOS	Neurological	0.99	0.89	1.09	286559	407	286152

293.1	Swelling, mass, or lump in head and neck [Space-occupying lesion, intracranial NOS]	Mental Disorders	0.99	0.93	1.06	326044	925	325119
701	Other hypertrophic and atrophic conditions of skin	Dermatologic	0.99	0.95	1.04	324891	1827	323064
333	Extrapyramidal disease and abnormal movement disorders	Neurological	1.01	0.96	1.05	288187	2035	286152
379	Other disorders of eye	Sense Organs	1.00	0.99	1.01	328190	39998	288192
729.1	Rheumatism, unspecified and fibrositis	Musculoskeletal	1.01	0.92	1.12	305341	387	304954
555.1	Regional enteritis	Digestive	0.99	0.95	1.04	260201	1805	258396
300.12	Agorophobia, social phobia, and panic disorder	Mental Disorders	1.01	0.94	1.09	283642	744	282898
646	Other complications of pregnancy NEC	Pregnancy Complications	1.01	0.96	1.05	328240	2396	325844
218.2	Other benign neoplasm of uterus	Neoplasms	0.99	0.89	1.09	308143	363	307780
592.1	Cystitis	Genitourinary	1.01	0.96	1.05	299089	2054	297035
990	Effects radiation NOS	Injuries & Poisonings	1.00	0.96	1.03	325633	3244	322389
211	Benign neoplasm of other parts of digestive system	Neoplasms	1.00	0.97	1.02	319683	5375	314308
285.2	Anemia of chronic disease	Hematopoietic	1.02	0.91	1.14	309194	294	308900
634	Miscarriage; stillbirth	Pregnancy Complications	1.00	0.97	1.04	324534	4569	319965
735.2	Acquired toe deformities	Musculoskeletal	1.01	0.96	1.05	318913	2226	316687
458.9	Hypotension NOS	Circulatory System	1.00	0.96	1.03	197817	3638	194179
70.9	Hepatitis NOS	Infectious Diseases	1.01	0.92	1.11	322658	452	322206
381.1	Otitis media	Sense Organs	0.99	0.94	1.05	325296	1153	324143
596.5	Functional disorders of bladder	Genitourinary	1.01	0.96	1.06	315318	1682	313636
573.9	Abnormal serum enzyme levels	Digestive	0.98	0.86	1.12	318561	230	318331
221	Benign neoplasm of other female genital organs	Neoplasms	0.98	0.86	1.12	295974	223	295751
368.9	Subjective visual disturbances	Sense Organs	1.01	0.93	1.09	325515	633	324882
627.4	Premenopausal menorrhagia	Genitourinary	0.99	0.88	1.10	296563	332	296231
277.4	Disorders of bilirubin excretion	Endocrine/Metabolic	0.99	0.89	1.09	283300	373	282927
520	Disorders of tooth development	Digestive	0.99	0.90	1.08	312128	470	311658
531.1	Hemorrhage from gastrointestinal ulcer	Digestive	0.99	0.92	1.07	321204	655	320549
333.1	Essential tremor	Neurological	1.02	0.89	1.16	286370	218	286152
288	Diseases of white blood cells	Hematopoietic	1.01	0.93	1.09	320928	610	320318
596	Other disorders of bladder	Genitourinary	1.00	0.97	1.02	321385	7749	313636
751.11	Congenital anomalies of female genital organs	Congenital Anomalies	1.01	0.92	1.11	326445	442	326003
145.2	Cancer of tongue	Neoplasms	1.01	0.91	1.13	326366	325	326041
716.1	Unspecified polyarthropathy or polyarthritis	Musculoskeletal	1.00	0.96	1.03	277426	3530	273896
626	Disorders of menstruation and other abnormal bleeding from female genital tract	Genitourinary	1.00	0.97	1.04	300178	3947	296231
751.2	Congenital anomalies of urinary system	Congenital Anomalies	1.01	0.94	1.08	326908	905	326003
835	Internal derangement of knee	Injuries & Poisonings	1.00	0.97	1.03	326012	4239	321773
351	Other peripheral nerve disorders	Neurological	1.00	0.98	1.02	325903	12892	313011
536.8	Dyspepsia and other specified disorders of function of stomach	Digestive	1.02	0.90	1.15	296758	247	296511
747.1	Cardiac congenital anomalies	Congenital Anomalies	1.02	0.89	1.16	325565	211	325354

706	Diseases of sebaceous glands	Dermatologic	1.01	0.93	1.10	318889	595	318294
696.41	Psoriasis vulgaris	Dermatologic	0.99	0.95	1.04	315655	1723	313932
724.2	Disorders of coccyx	Musculoskeletal	1.01	0.90	1.14	311226	282	310944
470	Septal Deviations/Turbinate Hypertrophy	Respiratory	1.00	0.98	1.03	313771	4821	308950
426.3	Bundle branch block	Circulatory System	0.99	0.88	1.11	299812	291	299521
79	Viral infection	Infectious Diseases	1.00	0.97	1.03	326439	4233	322206
287.31	Primary thrombocytopenia	Hematopoietic	0.99	0.90	1.09	325925	428	325497
379.3	Aphakia and other disorders of lens	Sense Organs	1.00	0.99	1.02	308920	20728	288192
622.1	Polyp of corpus uteri	Genitourinary	1.00	0.98	1.03	323490	8183	315307
614.3	Pelvic inflammatory disease (PID)	Genitourinary	1.01	0.89	1.15	319048	249	318799
368.4	Visual field defects	Sense Organs	0.99	0.89	1.10	325215	333	324882
798.1	Chronic fatigue syndrome	Symptoms	0.99	0.91	1.07	325335	606	324729
705.8	Hyperhidrosis	Dermatologic	1.01	0.93	1.09	318896	602	318294
165	Cancer within the respiratory system	Neoplasms	1.00	0.97	1.04	328223	2954	325269
433.31	Transient cerebral ischemia	Circulatory System	1.00	0.96	1.05	320281	2174	318107
41.4	E. coli	Infectious Diseases	1.00	0.96	1.03	315432	2800	312632
740.11	Osteoarthrosis, localized, primary	Musculoskeletal	1.00	0.98	1.02	315552	9227	306325
276.41	Acidosis	Endocrine/Metabolic	0.99	0.94	1.06	321700	1056	320644
735	Acquired foot deformities	Musculoskeletal	0.99	0.88	1.11	316986	299	316687
394	Rheumatic disease of the heart valves	Circulatory System	1.01	0.94	1.07	322471	943	321528
198.6	Secondary malignancy of bone	Neoplasms	1.00	0.95	1.04	231505	2193	229312
619.2	Disorders of uterus, NEC	Genitourinary	1.00	0.97	1.04	281939	3391	278548
227.2	Benign neoplasm of parathyroid gland	Neoplasms	1.01	0.91	1.12	327032	390	326642
275.3	Disorders of magnesium metabolism	Endocrine/Metabolic	0.99	0.89	1.10	326410	375	326035
350.2	Abnormality of gait	Neurological	1.00	0.96	1.06	327077	1633	325444
317	Alcohol-related disorders	Mental Disorders	1.00	0.97	1.02	303529	5860	297669
215	Other benign neoplasm of connective and other soft tissue	Neoplasms	0.99	0.94	1.05	321804	1128	320676
655	Known or suspected fetal abnormality affecting management of mother	Pregnancy Complications	1.00	0.97	1.04	328240	4575	323665
366	Cataract	Sense Organs	1.00	0.99	1.02	323825	16441	307384
345.3	Convulsions	Neurological	1.00	0.96	1.05	288463	2311	286152
599	Other symptoms/disorders or the urinary system	Genitourinary	1.00	0.99	1.01	324256	103829	220427
602	Other disorders of prostate	Genitourinary	0.99	0.94	1.05	308765	1372	307393
694.2	Other dyschromia	Dermatologic	1.01	0.94	1.08	322549	800	321749
250.22	Type 2 diabetes with renal manifestations	Endocrine/Metabolic	1.01	0.88	1.16	307698	208	307490
290	Delirium dementia and amnestic and other cognitive disorders	Mental Disorders	1.01	0.92	1.10	321950	480	321470
736	Other acquired deformities of limbs	Musculoskeletal	1.01	0.90	1.13	316998	311	316687
568	Other disorders of peritoneum	Digestive	1.00	0.97	1.03	250464	3804	246660
276.14	Hypopotassemia	Endocrine/Metabolic	1.00	0.95	1.06	322115	1471	320644

296.1	Bipolar	Mental Disorders	0.99	0.94	1.06	284019	1121	282898
610.4	Benign neoplasm of breast	Genitourinary	1.00	0.95	1.06	322359	1486	320873
724.1	Disorders of sacrum	Musculoskeletal	1.01	0.90	1.14	311225	281	310944
276.5	Hypovolemia	Endocrine/Metabolic	1.00	0.97	1.04	323539	2895	320644
720	Spinal stenosis	Musculoskeletal	1.01	0.93	1.08	311636	692	310944
428.2	Heart failure NOS	Circulatory System	1.00	0.97	1.03	326367	4334	322033
696.4	Psoriasis	Dermatologic	1.00	0.95	1.05	315554	1622	313932
610.1	Cystic mastopathy	Genitourinary	0.99	0.93	1.06	321832	959	320873
289	Other diseases of blood and blood-forming organs	Hematopoietic	1.00	0.97	1.03	325300	4982	320318
625.1	Dyspareunia	Genitourinary	1.00	0.94	1.06	319824	1155	318669
339	Other headache syndromes	Neurological	1.00	0.98	1.02	325888	7938	317950
573.3	Hepatomegaly	Digestive	0.99	0.89	1.11	318641	310	318331
627	Menopausal and postmenopausal disorders	Genitourinary	1.01	0.94	1.08	297078	847	296231
278.1	Obesity	Endocrine/Metabolic	1.00	0.98	1.02	328110	11143	316967
427.42	Cardiac arrest	Circulatory System	1.00	0.94	1.07	300470	949	299521
709.7	Unspecified diffuse connective tissue disease	Dermatologic	1.00	0.99	1.01	324635	82669	241966
807	Fracture of ribs	Injuries & Poisonings	0.99	0.87	1.13	323780	223	323557
571	Chronic liver disease and cirrhosis	Digestive	1.01	0.92	1.10	318871	540	318331
512.1	Wheezing	Respiratory	0.99	0.87	1.13	314499	231	314268
386.9	Dizziness and giddiness (Light-headedness and vertigo)	Sense Organs	1.00	0.97	1.03	326388	4739	321649
727	Other disorders of synovium, tendon, and bursa	Musculoskeletal	0.99	0.93	1.07	305708	754	304954
619	Noninflammatory female genital disorders	Genitourinary	1.00	0.99	1.01	328106	49558	278548
509.1	Respiratory failure	Respiratory	1.00	0.95	1.04	318564	2080	316484
474.1	Acute tonsillitis	Respiratory	0.99	0.91	1.08	309515	565	308950
458.2	Iatrogenic hypotension	Circulatory System	1.01	0.89	1.15	194417	238	194179
681	Superficial cellulitis and abscess	Dermatologic	1.01	0.93	1.08	317135	728	316407
724.9	Other unspecified back disorders	Musculoskeletal	1.00	0.99	1.02	328029	17085	310944
531.3	Duodenal ulcer	Digestive	1.00	0.96	1.03	323644	3095	320549
70.4	Chronic hepatitis	Infectious Diseases	1.01	0.90	1.13	322496	290	322206
528.11	Stomatitis and mucositis (ulcerative)	Digestive	0.99	0.90	1.10	322945	411	322534
287.3	Thrombocytopenia	Hematopoietic	1.00	0.95	1.06	326768	1271	325497
859	Complication due to other implant and internal device	Injuries & Poisonings	1.00	0.96	1.03	317302	3338	313964
474	Acute and chronic tonsillitis	Respiratory	1.00	0.93	1.09	309554	604	308950
601.12	Chronic prostatitis	Genitourinary	1.00	0.93	1.06	308341	948	307393
610.3	Fibrosclerosis of breast	Genitourinary	0.99	0.89	1.11	321176	303	320873
771	Musculoskeletal symptoms referable to limbs	Symptoms	1.00	0.94	1.07	327405	891	326514
296.22	Major depressive disorder	Mental Disorders	1.01	0.91	1.11	283282	384	282898
465	Acute upper respiratory infections of multiple or unspecified sites	Respiratory	1.00	0.96	1.03	328232	3053	325179

395.2	Nonrheumatic aortic valve disorders	Circulatory System	1.01	0.89	1.14	321775	247	321528
560.2	Impaction of intestine	Digestive	1.01	0.89	1.13	258667	271	258396
269	Proteinuria	Endocrine/Metabolic	0.99	0.90	1.10	327850	355	327495
610	Benign mammary dysplasias	Genitourinary	1.01	0.88	1.16	321081	208	320873
750.21	Congenital anomalies of intestine	Congenital Anomalies	0.99	0.87	1.13	326230	227	326003
728.7	Fasciitis	Musculoskeletal	1.01	0.88	1.15	305167	213	304954
647.1	Infections of genitourinary tract during pregnancy	Pregnancy Complications	0.99	0.88	1.12	328128	284	327844
958	Certain early complications of trauma or procedure	Injuries & Poisonings	1.01	0.91	1.11	328118	381	327737
614.54	Abscess or ulceration of vulva	Genitourinary	1.01	0.89	1.13	319079	280	318799
454.11	Varicose veins of lower extremity, symptomtic	Circulatory System	1.00	0.93	1.08	288365	652	287713
149.1	Cancer of oropharynx	Neoplasms	1.01	0.89	1.14	326297	256	326041
575.2	Obstruction of bile duct	Digestive	1.00	0.94	1.08	311135	812	310323
735.3	Hallux valgus (Bunion)	Musculoskeletal	1.00	0.98	1.03	323592	6905	316687
572	Ascites (non malignant)	Digestive	1.00	0.95	1.05	319925	1594	318331
441	Vascular insufficiency of intestine	Circulatory System	1.01	0.90	1.13	319657	297	319360
441.1	Acute vascular insufficiency of intestine	Circulatory System	1.01	0.89	1.13	319631	271	319360
78	Viral warts & HPV	Infectious Diseases	1.00	0.94	1.06	323218	1012	322206
332	Parkinson's disease	Neurological	1.00	0.95	1.06	287334	1182	286152
473	Diseases of the larynx and vocal cords	Respiratory	1.00	0.95	1.05	310564	1614	308950
255.21	Glucocorticoid deficiency	Endocrine/Metabolic	1.00	0.91	1.11	324917	372	324545
315	Develomental delays and disorders	Mental Disorders	1.00	0.92	1.08	326992	549	326443
594.2	Calculus of lower urinary tract	Genitourinary	1.00	0.94	1.07	320761	830	319931
331.1	Hydrocephalus	Neurological	1.00	0.91	1.09	286652	500	286152
961.1	Poisoning/allergy of sulfonamides	Injuries & Poisonings	1.00	0.93	1.07	301101	890	300211
530	Diseases of esophagus	Digestive	1.00	0.93	1.07	288604	801	287803
426.91	Cardiac pacemaker in situ	Circulatory System	1.00	0.96	1.04	301837	2316	299521
433.5	Cerebral aneurysm	Circulatory System	1.00	0.91	1.11	318505	398	318107
359.2	Myopathy	Neurological	1.00	0.91	1.09	326450	498	325952
530.9	Heartburn	Digestive	1.00	0.96	1.05	289911	2108	287803
528.5	Diseases of lips	Digestive	1.00	0.92	1.08	323215	681	322534
483	Acute bronchitis and bronchiolitis	Respiratory	0.99	0.87	1.14	317889	200	317689
530.12	Ulcer of esophagus	Digestive	1.00	0.97	1.03	293151	5348	287803
202.2	Non-Hodgkins lymphoma	Neoplasms	1.00	0.97	1.04	327055	3532	323523
300.13	Phobia	Mental Disorders	1.00	0.91	1.09	283412	514	282898
250.24	Type 2 diabetes with neurological manifestations	Endocrine/Metabolic	1.00	0.93	1.09	308102	612	307490
280.1	Iron deficiency anemias, unspecified or not due to blood loss	Hematopoietic	1.00	0.98	1.02	316402	7502	308900
569	Other disorders of intestine	Digestive	1.00	0.99	1.01	326148	79488	246660
240	Simple and unspecified goiter	Endocrine/Metabolic	1.00	0.93	1.08	310951	622	310329

938.2	Chronic dermatitis due to solar radiation	Injuries & Poisonings	1.00	0.89	1.13	322170	264	321906
965.3	Salicylates causing adverse effects in therapeutic use	Injuries & Poisonings	1.00	0.91	1.11	300612	401	300211
496.3	Bronchiectasis	Respiratory	1.00	0.95	1.05	296077	1885	294192
274.21	Chondrocalcinosis	Endocrine/Metabolic	1.00	0.89	1.13	326552	290	326262
389.2	Conductive hearing loss	Sense Organs	1.00	0.91	1.10	318629	435	318194
613.7	Other signs and symptoms in breast	Genitourinary	1.00	0.93	1.08	323169	751	322418
809	Fracture of unspecified bones	Injuries & Poisonings	1.00	0.91	1.11	323967	410	323557
286.7	Other and unspecified coagulation defects	Hematopoietic	1.00	0.91	1.11	325902	405	325497
280.2	Iron deficiency anemia secondary to blood loss (chronic)	Hematopoietic	1.00	0.92	1.10	309376	476	308900
695.3	Rosacea	Dermatologic	1.00	0.89	1.11	322068	319	321749
204.4	Multiple myeloma	Neoplasms	1.00	0.92	1.08	324097	574	323523
561	Symptoms involving digestive system	Digestive	1.00	0.98	1.02	272941	14545	258396
512.7	Shortness of breath	Respiratory	1.00	0.97	1.03	320384	6116	314268
574.12	Cholelithiasis with other cholecystitis	Digestive	1.00	0.97	1.03	315816	5493	310323
189.11	Malignant neoplasm of kidney, except pelvis	Neoplasms	1.00	0.94	1.06	324997	1035	323962
965	Poisoning by analgesics, antipyretics, and antirheumatics	Injuries & Poisonings	1.00	0.98	1.03	306293	6082	300211
288.11	Neutropenia	Hematopoietic	1.00	0.97	1.04	323644	3326	320318
716.9	Arthropathy NOS	Musculoskeletal	1.00	0.99	1.01	327719	53823	273896
627.1	Postmenopausal bleeding	Genitourinary	1.00	0.98	1.02	305697	9466	296231
349	Other and unspecified disorders of the nervous system	Neurological	1.00	0.99	1.01	326855	40703	286152
761	Cervicalgia	Symptoms	1.00	0.94	1.07	328240	1005	327235
627.3	Postmenopausal atrophic vaginitis	Genitourinary	1.00	0.94	1.06	297359	1128	296231
323.8	Encephalitis, non-infectious	Neurological	1.00	0.93	1.08	327771	633	327138
836	Traumatic arthropathy	Injuries & Poisonings	1.00	0.88	1.14	322016	243	321773
418	Nonspecific chest pain	Circulatory System	1.00	0.99	1.01	326032	30212	295820
854	Complications of cardiac/vascular device, implant, and graft	Injuries & Poisonings	1.00	0.96	1.05	315807	1843	313964
695.9	Unspecified erythematous condition	Dermatologic	1.00	0.91	1.09	322226	477	321749
8.52	Intestinal infection due to C. difficile	Infectious Diseases	1.00	0.93	1.08	319727	648	319079
622.2	Mucous polyp of cervix	Genitourinary	1.00	0.97	1.03	318829	3522	315307
681.2	Cellulitis and abscess of face/neck	Dermatologic	1.00	0.92	1.09	316936	529	316407
433.21	Cerebral artery occlusion, with cerebral infarction	Circulatory System	1.00	0.95	1.05	319641	1534	318107
626.13	Irregular menstrual cycle	Genitourinary	1.00	0.96	1.05	298189	1958	296231
81	Infection/inflammation of internal prosthetic device; implant; and graft	Infectious Diseases	1.00	0.96	1.04	323993	2514	321479
577.2	Chronic pancreatitis	Digestive	1.00	0.92	1.09	326456	536	325920
594.8	Renal colic	Genitourinary	1.00	0.96	1.04	322062	2131	319931
478	Throat pain	Respiratory	1.00	0.90	1.10	309337	387	308950
574.11	Cholelithiasis with acute cholecystitis	Digestive	1.00	0.95	1.05	311836	1513	310323
289.4	Lymphadenitis	Hematopoietic	1.00	0.96	1.04	323033	2715	320318

Supplementary Table 14. Phenome-wide association study (PheWAS) results for the calcium channel blocker (CCB) genetic risk score when using single-nucleotide polymorphisms from the systolic blood pressure genome-wide association study that did not correct for antihypertensive medication use or adjust for body mass index.

Phecode	Trait	Category	OR	Low 95% CI	Upp 95% CI	Total sample size	Cases	Controls
401.1	Essential hypertension	Circulatory System	0.96	0.95	0.97	327983	79235	248748
401	Hypertension	Circulatory System	0.96	0.95	0.97	328239	79491	248748
459.9	Circulatory disease NEC	Circulatory System	0.98	0.97	0.98	327928	133749	194179
411.2	Myocardial infarction	Circulatory System	0.96	0.95	0.98	307658	11969	295689
411.41	Aneurysm and dissection of heart	Circulatory System	0.87	0.80	0.93	296410	721	295689
411.8	Other chronic ischemic heart disease, unspecified	Circulatory System	0.98	0.97	0.99	326969	31280	295689
411	Ischemic Heart Disease	Circulatory System	0.98	0.97	0.99	327032	31343	295689
411.4	Coronary atherosclerosis	Circulatory System	0.98	0.97	0.99	327242	31553	295689
960	Poisoning by antibiotics	Injuries & Poisonings	0.95	0.92	0.98	303739	3528	300211
427.2	Atrial fibrillation and flutter	Circulatory System	0.97	0.96	0.99	314573	15052	299521
473	Diseases of the larynx and vocal cords	Respiratory	0.93	0.88	0.97	310564	1614	308950
411.3	Angina pectoris	Circulatory System	0.98	0.96	0.99	312048	16359	295689
592.13	Chronic interstitial cystitis	Genitourinary	0.84	0.74	0.95	297289	254	297035
562.1	Diverticulosis	Digestive	1.02	1.01	1.03	286281	27885	258396
555	Inflammatory bowel disease and other gastroenteritis and colitis	Digestive	1.02	1.01	1.03	278195	19799	258396
428.1	Congestive heart failure (CHF) NOS	Circulatory System	0.94	0.90	0.99	324086	2053	322033
180.3	Cervical intraepithelial neoplasia [CIN] [Cervical dysplasia]	Neoplasms	1.06	1.01	1.10	299736	2153	297583
558	Noninfectious gastroenteritis	Digestive	1.02	1.00	1.03	278260	19864	258396
8.5	Bacterial enteritis	Infectious Diseases	1.06	1.01	1.10	321188	2109	319079
573	Other disorders of liver	Digestive	1.04	1.01	1.07	323533	5202	318331
240	Simple and unspecified goiter	Endocrine/Metabolic	0.90	0.83	0.97	310951	622	310329
703	Diseases of nail, NOS	Dermatologic	0.87	0.79	0.97	321795	366	321429
428.2	Heart failure NOS	Circulatory System	0.96	0.93	0.99	326367	4334	322033
375	Disorders of lacrimal system	Sense Organs	1.07	1.02	1.12	289852	1660	288192
433.12	Cerebral atherosclerosis	Circulatory System	1.18	1.04	1.34	318345	238	318107
574	Cholelithiasis and cholecystitis	Digestive	0.88	0.80	0.97	310726	403	310323
601.11	Acute prostatitis	Genitourinary	1.17	1.03	1.32	307653	260	307393
250.41	Impaired fasting glucose	Endocrine/Metabolic	1.16	1.03	1.31	307758	268	307490
751.11	Congenital anomalies of female genital organs	Congenital Anomalies	0.89	0.81	0.98	326445	442	326003
642.1	Preeclampsia and eclampsia	Pregnancy Complications	0.88	0.79	0.98	327385	335	327050
426.31	Right bundle branch block	Circulatory System	0.94	0.90	0.99	301094	1573	299521
426.3	Bundle branch block	Circulatory System	1.15	1.02	1.29	299812	291	299521
304	Adjustment reaction	Mental Disorders	1.14	1.02	1.27	283221	323	282898
601.1	Prostatitis	Genitourinary	1.10	1.01	1.18	308058	665	307393
361.1	Retinal detachment with retinal defect	Sense Organs	0.94	0.89	0.99	318238	1456	316782

348.7	Coma	Neurological	1.12	1.02	1.24	286531	379	286152
636	Early or threatened labor; hemorrhage in early pregnancy	Pregnancy Complications	1.07	1.01	1.13	321227	1262	319965
751.1	Congenital anomalies of genital organs	Congenital Anomalies	0.92	0.85	0.99	326709	706	326003
525	Other diseases of the teeth and supporting structures	Digestive	1.04	1.01	1.08	314357	2699	311658
634.1	Missed abortion/Hydatidiform mole	Pregnancy Complications	1.07	1.01	1.13	321168	1203	319965
722.1	Displacement of intervertebral disc	Musculoskeletal	1.10	1.01	1.20	311460	516	310944
608	Other disorders of male genital organs	Genitourinary	1.02	1.00	1.03	327998	20092	307906
686.3	Pilonidal cyst	Dermatologic	1.09	1.01	1.18	317024	617	316407
627.4	Premenopausal menorrhagia	Genitourinary	0.89	0.80	0.99	296563	332	296231
614.32	Chronic inflammatory pelvic disease	Genitourinary	0.90	0.82	0.99	319224	425	318799
416	Cardiomegaly	Circulatory System	0.96	0.92	1.00	324157	2610	321547
696.42	Psoriatic arthropathy	Dermatologic	1.08	1.01	1.16	314672	740	313932
371.1	Uveitis, noninfectious or NOS	Sense Organs	1.10	1.01	1.20	318886	498	318388
480.11	Pneumococcal pneumonia	Respiratory	1.03	1.00	1.05	323680	5991	317689
395.1	Nonrheumatic mitral valve disorders	Circulatory System	0.96	0.93	1.00	324497	2969	321528
220	Benign neoplasm of ovary	Neoplasms	1.06	1.00	1.11	297546	1490	296056
703.1	Ingrowing nail	Dermatologic	0.94	0.88	1.00	322439	1010	321429
747.11	Cardiac shunt/ heart septal defect	Congenital Anomalies	0.92	0.85	0.99	325935	581	325354
571.5	Other chronic nonalcoholic liver disease	Digestive	1.05	1.00	1.10	320004	1673	318331
199	Neoplasm of uncertain behavior	Neoplasms	0.94	0.89	1.00	230468	1156	229312
316	Substance addiction and disorders	Mental Disorders	1.11	1.00	1.23	298042	373	297669
513.4	Hyperventilation	Respiratory	1.13	1.00	1.27	327904	280	327624
292.1	Aphasia/speech disturbance	Mental Disorders	0.95	0.90	1.00	323019	1549	321470
646	Other complications of pregnancy NEC	Pregnancy Complications	1.04	1.00	1.09	328240	2396	325844
977	Personal history of allergy to medicinal agents	Injuries & Poisonings	0.88	0.78	1.00	300449	238	300211
394.2	Mitral valve disease	Circulatory System	0.97	0.93	1.00	324603	3075	321528
474	Acute and chronic tonsillitis	Respiratory	1.08	1.00	1.17	309554	604	308950
371	Inflammation of the eye	Sense Organs	0.91	0.83	1.00	318796	408	318388
604	Disorders of penis	Genitourinary	1.07	1.00	1.15	308641	735	307906
426.32	Left bundle branch block	Circulatory System	0.96	0.91	1.00	301302	1781	299521
601.12	Chronic prostatitis	Genitourinary	1.06	1.00	1.13	308341	948	307393
70.4	Chronic hepatitis	Infectious Diseases	1.12	0.99	1.25	322496	290	322206
372	Disorders of conjunctiva	Sense Organs	0.94	0.89	1.00	319431	1043	318388
250.24	Type 2 diabetes with neurological manifestations	Endocrine/Metabolic	0.93	0.86	1.00	308102	612	307490
727.5	Rupture of synovium	Musculoskeletal	1.10	0.99	1.23	305298	344	304954
90	Sexually transmitted infections (not HIV or hepatitis)	Infectious Diseases	1.11	0.99	1.24	328239	298	327941
478	Throat pain	Respiratory	0.91	0.83	1.01	309337	387	308950
473.3	Paralysis/spasm of vocal cords or larynx	Respiratory	0.90	0.79	1.01	309217	267	308950

272.1	Hyperlipidemia	Endocrine/Metabolic	0.98	0.95	1.00	296728	5231	291497
345	Epilepsy, recurrent seizures, convulsions	Neurological	1.03	1.00	1.07	289613	3461	286152
276.5	Hypovolemia	Endocrine/Metabolic	1.03	1.00	1.07	323539	2895	320644
635.3	Placenta previa and abruptio placenta	Pregnancy Complications	1.05	1.00	1.11	321301	1336	319965
429.3	Symptoms involving cardiovascular system	Circulatory System	0.88	0.77	1.01	322241	208	322033
850	Hemorrhage or hematoma complicating a procedure	Injuries & Poisonings	0.98	0.95	1.00	319328	5364	313964
38.2	Gram positive septicemia	Infectious Diseases	0.92	0.85	1.01	313123	491	312632
475	Chronic sinusitis	Respiratory	1.03	1.00	1.08	311580	2630	308950
750	Digestive congenital anomalies	Congenital Anomalies	0.94	0.87	1.01	326705	702	326003
756	Other congenital musculoskeletal anomalies	Congenital Anomalies	0.94	0.88	1.01	328123	812	327311
598	Abnormal findings on examination of urine	Genitourinary	1.03	1.00	1.07	328240	3386	324854
427.9	Palpitations	Circulatory System	0.97	0.94	1.00	303480	3959	299521
331	Other cerebral degenerations	Neurological	1.12	0.99	1.27	286392	240	286152
726.3	Bursitis	Musculoskeletal	1.08	0.99	1.17	305497	543	304954
854	Complications of cardiac/vascular device, implant, and graft	Injuries & Poisonings	0.96	0.92	1.01	315807	1843	313964
333.1	Essential tremor	Neurological	0.89	0.78	1.02	286370	218	286152
578	Gastrointestinal hemorrhage	Digestive	1.11	0.98	1.24	303679	285	303394
574.1	Cholelithiasis	Digestive	1.02	1.00	1.04	319629	9306	310323
870.4	Open wound of nose and sinus	Injuries & Poisonings	1.11	0.98	1.27	319969	238	319731
555.2	Ulcerative colitis	Digestive	1.03	0.99	1.07	261550	3154	258396
530.2	Esophageal bleeding (varices/hemorrhage)	Digestive	1.04	0.99	1.09	289525	1722	287803
741.4	Joint effusions	Musculoskeletal	0.91	0.81	1.02	310925	283	310642
458.9	Hypotension NOS	Circulatory System	0.97	0.94	1.00	197817	3638	194179
477	Epistaxis or throat hemorrhage	Respiratory	0.97	0.93	1.01	311469	2519	308950
250	Diabetes mellitus	Endocrine/Metabolic	1.01	1.00	1.03	327730	20240	307490
727	Other disorders of synovium, tendon, and bursa	Musculoskeletal	1.06	0.99	1.14	305708	754	304954
440	Atherosclerosis	Circulatory System	0.89	0.78	1.02	319564	204	319360
571	Chronic liver disease and cirrhosis	Digestive	1.07	0.99	1.17	318871	540	318331
414	Other forms of chronic heart disease	Circulatory System	0.96	0.92	1.01	297457	1768	295689
740.12	Osteoarthrosis, localized, secondary	Musculoskeletal	0.90	0.80	1.02	306589	264	306325
442.8	Aneurysm of other specified artery	Circulatory System	0.89	0.78	1.02	319570	210	319360
496.21	Obstructive chronic bronchitis	Respiratory	0.97	0.93	1.01	296921	2729	294192
189.21	Malignant neoplasm of bladder	Neoplasms	1.04	0.99	1.08	326150	2188	323962
274.21	Chondrocalcinosis	Endocrine/Metabolic	1.10	0.98	1.23	326552	290	326262
382	Otalgia	Sense Organs	1.10	0.98	1.22	324458	315	324143
202	Cancer of other lymphoid, histiocytic tissue	Neoplasms	0.95	0.90	1.01	324661	1138	323523
728.71	Contracture of palmar fascia [Dupuytren's disease]	Musculoskeletal	0.97	0.93	1.01	307403	2449	304954
250.2	Type 2 diabetes	Endocrine/Metabolic	1.01	1.00	1.03	326603	19113	307490

378.1	Strabismus (not specified as paralytic)	Sense Organs	1.05	0.99	1.12	289139	947	288192
41	Bacterial infection NOS	Infectious Diseases	0.98	0.97	1.00	323384	10752	312632
724.2	Disorders of coccyx	Musculoskeletal	0.91	0.81	1.02	311226	282	310944
613	Other nonmalignant breast conditions	Genitourinary	0.92	0.83	1.02	322786	368	322418
800.1	Fracture of neck of femur	Injuries & Poisonings	0.90	0.80	1.03	323796	239	323557
218.2	Other benign neoplasm of uterus	Neoplasms	1.09	0.98	1.20	308143	363	307780
669	Complications of labor and delivery NEC	Pregnancy Complications	1.02	1.00	1.04	328240	9534	318706
729	Other disorders of soft tissues	Musculoskeletal	1.01	1.00	1.02	327478	22524	304954
442.1	Aortic aneurysm	Circulatory System	0.94	0.87	1.02	319946	586	319360
426.24	Atrioventricular block, complete	Circulatory System	0.94	0.87	1.02	300112	591	299521
681	Superficial cellulitis and abscess	Dermatologic	0.95	0.88	1.02	317135	728	316407
452	Other venous embolism and thrombosis	Circulatory System	0.94	0.86	1.02	288267	554	287713
724.1	Disorders of sacrum	Musculoskeletal	0.91	0.81	1.03	311225	281	310944
686.1	Carbuncle and furuncle	Dermatologic	1.03	0.99	1.07	318829	2422	316407
378.5	Paralytic strabismus	Sense Organs	0.92	0.82	1.03	288479	287	288192
374	Other disorders of eyelids	Sense Organs	0.97	0.94	1.01	321593	3205	318388
508	Pulmonary collapse; interstitial and compensatory emphysema	Respiratory	1.03	0.99	1.08	318570	2086	316484
681.7	Cellulitis and abscess of trunk	Dermatologic	1.06	0.98	1.15	317030	623	316407
389.4	Tinnitus	Sense Organs	1.07	0.98	1.16	318735	541	318194
290.1	Dementias	Mental Disorders	1.06	0.98	1.14	322121	651	321470
381.11	Suppurative and unspecified otitis media	Sense Organs	0.95	0.89	1.02	324993	850	324143
78	Viral warts & HPV	Infectious Diseases	1.05	0.98	1.11	323218	1012	322206
626.8	Infertility, female	Genitourinary	0.96	0.91	1.01	297638	1407	296231
375.2	Epiphora	Sense Organs	1.05	0.98	1.12	289094	902	288192
747	Cardiac and circulatory congenital anomalies	Congenital Anomalies	0.96	0.91	1.01	326576	1222	325354
300.1	Anxiety disorder	Mental Disorders	0.98	0.95	1.01	288368	5470	282898
870.3	Other open wound of head and face	Injuries & Poisonings	1.03	0.99	1.06	322782	3051	319731
450	Noninfectious disorders of lymphatic channels	Circulatory System	0.95	0.88	1.02	328240	717	327523
172.2	Other non-epithelial cancer of skin	Neoplasms	1.01	1.00	1.03	325462	11242	314220
577	Diseases of pancreas	Digestive	1.06	0.98	1.15	326478	558	325920
800.3	Fracture of tibia and fibula	Injuries & Poisonings	0.94	0.86	1.02	324092	535	323557
317	Alcohol-related disorders	Mental Disorders	1.02	0.99	1.05	303529	5860	297669
385.3	Cholesteatoma	Sense Organs	1.06	0.98	1.15	324732	589	324143
962.3	Hormones and synthetic substitutes causing adverse effects in therapeutic use	Injuries & Poisonings	1.08	0.97	1.19	300575	364	300211
519.8	Other diseases of respiratory system, NEC	Respiratory	1.02	0.99	1.04	274529	9082	265447
324	Other CNS infection and poliomyelitis	Neurological	1.09	0.97	1.22	327426	288	327138
215	Other benign neoplasm of connective and other soft tissue	Neoplasms	1.04	0.98	1.11	321804	1128	320676
198.6	Secondary malignancy of bone	Neoplasms	1.03	0.99	1.08	231505	2193	229312

474.1	Acute tonsillitis	Respiratory	0.94	0.87	1.02	309515	565	308950
425.1	Primary/intrinsic cardiomyopathies	Circulatory System	0.96	0.90	1.02	326036	1053	324983
149.1	Cancer of oropharynx	Neoplasms	1.09	0.97	1.23	326297	256	326041
345.11	Generalized convulsive epilepsy	Neurological	1.07	0.98	1.17	286617	465	286152
80	Postoperative infection	Infectious Diseases	1.02	0.99	1.05	326101	4622	321479
149.4	Cancer of larynx	Neoplasms	0.92	0.81	1.03	326307	266	326041
241.1	Nontoxic uninodular goiter	Endocrine/Metabolic	1.06	0.98	1.16	310840	511	310329
446.5	Giant cell arteritis	Circulatory System	0.93	0.84	1.03	319750	390	319360
394.7	Disease of tricuspid valve	Circulatory System	0.96	0.90	1.02	322614	1086	321528
600	Hyperplasia of prostate	Genitourinary	1.01	0.99	1.03	318965	11572	307393
496.2	Chronic bronchitis	Respiratory	1.08	0.97	1.22	294485	293	294192
250.1	Type 1 diabetes	Endocrine/Metabolic	1.03	0.99	1.07	310189	2699	307490
348.2	Cerebral edema and compression of brain	Neurological	1.09	0.96	1.23	286412	260	286152
507	Pleurisy; pleural effusion	Respiratory	0.98	0.96	1.01	323091	6607	316484
938.2	Chronic dermatitis due to solar radiation	Injuries & Poisonings	0.92	0.81	1.04	322170	264	321906
700	Corns and callosities	Dermatologic	0.92	0.82	1.04	323352	288	323064
480.5	Bronchopneumonia and lung abscess	Respiratory	0.93	0.85	1.03	318077	388	317689
208	Benign neoplasm of colon	Neoplasms	0.99	0.98	1.00	325437	20827	304610
189.11	Malignant neoplasm of kidney, except pelvis	Neoplasms	0.96	0.90	1.02	324997	1035	323962
526.1	Cysts of the jaws	Digestive	1.08	0.97	1.20	311993	335	311658
750.21	Congenital anomalies of intestine	Congenital Anomalies	0.91	0.80	1.04	326230	227	326003
594.3	Calculus of ureter	Genitourinary	0.97	0.94	1.01	322471	2540	319931
798	Malaise and fatigue	Symptoms	1.02	0.99	1.06	327695	2966	324729
593	Hematuria	Genitourinary	1.01	1.00	1.03	313795	16760	297035
755.1	Congenital deformities of feet	Congenital Anomalies	0.91	0.80	1.04	327531	220	327311
394	Rheumatic disease of the heart valves	Circulatory System	0.96	0.90	1.02	322471	943	321528
614.51	Cervicitis and endocervicitis	Genitourinary	0.96	0.91	1.02	320048	1249	318799
577.1	Acute pancreatitis	Digestive	1.03	0.98	1.09	327437	1517	325920
333	Extrapyramidal disease and abnormal movement disorders	Neurological	0.97	0.93	1.01	288187	2035	286152
624.1	Dystrophy of female genital tract	Genitourinary	0.92	0.81	1.04	318909	240	318669
735	Acquired foot deformities	Musculoskeletal	1.08	0.96	1.21	316986	299	316687
801.1	Fracture of foot	Injuries & Poisonings	0.94	0.85	1.03	323975	418	323557
528	Diseases of the oral soft tissues, excluding lesions specific for gingiva and tongue	Digestive	0.97	0.93	1.01	324593	2059	322534
571.8	Liver abscess and sequelae of chronic liver disease	Digestive	1.06	0.97	1.15	318904	573	318331
946	Anaphylactic shock NOS	Injuries & Poisonings	0.95	0.87	1.03	322450	544	321906
350.2	Abnormality of gait	Neurological	0.97	0.92	1.02	327077	1633	325444
859	Complication due to other implant and internal device	Injuries & Poisonings	0.98	0.94	1.01	317302	3338	313964
379.5	Disorders of iris and ciliary body	Sense Organs	1.07	0.97	1.17	288604	412	288192

738.4	Acquired spondylolisthesis	Musculoskeletal	1.09	0.96	1.23	316942	255	316687
858	Complication of internal orthopedic device	Injuries & Poisonings	0.98	0.94	1.01	317147	3183	313964
702.2	Seborrheic keratosis	Dermatologic	1.02	0.99	1.06	325769	3169	322600
386.3	Labyrinthitis	Sense Organs	0.95	0.89	1.02	322440	791	321649
573.5	Jaundice (not of newborn)	Digestive	1.04	0.98	1.11	319269	938	318331
958	Certain early complications of trauma or procedure	Injuries & Poisonings	1.07	0.97	1.18	328118	381	327737
590	Pyelonephritis	Genitourinary	1.02	0.99	1.05	300960	3925	297035
642	Hypertension complicating pregnancy, childbirth, and the puerperium	Pregnancy Complications	0.96	0.90	1.02	328039	989	327050
969	Poisoning by psychotropic agents	Injuries & Poisonings	1.03	0.99	1.08	302207	1996	300211
70	Viral hepatitis	Infectious Diseases	1.05	0.98	1.13	322928	722	322206
613.1	Inflammatory disease of breast	Genitourinary	0.95	0.89	1.03	323156	738	322418
530.9	Heartburn	Digestive	0.97	0.93	1.01	289911	2108	287803
801	Fracture of ankle and foot	Injuries & Poisonings	0.92	0.82	1.04	323808	251	323557
287.3	Thrombocytopenia	Hematopoietic	0.96	0.91	1.02	326768	1271	325497
575.8	Other disorders of biliary tract	Digestive	0.96	0.91	1.02	311372	1049	310323
528.11	Stomatitis and mucositis (ulcerative)	Digestive	1.06	0.97	1.17	322945	411	322534
574.3	Cholecystitis without cholelithiasis	Digestive	1.02	0.99	1.06	313141	2818	310323
695.3	Rosacea	Dermatologic	0.93	0.84	1.04	322068	319	321749
359.2	Myopathy	Neurological	0.95	0.87	1.03	326450	498	325952
352.2	Facial nerve disorders [CN7]	Neurological	0.96	0.90	1.02	313911	900	313011
636.2	Early onset of delivery	Pregnancy Complications	0.95	0.88	1.03	320594	629	319965
286.7	Other and unspecified coagulation defects	Hematopoietic	1.06	0.97	1.17	325902	405	325497
578.8	Hemorrhage of rectum and anus	Digestive	0.99	0.97	1.01	317220	13826	303394
614.33	Pelvic inflammatory disease, NOS	Genitourinary	0.98	0.96	1.01	324944	6145	318799
627	Menopausal and postmenopausal disorders	Genitourinary	1.04	0.98	1.12	297078	847	296231
949	Allergies, other	Injuries & Poisonings	1.06	0.97	1.17	322326	420	321906
112	Candidiasis	Infectious Diseases	0.97	0.93	1.02	327650	2150	325500
819	Skull and face fracture and other intercranial injury	Injuries & Poisonings	1.03	0.98	1.09	328056	1517	326539
429.2	Abnormal function study of cardiovascular system	Circulatory System	0.95	0.87	1.03	322577	544	322033
564.9	Personal history of diseases of digestive system	Digestive	1.01	0.99	1.03	274320	15924	258396
587	Kidney replaced by transpant	Genitourinary	0.94	0.85	1.04	314477	398	314079
426.91	Cardiac pacemaker in situ	Circulatory System	0.97	0.94	1.02	301837	2316	299521
530.12	Ulcer of esophagus	Digestive	0.98	0.96	1.01	293151	5348	287803
597.1	Urethral stricture (not specified as infectious)	Genitourinary	1.02	0.99	1.06	317079	3443	313636
79	Viral infection	Infectious Diseases	1.02	0.99	1.05	326439	4233	322206
276.14	Hypopotassemia	Endocrine/Metabolic	0.97	0.92	1.02	322115	1471	320644
611.3	Lump or mass in breast	Genitourinary	1.03	0.98	1.08	322461	1588	320873
610.1	Cystic mastopathy	Genitourinary	1.04	0.98	1.11	321832	959	320873

269	Proteinuria	Endocrine/Metabolic	1.07	0.96	1.18	327850	355	327495
573.3	Hepatomegaly	Digestive	1.07	0.96	1.20	318641	310	318331
362	Other retinal disorders	Sense Organs	0.96	0.90	1.02	316825	973	315852
292.4	Altered mental status	Mental Disorders	1.03	0.98	1.07	323742	2272	321470
560.3	Peritoneal or intestinal adhesions	Digestive	1.04	0.97	1.11	259257	861	258396
250.11	Type 1 diabetes with ketoacidosis	Endocrine/Metabolic	1.08	0.95	1.22	307745	255	307490
550.5	Ventral hernia	Digestive	1.02	0.99	1.05	283371	3582	279789
202.21	Nodular lymphoma	Neoplasms	1.06	0.96	1.17	323913	390	323523
989	Toxic effect of other substances, chiefly nonmedicinal as to source	Injuries & Poisonings	1.03	0.98	1.09	328136	1438	326698
345.1	Epilepsy	Neurological	1.07	0.96	1.19	286483	331	286152
379.2	Disorders of vitreous body	Sense Organs	1.03	0.98	1.09	289599	1407	288192
297.2	Suicide or self-inflicted injury	Mental Disorders	1.02	0.98	1.06	285655	2757	282898
380.4	Impacted cerumen	Sense Organs	0.94	0.85	1.04	327106	354	326752
281.13	Folate-deficiency anemia	Hematopoietic	1.08	0.94	1.24	309101	201	308900
250.42	Other abnormal glucose	Endocrine/Metabolic	0.95	0.86	1.04	307927	437	307490
519.2	Respiratory complications	Respiratory	0.94	0.84	1.05	265743	296	265447
333.4	Torsion dystonia	Neurological	0.93	0.83	1.05	286417	265	286152
353	Nerve root and plexus disorders	Neurological	1.04	0.97	1.10	314005	994	313011
585.31	Renal dialysis	Genitourinary	0.95	0.87	1.04	314603	524	314079
550.1	Inguinal hernia	Digestive	0.99	0.97	1.01	296174	16385	279789
157	Pancreatic cancer	Neoplasms	1.05	0.97	1.13	312933	602	312331
716.2	Unspecified monoarthritis	Musculoskeletal	1.01	0.99	1.03	289797	15901	273896
338.2	Chronic pain	Neurological	0.95	0.86	1.04	327830	404	327426
411.9	Other acute and subacute forms of ischemic heart disease	Circulatory System	0.97	0.91	1.02	296883	1194	295689
483	Acute bronchitis and bronchiolitis	Respiratory	1.08	0.94	1.24	317889	200	317689
622	Polyp of female genital organs	Genitourinary	0.95	0.87	1.04	315794	487	315307
556	Ulceration of the lower GI tract	Digestive	0.95	0.86	1.04	258836	440	258396
579.2	Splenomegaly	Digestive	1.05	0.96	1.16	303837	443	303394
577.2	Chronic pancreatitis	Digestive	1.05	0.96	1.14	326456	536	325920
433.3	Cerebral ischemia	Circulatory System	0.96	0.90	1.03	319041	934	318107
415.21	Primary pulmonary hypertension	Circulatory System	1.05	0.96	1.15	322013	466	321547
440.9	Atherosclerosis of aorta	Circulatory System	0.93	0.81	1.06	319562	202	319360
979	Adverse drug events and drug allergies	Injuries & Poisonings	0.96	0.89	1.03	300927	716	300211
276.11	Hyperosmolality and/or hypernatremia	Endocrine/Metabolic	0.93	0.82	1.06	320891	247	320644
653	Problems associated with amniotic cavity and membranes	Pregnancy Complications	0.97	0.92	1.02	328119	1523	326596
465	Acute upper respiratory infections of multiple or unspecified sites	Respiratory	0.98	0.95	1.02	328232	3053	325179
530.14	Reflux esophagitis	Digestive	0.99	0.97	1.01	298696	10893	287803
427.5	Arrhythmia (cardiac) NOS	Circulatory System	0.97	0.91	1.03	300469	948	299521

441	Vascular insufficiency of intestine	Circulatory System	0.94	0.84	1.05	319657	297	319360
368.1	Amblyopia	Sense Organs	0.95	0.88	1.04	325423	541	324882
200.1	Polycythemia vera	Neoplasms	0.95	0.86	1.05	318136	404	317732
476	Allergic rhinitis	Respiratory	1.03	0.97	1.10	310025	1075	308950
961	Poisoning by other anti-infectives	Injuries & Poisonings	0.95	0.87	1.04	300647	436	300211
621	Endometrial hyperplasia	Genitourinary	1.03	0.97	1.09	316461	1154	315307
352.1	Trigeminal nerve disorders [CN5]	Neurological	0.95	0.87	1.04	313473	462	313011
526.41	Temporomandibular joint disorder, unspecified	Digestive	1.07	0.94	1.22	311886	228	311658
823	Fracture of tibia and fibula	Injuries & Poisonings	0.94	0.85	1.05	322362	342	322020
681.2	Cellulitis and abscess of face/neck	Dermatologic	0.96	0.88	1.04	316936	529	316407
497	Bronchitis	Respiratory	1.04	0.96	1.13	294834	642	294192
599	Other symptoms/disorders or the urinary system	Genitourinary	1.00	1.00	1.01	324256	103829	220427
601.8	Other inflammatory disorders of male genital organs	Genitourinary	0.94	0.84	1.05	307698	305	307393
615	Endometriosis	Genitourinary	0.98	0.95	1.01	322888	4089	318799
555.1	Regional enteritis	Digestive	1.02	0.98	1.07	260201	1805	258396
596.1	Bladder neck obstruction	Genitourinary	1.02	0.98	1.07	315665	2029	313636
599.3	Dysuria	Genitourinary	1.03	0.97	1.09	221636	1209	220427
573.7	Abnormal results of function study of liver	Digestive	1.02	0.98	1.05	321896	3565	318331
689	Disorder of skin and subcutaneous tissue NOS	Dermatologic	1.01	1.00	1.02	328240	42194	286046
655	Known or suspected fetal abnormality affecting management of mother	Pregnancy Complications	1.02	0.99	1.05	328240	4575	323665
255.21	Glucocorticoid deficiency	Endocrine/Metabolic	1.05	0.95	1.17	324917	372	324545
395.6	Heart valve replaced	Circulatory System	0.97	0.93	1.02	323056	1528	321528
751.21	Cystic kidney disease	Congenital Anomalies	0.95	0.87	1.05	326461	458	326003
367.2	Astigmatism	Sense Organs	1.07	0.94	1.23	325964	210	325754
334.2	Anterior horn cell disease	Neurological	1.07	0.94	1.22	286376	224	286152
853	Complication of colostomy or enterostomy	Injuries & Poisonings	1.05	0.96	1.14	314478	514	313964
331.9	Cerebral degeneration, unspecified	Neurological	1.05	0.95	1.16	286569	417	286152
442.11	Abdominal aortic aneurysm	Circulatory System	0.97	0.91	1.03	320257	897	319360
574.12	Cholelithiasis with other cholecystitis	Digestive	0.99	0.96	1.01	315816	5493	310323
559	Ileostomy status	Digestive	1.02	0.98	1.08	260069	1673	258396
276.6	Fluid overload	Endocrine/Metabolic	0.95	0.87	1.04	321117	473	320644
226	Benign neoplasm of thyroid glands	Neoplasms	1.06	0.94	1.20	326908	266	326642
564	Functional digestive disorders	Digestive	0.97	0.91	1.03	259379	983	258396
481	Influenza	Respiratory	1.01	0.99	1.03	327706	10017	317689
578.1	Hematemesis	Digestive	0.98	0.94	1.02	305428	2034	303394
427.41	Ventricular fibrillation and flutter	Circulatory System	1.06	0.95	1.17	299866	345	299521
187.2	Malignant neoplasm of testis	Neoplasms	0.99	0.96	1.01	323790	4572	319218
41.4	E. coli	Infectious Diseases	0.98	0.95	1.02	315432	2800	312632

368.4	Visual field defects	Sense Organs	0.95	0.85	1.05	325215	333	324882
155	Cancer of liver and intrahepatic bile duct	Neoplasms	1.07	0.94	1.21	312576	245	312331
726	Peripheral enthesopathies and allied syndromes	Musculoskeletal	1.01	0.99	1.03	313722	8768	304954
530	Diseases of esophagus	Digestive	1.04	0.97	1.11	288604	801	287803
334	Degenerative disease of the spinal cord	Neurological	1.03	0.98	1.08	287631	1479	286152
430.3	Subdural hemorrhage	Circulatory System	0.94	0.84	1.06	318378	271	318107
580.32	Nephritis and nephropathy with pathological lesion	Genitourinary	0.97	0.91	1.03	315157	1078	314079
514	Abnormal findings examination of lungs	Respiratory	1.02	0.98	1.06	328212	2577	325635
571.81	Portal hypertension	Digestive	1.04	0.96	1.13	318900	569	318331
427.6	Premature beats	Circulatory System	0.96	0.87	1.05	299979	458	299521
433.31	Transient cerebral ischemia	Circulatory System	0.98	0.94	1.02	320281	2174	318107
523.32	Chronic periodontitis	Digestive	1.04	0.96	1.13	312248	590	311658
458	Hypotension	Circulatory System	0.97	0.91	1.03	195260	1081	194179
172.11	Melanomas of skin	Neoplasms	1.02	0.98	1.06	316943	2723	314220
170.2	Cancer of connective tissue	Neoplasms	0.96	0.90	1.04	328122	734	327388
458.1	Orthostatic hypotension	Circulatory System	0.97	0.92	1.03	195553	1374	194179
198.1	Secondary malignancy of lymph nodes	Neoplasms	1.01	0.99	1.04	234815	5503	229312
565.1	Anal and rectal polyp	Digestive	0.99	0.97	1.01	254329	7669	246660
614.52	Vaginitis and vulvovaginitis	Genitourinary	0.95	0.87	1.05	319219	420	318799
614.3	Pelvic inflammatory disease (PID)	Genitourinary	0.94	0.83	1.07	319048	249	318799
172.3	Carcinoma in situ of skin	Neoplasms	1.04	0.96	1.12	314884	664	314220
117	Mycoses	Infectious Diseases	0.98	0.95	1.02	328235	2735	325500
614	Inflammatory diseases of female pelvic organs	Genitourinary	0.95	0.86	1.05	319173	374	318799
560.1	Paralytic ileus	Digestive	0.96	0.88	1.04	258916	520	258396
704	Diseases of hair and hair follicles	Dermatologic	1.01	0.99	1.04	326692	5263	321429
348.8	Encephalopathy, not elsewhere classified	Neurological	1.07	0.93	1.23	286356	204	286152
626.13	Irregular menstrual cycle	Genitourinary	1.02	0.98	1.07	298189	1958	296231
380.1	Otitis externa	Sense Organs	1.04	0.96	1.13	327284	532	326752
961.1	Poisoning/allergy of sulfonamides	Injuries & Poisonings	0.97	0.91	1.03	301101	890	300211
317.11	Alcoholic liver damage	Mental Disorders	1.03	0.97	1.10	298534	865	297669
579.8	Nonspecific abnormal findings in stool contents	Digestive	1.02	0.98	1.07	305134	1740	303394
503	Pulmonary congestion and hypostasis	Respiratory	0.96	0.88	1.05	316959	475	316484
362.2	Degeneration of macula and posterior pole of retina	Sense Organs	0.98	0.94	1.02	318055	2203	315852
605	Erectile dysfunction [ED]	Genitourinary	1.06	0.94	1.19	308197	291	307906
446.9	Arteritis NOS	Circulatory System	0.94	0.83	1.07	319605	245	319360
872	Traumatic amputation	Injuries & Poisonings	0.96	0.88	1.05	320213	482	319731
557.1	Celiac disease	Digestive	0.98	0.94	1.02	260290	1894	258396
716.1	Unspecified polyarthropathy or polyarthritis	Musculoskeletal	1.02	0.98	1.05	277426	3530	273896

362.29	Macular degeneration (senile) of retina NOS	Sense Organs	0.98	0.94	1.02	318052	2200	315852
568.1	Peritoneal adhesions (postoperative) (postinfection)	Digestive	0.98	0.95	1.02	249757	3097	246660
747.13	Congenital anomalies of great vessels	Congenital Anomalies	0.98	0.93	1.02	327177	1823	325354
251.1	Hypoglycemia	Endocrine/Metabolic	1.03	0.97	1.10	305952	977	304975
193	Thyroid cancer	Neoplasms	0.95	0.86	1.06	327009	367	326642
535.1	Acute gastritis	Digestive	0.97	0.92	1.03	297704	1193	296511
709.2	Sicca syndrome	Dermatologic	1.04	0.96	1.13	242486	520	241966
610.2	Fibroadenosis of breast	Genitourinary	0.95	0.85	1.06	321189	316	320873
830	Dislocation	Injuries & Poisonings	1.02	0.98	1.06	323927	2154	321773
182	Malignant neoplasm of uterus	Neoplasms	1.03	0.97	1.08	298948	1303	297645
312	Conduct disorders	Mental Disorders	1.03	0.97	1.09	327638	1195	326443
742.8	Articular cartilage disorder	Musculoskeletal	1.04	0.96	1.12	311297	655	310642
599.5	Frequency of urination and polyuria	Genitourinary	0.99	0.96	1.02	224574	4147	220427
386.1	Meniere's disease	Sense Organs	0.96	0.89	1.04	322213	564	321649
578.2	Blood in stool	Digestive	1.02	0.98	1.06	306143	2749	303394
242	Thyrotoxicosis with or without goiter	Endocrine/Metabolic	0.98	0.93	1.03	311794	1465	310329
636.3	Hemorrhage in early pregnancy	Pregnancy Complications	1.03	0.97	1.09	321078	1113	319965
625	Pain and other symptoms associated with female genital organs	Genitourinary	0.98	0.94	1.02	320718	2049	318669
447	Other disorders of arteries and arterioles	Circulatory System	0.96	0.89	1.05	319916	556	319360
626	Disorders of menstruation and other abnormal bleeding from female genital tract	Genitourinary	1.01	0.98	1.05	300178	3947	296231
292	Neurological disorders	Mental Disorders	1.04	0.95	1.14	321919	449	321470
619.1	Noninflammatory disorders of ovary, fallopian tube, and broad ligament	Genitourinary	0.97	0.90	1.04	279282	734	278548
569	Other disorders of intestine	Digestive	1.00	1.00	1.01	326148	79488	246660
369	Infection of the eye	Sense Organs	1.06	0.94	1.20	318642	254	318388
418.1	Precordial pain	Circulatory System	0.99	0.95	1.02	299506	3686	295820
941	Adverse reaction to serum or vaccine	Injuries & Poisonings	0.94	0.83	1.07	322128	222	321906
614.5	Inflammatory disease of cervix, vagina, and vulva	Genitourinary	1.05	0.94	1.17	319133	334	318799
241.2	Nontoxic multinodular goiter	Endocrine/Metabolic	0.97	0.90	1.04	311043	714	310329
697	Sarcoidosis	Dermatologic	1.04	0.96	1.13	322309	560	321749
510	Other diseases of lung	Respiratory	0.97	0.90	1.04	328200	770	327430
618	Genital prolapse	Genitourinary	0.97	0.89	1.04	316862	620	316242
965.3	Salicylates causing adverse effects in therapeutic use	Injuries & Poisonings	0.96	0.87	1.06	300612	401	300211
263	Other nutritional deficiency	Endocrine/Metabolic	0.98	0.93	1.03	327337	1551	325786
331.1	Hydrocephalus	Neurological	0.96	0.88	1.05	286652	500	286152
261.2	Vitamin B-complex deficiencies	Endocrine/Metabolic	0.97	0.90	1.04	326559	773	325786
528.5	Diseases of lips	Digestive	1.03	0.96	1.11	323215	681	322534
695.7	Prurigo and Lichen	Dermatologic	0.97	0.90	1.04	322541	792	321749
383	Otosclerosis	Sense Organs	1.05	0.94	1.17	324473	330	324143

158	Neoplasm of unspecified nature of digestive system	Neoplasms	0.97	0.92	1.03	313429	1098	312331
575.2	Obstruction of bile duct	Digestive	1.03	0.96	1.10	311135	812	310323
560.2	Impaction of intestine	Digestive	1.05	0.94	1.19	258667	271	258396
610.8	Other specified benign mammary dysplasias	Genitourinary	1.03	0.96	1.11	321576	703	320873
785	Abdominal pain	Symptoms	1.00	0.99	1.01	328240	42311	285929
603	Other disorders of testis	Genitourinary	1.03	0.97	1.09	308895	989	307906
295.1	Schizophrenia	Mental Disorders	1.03	0.96	1.12	283509	611	282898
451.2	Phlebitis and thrombophlebitis of lower extremities	Circulatory System	1.01	0.98	1.05	291357	3644	287713
530.1	Esophagitis, GERD and related diseases	Digestive	0.99	0.97	1.01	297342	9539	287803
592.12	Chronic cystitis	Genitourinary	1.03	0.96	1.10	297948	913	297035
296.2	Depression	Mental Disorders	1.01	0.99	1.03	295043	12145	282898
427.11	Paroxysmal supraventricular tachycardia	Circulatory System	0.98	0.94	1.02	301952	2431	299521
737.3	Kyphoscoliosis and scoliosis	Musculoskeletal	0.96	0.87	1.06	317058	371	316687
681.3	Cellulitis and abscess of arm/hand	Dermatologic	0.99	0.96	1.01	322177	5770	316407
427.4	Cardiac arrest and ventricular fibrillation	Circulatory System	1.05	0.94	1.16	299869	348	299521
374.1	Ectropion or entropion	Sense Organs	1.03	0.97	1.09	319480	1092	318388
740.2	Osteoarthrosis, generalized	Musculoskeletal	0.97	0.89	1.05	306914	589	306325
395.2	Nonrheumatic aortic valve disorders	Circulatory System	0.95	0.84	1.07	321775	247	321528
275.1	Disorders of iron metabolism	Hematopoietic	1.03	0.96	1.11	326735	700	326035
451	Phlebitis and thrombophlebitis	Circulatory System	0.96	0.87	1.06	288110	397	287713
966	Poisoning by anticonvulsants and anti-Parkinsonism drugs	Injuries & Poisonings	1.04	0.95	1.13	300747	536	300211
420.3	Endocarditis	Circulatory System	0.97	0.90	1.04	325668	685	324983
8	Intestinal infection	Infectious Diseases	1.01	0.99	1.03	328240	9161	319079
727.1	Synovitis and tenosynovitis	Musculoskeletal	1.03	0.96	1.11	305641	687	304954
426.9	Cardiac pacemaker/device in situ	Circulatory System	1.05	0.93	1.20	299758	237	299521
394.3	Aortic valve disease	Circulatory System	0.98	0.93	1.03	322836	1308	321528
201	Hodgkin's disease	Neoplasms	0.95	0.85	1.07	323794	271	323523
261.4	Vitamin D deficiency	Endocrine/Metabolic	0.96	0.87	1.06	326194	408	325786
800	Fracture of lower limb	Injuries & Poisonings	0.97	0.90	1.04	324256	699	323557
151	Cancer of stomach	Neoplasms	1.03	0.95	1.12	312905	574	312331
480	Pneumonia	Respiratory	0.99	0.96	1.02	321603	3914	317689
184.11	Malignant neoplasm of ovary	Neoplasms	0.99	0.96	1.02	310562	5009	305553
306.9	Tension headache	Mental Disorders	0.96	0.85	1.07	283203	305	282898
292.3	Memory loss	Mental Disorders	0.97	0.90	1.04	322208	738	321470
454	Varicose veins	Circulatory System	1.02	0.97	1.07	289316	1603	287713
766	Neuralgia, neuritis, and radiculitis NOS	Symptoms	1.05	0.93	1.17	326987	304	326683
341	Other demyelinating diseases of central nervous system	Neurological	1.02	0.97	1.07	287764	1612	286152
296.1	Bipolar	Mental Disorders	1.02	0.97	1.08	284019	1121	282898

623	Hypertrophy of female genital organs	Genitourinary	1.02	0.97	1.08	316579	1272	315307
286.12	Congenital deficiency of other clotting factors (including factor VII)	Hematopoietic	0.96	0.86	1.07	325800	303	325497
296	Mood disorders	Mental Disorders	1.01	0.99	1.02	295853	12955	282898
965	Poisoning by analgesics, antipyretics, and antirheumatics	Injuries & Poisonings	0.99	0.97	1.02	306293	6082	300211
221	Benign neoplasm of other female genital organs	Neoplasms	0.95	0.83	1.08	295974	223	295751
512.2	Painful respiration	Respiratory	1.05	0.92	1.20	314496	228	314268
290.2	Delirium due to conditions classified elsewhere	Mental Disorders	0.97	0.90	1.05	322151	681	321470
136	Other infectious and parasitic diseases	Infectious Diseases	1.04	0.94	1.14	327982	428	327554
715.2	Ankylosing spondylitis	Musculoskeletal	0.96	0.87	1.06	317637	384	317253
367.9	Blindness and low vision	Sense Organs	0.97	0.91	1.05	326510	756	325754
512.7	Shortness of breath	Respiratory	1.01	0.98	1.04	320384	6116	314268
695.9	Unspecified erythematous condition	Dermatologic	0.97	0.88	1.06	322226	477	321749
550.3	Femoral hernia	Digestive	1.03	0.95	1.11	280442	653	279789
622.1	Polyp of corpus uteri	Genitourinary	1.01	0.99	1.03	323490	8183	315307
285	Other anemias	Hematopoietic	1.01	0.99	1.03	320744	11844	308900
736.2	Acquired deformities of finger	Musculoskeletal	0.95	0.84	1.08	316940	253	316687
626.1	Irregular menstrual cycle/bleeding	Genitourinary	1.01	0.98	1.05	299824	3593	296231
520	Disorders of tooth development	Digestive	0.97	0.88	1.06	312128	470	311658
550.2	Diaphragmatic hernia	Digestive	1.00	0.99	1.02	307453	27664	279789
371.3	Inflammation of eyelids	Sense Organs	0.99	0.95	1.03	320786	2398	318388
200	Myeloproliferative disease	Neoplasms	0.97	0.90	1.05	324202	679	323523
289.5	Diseases of spleen	Hematopoietic	0.97	0.89	1.06	320846	528	320318
262	Mineral deficiency NEC	Endocrine/Metabolic	1.05	0.92	1.19	326027	241	325786
560.4	Other intestinal obstruction	Digestive	1.01	0.98	1.05	261839	3443	258396
564.1	Irritable Bowel Syndrome	Digestive	1.01	0.98	1.04	264057	5661	258396
916	Contusion	Injuries & Poisonings	0.98	0.93	1.03	328240	1478	326762
686	Other local infections of skin and subcutaneous tissue	Dermatologic	1.01	0.99	1.03	327410	11003	316407
427.7	Tachycardia NOS	Circulatory System	1.01	0.97	1.06	301787	2266	299521
595	Hydronephrosis	Genitourinary	1.02	0.97	1.06	321941	2010	319931
809	Fracture of unspecified bones	Injuries & Poisonings	0.97	0.88	1.06	323967	410	323557
361	Retinal detachments and defects	Sense Organs	1.02	0.97	1.06	319011	2229	316782
364	Corneal opacity and other disorders of cornea	Sense Organs	1.05	0.92	1.19	317009	227	316782
277	Other disorders of metabolism	Endocrine/Metabolic	1.00	0.99	1.01	328230	45303	282927
218.1	Uterine leiomyoma	Neoplasms	0.99	0.97	1.01	318346	10566	307780
189.2	Cancer of bladder	Neoplasms	1.02	0.96	1.10	324798	836	323962
153.2	Colon cancer	Neoplasms	0.99	0.95	1.02	304402	3122	301280
327.3	Sleep apnea	Neurological	1.01	0.98	1.04	327419	4699	322720
681.5	Cellulitis and abscess of leg, except foot	Dermatologic	0.99	0.97	1.02	322184	5777	316407

189.4	Malignant neoplasm of other urinary organs	Neoplasms	1.01	0.98	1.05	327185	3223	323962
389.2	Conductive hearing loss	Sense Organs	0.97	0.88	1.06	318629	435	318194
960.2	Allergy/adverse effect of penicillin	Injuries & Poisonings	0.99	0.98	1.01	316894	16683	300211
613.8	Other specified disorders of breast	Genitourinary	0.96	0.87	1.07	322773	355	322418
342	Hemiplegia	Neurological	0.98	0.93	1.03	287677	1525	286152
474.2	Chronic tonsillitis and adenoiditis	Respiratory	1.02	0.96	1.08	310135	1185	308950
681.6	Cellulitis and abscess of foot, toe	Dermatologic	0.99	0.97	1.02	322141	5734	316407
771	Musculoskeletal symptoms referable to limbs	Symptoms	1.02	0.96	1.09	327405	891	326514
389.1	Sensorineural hearing loss	Sense Organs	0.97	0.88	1.06	318658	464	318194
344	Other paralytic syndromes	Neurological	0.97	0.90	1.05	286841	689	286152
706.2	Sebaceous cyst	Dermatologic	0.99	0.97	1.01	327401	9107	318294
790.6	Other abnormal blood chemistry	Symptoms	0.99	0.97	1.02	328029	6529	321500
180.1	Cervical cancer	Neoplasms	0.99	0.96	1.02	302137	4554	297583
696.4	Psoriasis	Dermatologic	1.02	0.97	1.07	315554	1622	313932
70.9	Hepatitis NOS	Infectious Diseases	1.03	0.94	1.13	322658	452	322206
242.1	Graves' disease	Endocrine/Metabolic	0.97	0.88	1.06	310789	460	310329
293	Symptoms involving head and neck	Mental Disorders	1.01	0.97	1.06	327323	2204	325119
276.13	Hyperpotassemia	Endocrine/Metabolic	0.98	0.92	1.04	321623	979	320644
557	Intestinal malabsorption (non-celiac)	Digestive	1.04	0.93	1.17	258690	294	258396
327	Sleep disorders	Neurological	1.02	0.96	1.09	323754	1034	322720
745	Pain in joint	Musculoskeletal	0.98	0.94	1.03	328240	1940	326300
217.1	Nevus, non-neoplastic	Neoplasms	0.97	0.90	1.05	320346	597	319749
627.1	Postmenopausal bleeding	Genitourinary	1.01	0.99	1.03	305697	9466	296231
204.21	Myeloid leukemia, acute	Neoplasms	0.96	0.86	1.08	323842	319	323523
473.4	Voice disturbance	Respiratory	0.98	0.92	1.04	310051	1101	308950
614.54	Abscess or ulceration of vulva	Genitourinary	1.04	0.93	1.17	319079	280	318799
528.6	Leukoplakia of oral mucosa	Digestive	0.96	0.86	1.08	322846	312	322534
736	Other acquired deformities of limbs	Musculoskeletal	1.04	0.93	1.16	316998	311	316687
198	Secondary malignant neoplasm	Neoplasms	1.02	0.96	1.08	230431	1119	229312
752	Nervous system congenital anomalies	Congenital Anomalies	0.96	0.86	1.08	327963	288	327675
535.2	Atrophic gastritis	Digestive	1.03	0.93	1.15	296869	358	296511
722	Intervertebral disc disorders	Musculoskeletal	1.01	0.98	1.03	316907	5963	310944
153.3	Malignant neoplasm of rectum, rectosigmoid junction, and anus	Neoplasms	1.01	0.97	1.06	303397	2117	301280
191	Malignant and unknown neoplasms of brain and nervous system	Neoplasms	0.96	0.84	1.09	326662	215	326447
228	Hemangioma and lymphangioma, any site	Neoplasms	0.98	0.94	1.03	328240	1635	326605
599.9	Other abnormality of urination	Genitourinary	1.01	0.97	1.06	222371	1944	220427
320	Meningitis	Neurological	1.03	0.94	1.13	327577	439	327138
573.9	Abnormal serum enzyme levels	Digestive	0.96	0.84	1.09	318561	230	318331

275.3	Disorders of magnesium metabolism	Endocrine/Metabolic	0.97	0.87	1.07	326410	375	326035
764	Sciatica	Symptoms	0.98	0.93	1.04	327944	1261	326683
528.7	Sialolithiasis	Digestive	0.96	0.86	1.08	322847	313	322534
569.2	Gastrointestinal complications	Digestive	0.97	0.89	1.06	247132	472	246660
70.3	Viral hepatitis C	Infectious Diseases	1.03	0.93	1.15	322549	343	322206
649.1	Diabetes or abnormal glucose tolerance complicating pregnancy	Pregnancy Complications	1.04	0.91	1.20	328127	208	327919
386.2	Peripheral or central vertigo	Sense Organs	1.03	0.93	1.14	322036	387	321649
619.3	Noninflammatory disorders of cervix	Genitourinary	0.99	0.95	1.03	281393	2845	278548
385.5	Tympanosclerosis and middle ear disease related to otitis media	Sense Organs	0.96	0.85	1.09	324379	236	324143
624.2	Atrophy of female genital tract	Genitourinary	0.97	0.89	1.07	319111	442	318669
292.6	Hallucinations	Mental Disorders	0.97	0.87	1.08	321793	323	321470
601.4	Balanoposthitis	Genitourinary	0.96	0.86	1.08	307689	296	307393
444.1	Arterial embolism and thrombosis of lower extremity artery	Circulatory System	1.03	0.95	1.11	319930	570	319360
803.3	Fracture of clavicle or scapula	Injuries & Poisonings	0.97	0.86	1.08	323857	300	323557
626.14	Irregular menstrual bleeding	Genitourinary	1.01	0.98	1.04	300177	3946	296231
281.11	Pernicious anemia	Hematopoietic	1.02	0.95	1.10	309650	750	308900
729.1	Rheumatism, unspecified and fibrositis	Musculoskeletal	1.03	0.93	1.14	305341	387	304954
189	Cancer of urinary organs (incl. kidney and bladder)	Neoplasms	1.01	0.98	1.05	326965	3003	323962
781	Symptoms involving nervous and musculoskeletal systems	Symptoms	1.00	0.99	1.02	328238	22180	306058
722.9	Other and unspecified disc disorder	Musculoskeletal	1.01	0.98	1.04	314894	3950	310944
165.1	Cancer of bronchus; lung	Neoplasms	1.01	0.97	1.06	327450	2181	325269
471	Nasal polyps	Respiratory	0.99	0.96	1.02	312342	3392	308950
396	Abnormal heart sounds	Circulatory System	1.02	0.96	1.08	322603	1075	321528
388	Other disorders of ear	Sense Organs	0.99	0.97	1.01	328080	9886	318194
272.9	Unspecified disorder of lipoid metabolism	Endocrine/Metabolic	0.96	0.84	1.10	291721	224	291497
594.1	Calculus of kidney	Genitourinary	1.01	0.98	1.05	323265	3334	319931
81	Infection/inflammation of internal prosthetic device; implant; and graft	Infectious Diseases	0.99	0.95	1.03	323993	2514	321479
625.1	Dyspareunia	Genitourinary	1.02	0.96	1.08	319824	1155	318669
278.1	Obesity	Endocrine/Metabolic	0.99	0.98	1.01	328110	11143	316967
302	Sexual and gender identity disorders	Mental Disorders	0.97	0.87	1.08	283238	340	282898
735.21	Hammer toe (acquired)	Musculoskeletal	0.99	0.94	1.03	318701	2014	316687
250.22	Type 2 diabetes with renal manifestations	Endocrine/Metabolic	1.04	0.91	1.19	307698	208	307490
427.12	Paroxysmal ventricular tachycardia	Circulatory System	1.02	0.96	1.08	300490	969	299521
575.6	Cholesterolosis of gallbladder	Digestive	0.97	0.89	1.07	310789	466	310323
443.9	Peripheral vascular disease, unspecified	Circulatory System	1.01	0.97	1.05	321969	2609	319360
195	Cancer, suspected or other	Neoplasms	1.02	0.96	1.09	230227	915	229312
433.1	Occlusion and stenosis of precerebral arteries	Circulatory System	1.02	0.96	1.08	319149	1042	318107
315	Develomental delays and disorders	Mental Disorders	1.02	0.94	1.11	326992	549	326443

427.42	Cardiac arrest	Circulatory System	0.98	0.92	1.05	300470	949	299521
198.2	Secondary malignancy of respiratory organs	Neoplasms	0.99	0.95	1.03	231589	2277	229312
8.6	Viral Enteritis	Infectious Diseases	0.98	0.92	1.05	319924	845	319079
531	Peptic ulcer (excl. esophageal)	Digestive	1.03	0.92	1.16	320833	284	320549
374.3	Ptosis of eyelid	Sense Organs	1.01	0.97	1.06	320284	1896	318388
454.11	Varicose veins of lower extremity, symptomtic	Circulatory System	1.02	0.95	1.10	288365	652	287713
586.4	Stricture/obstruction of ureter	Genitourinary	0.98	0.92	1.05	315018	939	314079
184.1	Malignant neoplasm of ovary and other uterine adnexa	Neoplasms	1.01	0.97	1.05	308106	2553	305553
335	Multiple sclerosis	Neurological	1.01	0.96	1.07	287531	1379	286152
721.1	Spondylosis without myelopathy	Musculoskeletal	1.02	0.96	1.08	312014	1070	310944
415	Pulmonary heart disease	Circulatory System	1.01	0.98	1.04	325300	3753	321547
695.42	Systemic lupus erythematosus	Dermatologic	1.03	0.93	1.14	320784	363	320421
751.2	Congenital anomalies of urinary system	Congenital Anomalies	0.98	0.92	1.05	326908	905	326003
751.12	Congenital anomalies of male genital organs	Congenital Anomalies	0.97	0.85	1.10	326231	228	326003
366	Cataract	Sense Organs	1.00	0.98	1.01	323825	16441	307384
381.1	Otitis media	Sense Organs	1.02	0.96	1.08	325296	1153	324143
276.41	Acidosis	Endocrine/Metabolic	1.02	0.96	1.08	321700	1056	320644
175	Acquired absence of breast	Neoplasms	1.01	0.97	1.05	305907	2516	303391
448	Disease of capillaries	Circulatory System	0.99	0.97	1.02	326841	7481	319360
519	Other diseases of respiratory system, not elsewhere classified	Respiratory	1.00	0.99	1.01	327615	62168	265447
496.3	Bronchiectasis	Respiratory	0.99	0.94	1.03	296077	1885	294192
761	Cervicalgia	Symptoms	0.98	0.93	1.05	328240	1005	327235
610.3	Fibrosclerosis of breast	Genitourinary	0.97	0.87	1.09	321176	303	320873
789	Nausea and vomiting	Symptoms	1.00	0.98	1.01	328240	11983	316257
225.1	Benign neoplasm of brain, cranial nerves, meninges	Neoplasms	1.02	0.95	1.09	327267	820	326447
747.1	Cardiac congenital anomalies	Congenital Anomalies	0.97	0.84	1.10	325565	211	325354
531.2	Gastric ulcer	Digestive	1.01	0.98	1.04	324777	4228	320549
964.1	Anticoagulants causing adverse effects	Injuries & Poisonings	1.03	0.91	1.17	300470	259	300211
990	Effects radiation NOS	Injuries & Poisonings	1.01	0.97	1.04	325633	3244	322389
870.1	Open wound or laceration of eye or eyelid	Injuries & Poisonings	0.97	0.86	1.09	320012	281	319731
871	Open wounds of extremities	Injuries & Poisonings	0.99	0.96	1.02	323873	4142	319731
594.2	Calculus of lower urinary tract	Genitourinary	0.98	0.92	1.05	320761	830	319931
610	Benign mammary dysplasias	Genitourinary	1.03	0.90	1.18	321081	208	320873
41.1	Staphylococcus infections	Infectious Diseases	1.01	0.97	1.04	315832	3200	312632
577.3	Cyst and pseudocyst of pancreas	Digestive	0.97	0.88	1.08	326295	375	325920
290.11	Alzheimer's disease	Mental Disorders	1.02	0.93	1.13	321872	402	321470
368.2	Diplopia and disorders of binocular vision	Sense Organs	1.02	0.95	1.09	325635	753	324882
791	Gangrene	Symptoms	0.98	0.90	1.06	328240	579	327661

496.1	Emphysema	Respiratory	0.99	0.94	1.04	295918	1726	294192
585.2	Renal failure NOS	Genitourinary	1.01	0.98	1.03	322824	8745	314079
380	Disorders of external ear	Sense Organs	0.99	0.94	1.04	328227	1475	326752
54	Herpes simplex	Infectious Diseases	1.03	0.90	1.18	322425	219	322206
574.11	Cholelithiasis with acute cholecystitis	Digestive	0.99	0.94	1.04	311836	1513	310323
532	Dysphagia	Digestive	0.99	0.97	1.02	294356	6553	287803
622.2	Mucous polyp of cervix	Genitourinary	0.99	0.96	1.03	318829	3522	315307
747.12	Valvular heart disease/ heart chambers	Congenital Anomalies	0.97	0.85	1.10	325592	238	325354
227.3	Benign neoplasm of pituitary gland and craniopharyngeal duct (pouch)	Neoplasms	0.97	0.87	1.09	326970	328	326642
596.5	Functional disorders of bladder	Genitourinary	1.01	0.96	1.06	315318	1682	313636
317.1	Alcoholism	Mental Disorders	0.99	0.97	1.02	306366	8697	297669
187.1	Malignant neoplasm of unspecified male genital organ	Neoplasms	0.99	0.97	1.02	327699	8481	319218
614.1	Pelvic peritoneal adhesions, female (postoperative) (postinfection)	Genitourinary	0.99	0.95	1.03	321370	2571	318799
512.9	Other dyspnea	Respiratory	1.02	0.95	1.08	315211	943	314268
288	Diseases of white blood cells	Hematopoietic	0.98	0.91	1.06	320928	610	320318
705.8	Hyperhidrosis	Dermatologic	1.02	0.94	1.10	318896	602	318294
526	Diseases of the jaws	Digestive	1.00	0.99	1.02	327645	15987	311658
212	Benign neoplasm of respiratory and intrathoracic organs	Neoplasms	1.02	0.92	1.14	328240	355	327885
210	Benign neoplasm of lip, oral cavity, and pharynx	Neoplasms	0.99	0.93	1.05	327034	993	326041
537	Other disorders of stomach and duodenum	Digestive	1.01	0.97	1.04	299994	3483	296511
740.11	Osteoarthrosis, localized, primary	Musculoskeletal	1.00	0.97	1.02	315552	9227	306325
447.1	Stricture of artery	Circulatory System	0.99	0.92	1.05	320246	886	319360
526.9	Jaw disease NOS	Digestive	1.00	0.99	1.02	327620	15962	311658
229	Benign neoplasm of unspecified sites	Neoplasms	1.00	0.99	1.01	328240	46165	282075
604.1	Redundant prepuce and phimosis/BXO	Genitourinary	1.01	0.97	1.05	310716	2810	307906
202.2	Non-Hodgkins lymphoma	Neoplasms	0.99	0.96	1.03	327055	3532	323523
938	Dermatitis due to solar radiation	Injuries & Poisonings	0.99	0.95	1.03	324444	2538	321906
433.5	Cerebral aneurysm	Circulatory System	1.02	0.93	1.13	318505	398	318107
379.3	Aphakia and other disorders of lens	Sense Organs	1.00	0.98	1.01	308920	20728	288192
674	Other complications of the puerperium NEC	Pregnancy Complications	0.97	0.87	1.10	328015	280	327735
706	Diseases of sebaceous glands	Dermatologic	0.98	0.91	1.06	318889	595	318294
250.6	Polyneuropathy in diabetes	Endocrine/Metabolic	0.98	0.88	1.08	307871	381	307490
613.9	Breast disorder NOS	Genitourinary	1.01	0.98	1.03	327937	5519	322418
714	Rheumatoid arthritis and other inflammatory polyarthropathies	Musculoskeletal	1.00	0.98	1.03	325905	8652	317253
440.2	Atherosclerosis of the extremities	Circulatory System	1.02	0.94	1.11	319912	552	319360
741	Symptoms and disorders of the joints	Musculoskeletal	1.00	0.99	1.02	327531	16889	310642
628	Ovarian cyst	Genitourinary	0.99	0.97	1.02	301051	4820	296231
345.12	Partial epilepsy	Neurological	0.98	0.87	1.09	286450	298	286152

728.7	Fasciitis	Musculoskeletal	0.97	0.85	1.11	305167	213	304954
594	Urinary calculus	Genitourinary	1.01	0.98	1.03	326897	6966	319931
289	Other diseases of blood and blood-forming organs	Hematopoietic	0.99	0.97	1.02	325300	4982	320318
350.3	Lack of coordination	Neurological	1.02	0.92	1.13	325804	360	325444
735.2	Acquired toe deformities	Musculoskeletal	1.01	0.97	1.05	318913	2226	316687
717	Polymyalgia Rheumatica	Musculoskeletal	0.99	0.93	1.05	328240	1147	327093
300.12	Agorophobia, social phobia, and panic disorder	Mental Disorders	0.98	0.92	1.06	283642	744	282898
465.2	Acute pharyngitis	Respiratory	0.99	0.92	1.05	326053	874	325179
285.22	Anemia in neoplastic disease	Hematopoietic	0.98	0.89	1.08	309337	437	308900
939	Atopic/contact dermatitis due to other or unspecified	Dermatologic	1.01	0.97	1.05	324060	2154	321906
366.2	Senile cataract	Sense Organs	1.00	0.97	1.02	315842	8458	307384
368	Visual disturbances	Sense Organs	1.01	0.95	1.07	325963	1081	324882
496	Chronic airway obstruction	Respiratory	1.00	0.97	1.02	301827	7635	294192
698	Pruritus and related conditions	Dermatologic	1.01	0.95	1.09	328240	799	327441
420.21	Acute pericarditis	Circulatory System	0.97	0.86	1.11	325211	228	324983
191.11	Cancer of brain	Neoplasms	0.98	0.90	1.07	326945	498	326447
635.2	Antepartum hemorrhage, abruptio placentae, and placenta previa	Pregnancy Complications	0.99	0.92	1.05	320901	936	319965
555.21	Ulcerative colitis (chronic)	Digestive	0.98	0.91	1.07	258967	571	258396
386.9	Dizziness and giddiness (Light-headedness and vertigo)	Sense Organs	1.01	0.98	1.03	326388	4739	321649
318	Tobacco use disorder	Mental Disorders	1.00	0.99	1.02	318172	20503	297669
174.1	Breast cancer [female]	Neoplasms	1.01	0.97	1.05	306711	2287	304424
798.1	Chronic fatigue syndrome	Symptoms	0.98	0.91	1.07	325335	606	324729
149	Cancer of larynx, pharynx, nasal cavities	Neoplasms	1.01	0.95	1.08	326986	945	326041
568	Other disorders of peritoneum	Digestive	0.99	0.96	1.03	250464	3804	246660
276.12	Hyposmolality and/or hyponatremia	Endocrine/Metabolic	1.01	0.96	1.06	322496	1852	320644
681.1	Cellulitis and abscess of fingers/toes	Dermatologic	1.02	0.94	1.10	316989	582	316407
585.3	Chronic renal failure [CKD]	Genitourinary	1.01	0.97	1.05	316664	2585	314079
280.2	Iron deficiency anemia secondary to blood loss (chronic)	Hematopoietic	1.02	0.93	1.11	309376	476	308900
426.21	First degree AV block	Circulatory System	0.99	0.93	1.05	300526	1005	299521
751.22	Other specified congenital anomalies of kidney	Congenital Anomalies	0.98	0.88	1.09	326353	350	326003
715	Other inflammatory spondylopathies	Musculoskeletal	1.02	0.91	1.15	317524	271	317253
420.2	Pericarditis	Circulatory System	0.99	0.93	1.05	326070	1087	324983
360.2	Progressive myopia	Sense Organs	1.02	0.90	1.16	317032	250	316782
592.1	Cystitis	Genitourinary	1.01	0.97	1.05	299089	2054	297035
306	Other mental disorder	Mental Disorders	1.00	0.99	1.01	312303	29405	282898
244.4	Hypothyroidism NOS	Endocrine/Metabolic	1.00	0.99	1.02	324759	14430	310329
618.6	Vaginal enterocele, congenital or acquired	Genitourinary	0.99	0.91	1.06	316909	667	316242
540	Appendiceal conditions	Digestive	1.01	0.97	1.04	328240	3861	324379

512.1	Wheezing	Respiratory	0.98	0.86	1.11	314499	231	314268
602	Other disorders of prostate	Genitourinary	1.01	0.96	1.06	308765	1372	307393
580.2	Nephrotic syndrome without mention of glomerulonephritis	Genitourinary	0.98	0.90	1.07	314575	496	314079
285.2	Anemia of chronic disease	Hematopoietic	0.98	0.87	1.10	309194	294	308900
470	Septal Deviations/Turbinate Hypertrophy	Respiratory	0.99	0.97	1.02	313771	4821	308950
281	Other deficiency anemia	Hematopoietic	1.00	0.98	1.03	317687	8787	308900
454.1	Varicose veins of lower extremity	Circulatory System	1.00	0.98	1.02	299275	11562	287713
384.4	Perforation of tympanic membrane	Sense Organs	0.99	0.93	1.05	325167	1024	324143
967	Adverse effects of sedatives or other central nervous system depressants and anesthetics	Injuries & Poisonings	0.99	0.91	1.07	300790	579	300211
301	Personality disorders	Mental Disorders	1.02	0.93	1.12	283330	432	282898
743.9	Osteopenia or other disorder of bone and cartilage	Musculoskeletal	0.99	0.96	1.03	328188	3989	324199
634	Miscarriage; stillbirth	Pregnancy Complications	0.99	0.96	1.03	324534	4569	319965
41.2	Streptococcus infection	Infectious Diseases	1.01	0.96	1.06	314280	1648	312632
835	Internal derangement of knee	Injuries & Poisonings	1.01	0.98	1.04	326012	4239	321773
150	Cancer of esophagus	Neoplasms	1.01	0.94	1.09	313058	727	312331
965.2	Antirheumatics causing adverse effects in therapeutic use	Injuries & Poisonings	0.99	0.90	1.08	300710	499	300211
185	Cancer of prostate	Neoplasms	1.00	0.97	1.02	315856	8463	307393
300.13	Phobia	Mental Disorders	0.99	0.90	1.07	283412	514	282898
594.8	Renal colic	Genitourinary	1.01	0.97	1.05	322062	2131	319931
464	Acute sinusitis	Respiratory	1.02	0.89	1.17	325387	208	325179
218	Benign neoplasm of uterus	Neoplasms	0.98	0.89	1.09	308168	388	307780
732	Osteochondropathies	Musculoskeletal	1.02	0.90	1.17	315651	219	315432
907	Injuries to the nervous system	Injuries & Poisonings	0.99	0.95	1.04	328240	1845	326395
579	Other symptoms involving abdomen and pelvis	Digestive	1.01	0.95	1.07	304580	1186	303394
870	Open wounds of head; neck; and trunk	Injuries & Poisonings	1.01	0.94	1.10	320327	596	319731
531.3	Duodenal ulcer	Digestive	0.99	0.96	1.03	323644	3095	320549
627.2	Symptomatic menopause	Genitourinary	1.02	0.89	1.17	296434	203	296231
857	Mechanical complication of unspecified genitourinary device, implant, and graft	Injuries & Poisonings	0.99	0.94	1.05	315248	1284	313964
618.1	Prolapse of vaginal walls	Genitourinary	1.00	0.98	1.03	323726	7484	316242
561	Symptoms involving digestive system	Digestive	1.00	0.98	1.01	272941	14545	258396
530.3	Stricture and stenosis of esophagus	Digestive	1.01	0.96	1.05	289757	1954	287803
536.8	Dyspepsia and other specified disorders of function of stomach	Digestive	1.02	0.90	1.16	296758	247	296511
433.2	Occlusion of cerebral arteries	Circulatory System	0.99	0.96	1.03	321087	2980	318107
349	Other and unspecified disorders of the nervous system	Neurological	1.00	0.99	1.01	326855	40703	286152
211	Benign neoplasm of other parts of digestive system	Neoplasms	1.00	0.98	1.03	319683	5375	314308
771.1	Swelling of limb	Symptoms	0.99	0.92	1.06	327356	842	326514
716.9	Arthropathy NOS	Musculoskeletal	1.00	0.99	1.01	327719	53823	273896
365	Glaucoma	Sense Organs	1.00	0.98	1.03	321340	4558	316782

389	Hearing loss	Sense Organs	0.99	0.96	1.03	321364	3170	318194
357	Inflammatory and toxic neuropathy	Neurological	0.99	0.94	1.04	327375	1423	325952
687	Symptoms affecting skin	Dermatologic	0.98	0.86	1.12	323032	218	322814
694.2	Other dyschromia	Dermatologic	1.01	0.94	1.08	322549	800	321749
350.1	Abnormal involuntary movements	Neurological	1.01	0.95	1.08	326371	927	325444
586	Other disorders of the kidney and ureters	Genitourinary	0.99	0.96	1.03	317490	3411	314079
280.1	Iron deficiency anemias, unspecified or not due to blood loss	Hematopoietic	1.00	0.98	1.03	316402	7502	308900
726.1	Enthesopathy	Musculoskeletal	1.00	0.98	1.03	311657	6703	304954
479	Other upper respiratory disease	Respiratory	1.00	0.98	1.01	324241	15291	308950
724.9	Other unspecified back disorders	Musculoskeletal	1.00	0.98	1.01	328029	17085	310944
597	Other disorders of urethra and urinary tract	Genitourinary	0.99	0.93	1.06	314510	874	313636
535.6	Duodenitis	Digestive	1.00	0.98	1.03	304405	7894	296511
411.1	Unstable angina (intermediate coronary syndrome)	Circulatory System	1.00	0.97	1.02	301011	5322	295689
284	Aplastic anemia	Hematopoietic	1.00	0.99	1.02	321659	12759	308900
293.1	Swelling, mass, or lump in head and neck [Space-occupying lesion, intracranial NOS]	Mental Disorders	1.01	0.95	1.08	326044	925	325119
701.2	Scar conditions and fibrosis of skin	Dermatologic	0.99	0.96	1.03	325471	2407	323064
500.2	Pneumoconiosis	Respiratory	1.01	0.95	1.07	317485	1001	316484
727.4	Ganglion and cyst of synovium, tendon, and bursa	Musculoskeletal	0.99	0.96	1.03	307936	2982	304954
300	Anxiety, phobic and dissociative disorders	Mental Disorders	0.99	0.89	1.09	283261	363	282898
386	Vertiginous syndromes and other disorders of vestibular system	Sense Organs	0.99	0.95	1.04	323761	2112	321649
722.6	Degeneration of intervertebral disc	Musculoskeletal	1.01	0.97	1.04	313866	2922	310944
433.21	Cerebral artery occlusion, with cerebral infarction	Circulatory System	0.99	0.94	1.04	319641	1534	318107
840	Sprains and strains	Injuries & Poisonings	0.99	0.90	1.08	328201	481	327720
529.1	Glossitis	Digestive	1.02	0.91	1.14	322838	304	322534
626.2	Dysmenorrhea	Genitourinary	1.01	0.96	1.06	297910	1679	296231
367.8	Hypermetropia	Sense Organs	0.98	0.87	1.11	325995	241	325754
378.2	Nystagmus and other irregular eye movements	Sense Organs	0.98	0.86	1.12	288407	215	288192
426.4	Anomalous atrioventricular excitation	Circulatory System	1.02	0.90	1.15	299761	240	299521
288.11	Neutropenia	Hematopoietic	1.00	0.96	1.03	323644	3326	320318
575.1	Cholangitis	Digestive	0.99	0.91	1.08	310820	497	310323
8.52	Intestinal infection due to C. difficile	Infectious Diseases	0.99	0.92	1.07	319727	648	319079
572	Ascites (non malignant)	Digestive	1.01	0.96	1.06	319925	1594	318331
726.2	Synoviopathy	Musculoskeletal	0.99	0.89	1.10	305285	331	304954
634.3	Ectopic pregnancy	Pregnancy Complications	1.01	0.91	1.13	320307	342	319965
585.1	Acute renal failure	Genitourinary	1.00	0.98	1.03	318744	4665	314079
289.4	Lymphadenitis	Hematopoietic	1.00	0.97	1.04	323033	2715	320318
516.1	Hemoptysis	Respiratory	1.01	0.96	1.05	328154	2103	326051
836	Traumatic arthropathy	Injuries & Poisonings	1.02	0.90	1.15	322016	243	321773

289.3	Personal history of diseases of blood and blood-forming organs	Hematopoietic	1.01	0.91	1.14	320615	297	320318
804	Fracture of hand or wrist	Injuries & Poisonings	1.01	0.94	1.09	324232	675	323557
197	Chemotherapy	Neoplasms	1.00	0.99	1.02	251774	22462	229312
504	Other alveolar and parietoalveolar pneumonopathy	Respiratory	1.01	0.91	1.13	316793	309	316484
509.8	Dependence on respirator [Ventilator] or supplemental oxygen	Respiratory	1.01	0.92	1.12	316885	401	316484
574.2	Calculus of bile duct	Digestive	1.00	0.96	1.03	313011	2688	310323
216	Benign neoplasm of skin	Neoplasms	1.00	0.98	1.02	327614	7865	319749
285.1	Acute posthemorrhagic anemia	Hematopoietic	1.01	0.90	1.14	309167	267	308900
556.1	Ulceration of intestine	Digestive	0.99	0.92	1.07	259087	691	258396
612.2	Hypertrophy of breast (Gynecomastia)	Genitourinary	0.99	0.93	1.06	321732	859	320873
502	Postinflammatory pulmonary fibrosis	Respiratory	0.99	0.93	1.06	317367	883	316484
743.11	Osteoporosis NOS	Musculoskeletal	1.00	0.97	1.04	327235	3036	324199
495.2	Asthma with exacerbation	Respiratory	1.01	0.90	1.14	294453	261	294192
289.8	Polycythemia vera, secondary	Hematopoietic	1.01	0.90	1.14	320039	291	319748
614.4	Inflammatory diseases of uterus, except cervix	Genitourinary	0.99	0.88	1.10	319107	308	318799
735.3	Hallux valgus (Bunion)	Musculoskeletal	1.00	0.98	1.03	323592	6905	316687
803	Fracture of upper limb	Injuries & Poisonings	1.01	0.92	1.11	323990	433	323557
805	Fracture of vertebral column without mention of spinal cord injury	Injuries & Poisonings	0.99	0.89	1.10	323890	333	323557
512.8	Cough	Respiratory	1.00	0.97	1.04	317232	2964	314268
599.4	Urinary incontinence	Genitourinary	1.00	0.98	1.02	229423	8996	220427
427.8	Sinoatrial node dysfunction (Bradycardia)	Circulatory System	1.01	0.92	1.11	299940	419	299521
303.3	Psychogenic disorder	Mental Disorders	1.01	0.94	1.08	283739	841	282898
530.7	Gastroesophageal laceration-hemorrhage syndrome	Digestive	1.01	0.91	1.13	288136	333	287803
195.1	Malignant neoplasm, other	Neoplasms	1.00	0.99	1.01	320138	90826	229312
702.1	Actinic keratosis	Dermatologic	1.00	0.97	1.04	325264	2664	322600
714.1	Rheumatoid arthritis	Musculoskeletal	1.00	0.96	1.05	319560	2307	317253
701	Other hypertrophic and atrophic conditions of skin	Dermatologic	1.00	0.95	1.04	324891	1827	323064
522	Diseases of pulp and periapical tissues	Digestive	1.01	0.93	1.09	312297	639	311658
250.7	Diabetic retinopathy	Endocrine/Metabolic	0.99	0.94	1.05	317232	1380	315852
610.4	Benign neoplasm of breast	Genitourinary	1.01	0.96	1.06	322359	1486	320873
619.5	Noninflammatory disorders of vulva and perineum	Genitourinary	1.01	0.95	1.06	279927	1379	278548
345.3	Convulsions	Neurological	1.00	0.96	1.05	288463	2311	286152
323.8	Encephalitis, non-infectious	Neurological	0.99	0.92	1.07	327771	633	327138
227.2	Benign neoplasm of parathyroid gland	Neoplasms	0.99	0.90	1.09	327032	390	326642
260.6	Anorexia	Endocrine/Metabolic	1.01	0.94	1.08	326636	850	325786
204	Leukemia	Neoplasms	0.99	0.90	1.09	323984	461	323523
619.2	Disorders of uterus, NEC	Genitourinary	1.00	0.97	1.04	281939	3391	278548
272.11	Hypercholesterolemia	Endocrine/Metabolic	1.00	0.99	1.01	325499	34002	291497

578.9	Hemorrhage of gastrointestinal tract	Digestive	1.00	0.97	1.02	308849	5455	303394
523	Gingival and periodontal diseases	Digestive	0.99	0.91	1.08	312187	529	311658
965.1	Opiates and related narcotics causing adverse effects in therapeutic use	Injuries & Poisonings	0.99	0.94	1.05	301372	1161	300211
377	Disorders of optic nerve and visual pathways	Sense Organs	1.01	0.92	1.11	288628	436	288192
721.8	Other allied disorders of spine	Musculoskeletal	1.00	0.96	1.03	314171	3227	310944
627.3	Postmenopausal atrophic vaginitis	Genitourinary	1.01	0.95	1.07	297359	1128	296231
737	Curvature of spine	Musculoskeletal	1.01	0.94	1.08	317430	743	316687
287.31	Primary thrombocytopenia	Hematopoietic	1.01	0.92	1.11	325925	428	325497
619.4	Noninflammatory disorders of vagina	Genitourinary	1.00	0.96	1.05	280328	1780	278548
256.4	Polycystic ovaries	Endocrine/Metabolic	0.99	0.87	1.13	324764	219	324545
246	Other disorders of thyroid	Endocrine/Metabolic	1.00	0.98	1.01	327738	17409	310329
687.4	Disturbance of skin sensation	Dermatologic	1.00	0.96	1.03	325793	2979	322814
509.2	Respiratory insufficiency	Respiratory	1.00	0.96	1.05	318272	1788	316484
721	Spondylosis and allied disorders	Musculoskeletal	1.01	0.94	1.07	311869	925	310944
618.2	Uterine/Uterovaginal prolapse	Genitourinary	1.00	0.98	1.03	321713	5471	316242
250.23	Type 2 diabetes with ophthalmic manifestations	Endocrine/Metabolic	1.00	0.95	1.06	308834	1344	307490
521.1	Dental caries	Digestive	1.00	0.96	1.03	314912	3254	311658
506	Empyema and pneumothorax	Respiratory	0.99	0.94	1.05	317630	1146	316484
165	Cancer within the respiratory system	Neoplasms	1.00	0.96	1.03	328223	2954	325269
523.31	Acute periodontitis	Digestive	1.01	0.94	1.08	312371	713	311658
687.1	Rash and other nonspecific skin eruption	Dermatologic	1.00	0.96	1.05	325032	2218	322814
599.2	Retention of urine	Genitourinary	1.00	0.97	1.02	227284	6857	220427
540.11	Acute appendicitis	Digestive	1.00	0.97	1.04	327037	2658	324379
947	Urticaria	Injuries & Poisonings	0.99	0.90	1.10	322293	387	321906
701.5	Abnormal granulation tissue	Dermatologic	0.99	0.91	1.09	323543	479	323064
696.41	Psoriasis vulgaris	Dermatologic	1.00	0.96	1.05	315655	1723	313932
738	Other acquired musculoskeletal deformity	Musculoskeletal	0.99	0.90	1.09	317104	417	316687
362.4	Retinal vascular changes and abnomalities	Sense Organs	0.99	0.93	1.06	316733	881	315852
340	Migraine	Neurological	1.00	0.96	1.03	320723	2773	317950
198.4	Secondary malignant neoplasm of liver	Neoplasms	1.00	0.96	1.04	232009	2697	229312
159	Malignant neoplasm of other and ill-defined sites within the digestive organs and peritoneum	Neoplasms	1.00	0.98	1.03	317620	5289	312331
458.2	Iatrogenic hypotension	Circulatory System	1.01	0.89	1.15	194417	238	194179
379	Other disorders of eye	Sense Organs	1.00	0.99	1.01	328190	39998	288192
290	Delirium dementia and amnestic and other cognitive disorders	Mental Disorders	1.01	0.92	1.10	321950	480	321470
575.9	Nonspecific abnormal findings on radiological and other examination of biliary tract	Digestive	1.01	0.91	1.12	310690	367	310323
760	Back pain	Symptoms	1.00	0.97	1.02	328240	5923	322317
567	Peritonitis and retroperitoneal infections	Digestive	1.00	0.94	1.07	247550	890	246660
782.3	Edema	Symptoms	1.00	0.96	1.05	328067	1715	326352

994.2	Sepsis	Injuries & Poisonings	1.00	0.96	1.03	328240	2885	325355
530.5	Disorders of esophageal motility	Digestive	1.01	0.93	1.09	288452	649	287803
596	Other disorders of bladder	Genitourinary	1.00	0.98	1.02	321385	7749	313636
214.1	Lipoma of skin and subcutaneous tissue	Neoplasms	1.00	0.97	1.03	325432	4756	320676
337	Disorders of the autonomic nervous system	Neurological	1.01	0.88	1.16	286359	207	286152
204.4	Multiple myeloma	Neoplasms	0.99	0.92	1.08	324097	574	323523
472	Chronic pharyngitis and nasopharyngitis	Respiratory	1.00	0.93	1.06	309897	947	308950
613.7	Other signs and symptoms in breast	Genitourinary	1.00	0.94	1.08	323169	751	322418
586.2	Cyst of kidney, acquired	Genitourinary	1.00	0.94	1.05	315372	1293	314079
274.1	Gout	Endocrine/Metabolic	1.00	0.95	1.05	327930	1668	326262
957	Injury to other and unspecified nerves	Injuries & Poisonings	0.99	0.88	1.12	328157	275	327882
530.11	GERD	Digestive	1.00	0.98	1.02	302292	14489	287803
418	Nonspecific chest pain	Circulatory System	1.00	0.99	1.01	326032	30212	295820
647.1	Infections of genitourinary tract during pregnancy	Pregnancy Complications	0.99	0.88	1.12	328128	284	327844
367.1	Myopia	Sense Organs	1.00	0.94	1.05	327025	1271	325754
701.4	Keloid scar	Dermatologic	1.01	0.89	1.15	323292	228	323064
279.7	Other immunological findings	Endocrine/Metabolic	0.99	0.88	1.12	327978	264	327714
38	Septicemia	Infectious Diseases	1.00	0.97	1.04	315677	3045	312632
522.5	Periapical abscess	Digestive	1.00	0.94	1.05	312904	1246	311658
245.21	Chronic lymphocytic thyroiditis	Endocrine/Metabolic	0.99	0.87	1.13	310548	219	310329
803.2	Fracture of radius and ulna	Injuries & Poisonings	1.00	0.93	1.06	324441	884	323557
740.9	Osteoarthrosis NOS	Musculoskeletal	1.00	0.97	1.03	310757	4432	306325
244.1	Secondary hypothyroidism	Endocrine/Metabolic	1.00	0.94	1.06	311484	1155	310329
174.11	Malignant neoplasm of female breast	Neoplasms	1.00	0.98	1.02	316838	12414	304424
531.1	Hemorrhage from gastrointestinal ulcer	Digestive	1.00	0.93	1.08	321204	655	320549
686.4	Pyogenic granuloma	Dermatologic	0.99	0.90	1.10	316787	380	316407
38.1	Gram negative septicemia	Infectious Diseases	1.00	0.94	1.07	313487	855	312632
480.1	Bacterial pneumonia	Respiratory	1.00	0.94	1.07	318628	939	317689
788	Syncope and collapse	Symptoms	1.00	0.98	1.02	328240	9372	318868
626.12	Excessive or frequent menstruation	Genitourinary	1.00	0.98	1.02	306272	10041	296231
783	Fever of unknown origin	Symptoms	1.00	0.97	1.03	328240	4111	324129
540.1	Appendicitis	Digestive	1.00	0.94	1.08	325174	795	324379
340.1	Migrain with aura	Neurological	0.99	0.87	1.13	318167	217	317950
759	Other and unspecified congenital anomalies	Congenital Anomalies	1.00	0.93	1.08	327249	679	326570
565	Anal and rectal conditions	Digestive	1.00	0.98	1.02	255321	8661	246660
351	Other peripheral nerve disorders	Neurological	1.00	0.98	1.02	325903	12892	313011
707	Chronic ulcer of skin	Dermatologic	1.00	0.94	1.05	327959	1260	326699
198.3	Secondary malignant neoplasm of digestive systems	Neoplasms	1.00	0.95	1.05	230877	1565	229312

291.8	Alteration of consciousness	Mental Disorders	1.00	0.91	1.10	321904	434	321470
512	Other symptoms of respiratory system	Respiratory	1.00	0.97	1.03	319772	5504	314268
742.9	Other derangement of joint	Musculoskeletal	1.00	0.90	1.10	311042	400	310642
723	Other disorders of cervical region	Musculoskeletal	1.00	0.90	1.10	311345	401	310944
323	Encephalitis	Neurological	1.00	0.93	1.07	327999	861	327138
550.4	Umbilical hernia	Digestive	1.00	0.97	1.03	283693	3904	279789
740.1	Osteoarthritis; localized	Musculoskeletal	1.00	0.98	1.02	315797	9472	306325
204.12	Lymphoid leukemia, chronic	Neoplasms	1.00	0.91	1.09	324030	507	323523
184.2	Cancer of other female genital organs	Neoplasms	1.00	0.89	1.11	305876	323	305553
509.1	Respiratory failure	Respiratory	1.00	0.96	1.04	318564	2080	316484
214	Lipoma	Neoplasms	1.00	0.96	1.05	322495	1819	320676
365.11	Primary open angle glaucoma	Sense Organs	1.00	0.94	1.06	317838	1056	316782
443.1	Raynaud's syndrome	Circulatory System	1.00	0.95	1.06	320525	1165	319360
427.3	Other specified cardiac dysrhythmias	Circulatory System	1.00	0.97	1.04	302836	3315	299521
619	Noninflammatory female genital disorders	Genitourinary	1.00	0.99	1.01	328106	49558	278548
53	Herpes zoster	Infectious Diseases	1.00	0.90	1.12	322547	341	322206
381.9	Otorrhea	Sense Organs	1.00	0.89	1.13	324420	277	324143
202.24	Large cell lymphoma	Neoplasms	1.00	0.92	1.09	324112	589	323523
364.5	Corneal dystrophy	Sense Organs	1.00	0.88	1.15	316998	216	316782
441.1	Acute vascular insufficiency of intestine	Circulatory System	1.00	0.89	1.13	319631	271	319360
803.1	Fracture of humerus	Injuries & Poisonings	1.00	0.90	1.12	323850	293	323557
365.2	Primary angle-closure glaucoma	Sense Organs	1.00	0.93	1.07	317491	709	316782
296.22	Major depressive disorder	Mental Disorders	1.00	0.91	1.11	283282	384	282898
720	Spinal stenosis	Musculoskeletal	1.00	0.93	1.07	311636	692	310944
531.4	Peptic ulcer, site unspecified	Digestive	1.00	0.91	1.10	320998	449	320549
529	Diseases and other conditions of the tongue	Digestive	1.00	0.94	1.06	323485	951	322534
427	Cardiac dysrhythmias	Circulatory System	1.00	0.89	1.11	299844	323	299521
752.11	Spina bifida	Congenital Anomalies	1.00	0.87	1.14	327886	211	327675
430.2	Intracerebral hemorrhage	Circulatory System	1.00	0.93	1.08	318830	723	318107
368.9	Subjective visual disturbances	Sense Organs	1.00	0.93	1.08	325515	633	324882
443.7	Peripheral angiopathy in diseases classified elsewhere	Circulatory System	1.00	0.91	1.10	319775	415	319360
749	Congenital anomalies of face and neck	Congenital Anomalies	1.00	0.89	1.13	328137	271	327866
707.1	Decubitus ulcer	Dermatologic	1.00	0.90	1.11	327025	326	326699
275.5	Disorders of calcium/phosphorus metabolism	Endocrine/Metabolic	1.00	0.94	1.06	327144	1109	326035
348.9	Other conditions of brain, NOS	Neurological	1.00	0.91	1.10	286559	407	286152
536	Disorders of function of stomach	Digestive	1.00	0.89	1.13	296768	257	296511
426.23	Second degree AV block	Circulatory System	1.00	0.91	1.10	299982	461	299521
571.6	Primary biliary cirrhosis	Digestive	1.00	0.89	1.13	318589	258	318331

213	Benign neoplasm of bone and articular cartilage	Neoplasms	1.00	0.89	1.11	277528	322	277206
535.8	Other specified gastritis	Digestive	1.00	0.98	1.02	304926	8415	296511
807	Fracture of ribs	Injuries & Poisonings	1.00	0.88	1.14	323780	223	323557
433.8	Late effects of cerebrovascular disease	Circulatory System	1.00	0.95	1.06	319384	1277	318107
444	Arterial embolism and thrombosis	Circulatory System	1.00	0.91	1.10	319794	434	319360
735.23	Hallux rigidus	Musculoskeletal	1.00	0.95	1.05	318243	1556	316687
614.53	Cyst or abscess of Bartholin's gland	Genitourinary	1.00	0.93	1.07	319602	803	318799
252.1	Hyperparathyroidism	Endocrine/Metabolic	1.00	0.93	1.07	325359	814	324545
624.9	stress incontinence, female	Genitourinary	1.00	0.97	1.03	324769	6100	318669
550	Abdominal hernia	Digestive	1.00	0.99	1.01	328240	48451	279789
332	Parkinson's disease	Neurological	1.00	0.94	1.06	287334	1182	286152
519.9	Symptoms involving respiratory system and other chest symptoms	Respiratory	1.00	0.90	1.12	265755	308	265447
430.1	Subarachnoid hemorrhage	Circulatory System	1.00	0.93	1.07	318931	824	318107
535	Gastritis and duodenitis	Digestive	1.00	0.99	1.02	314259	17748	296511
455	Hemorrhoids	Circulatory System	1.00	0.99	1.01	312410	24697	287713
339	Other headache syndromes	Neurological	1.00	0.98	1.02	325888	7938	317950
520.2	Disturbances in tooth eruption	Digestive	1.00	0.96	1.04	314095	2437	311658
384	Other disorders of tympanic membrane	Sense Organs	1.00	0.91	1.10	324573	430	324143
575.7	Other disorders of gallbladder	Digestive	1.00	0.95	1.05	311719	1396	310323
709.7	Unspecified diffuse connective tissue disease	Dermatologic	1.00	0.99	1.01	324635	82669	241966
524.3	Anomalies of tooth position/malocclusion	Digestive	1.00	0.89	1.12	311953	295	311658
433	Cerebrovascular disease	Circulatory System	1.00	0.98	1.02	326753	8646	318107
338.1	Acute pain	Neurological	1.00	0.91	1.10	327846	420	327426
618.5	Prolapse of vaginal vault after hysterectomy	Genitourinary	1.00	0.92	1.09	316743	501	316242
733	Other disorders of bone and cartilage	Musculoskeletal	1.00	0.92	1.08	316001	569	315432
527.2	Sialoadenitis	Digestive	1.00	0.90	1.11	322908	374	322534
369.5	Conjunctivitis, infectious	Sense Organs	1.00	0.88	1.14	318612	224	318388
174	Breast cancer	Neoplasms	1.00	0.89	1.12	304712	288	304424
253.2	Pituitary hypofunction	Endocrine/Metabolic	1.00	0.89	1.12	324826	281	324545
495	Asthma	Respiratory	1.00	0.99	1.01	320971	26779	294192
603.1	Hydrocele	Genitourinary	1.00	0.95	1.05	309308	1402	307906
145.2	Cancer of tongue	Neoplasms	1.00	0.90	1.11	326366	325	326041
277.4	Disorders of bilirubin excretion	Endocrine/Metabolic	1.00	0.90	1.11	283300	373	282927
198.5	Secondary malignancy of brain/spine	Neoplasms	1.00	0.93	1.07	230113	801	229312
591	Urinary tract infection	Genitourinary	1.00	0.98	1.02	309711	12676	297035
501	Pneumonitis due to inhalation of food or vomitus	Respiratory	1.00	0.92	1.08	317076	592	316484
401.22	Hypertensive chronic kidney disease	Circulatory System	1.00	0.95	1.05	250343	1595	248748
292.2	Mild cognitive impairment	Mental Disorders	1.00	0.87	1.15	321672	202	321470

Supplementary Table 15. Phenome-wide association study (PheWAS) results for the beta-blocker (BB) genetic risk score after excluding potentially pleiotropic single-nucleotide polymorphisms identified by their secondary associations in PhenoScanner.

Phecode	Trait	Category	OR	Low 95% CI	Upp 95% CI	Total sample size	Cases	Controls
401	Hypertension	Circulatory System	0.97	0.96	0.97	328239	79491	248748
401.1	Essential hypertension	Circulatory System	0.97	0.96	0.97	327983	79235	248748
459.9	Circulatory disease NEC	Circulatory System	0.98	0.97	0.99	327928	133749	194179
916	Contusion	Injuries & Poisonings	0.89	0.85	0.94	328240	1478	326762
395.1	Nonrheumatic mitral valve disorders	Circulatory System	0.94	0.91	0.97	324497	2969	321528
394.2	Mitral valve disease	Circulatory System	0.94	0.91	0.98	324603	3075	321528
427	Cardiac dysrhythmias	Circulatory System	0.85	0.77	0.94	299844	323	299521
250	Diabetes mellitus	Endocrine/Metabolic	1.02	1.01	1.04	327730	20240	307490
550.3	Femoral hernia	Digestive	0.89	0.83	0.96	280442	653	279789
289.3	Personal history of diseases of blood and blood-forming organs	Hematopoietic	0.85	0.76	0.95	320615	297	320318
528	Diseases of the oral soft tissues, excluding lesions specific for gingiva and tongue	Digestive	0.94	0.90	0.98	324593	2059	322534
250.2	Type 2 diabetes	Endocrine/Metabolic	1.02	1.01	1.04	326603	19113	307490
371.1	Uveitis, noninfectious or NOS	Sense Organs	1.14	1.04	1.25	318886	498	318388
427.2	Atrial fibrillation and flutter	Circulatory System	0.98	0.96	0.99	314573	15052	299521
433.3	Cerebral ischemia	Circulatory System	0.92	0.86	0.98	319041	934	318107
586.2	Cyst of kidney, acquired	Genitourinary	0.93	0.88	0.98	315372	1293	314079
571.6	Primary biliary cirrhosis	Digestive	1.19	1.04	1.35	318589	258	318331
613.9	Breast disorder NOS	Genitourinary	1.04	1.01	1.06	327937	5519	322418
260.6	Anorexia	Endocrine/Metabolic	0.92	0.86	0.98	326636	850	325786
634.3	Ectopic pregnancy	Pregnancy Complications	0.88	0.79	0.97	320307	342	319965
702.1	Actinic keratosis	Dermatologic	1.05	1.01	1.09	325264	2664	322600
382	Otalgia	Sense Organs	0.87	0.79	0.97	324458	315	324143
704	Diseases of hair and hair follicles	Dermatologic	1.04	1.01	1.06	326692	5263	321429
738.4	Acquired spondylolisthesis	Musculoskeletal	1.18	1.03	1.34	316942	255	316687
149.4	Cancer of larynx	Neoplasms	0.87	0.77	0.97	326307	266	326041
623	Hypertrophy of female genital organs	Genitourinary	1.07	1.01	1.14	316579	1272	315307
613.1	Inflammatory disease of breast	Genitourinary	1.10	1.02	1.18	323156	738	322418
444.1	Arterial embolism and thrombosis of lower extremity artery	Circulatory System	0.91	0.84	0.98	319930	570	319360
649.1	Diabetes or abnormal glucose tolerance complicating pregnancy	Pregnancy Complications	1.20	1.03	1.38	328127	208	327919
411.8	Other chronic ischemic heart disease, unspecified	Circulatory System	0.99	0.97	1.00	326969	31280	295689
411	Ischemic Heart Disease	Circulatory System	0.99	0.97	1.00	327032	31343	295689
586	Other disorders of the kidney and ureters	Genitourinary	0.96	0.93	0.99	317490	3411	314079
8	Intestinal infection	Infectious Diseases	0.98	0.96	1.00	328240	9161	319079
276.12	Hyposmolality and/or hyponatremia	Endocrine/Metabolic	0.95	0.91	0.99	322496	1852	320644
411.4	Coronary atherosclerosis	Circulatory System	0.99	0.97	1.00	327242	31553	295689

225.1	Benign neoplasm of brain, cranial nerves, meninges	Neoplasms	0.92	0.86	0.99	327267	820	326447
53	Herpes zoster	Infectious Diseases	0.89	0.80	0.98	322547	341	322206
703	Diseases of nail, NOS	Dermatologic	1.13	1.02	1.26	321795	366	321429
189.21	Malignant neoplasm of bladder	Neoplasms	0.95	0.92	0.99	326150	2188	323962
447.1	Stricture of artery	Circulatory System	0.93	0.87	0.99	320246	886	319360
427.9	Palpitations	Circulatory System	0.97	0.94	1.00	303480	3959	299521
977	Personal history of allergy to medicinal agents	Injuries & Poisonings	1.16	1.01	1.33	300449	238	300211
396	Abnormal heart sounds	Circulatory System	1.07	1.01	1.14	322603	1075	321528
446.9	Arteritis NOS	Circulatory System	0.88	0.78	0.99	319605	245	319360
809	Fracture of unspecified bones	Injuries & Poisonings	0.90	0.82	0.99	323967	410	323557
159	Malignant neoplasm of other and ill-defined sites within the digestive organs and peritoneum	Neoplasms	0.97	0.95	1.00	317620	5289	312331
440.2	Atherosclerosis of the extremities	Circulatory System	0.92	0.84	0.99	319912	552	319360
348.8	Encephalopathy, not elsewhere classified	Neurological	1.17	1.01	1.35	286356	204	286152
555.2	Ulcerative colitis	Digestive	0.96	0.93	1.00	261550	3154	258396
747.13	Congenital anomalies of great vessels	Congenital Anomalies	0.95	0.91	1.00	327177	1823	325354
204.4	Multiple myeloma	Neoplasms	0.92	0.85	1.00	324097	574	323523
427.4	Cardiac arrest and ventricular fibrillation	Circulatory System	0.90	0.81	1.00	299869	348	299521
747.12	Valvular heart disease/ heart chambers	Congenital Anomalies	0.88	0.78	1.00	325592	238	325354
840	Sprains and strains	Injuries & Poisonings	1.10	1.00	1.21	328201	481	327720
380	Disorders of external ear	Sense Organs	0.95	0.90	1.00	328227	1475	326752
523	Gingival and periodontal diseases	Digestive	0.92	0.85	1.00	312187	529	311658
441.1	Acute vascular insufficiency of intestine	Circulatory System	1.13	1.00	1.28	319631	271	319360
262	Mineral deficiency NEC	Endocrine/Metabolic	1.14	1.00	1.30	326027	241	325786
448	Disease of capillaries	Circulatory System	0.98	0.96	1.00	326841	7481	319360
151	Cancer of stomach	Neoplasms	0.92	0.85	1.00	312905	574	312331
524.3	Anomalies of tooth position/malocclusion	Digestive	0.90	0.80	1.00	311953	295	311658
158	Neoplasm of unspecified nature of digestive system	Neoplasms	1.06	1.00	1.13	313429	1098	312331
427.41	Ventricular fibrillation and flutter	Circulatory System	0.91	0.82	1.00	299866	345	299521
756	Other congenital musculoskeletal anomalies	Congenital Anomalies	1.07	1.00	1.15	328123	812	327311
642.1	Preeclampsia and eclampsia	Pregnancy Complications	0.91	0.82	1.00	327385	335	327050
567	Peritonitis and retroperitoneal infections	Digestive	0.94	0.88	1.00	247550	890	246660
471	Nasal polyps	Respiratory	1.03	1.00	1.07	312342	3392	308950
519.8	Other diseases of respiratory system, NEC	Respiratory	1.02	1.00	1.04	274529	9082	265447
706.2	Sebaceous cyst	Dermatologic	1.02	1.00	1.04	327401	9107	318294
755.1	Congenital deformities of feet	Congenital Anomalies	1.14	0.99	1.31	327531	220	327311
290.2	Delirium due to conditions classified elsewhere	Mental Disorders	0.93	0.87	1.00	322151	681	321470
367.9	Blindness and low vision	Sense Organs	1.07	1.00	1.15	326510	756	325754
317.11	Alcoholic liver damage	Mental Disorders	1.07	1.00	1.14	298534	865	297669

594.1	Calculus of kidney	Genitourinary	0.97	0.94	1.00	323265	3334	319931
300.13	Phobia	Mental Disorders	0.92	0.85	1.00	283412	514	282898
458.2	Iatrogenic hypotension	Circulatory System	0.89	0.79	1.01	194417	238	194179
426.3	Bundle branch block	Circulatory System	0.90	0.81	1.01	299812	291	299521
740.2	Osteoarthrosis, generalized	Musculoskeletal	0.93	0.86	1.01	306914	589	306325
627.1	Postmenopausal bleeding	Genitourinary	1.02	1.00	1.04	305697	9466	296231
276.5	Hypovolemia	Endocrine/Metabolic	0.97	0.93	1.00	323539	2895	320644
202.21	Nodular lymphoma	Neoplasms	0.91	0.83	1.01	323913	390	323523
364	Corneal opacity and other disorders of cornea	Sense Organs	1.14	0.99	1.30	317009	227	316782
585.2	Renal failure NOS	Genitourinary	0.98	0.96	1.00	322824	8745	314079
577.1	Acute pancreatitis	Digestive	0.95	0.91	1.00	327437	1517	325920
857	Mechanical complication of unspecified genitourinary device, implant, and graft	Injuries & Poisonings	0.95	0.90	1.00	315248	1284	313964
426.32	Left bundle branch block	Circulatory System	0.96	0.92	1.00	301302	1781	299521
783	Fever of unknown origin	Symptoms	1.03	1.00	1.06	328240	4111	324129
277	Other disorders of metabolism	Endocrine/Metabolic	0.99	0.98	1.00	328230	45303	282927
585.3	Chronic renal failure [CKD]	Genitourinary	0.97	0.93	1.00	316664	2585	314079
291.8	Alteration of consciousness	Mental Disorders	1.09	0.99	1.20	321904	434	321470
191	Malignant and unknown neoplasms of brain and nervous system	Neoplasms	0.89	0.78	1.01	326662	215	326447
193	Thyroid cancer	Neoplasms	0.91	0.83	1.01	327009	367	326642
189.4	Malignant neoplasm of other urinary organs	Neoplasms	0.97	0.94	1.00	327185	3223	323962
208	Benign neoplasm of colon	Neoplasms	0.99	0.97	1.00	325437	20827	304610
561	Symptoms involving digestive system	Digestive	1.02	1.00	1.03	272941	14545	258396
369.5	Conjunctivitis, infectious	Sense Organs	0.89	0.79	1.01	318612	224	318388
210	Benign neoplasm of lip, oral cavity, and pharynx	Neoplasms	1.06	0.99	1.13	327034	993	326041
575.1	Cholangitis	Digestive	1.08	0.99	1.19	310820	497	310323
695.9	Unspecified erythematous condition	Dermatologic	1.09	0.99	1.19	322226	477	321749
389.2	Conductive hearing loss	Sense Organs	1.09	0.99	1.20	318629	435	318194
872	Traumatic amputation	Injuries & Poisonings	1.08	0.99	1.19	320213	482	319731
415.21	Primary pulmonary hypertension	Circulatory System	0.93	0.85	1.01	322013	466	321547
722.9	Other and unspecified disc disorder	Musculoskeletal	1.03	0.99	1.06	314894	3950	310944
8.6	Viral Enteritis	Infectious Diseases	0.95	0.89	1.01	319924	845	319079
585.31	Renal dialysis	Genitourinary	0.93	0.86	1.01	314603	524	314079
564.1	Irritable Bowel Syndrome	Digestive	1.02	1.00	1.05	264057	5661	258396
687.4	Disturbance of skin sensation	Dermatologic	0.97	0.94	1.01	325793	2979	322814
695.42	Systemic lupus erythematosus	Dermatologic	0.92	0.83	1.02	320784	363	320421
477	Epistaxis or throat hemorrhage	Respiratory	0.97	0.93	1.01	311469	2519	308950
475	Chronic sinusitis	Respiratory	1.03	0.99	1.07	311580	2630	308950
198.2	Secondary malignancy of respiratory organs	Neoplasms	1.04	0.99	1.08	231589	2277	229312

201	Hodgkin's disease	Neoplasms	1.11	0.98	1.25	323794	271	323523
337	Disorders of the autonomic nervous system	Neurological	0.90	0.79	1.02	286359	207	286152
728.71	Contracture of palmar fascia [Dupuytren's disease]	Musculoskeletal	0.97	0.93	1.01	307403	2449	304954
572	Ascites (non malignant)	Digestive	1.04	0.99	1.10	319925	1594	318331
427.3	Other specified cardiac dysrhythmias	Circulatory System	0.97	0.94	1.01	302836	3315	299521
295.1	Schizophrenia	Mental Disorders	1.07	0.98	1.16	283509	611	282898
737	Curvature of spine	Musculoskeletal	1.06	0.99	1.14	317430	743	316687
411.2	Myocardial infarction	Circulatory System	0.99	0.97	1.00	307658	11969	295689
180.3	Cervical intraepithelial neoplasia [CIN] [Cervical dysplasia]	Neoplasms	0.97	0.93	1.01	299736	2153	297583
727.4	Ganglion and cyst of synovium, tendon, and bursa	Musculoskeletal	0.97	0.94	1.01	307936	2982	304954
473.3	Paralysis/spasm of vocal cords or larynx	Respiratory	1.10	0.97	1.25	309217	267	308950
338.2	Chronic pain	Neurological	1.08	0.98	1.20	327830	404	327426
344	Other paralytic syndromes	Neurological	0.94	0.88	1.02	286841	689	286152
781	Symptoms involving nervous and musculoskeletal systems	Symptoms	0.99	0.98	1.00	328238	22180	306058
626.13	Irregular menstrual cycle	Genitourinary	1.04	0.99	1.08	298189	1958	296231
443.9	Peripheral vascular disease, unspecified	Circulatory System	0.97	0.93	1.01	321969	2609	319360
360.2	Progressive myopia	Sense Organs	0.91	0.81	1.03	317032	250	316782
695.3	Rosacea	Dermatologic	0.92	0.83	1.02	322068	319	321749
275.5	Disorders of calcium/phosphorus metabolism	Endocrine/Metabolic	0.96	0.90	1.01	327144	1109	326035
559	Ileostomy status	Digestive	0.96	0.92	1.01	260069	1673	258396
520.2	Disturbances in tooth eruption	Digestive	1.03	0.99	1.07	314095	2437	311658
681	Superficial cellulitis and abscess	Dermatologic	0.95	0.88	1.02	317135	728	316407
681.5	Cellulitis and abscess of leg, except foot	Dermatologic	1.02	0.99	1.05	322184	5777	316407
804	Fracture of hand or wrist	Injuries & Poisonings	1.06	0.98	1.15	324232	675	323557
345.3	Convulsions	Neurological	1.03	0.99	1.08	288463	2311	286152
681.6	Cellulitis and abscess of foot, toe	Dermatologic	1.02	0.99	1.05	322141	5734	316407
348.9	Other conditions of brain, NOS	Neurological	0.93	0.85	1.02	286559	407	286152
433.8	Late effects of cerebrovascular disease	Circulatory System	0.96	0.91	1.01	319384	1277	318107
747	Cardiac and circulatory congenital anomalies	Congenital Anomalies	0.96	0.91	1.01	326576	1222	325354
250.11	Type 1 diabetes with ketoacidosis	Endocrine/Metabolic	0.91	0.81	1.03	307745	255	307490
850	Hemorrhage or hematoma complicating a procedure	Injuries & Poisonings	0.98	0.95	1.01	319328	5364	313964
297.2	Suicide or self-inflicted injury	Mental Disorders	1.03	0.99	1.07	285655	2757	282898
306	Other mental disorder	Mental Disorders	0.99	0.98	1.00	312303	29405	282898
374	Other disorders of eyelids	Sense Organs	0.97	0.94	1.01	321593	3205	318388
689	Disorder of skin and subcutaneous tissue NOS	Dermatologic	1.01	1.00	1.02	328240	42194	286046
8.5	Bacterial enteritis	Infectious Diseases	0.97	0.93	1.01	321188	2109	319079
729	Other disorders of soft tissues	Musculoskeletal	0.99	0.98	1.00	327478	22524	304954
365.2	Primary angle-closure glaucoma	Sense Organs	0.95	0.88	1.02	317491	709	316782

727.5	Rupture of synovium	Musculoskeletal	1.09	0.97	1.21	305298	344	304954
647.1	Infections of genitourinary tract during pregnancy	Pregnancy Complications	1.09	0.97	1.23	328128	284	327844
414	Other forms of chronic heart disease	Circulatory System	0.97	0.92	1.01	297457	1768	295689
562.1	Diverticulosis	Digestive	0.99	0.98	1.00	286281	27885	258396
569.2	Gastrointestinal complications	Digestive	1.07	0.98	1.18	247132	472	246660
364.5	Corneal dystrophy	Sense Organs	1.11	0.96	1.27	316998	216	316782
362.4	Retinal vascular changes and abnomalities	Sense Organs	1.05	0.98	1.12	316733	881	315852
276.14	Hypopotassemia	Endocrine/Metabolic	0.96	0.92	1.01	322115	1471	320644
351	Other peripheral nerve disorders	Neurological	0.99	0.97	1.00	325903	12892	313011
681.3	Cellulitis and abscess of arm/hand	Dermatologic	1.02	0.99	1.05	322177	5770	316407
394	Rheumatic disease of the heart valves	Circulatory System	0.96	0.90	1.02	322471	943	321528
858	Complication of internal orthopedic device	Injuries & Poisonings	1.03	0.99	1.06	317147	3183	313964
293	Symptoms involving head and neck	Mental Disorders	1.03	0.99	1.08	327323	2204	325119
386.2	Peripheral or central vertigo	Sense Organs	0.93	0.85	1.03	322036	387	321649
577.2	Chronic pancreatitis	Digestive	1.06	0.98	1.16	326456	536	325920
596.1	Bladder neck obstruction	Genitourinary	0.97	0.93	1.01	315665	2029	313636
411.9	Other acute and subacute forms of ischemic heart disease	Circulatory System	0.96	0.91	1.02	296883	1194	295689
386.9	Dizziness and giddiness (Light-headedness and vertigo)	Sense Organs	0.98	0.95	1.01	326388	4739	321649
674	Other complications of the puerperium NEC	Pregnancy Complications	1.09	0.97	1.23	328015	280	327735
585.1	Acute renal failure	Genitourinary	0.98	0.95	1.01	318744	4665	314079
574.2	Calculus of bile duct	Digestive	1.03	0.99	1.07	313011	2688	310323
622.2	Mucous polyp of cervix	Genitourinary	1.02	0.99	1.06	318829	3522	315307
569	Other disorders of intestine	Digestive	0.99	0.99	1.00	326148	79488	246660
715	Other inflammatory spondylopathies	Musculoskeletal	0.92	0.82	1.04	317524	271	317253
70.4	Chronic hepatitis	Infectious Diseases	1.09	0.96	1.22	322496	290	322206
530.2	Esophageal bleeding (varices/hemorrhage)	Digestive	1.03	0.99	1.09	289525	1722	287803
427.5	Arrhythmia (cardiac) NOS	Circulatory System	1.05	0.98	1.12	300469	948	299521
967	Adverse effects of sedatives or other central nervous system depressants and anesthetics	Injuries & Poisonings	0.95	0.87	1.02	300790	579	300211
564.9	Personal history of diseases of digestive system	Digestive	0.99	0.97	1.00	274320	15924	258396
599.5	Frequency of urination and polyuria	Genitourinary	0.98	0.95	1.01	224574	4147	220427
362.2	Degeneration of macula and posterior pole of retina	Sense Organs	0.97	0.93	1.01	318055	2203	315852
803.2	Fracture of radius and ulna	Injuries & Poisonings	0.96	0.90	1.02	324441	884	323557
362.29	Macular degeneration (senile) of retina NOS	Sense Organs	0.97	0.93	1.01	318052	2200	315852
619.5	Noninflammatory disorders of vulva and perineum	Genitourinary	0.96	0.92	1.02	279927	1379	278548
681.1	Cellulitis and abscess of fingers/toes	Dermatologic	0.95	0.87	1.03	316989	582	316407
695.7	Prurigo and Lichen	Dermatologic	0.95	0.89	1.02	322541	792	321749
605	Erectile dysfunction [ED]	Genitourinary	0.93	0.83	1.04	308197	291	307906
508	Pulmonary collapse; interstitial and compensatory emphysema	Respiratory	0.97	0.93	1.01	318570	2086	316484

535	Gastritis and duodenitis	Digestive	1.01	0.99	1.03	314259	17748	296511
573.7	Abnormal results of function study of liver	Digestive	0.98	0.95	1.01	321896	3565	318331
733	Other disorders of bone and cartilage	Musculoskeletal	1.06	0.97	1.15	316001	569	315432
782.3	Edema	Symptoms	0.97	0.92	1.02	328067	1715	326352
740.1	Osteoarthritis; localized	Musculoskeletal	0.99	0.97	1.01	315797	9472	306325
550.2	Diaphragmatic hernia	Digestive	0.99	0.98	1.00	307453	27664	279789
242	Thyrotoxicosis with or without goiter	Endocrine/Metabolic	0.97	0.92	1.02	311794	1465	310329
593	Hematuria	Genitourinary	1.01	0.99	1.03	313795	16760	297035
555.21	Ulcerative colitis (chronic)	Digestive	1.06	0.97	1.15	258967	571	258396
571	Chronic liver disease and cirrhosis	Digestive	1.06	0.97	1.15	318871	540	318331
369	Infection of the eye	Sense Organs	0.92	0.82	1.04	318642	254	318388
241.1	Nontoxic uninodular goiter	Endocrine/Metabolic	0.95	0.87	1.03	310840	511	310329
701.4	Keloid scar	Dermatologic	1.09	0.95	1.25	323292	228	323064
626.14	Irregular menstrual bleeding	Genitourinary	1.02	0.99	1.05	300177	3946	296231
420.2	Pericarditis	Circulatory System	1.04	0.98	1.11	326070	1087	324983
938	Dermatitis due to solar radiation	Injuries & Poisonings	1.03	0.99	1.07	324444	2538	321906
747.1	Cardiac congenital anomalies	Congenital Anomalies	1.10	0.95	1.26	325565	211	325354
198	Secondary malignant neoplasm	Neoplasms	0.96	0.91	1.02	230431	1119	229312
172.3	Carcinoma in situ of skin	Neoplasms	0.95	0.88	1.03	314884	664	314220
80	Postoperative infection	Infectious Diseases	0.98	0.95	1.01	326101	4622	321479
960	Poisoning by antibiotics	Injuries & Poisonings	0.98	0.95	1.01	303739	3528	300211
636.2	Early onset of delivery	Pregnancy Complications	1.05	0.97	1.14	320594	629	319965
429.2	Abnormal function study of cardiovascular system	Circulatory System	0.95	0.87	1.03	322577	544	322033
830	Dislocation	Injuries & Poisonings	1.03	0.98	1.07	323927	2154	321773
202.2	Non-Hodgkins lymphoma	Neoplasms	0.98	0.95	1.01	327055	3532	323523
507	Pleurisy; pleural effusion	Respiratory	0.98	0.96	1.01	323091	6607	316484
250.23	Type 2 diabetes with ophthalmic manifestations	Endocrine/Metabolic	1.04	0.98	1.09	308834	1344	307490
342	Hemiplegia	Neurological	0.97	0.92	1.02	287677	1525	286152
357	Inflammatory and toxic neuropathy	Neurological	1.03	0.98	1.09	327375	1423	325952
720	Spinal stenosis	Musculoskeletal	1.05	0.97	1.13	311636	692	310944
504	Other alveolar and parietoalveolar pneumonopathy	Respiratory	1.08	0.96	1.21	316793	309	316484
701.2	Scar conditions and fibrosis of skin	Dermatologic	1.03	0.99	1.07	325471	2407	323064
70.9	Hepatitis NOS	Infectious Diseases	1.06	0.97	1.17	322658	452	322206
805	Fracture of vertebral column without mention of spinal cord injury	Injuries & Poisonings	0.94	0.84	1.04	323890	333	323557
965.1	Opiates and related narcotics causing adverse effects in therapeutic use	Injuries & Poisonings	0.96	0.91	1.02	301372	1161	300211
871	Open wounds of extremities	Injuries & Poisonings	1.02	0.99	1.05	323873	4142	319731
303.3	Psychogenic disorder	Mental Disorders	1.04	0.97	1.12	283739	841	282898
395.6	Heart valve replaced	Circulatory System	0.97	0.92	1.02	323056	1528	321528

275.1	Disorders of iron metabolism	Hematopoietic	0.95	0.89	1.03	326735	700	326035
627.2	Symptomatic menopause	Genitourinary	0.92	0.80	1.05	296434	203	296231
426.4	Anomalous atrioventricular excitation	Circulatory System	0.93	0.82	1.05	299761	240	299521
333.1	Essential tremor	Neurological	1.09	0.95	1.25	286370	218	286152
614.1	Pelvic peritoneal adhesions, female (postoperative) (postinfection)	Genitourinary	1.03	0.99	1.07	321370	2571	318799
785	Abdominal pain	Symptoms	1.01	1.00	1.02	328240	42311	285929
636.3	Hemorrhage in early pregnancy	Pregnancy Complications	0.96	0.91	1.02	321078	1113	319965
859	Complication due to other implant and internal device	Injuries & Poisonings	1.02	0.99	1.06	317302	3338	313964
372	Disorders of conjunctiva	Sense Organs	0.96	0.91	1.02	319431	1043	318388
611.3	Lump or mass in breast	Genitourinary	1.03	0.98	1.08	322461	1588	320873
578	Gastrointestinal hemorrhage	Digestive	0.93	0.83	1.04	303679	285	303394
170.2	Cancer of connective tissue	Neoplasms	1.05	0.97	1.13	328122	734	327388
394.7	Disease of tricuspid valve	Circulatory System	0.96	0.91	1.02	322614	1086	321528
380.4	Impacted cerumen	Sense Organs	0.94	0.85	1.04	327106	354	326752
276.13	Hyperpotassemia	Endocrine/Metabolic	1.04	0.98	1.11	321623	979	320644
965.2	Antirheumatics causing adverse effects in therapeutic use	Injuries & Poisonings	1.06	0.97	1.16	300710	499	300211
578.8	Hemorrhage of rectum and anus	Digestive	0.99	0.97	1.01	317220	13826	303394
389.4	Tinnitus	Sense Organs	0.95	0.87	1.03	318735	541	318194
250.1	Type 1 diabetes	Endocrine/Metabolic	1.02	0.99	1.06	310189	2699	307490
681.2	Cellulitis and abscess of face/neck	Dermatologic	0.95	0.87	1.03	316936	529	316407
430.2	Intracerebral hemorrhage	Circulatory System	0.96	0.89	1.03	318830	723	318107
530	Diseases of esophagus	Digestive	0.96	0.90	1.03	288604	801	287803
274.1	Gout	Endocrine/Metabolic	0.97	0.93	1.02	327930	1668	326262
751.12	Congenital anomalies of male genital organs	Congenital Anomalies	0.93	0.82	1.05	326231	228	326003
495.2	Asthma with exacerbation	Respiratory	1.08	0.95	1.22	294453	261	294192
474.1	Acute tonsillitis	Respiratory	1.05	0.97	1.14	309515	565	308950
416	Cardiomegaly	Circulatory System	0.98	0.94	1.02	324157	2610	321547
578.9	Hemorrhage of gastrointestinal tract	Digestive	1.02	0.99	1.04	308849	5455	303394
596.5	Functional disorders of bladder	Genitourinary	1.03	0.98	1.08	315318	1682	313636
941	Adverse reaction to serum or vaccine	Injuries & Poisonings	1.08	0.95	1.24	322128	222	321906
289.5	Diseases of spleen	Hematopoietic	1.05	0.96	1.15	320846	528	320318
687.1	Rash and other nonspecific skin eruption	Dermatologic	1.03	0.98	1.07	325032	2218	322814
573	Other disorders of liver	Digestive	1.02	0.99	1.05	323533	5202	318331
574	Cholelithiasis and cholecystitis	Digestive	0.94	0.86	1.04	310726	403	310323
761	Cervicalgia	Symptoms	0.96	0.91	1.03	328240	1005	327235
745	Pain in joint	Musculoskeletal	0.97	0.93	1.02	328240	1940	326300
870.3	Other open wound of head and face	Injuries & Poisonings	1.02	0.99	1.06	322782	3051	319731
324	Other CNS infection and poliomyelitis	Neurological	0.94	0.84	1.05	327426	288	327138

211	Benign neoplasm of other parts of digestive system	Neoplasms	0.98	0.96	1.01	319683	5375	314308
521.1	Dental caries	Digestive	1.02	0.99	1.06	314912	3254	311658
411.41	Aneurysm and dissection of heart	Circulatory System	0.96	0.89	1.03	296410	721	295689
331.9	Cerebral degeneration, unspecified	Neurological	1.06	0.96	1.17	286569	417	286152
286.7	Other and unspecified coagulation defects	Hematopoietic	1.06	0.96	1.17	325902	405	325497
389.1	Sensorineural hearing loss	Sense Organs	1.06	0.96	1.16	318658	464	318194
184.1	Malignant neoplasm of ovary and other uterine adnexa	Neoplasms	0.98	0.94	1.02	308106	2553	305553
709.2	Sicca syndrome	Dermatologic	0.95	0.87	1.04	242486	520	241966
275.3	Disorders of magnesium metabolism	Endocrine/Metabolic	0.94	0.85	1.04	326410	375	326035
426.9	Cardiac pacemaker/device in situ	Circulatory System	1.08	0.95	1.23	299758	237	299521
557.1	Celiac disease	Digestive	0.97	0.93	1.02	260290	1894	258396
742.8	Articular cartilage disorder	Musculoskeletal	1.05	0.97	1.13	311297	655	310642
595	Hydronephrosis	Genitourinary	0.98	0.93	1.02	321941	2010	319931
627.3	Postmenopausal atrophic vaginitis	Genitourinary	1.03	0.97	1.10	297359	1128	296231
136	Other infectious and parasitic diseases	Infectious Diseases	0.95	0.86	1.04	327982	428	327554
352.2	Facial nerve disorders [CN7]	Neurological	0.96	0.90	1.03	313911	900	313011
528.6	Leukoplakia of oral mucosa	Digestive	1.07	0.95	1.19	322846	312	322534
939	Atopic/contact dermatitis due to other or unspecified	Dermatologic	1.02	0.98	1.07	324060	2154	321906
743.9	Osteopenia or other disorder of bone and cartilage	Musculoskeletal	1.02	0.99	1.05	328188	3989	324199
614.33	Pelvic inflammatory disease, NOS	Genitourinary	1.01	0.99	1.04	324944	6145	318799
701.5	Abnormal granulation tissue	Dermatologic	0.95	0.87	1.04	323543	479	323064
526.41	Temporomandibular joint disorder, unspecified	Digestive	1.08	0.94	1.23	311886	228	311658
509.1	Respiratory failure	Respiratory	1.02	0.98	1.07	318564	2080	316484
454	Varicose veins	Circulatory System	0.97	0.93	1.02	289316	1603	287713
626.8	Infertility, female	Genitourinary	0.97	0.92	1.02	297638	1407	296231
252.1	Hyperparathyroidism	Endocrine/Metabolic	1.04	0.97	1.11	325359	814	324545
738	Other acquired musculoskeletal deformity	Musculoskeletal	0.95	0.86	1.04	317104	417	316687
215	Other benign neoplasm of connective and other soft tissue	Neoplasms	0.97	0.91	1.03	321804	1128	320676
323	Encephalitis	Neurological	1.04	0.97	1.11	327999	861	327138
523.32	Chronic periodontitis	Digestive	0.96	0.88	1.04	312248	590	311658
365	Glaucoma	Sense Organs	0.98	0.96	1.01	321340	4558	316782
312	Conduct disorders	Mental Disorders	1.03	0.97	1.09	327638	1195	326443
577.3	Cyst and pseudocyst of pancreas	Digestive	1.06	0.95	1.17	326295	375	325920
374.1	Ectropion or entropion	Sense Organs	0.97	0.91	1.03	319480	1092	318388
575.6	Cholesterolosis of gallbladder	Digestive	1.05	0.96	1.15	310789	466	310323
189	Cancer of urinary organs (incl. kidney and bladder)	Neoplasms	0.98	0.95	1.02	326965	3003	323962
573.9	Abnormal serum enzyme levels	Digestive	1.07	0.94	1.22	318561	230	318331
440.9	Atherosclerosis of aorta	Circulatory System	1.08	0.93	1.24	319562	202	319360

540.11	Acute appendicitis	Digestive	1.02	0.98	1.06	327037	2658	324379
452	Other venous embolism and thrombosis	Circulatory System	1.04	0.96	1.14	288267	554	287713
300.1	Anxiety disorder	Mental Disorders	0.99	0.96	1.01	288368	5470	282898
579.2	Splenomegaly	Digestive	0.95	0.87	1.05	303837	443	303394
989	Toxic effect of other substances, chiefly nonmedicinal as to source	Injuries & Poisonings	1.03	0.97	1.08	328136	1438	326698
388	Other disorders of ear	Sense Organs	0.99	0.97	1.01	328080	9886	318194
285.1	Acute posthemorrhagic anemia	Hematopoietic	0.94	0.84	1.06	309167	267	308900
531.3	Duodenal ulcer	Digestive	0.98	0.95	1.02	323644	3095	320549
732	Osteochondropathies	Musculoskeletal	0.94	0.82	1.07	315651	219	315432
374.3	Ptosis of eyelid	Sense Organs	1.02	0.98	1.07	320284	1896	318388
320	Meningitis	Neurological	1.05	0.95	1.16	327577	439	327138
375.2	Epiphora	Sense Organs	0.97	0.91	1.03	289094	902	288192
426.21	First degree AV block	Circulatory System	0.97	0.91	1.03	300526	1005	299521
586.4	Stricture/obstruction of ureter	Genitourinary	0.97	0.91	1.03	315018	939	314079
788	Syncope and collapse	Symptoms	0.99	0.97	1.01	328240	9372	318868
618.5	Prolapse of vaginal vault after hysterectomy	Genitourinary	1.05	0.96	1.14	316743	501	316242
345.1	Epilepsy	Neurological	0.95	0.85	1.05	286483	331	286152
721.1	Spondylosis without myelopathy	Musculoskeletal	0.97	0.91	1.03	312014	1070	310944
747.11	Cardiac shunt/ heart septal defect	Congenital Anomalies	0.96	0.89	1.04	325935	581	325354
433	Cerebrovascular disease	Circulatory System	0.99	0.97	1.01	326753	8646	318107
430.1	Subarachnoid hemorrhage	Circulatory System	1.04	0.97	1.11	318931	824	318107
250.42	Other abnormal glucose	Endocrine/Metabolic	1.05	0.95	1.15	307927	437	307490
696.4	Psoriasis	Dermatologic	0.98	0.93	1.02	315554	1622	313932
599.3	Dysuria	Genitourinary	1.03	0.97	1.09	221636	1209	220427
251.1	Hypoglycemia	Endocrine/Metabolic	1.03	0.97	1.10	305952	977	304975
394.3	Aortic valve disease	Circulatory System	0.97	0.92	1.03	322836	1308	321528
596	Other disorders of bladder	Genitourinary	1.01	0.99	1.03	321385	7749	313636
433.31	Transient cerebral ischemia	Circulatory System	1.02	0.98	1.07	320281	2174	318107
458.1	Orthostatic hypotension	Circulatory System	1.03	0.97	1.08	195553	1374	194179
279.7	Other immunological findings	Endocrine/Metabolic	1.06	0.94	1.20	327978	264	327714
771.1	Swelling of limb	Symptoms	0.97	0.90	1.03	327356	842	326514
751.22	Other specified congenital anomalies of kidney	Congenital Anomalies	1.05	0.95	1.17	326353	350	326003
735.23	Hallux rigidus	Musculoskeletal	1.02	0.97	1.08	318243	1556	316687
41.1	Staphylococcus infections	Infectious Diseases	1.02	0.98	1.05	315832	3200	312632
381.9	Otorrhea	Sense Organs	0.95	0.84	1.06	324420	277	324143
470	Septal Deviations/Turbinate Hypertrophy	Respiratory	0.99	0.96	1.01	313771	4821	308950
574.1	Cholelithiasis	Digestive	0.99	0.97	1.01	319629	9306	310323
411.3	Angina pectoris	Circulatory System	0.99	0.98	1.01	312048	16359	295689

304	Adjustment reaction	Mental Disorders	1.06	0.94	1.18	283221	323	282898
653	Problems associated with amniotic cavity and membranes	Pregnancy Complications	0.98	0.93	1.03	328119	1523	326596
594	Urinary calculus	Genitourinary	0.99	0.97	1.01	326897	6966	319931
497	Bronchitis	Respiratory	0.96	0.89	1.04	294834	642	294192
613.7	Other signs and symptoms in breast	Genitourinary	1.04	0.96	1.11	323169	751	322418
614.3	Pelvic inflammatory disease (PID)	Genitourinary	1.06	0.94	1.21	319048	249	318799
184.11	Malignant neoplasm of ovary	Neoplasms	0.99	0.96	1.01	310562	5009	305553
472	Chronic pharyngitis and nasopharyngitis	Respiratory	1.03	0.97	1.10	309897	947	308950
686.3	Pilonidal cyst	Dermatologic	1.04	0.96	1.13	317024	617	316407
296.22	Major depressive disorder	Mental Disorders	1.05	0.95	1.16	283282	384	282898
301	Personality disorders	Mental Disorders	1.05	0.95	1.15	283330	432	282898
496.3	Bronchiectasis	Respiratory	1.02	0.98	1.07	296077	1885	294192
564	Functional digestive disorders	Digestive	0.97	0.91	1.03	259379	983	258396
726	Peripheral enthesopathies and allied syndromes	Musculoskeletal	0.99	0.97	1.01	313722	8768	304954
289.4	Lymphadenitis	Hematopoietic	0.98	0.95	1.02	323033	2715	320318
613.8	Other specified disorders of breast	Genitourinary	1.05	0.94	1.17	322773	355	322418
513.4	Hyperventilation	Respiratory	1.06	0.94	1.19	327904	280	327624
604.1	Redundant prepuce and phimosis/BXO	Genitourinary	0.98	0.95	1.02	310716	2810	307906
578.2	Blood in stool	Digestive	1.02	0.98	1.06	306143	2749	303394
474.2	Chronic tonsillitis and adenoiditis	Respiratory	1.03	0.97	1.09	310135	1185	308950
550.1	Inguinal hernia	Digestive	1.01	0.99	1.02	296174	16385	279789
531	Peptic ulcer (excl. esophageal)	Digestive	0.95	0.84	1.06	320833	284	320549
575.2	Obstruction of bile duct	Digestive	0.97	0.90	1.04	311135	812	310323
556.1	Ulceration of intestine	Digestive	1.04	0.96	1.12	259087	691	258396
696.41	Psoriasis vulgaris	Dermatologic	0.98	0.93	1.03	315655	1723	313932
242.1	Graves' disease	Endocrine/Metabolic	0.96	0.88	1.05	310789	460	310329
8.52	Intestinal infection due to C. difficile	Infectious Diseases	0.97	0.89	1.04	319727	648	319079
255.21	Glucocorticoid deficiency	Endocrine/Metabolic	1.05	0.95	1.16	324917	372	324545
741.4	Joint effusions	Musculoskeletal	0.95	0.85	1.06	310925	283	310642
331	Other cerebral degenerations	Neurological	0.95	0.83	1.07	286392	240	286152
722.6	Degeneration of intervertebral disc	Musculoskeletal	0.98	0.95	1.02	313866	2922	310944
726.3	Bursitis	Musculoskeletal	0.96	0.89	1.05	305497	543	304954
187.1	Malignant neoplasm of unspecified male genital organ	Neoplasms	1.01	0.99	1.03	327699	8481	319218
427.8	Sinoatrial node dysfunction (Bradycardia)	Circulatory System	0.96	0.87	1.05	299940	419	299521
195	Cancer, suspected or other	Neoplasms	1.03	0.96	1.10	230227	915	229312
789	Nausea and vomiting	Symptoms	0.99	0.97	1.01	328240	11983	316257
426.24	Atrioventricular block, complete	Circulatory System	0.96	0.89	1.05	300112	591	299521
531.4	Peptic ulcer, site unspecified	Digestive	0.96	0.88	1.05	320998	449	320549

614.4	Inflammatory diseases of uterus, except cervix	Genitourinary	0.95	0.85	1.06	319107	308	318799
367.1	Myopia	Sense Organs	0.98	0.92	1.03	327025	1271	325754
315	Develomental delays and disorders	Mental Disorders	0.96	0.89	1.05	326992	549	326443
300.12	Agorophobia, social phobia, and panic disorder	Mental Disorders	0.97	0.90	1.04	283642	744	282898
509.8	Dependence on respirator [Ventilator] or supplemental oxygen	Respiratory	1.05	0.95	1.16	316885	401	316484
296	Mood disorders	Mental Disorders	1.01	0.99	1.03	295853	12955	282898
722	Intervertebral disc disorders	Musculoskeletal	1.01	0.99	1.04	316907	5963	310944
526.9	Jaw disease NOS	Digestive	0.99	0.98	1.01	327620	15962	311658
771	Musculoskeletal symptoms referable to limbs	Symptoms	0.97	0.91	1.04	327405	891	326514
153.3	Malignant neoplasm of rectum, rectosigmoid junction, and anus	Neoplasms	0.98	0.94	1.02	303397	2117	301280
386.3	Labyrinthitis	Sense Organs	1.03	0.96	1.11	322440	791	321649
717	Polymyalgia Rheumatica	Musculoskeletal	0.98	0.92	1.03	328240	1147	327093
527.2	Sialoadenitis	Digestive	0.96	0.87	1.06	322908	374	322534
444	Arterial embolism and thrombosis	Circulatory System	0.96	0.87	1.05	319794	434	319360
496	Chronic airway obstruction	Respiratory	0.99	0.97	1.01	301827	7635	294192
218	Benign neoplasm of uterus	Neoplasms	1.05	0.94	1.16	308168	388	307780
366.2	Senile cataract	Sense Organs	0.99	0.97	1.01	315842	8458	307384
526	Diseases of the jaws	Digestive	0.99	0.98	1.01	327645	15987	311658
443.1	Raynaud's syndrome	Circulatory System	0.98	0.92	1.03	320525	1165	319360
379	Other disorders of eye	Sense Organs	1.00	0.98	1.01	328190	39998	288192
427.7	Tachycardia NOS	Circulatory System	0.98	0.94	1.02	301787	2266	299521
749	Congenital anomalies of face and neck	Congenital Anomalies	0.95	0.85	1.07	328137	271	327866
216	Benign neoplasm of skin	Neoplasms	1.01	0.99	1.03	327614	7865	319749
703.1	Ingrowing nail	Dermatologic	1.03	0.96	1.09	322439	1010	321429
447	Other disorders of arteries and arterioles	Circulatory System	0.97	0.89	1.05	319916	556	319360
760	Back pain	Symptoms	0.99	0.96	1.01	328240	5923	322317
331.1	Hydrocephalus	Neurological	1.04	0.95	1.14	286652	500	286152
228	Hemangioma and lymphangioma, any site	Neoplasms	1.02	0.97	1.07	328240	1635	326605
378.1	Strabismus (not specified as paralytic)	Sense Organs	0.97	0.91	1.04	289139	947	288192
379.2	Disorders of vitreous body	Sense Organs	0.98	0.93	1.03	289599	1407	288192
368	Visual disturbances	Sense Organs	1.03	0.97	1.09	325963	1081	324882
377	Disorders of optic nerve and visual pathways	Sense Organs	0.96	0.88	1.06	288628	436	288192
949	Allergies, other	Injuries & Poisonings	0.96	0.87	1.06	322326	420	321906
426.91	Cardiac pacemaker in situ	Circulatory System	0.98	0.94	1.02	301837	2316	299521
345	Epilepsy, recurrent seizures, convulsions	Neurological	0.99	0.95	1.02	289613	3461	286152
427.6	Premature beats	Circulatory System	1.04	0.95	1.14	299979	458	299521
528.11	Stomatitis and mucositis (ulcerative)	Digestive	0.96	0.87	1.06	322945	411	322534
590	Pyelonephritis	Genitourinary	0.99	0.96	1.02	300960	3925	297035

514	Abnormal findings examination of lungs	Respiratory	1.02	0.98	1.06	328212	2577	325635
433.21	Cerebral artery occlusion, with cerebral infarction	Circulatory System	1.02	0.97	1.07	319641	1534	318107
870	Open wounds of head; neck; and trunk	Injuries & Poisonings	0.97	0.89	1.05	320327	596	319731
592.13	Chronic interstitial cystitis	Genitourinary	1.05	0.93	1.19	297289	254	297035
250.41	Impaired fasting glucose	Endocrine/Metabolic	1.05	0.93	1.19	307758	268	307490
529	Diseases and other conditions of the tongue	Digestive	1.03	0.96	1.10	323485	951	322534
172.2	Other non-epithelial cancer of skin	Neoplasms	0.99	0.97	1.01	325462	11242	314220
182	Malignant neoplasm of uterus	Neoplasms	0.98	0.93	1.03	298948	1303	297645
306.9	Tension headache	Mental Disorders	1.05	0.93	1.17	283203	305	282898
610.1	Cystic mastopathy	Genitourinary	1.03	0.96	1.09	321832	959	320873
619.3	Noninflammatory disorders of cervix	Genitourinary	1.02	0.98	1.05	281393	2845	278548
285.2	Anemia of chronic disease	Hematopoietic	1.05	0.93	1.18	309194	294	308900
686.4	Pyogenic granuloma	Dermatologic	0.96	0.87	1.06	316787	380	316407
476	Allergic rhinitis	Respiratory	0.98	0.92	1.04	310025	1075	308950
289	Other diseases of blood and blood-forming organs	Hematopoietic	1.01	0.98	1.04	325300	4982	320318
579.8	Nonspecific abnormal findings in stool contents	Digestive	1.02	0.97	1.07	305134	1740	303394
728.7	Fasciitis	Musculoskeletal	1.05	0.92	1.21	305167	213	304954
627	Menopausal and postmenopausal disorders	Genitourinary	1.03	0.96	1.10	297078	847	296231
290.1	Dementias	Mental Disorders	1.03	0.95	1.11	322121	651	321470
624.2	Atrophy of female genital tract	Genitourinary	0.97	0.88	1.06	319111	442	318669
979	Adverse drug events and drug allergies	Injuries & Poisonings	1.03	0.95	1.11	300927	716	300211
618	Genital prolapse	Genitourinary	0.97	0.90	1.05	316862	620	316242
227.2	Benign neoplasm of parathyroid gland	Neoplasms	1.04	0.94	1.15	327032	390	326642
798.1	Chronic fatigue syndrome	Symptoms	0.97	0.90	1.05	325335	606	324729
418	Nonspecific chest pain	Circulatory System	1.00	0.98	1.01	326032	30212	295820
246	Other disorders of thyroid	Endocrine/Metabolic	0.99	0.98	1.01	327738	17409	310329
451	Phlebitis and thrombophlebitis	Circulatory System	0.96	0.87	1.06	288110	397	287713
287.3	Thrombocytopenia	Hematopoietic	1.02	0.97	1.08	326768	1271	325497
480	Pneumonia	Respiratory	0.99	0.96	1.02	321603	3914	317689
619.1	Noninflammatory disorders of ovary, fallopian tube, and broad ligament	Genitourinary	0.97	0.91	1.05	279282	734	278548
938.2	Chronic dermatitis due to solar radiation	Injuries & Poisonings	0.96	0.85	1.08	322170	264	321906
117	Mycoses	Infectious Diseases	1.01	0.98	1.05	328235	2735	325500
530.3	Stricture and stenosis of esophagus	Digestive	0.98	0.94	1.03	289757	1954	287803
368.9	Subjective visual disturbances	Sense Organs	0.97	0.90	1.05	325515	633	324882
531.1	Hemorrhage from gastrointestinal ulcer	Digestive	0.97	0.90	1.05	321204	655	320549
496.2	Chronic bronchitis	Respiratory	0.96	0.86	1.07	294485	293	294192
626.12	Excessive or frequent menstruation	Genitourinary	1.01	0.99	1.03	306272	10041	296231
512.1	Wheezing	Respiratory	1.05	0.92	1.20	314499	231	314268

800.3	Fracture of tibia and fibula	Injuries & Poisonings	1.03	0.95	1.12	324092	535	323557
599	Other symptoms/disorders or the urinary system	Genitourinary	1.00	1.00	1.01	324256	103829	220427
350.2	Abnormality of gait	Neurological	1.02	0.97	1.07	327077	1633	325444
751.1	Congenital anomalies of genital organs	Congenital Anomalies	0.97	0.91	1.05	326709	706	326003
379.5	Disorders of iris and ciliary body	Sense Organs	1.04	0.94	1.14	288604	412	288192
803	Fracture of upper limb	Injuries & Poisonings	0.97	0.88	1.06	323990	433	323557
790.6	Other abnormal blood chemistry	Symptoms	0.99	0.97	1.02	328029	6529	321500
687	Symptoms affecting skin	Dermatologic	0.95	0.84	1.09	323032	218	322814
702.2	Seborrheic keratosis	Dermatologic	0.99	0.95	1.02	325769	3169	322600
200.1	Polycythemia vera	Neoplasms	1.04	0.94	1.14	318136	404	317732
198.6	Secondary malignancy of bone	Neoplasms	1.02	0.97	1.06	231505	2193	229312
333.4	Torsion dystonia	Neurological	1.04	0.92	1.18	286417	265	286152
735.2	Acquired toe deformities	Musculoskeletal	1.01	0.97	1.06	318913	2226	316687
446.5	Giant cell arteritis	Circulatory System	1.04	0.94	1.15	319750	390	319360
256.4	Polycystic ovaries	Endocrine/Metabolic	1.05	0.92	1.20	324764	219	324545
557	Intestinal malabsorption (non-celiac)	Digestive	1.04	0.93	1.17	258690	294	258396
90	Sexually transmitted infections (not HIV or hepatitis)	Infectious Diseases	0.96	0.86	1.08	328239	298	327941
618.6	Vaginal enterocele, congenital or acquired	Genitourinary	1.03	0.95	1.11	316909	667	316242
218.1	Uterine leiomyoma	Neoplasms	1.01	0.99	1.03	318346	10566	307780
801	Fracture of ankle and foot	Injuries & Poisonings	0.96	0.85	1.08	323808	251	323557
379.3	Aphakia and other disorders of lens	Sense Organs	1.00	0.98	1.01	308920	20728	288192
528.5	Diseases of lips	Digestive	0.97	0.90	1.05	323215	681	322534
580.32	Nephritis and nephropathy with pathological lesion	Genitourinary	0.98	0.92	1.04	315157	1078	314079
800	Fracture of lower limb	Injuries & Poisonings	1.03	0.95	1.11	324256	699	323557
250.7	Diabetic retinopathy	Endocrine/Metabolic	1.02	0.97	1.07	317232	1380	315852
592.12	Chronic cystitis	Genitourinary	0.98	0.92	1.04	297948	913	297035
618.1	Prolapse of vaginal walls	Genitourinary	0.99	0.97	1.02	323726	7484	316242
285	Other anemias	Hematopoietic	1.01	0.99	1.02	320744	11844	308900
592.1	Cystitis	Genitourinary	1.01	0.97	1.06	299089	2054	297035
333	Extrapyramidal disease and abnormal movement disorders	Neurological	1.01	0.97	1.06	288187	2035	286152
598	Abnormal findings on examination of urine	Genitourinary	0.99	0.96	1.02	328240	3386	324854
571.81	Portal hypertension	Digestive	1.03	0.95	1.12	318900	569	318331
296.2	Depression	Mental Disorders	1.01	0.99	1.02	295043	12145	282898
240	Simple and unspecified goiter	Endocrine/Metabolic	1.03	0.95	1.11	310951	622	310329
375	Disorders of lacrimal system	Sense Organs	0.98	0.94	1.03	289852	1660	288192
512.8	Cough	Respiratory	1.01	0.98	1.05	317232	2964	314268
415	Pulmonary heart disease	Circulatory System	1.01	0.98	1.04	325300	3753	321547
54	Herpes simplex	Infectious Diseases	0.96	0.84	1.09	322425	219	322206

614.53	Cyst or abscess of Bartholin's gland	Genitourinary	1.02	0.95	1.10	319602	803	318799
626.1	Irregular menstrual cycle/bleeding	Genitourinary	1.01	0.98	1.05	299824	3593	296231
290	Delirium dementia and amnestic and other cognitive disorders	Mental Disorders	1.03	0.94	1.13	321950	480	321470
359.2	Myopathy	Neurological	1.03	0.94	1.13	326450	498	325952
714.1	Rheumatoid arthritis	Musculoskeletal	1.01	0.97	1.06	319560	2307	317253
327	Sleep disorders	Neurological	0.98	0.92	1.04	323754	1034	322720
292.2	Mild cognitive impairment	Mental Disorders	1.05	0.91	1.20	321672	202	321470
722.1	Displacement of intervertebral disc	Musculoskeletal	0.97	0.89	1.06	311460	516	310944
340	Migraine	Neurological	1.01	0.97	1.05	320723	2773	317950
187.2	Malignant neoplasm of testis	Neoplasms	0.99	0.96	1.02	323790	4572	319218
577	Diseases of pancreas	Digestive	0.97	0.90	1.06	326478	558	325920
365.11	Primary open angle glaucoma	Sense Organs	0.98	0.92	1.04	317838	1056	316782
707.1	Decubitus ulcer	Dermatologic	1.04	0.93	1.16	327025	326	326699
386.1	Meniere's disease	Sense Organs	1.03	0.94	1.12	322213	564	321649
568.1	Peritoneal adhesions (postoperative) (postinfection)	Digestive	1.01	0.98	1.05	249757	3097	246660
565.1	Anal and rectal polyp	Digestive	0.99	0.97	1.02	254329	7669	246660
185	Cancer of prostate	Neoplasms	1.01	0.98	1.03	315856	8463	307393
721	Spondylosis and allied disorders	Musculoskeletal	1.02	0.96	1.09	311869	925	310944
614.5	Inflammatory disease of cervix, vagina, and vulva	Genitourinary	0.97	0.87	1.08	319133	334	318799
411.1	Unstable angina (intermediate coronary syndrome)	Circulatory System	1.01	0.98	1.04	301011	5322	295689
280.1	Iron deficiency anemias, unspecified or not due to blood loss	Hematopoietic	1.01	0.98	1.03	316402	7502	308900
79	Viral infection	Infectious Diseases	0.99	0.96	1.02	326439	4233	322206
807	Fracture of ribs	Injuries & Poisonings	0.96	0.84	1.09	323780	223	323557
458.9	Hypotension NOS	Circulatory System	1.01	0.98	1.04	197817	3638	194179
290.11	Alzheimer's disease	Mental Disorders	1.03	0.93	1.14	321872	402	321470
958	Certain early complications of trauma or procedure	Injuries & Poisonings	0.97	0.88	1.07	328118	381	327737
614	Inflammatory diseases of female pelvic organs	Genitourinary	1.03	0.93	1.15	319173	374	318799
302	Sexual and gender identity disorders	Mental Disorders	0.97	0.87	1.08	283238	340	282898
425.1	Primary/intrinsic cardiomyopathies	Circulatory System	0.98	0.92	1.04	326036	1053	324983
389	Hearing loss	Sense Organs	0.99	0.96	1.02	321364	3170	318194
350.3	Lack of coordination	Neurological	0.97	0.87	1.07	325804	360	325444
371	Inflammation of the eye	Sense Organs	1.03	0.93	1.14	318796	408	318388
368.2	Diplopia and disorders of binocular vision	Sense Organs	1.02	0.95	1.10	325635	753	324882
627.4	Premenopausal menorrhagia	Genitourinary	0.97	0.87	1.08	296563	332	296231
530.9	Heartburn	Digestive	1.01	0.97	1.06	289911	2108	287803
615	Endometriosis	Genitourinary	1.01	0.98	1.04	322888	4089	318799
836	Traumatic arthropathy	Injuries & Poisonings	1.04	0.91	1.18	322016	243	321773
327.3	Sleep apnea	Neurological	0.99	0.96	1.02	327419	4699	322720

112	Candidiasis	Infectious Diseases	1.01	0.97	1.06	327650	2150	325500
245.21	Chronic lymphocytic thyroiditis	Endocrine/Metabolic	0.96	0.84	1.10	310548	219	310329
994.2	Sepsis	Injuries & Poisonings	1.01	0.97	1.05	328240	2885	325355
520	Disorders of tooth development	Digestive	1.03	0.94	1.13	312128	470	311658
395.2	Nonrheumatic aortic valve disorders	Circulatory System	0.97	0.85	1.09	321775	247	321528
420.21	Acute pericarditis	Circulatory System	0.96	0.85	1.10	325211	228	324983
353	Nerve root and plexus disorders	Neurological	0.98	0.92	1.05	314005	994	313011
752.11	Spina bifida	Congenital Anomalies	1.04	0.91	1.19	327886	211	327675
743.11	Osteoporosis NOS	Musculoskeletal	1.01	0.97	1.05	327235	3036	324199
198.3	Secondary malignant neoplasm of digestive systems	Neoplasms	0.99	0.94	1.04	230877	1565	229312
229	Benign neoplasm of unspecified sites	Neoplasms	1.00	0.99	1.01	328240	46165	282075
621	Endometrial hyperplasia	Genitourinary	1.02	0.96	1.08	316461	1154	315307
870.4	Open wound of nose and sinus	Injuries & Poisonings	0.97	0.85	1.09	319969	238	319731
550	Abdominal hernia	Digestive	1.00	0.99	1.01	328240	48451	279789
573.5	Jaundice (not of newborn)	Digestive	0.98	0.92	1.05	319269	938	318331
214	Lipoma	Neoplasms	1.01	0.97	1.06	322495	1819	320676
284	Aplastic anemia	Hematopoietic	1.00	0.99	1.02	321659	12759	308900
735	Acquired foot deformities	Musculoskeletal	0.97	0.87	1.09	316986	299	316687
823	Fracture of tibia and fibula	Injuries & Poisonings	1.03	0.93	1.15	322362	342	322020
726.2	Synoviopathy	Musculoskeletal	0.97	0.87	1.08	305285	331	304954
361	Retinal detachments and defects	Sense Organs	1.01	0.97	1.05	319011	2229	316782
602	Other disorders of prostate	Genitourinary	0.99	0.93	1.04	308765	1372	307393
348.2	Cerebral edema and compression of brain	Neurological	1.03	0.91	1.17	286412	260	286152
512.2	Painful respiration	Respiratory	0.97	0.85	1.10	314496	228	314268
217.1	Nevus, non-neoplastic	Neoplasms	1.02	0.94	1.11	320346	597	319749
362	Other retinal disorders	Sense Organs	1.02	0.95	1.08	316825	973	315852
300	Anxiety, phobic and dissociative disorders	Mental Disorders	0.97	0.88	1.08	283261	363	282898
512.7	Shortness of breath	Respiratory	0.99	0.97	1.02	320384	6116	314268
614.51	Cervicitis and endocervicitis	Genitourinary	1.02	0.96	1.07	320048	1249	318799
150	Cancer of esophagus	Neoplasms	0.98	0.91	1.05	313058	727	312331
480.11	Pneumococcal pneumonia	Respiratory	0.99	0.97	1.02	323680	5991	317689
440	Atherosclerosis	Circulatory System	1.04	0.90	1.19	319564	204	319360
292.1	Aphasia/speech disturbance	Mental Disorders	1.01	0.96	1.07	323019	1549	321470
286.12	Congenital deficiency of other clotting factors (including factor VII)	Hematopoietic	1.03	0.92	1.16	325800	303	325497
601.1	Prostatitis	Genitourinary	1.02	0.94	1.10	308058	665	307393
428.2	Heart failure NOS	Circulatory System	0.99	0.96	1.02	326367	4334	322033
740.11	Osteoarthrosis, localized, primary	Musculoskeletal	1.01	0.98	1.03	315552	9227	306325
610	Benign mammary dysplasias	Genitourinary	1.04	0.90	1.19	321081	208	320873

613	Other nonmalignant breast conditions	Genitourinary	1.03	0.93	1.14	322786	368	322418
496.21	Obstructive chronic bronchitis	Respiratory	0.99	0.95	1.03	296921	2729	294192
174.11	Malignant neoplasm of female breast	Neoplasms	1.00	0.99	1.02	316838	12414	304424
496.1	Emphysema	Respiratory	0.99	0.94	1.04	295918	1726	294192
750	Digestive congenital anomalies	Congenital Anomalies	0.98	0.91	1.06	326705	702	326003
635.3	Placenta previa and abruptio placenta	Pregnancy Complications	0.99	0.93	1.04	321301	1336	319965
292.4	Altered mental status	Mental Disorders	1.01	0.97	1.05	323742	2272	321470
624.1	Dystrophy of female genital tract	Genitourinary	0.97	0.85	1.10	318909	240	318669
574.12	Cholelithiasis with other cholecystitis	Digestive	0.99	0.97	1.02	315816	5493	310323
752	Nervous system congenital anomalies	Congenital Anomalies	1.03	0.92	1.16	327963	288	327675
442.11	Abdominal aortic aneurysm	Circulatory System	0.98	0.92	1.05	320257	897	319360
727.1	Synovitis and tenosynovitis	Musculoskeletal	1.02	0.94	1.10	305641	687	304954
427.42	Cardiac arrest	Circulatory System	1.02	0.95	1.08	300470	949	299521
947	Urticaria	Injuries & Poisonings	0.98	0.88	1.08	322293	387	321906
512.9	Other dyspnea	Respiratory	1.02	0.95	1.08	315211	943	314268
269	Proteinuria	Endocrine/Metabolic	1.03	0.92	1.14	327850	355	327495
961	Poisoning by other anti-infectives	Injuries & Poisonings	1.02	0.93	1.13	300647	436	300211
289.8	Polycythemia vera, secondary	Hematopoietic	1.03	0.92	1.16	320039	291	319748
442.8	Aneurysm of other specified artery	Circulatory System	1.03	0.90	1.19	319570	210	319360
608	Other disorders of male genital organs	Genitourinary	1.00	0.98	1.01	327998	20092	307906
555	Inflammatory bowel disease and other gastroenteritis and colitis	Digestive	1.00	0.99	1.02	278195	19799	258396
371.3	Inflammation of eyelids	Sense Organs	0.99	0.95	1.03	320786	2398	318388
332	Parkinson's disease	Neurological	1.01	0.96	1.07	287334	1182	286152
532	Dysphagia	Digestive	0.99	0.97	1.02	294356	6553	287803
429.3	Symptoms involving cardiovascular system	Circulatory System	0.97	0.85	1.11	322241	208	322033
70.3	Viral hepatitis C	Infectious Diseases	0.97	0.88	1.08	322549	343	322206
854	Complications of cardiac/vascular device, implant, and graft	Injuries & Poisonings	0.99	0.94	1.04	315807	1843	313964
474	Acute and chronic tonsillitis	Respiratory	0.98	0.91	1.06	309554	604	308950
558	Noninfectious gastroenteritis	Digestive	1.00	0.99	1.02	278260	19864	258396
180.1	Cervical cancer	Neoplasms	0.99	0.96	1.02	302137	4554	297583
766	Neuralgia, neuritis, and radiculitis NOS	Symptoms	1.03	0.92	1.15	326987	304	326683
990	Effects radiation NOS	Injuries & Poisonings	1.01	0.97	1.04	325633	3244	322389
625.1	Dyspareunia	Genitourinary	1.01	0.96	1.07	319824	1155	318669
530.11	GERD	Digestive	1.00	0.98	1.01	302292	14489	287803
288.11	Neutropenia	Hematopoietic	1.01	0.97	1.04	323644	3326	320318
478	Throat pain	Respiratory	1.02	0.93	1.13	309337	387	308950
384.4	Perforation of tympanic membrane	Sense Organs	1.01	0.95	1.08	325167	1024	324143
803.1	Fracture of humerus	Injuries & Poisonings	1.03	0.91	1.15	323850	293	323557

366	Cataract	Sense Organs	1.00	0.98	1.01	323825	16441	307384
706	Diseases of sebaceous glands	Dermatologic	1.02	0.94	1.11	318889	595	318294
378.2	Nystagmus and other irregular eye movements	Sense Organs	1.03	0.90	1.18	288407	215	288192
272.9	Unspecified disorder of lipoid metabolism	Endocrine/Metabolic	0.97	0.85	1.11	291721	224	291497
480.1	Bacterial pneumonia	Respiratory	1.01	0.95	1.08	318628	939	317689
293.1	Swelling, mass, or lump in head and neck [Space-occupying lesion, intracranial NOS]	Mental Disorders	0.99	0.92	1.05	326044	925	325119
578.1	Hematemesis	Digestive	0.99	0.95	1.03	305428	2034	303394
522	Diseases of pulp and periapical tissues	Digestive	0.98	0.91	1.06	312297	639	311658
853	Complication of colostomy or enterostomy	Injuries & Poisonings	0.98	0.90	1.07	314478	514	313964
536.8	Dyspepsia and other specified disorders of function of stomach	Digestive	0.97	0.86	1.10	296758	247	296511
345.12	Partial epilepsy	Neurological	1.03	0.91	1.15	286450	298	286152
348.7	Coma	Neurological	1.02	0.92	1.13	286531	379	286152
227.3	Benign neoplasm of pituitary gland and craniopharyngeal duct (pouch)	Neoplasms	1.02	0.92	1.14	326970	328	326642
530.7	Gastroesophageal laceration-hemorrhage syndrome	Digestive	0.98	0.88	1.09	288136	333	287803
740.12	Osteoarthrosis, localized, secondary	Musculoskeletal	1.03	0.91	1.16	306589	264	306325
510	Other diseases of lung	Respiratory	0.98	0.92	1.06	328200	770	327430
536	Disorders of function of stomach	Digestive	0.97	0.86	1.10	296768	257	296511
535.6	Duodenitis	Digestive	1.00	0.97	1.02	304405	7894	296511
480.5	Bronchopneumonia and lung abscess	Respiratory	1.02	0.92	1.13	318077	388	317689
501	Pneumonitis due to inhalation of food or vomitus	Respiratory	0.98	0.91	1.07	317076	592	316484
636	Early or threatened labor; hemorrhage in early pregnancy	Pregnancy Complications	1.01	0.96	1.07	321227	1262	319965
38	Septicemia	Infectious Diseases	1.01	0.97	1.04	315677	3045	312632
350.1	Abnormal involuntary movements	Neurological	0.99	0.93	1.05	326371	927	325444
41.2	Streptococcus infection	Infectious Diseases	1.01	0.96	1.06	314280	1648	312632
198.5	Secondary malignancy of brain/spine	Neoplasms	1.01	0.95	1.09	230113	801	229312
736	Other acquired deformities of limbs	Musculoskeletal	0.98	0.88	1.09	316998	311	316687
274.21	Chondrocalcinosis	Endocrine/Metabolic	0.98	0.87	1.10	326552	290	326262
964.1	Anticoagulants causing adverse effects	Injuries & Poisonings	1.03	0.91	1.16	300470	259	300211
292.3	Memory loss	Mental Disorders	0.99	0.92	1.06	322208	738	321470
174	Breast cancer	Neoplasms	1.02	0.91	1.15	304712	288	304424
535.2	Atrophic gastritis	Digestive	1.02	0.92	1.13	296869	358	296511
519.2	Respiratory complications	Respiratory	1.02	0.91	1.15	265743	296	265447
556	Ulceration of the lower GI tract	Digestive	0.98	0.89	1.08	258836	440	258396
202.24	Large cell lymphoma	Neoplasms	1.02	0.94	1.10	324112	589	323523
614.54	Abscess or ulceration of vulva	Genitourinary	0.98	0.87	1.10	319079	280	318799
742.9	Other derangement of joint	Musculoskeletal	1.02	0.92	1.13	311042	400	310642
70	Viral hepatitis	Infectious Diseases	0.99	0.92	1.06	322928	722	322206
418.1	Precordial pain	Circulatory System	0.99	0.96	1.03	299506	3686	295820

287.31	Primary thrombocytopenia	Hematopoietic	1.02	0.93	1.12	325925	428	325497
189.2	Cancer of bladder	Neoplasms	0.99	0.92	1.06	324798	836	323962
574.11	Cholelithiasis with acute cholecystitis	Digestive	1.01	0.96	1.06	311836	1513	310323
721.8	Other allied disorders of spine	Musculoskeletal	1.01	0.97	1.04	314171	3227	310944
199	Neoplasm of uncertain behavior	Neoplasms	0.99	0.93	1.05	230468	1156	229312
568	Other disorders of peritoneum	Digestive	0.99	0.96	1.03	250464	3804	246660
226	Benign neoplasm of thyroid glands	Neoplasms	0.98	0.87	1.10	326908	266	326642
961.1	Poisoning/allergy of sulfonamides	Injuries & Poisonings	0.99	0.92	1.06	301101	890	300211
368.4	Visual field defects	Sense Organs	0.98	0.88	1.09	325215	333	324882
433.1	Occlusion and stenosis of precerebral arteries	Circulatory System	0.99	0.93	1.05	319149	1042	318107
78	Viral warts & HPV	Infectious Diseases	0.99	0.93	1.05	323218	1012	322206
610.2	Fibroadenosis of breast	Genitourinary	1.02	0.91	1.14	321189	316	320873
819	Skull and face fracture and other intercranial injury	Injuries & Poisonings	0.99	0.94	1.04	328056	1517	326539
575.7	Other disorders of gallbladder	Digestive	1.01	0.96	1.06	311719	1396	310323
610.4	Benign neoplasm of breast	Genitourinary	1.01	0.96	1.06	322359	1486	320873
189.11	Malignant neoplasm of kidney, except pelvis	Neoplasms	0.99	0.93	1.05	324997	1035	323962
292	Neurological disorders	Mental Disorders	0.98	0.90	1.08	321919	449	321470
519	Other diseases of respiratory system, not elsewhere classified	Respiratory	1.00	0.99	1.01	327615	62168	265447
465.2	Acute pharyngitis	Respiratory	0.99	0.92	1.06	326053	874	325179
966	Poisoning by anticonvulsants and anti-Parkinsonism drugs	Injuries & Poisonings	1.02	0.93	1.11	300747	536	300211
579	Other symptoms involving abdomen and pelvis	Digestive	1.01	0.95	1.07	304580	1186	303394
535.8	Other specified gastritis	Digestive	1.00	0.97	1.02	304926	8415	296511
655	Known or suspected fetal abnormality affecting management of mother	Pregnancy Complications	0.99	0.96	1.03	328240	4575	323665
560.1	Paralytic ileus	Digestive	1.02	0.93	1.11	258916	520	258396
200	Myeloproliferative disease	Neoplasms	1.01	0.94	1.09	324202	679	323523
198.1	Secondary malignancy of lymph nodes	Neoplasms	1.00	0.98	1.03	234815	5503	229312
427.11	Paroxysmal supraventricular tachycardia	Circulatory System	1.01	0.97	1.05	301952	2431	299521
197	Chemotherapy	Neoplasms	1.00	0.98	1.01	251774	22462	229312
571.8	Liver abscess and sequelae of chronic liver disease	Digestive	1.01	0.93	1.10	318904	573	318331
619.2	Disorders of uterus, NEC	Genitourinary	1.01	0.97	1.04	281939	3391	278548
614.32	Chronic inflammatory pelvic disease	Genitourinary	1.02	0.92	1.12	319224	425	318799
430.3	Subdural hemorrhage	Circulatory System	0.98	0.87	1.10	318378	271	318107
184.2	Cancer of other female genital organs	Neoplasms	0.98	0.88	1.10	305876	323	305553
433.2	Occlusion of cerebral arteries	Circulatory System	0.99	0.96	1.03	321087	2980	318107
574.3	Cholecystitis without cholelithiasis	Digestive	0.99	0.96	1.03	313141	2818	310323
634	Miscarriage; stillbirth	Pregnancy Complications	0.99	0.96	1.03	324534	4569	319965
317	Alcohol-related disorders	Mental Disorders	1.00	0.98	1.03	303529	5860	297669
610.8	Other specified benign mammary dysplasias	Genitourinary	1.01	0.94	1.09	321576	703	320873

175	Acquired absence of breast	Neoplasms	1.01	0.97	1.05	305907	2516	303391
573.3	Hepatomegaly	Digestive	0.98	0.88	1.10	318641	310	318331
705.8	Hyperhidrosis	Dermatologic	0.99	0.91	1.07	318896	602	318294
195.1	Malignant neoplasm, other	Neoplasms	1.00	0.99	1.01	320138	90826	229312
281	Other deficiency anemia	Hematopoietic	1.00	0.98	1.03	317687	8787	308900
367.2	Astigmatism	Sense Organs	1.02	0.89	1.17	325964	210	325754
296.1	Bipolar	Mental Disorders	0.99	0.93	1.05	284019	1121	282898
870.1	Open wound or laceration of eye or eyelid	Injuries & Poisonings	0.98	0.87	1.10	320012	281	319731
174.1	Breast cancer [female]	Neoplasms	0.99	0.95	1.04	306711	2287	304424
724.9	Other unspecified back disorders	Musculoskeletal	1.00	0.99	1.02	328029	17085	310944
339	Other headache syndromes	Neurological	1.00	0.98	1.03	325888	7938	317950
737.3	Kyphoscoliosis and scoliosis	Musculoskeletal	0.98	0.89	1.09	317058	371	316687
550.4	Umbilical hernia	Digestive	1.00	0.96	1.03	283693	3904	279789
218.2	Other benign neoplasm of uterus	Neoplasms	0.98	0.89	1.09	308143	363	307780
41	Bacterial infection NOS	Infectious Diseases	1.00	0.98	1.02	323384	10752	312632
420.3	Endocarditis	Circulatory System	0.99	0.92	1.07	325668	685	324983
506	Empyema and pneumothorax	Respiratory	0.99	0.94	1.05	317630	1146	316484
618.2	Uterine/Uterovaginal prolapse	Genitourinary	1.00	0.98	1.03	321713	5471	316242
601.8	Other inflammatory disorders of male genital organs	Genitourinary	0.98	0.88	1.10	307698	305	307393
599.2	Retention of urine	Genitourinary	1.00	0.97	1.02	227284	6857	220427
530.14	Reflux esophagitis	Digestive	1.00	0.98	1.02	298696	10893	287803
696.42	Psoriatic arthropathy	Dermatologic	0.99	0.92	1.06	314672	740	313932
473.4	Voice disturbance	Respiratory	0.99	0.93	1.05	310051	1101	308950
280.2	Iron deficiency anemia secondary to blood loss (chronic)	Hematopoietic	1.01	0.93	1.11	309376	476	308900
426.23	Second degree AV block	Circulatory System	0.99	0.90	1.08	299982	461	299521
550.5	Ventral hernia	Digestive	1.00	0.96	1.03	283371	3582	279789
385.5	Tympanosclerosis and middle ear disease related to otitis media	Sense Organs	0.98	0.86	1.11	324379	236	324143
509.2	Respiratory insufficiency	Respiratory	1.01	0.96	1.06	318272	1788	316484
204	Leukemia	Neoplasms	0.99	0.90	1.08	323984	461	323523
250.24	Type 2 diabetes with neurological manifestations	Endocrine/Metabolic	1.01	0.93	1.10	308102	612	307490
694.2	Other dyschromia	Dermatologic	0.99	0.92	1.06	322549	800	321749
601.11	Acute prostatitis	Genitourinary	1.02	0.90	1.15	307653	260	307393
537	Other disorders of stomach and duodenum	Digestive	1.00	0.97	1.04	299994	3483	296511
735.21	Hammer toe (acquired)	Musculoskeletal	1.01	0.96	1.05	318701	2014	316687
740.9	Osteoarthrosis NOS	Musculoskeletal	1.00	0.97	1.03	310757	4432	306325
625	Pain and other symptoms associated with female genital organs	Genitourinary	1.01	0.96	1.05	320718	2049	318669
443.7	Peripheral angiopathy in diseases classified elsewhere	Circulatory System	0.99	0.90	1.09	319775	415	319360
716.2	Unspecified monoarthritis	Musculoskeletal	1.00	0.98	1.01	289797	15901	273896

288	Diseases of white blood cells	Hematopoietic	0.99	0.91	1.07	320928	610	320318
340.1	Migrain with aura	Neurological	0.98	0.86	1.12	318167	217	317950
634.1	Missed abortion/Hydatidiform mole	Pregnancy Complications	1.01	0.95	1.07	321168	1203	319965
381.1	Otitis media	Sense Organs	0.99	0.94	1.05	325296	1153	324143
378.5	Paralytic strabismus	Sense Organs	0.98	0.88	1.11	288479	287	288192
597.1	Urethral stricture (not specified as infectious)	Genitourinary	1.00	0.97	1.04	317079	3443	313636
495	Asthma	Respiratory	1.00	0.99	1.01	320971	26779	294192
450	Noninfectious disorders of lymphatic channels	Circulatory System	1.01	0.94	1.09	328240	717	327523
594.8	Renal colic	Genitourinary	1.01	0.96	1.05	322062	2131	319931
729.1	Rheumatism, unspecified and fibrositis	Musculoskeletal	1.01	0.92	1.12	305341	387	304954
292.6	Hallucinations	Mental Disorders	0.99	0.88	1.10	321793	323	321470
352.1	Trigeminal nerve disorders [CN5]	Neurological	0.99	0.90	1.08	313473	462	313011
597	Other disorders of urethra and urinary tract	Genitourinary	0.99	0.93	1.06	314510	874	313636
962.3	Hormones and synthetic substitutes causing adverse effects in therapeutic use	Injuries & Poisonings	0.99	0.89	1.09	300575	364	300211
272.1	Hyperlipidemia	Endocrine/Metabolic	1.00	0.97	1.02	296728	5231	291497
716.1	Unspecified polyarthropathy or polyarthritis	Musculoskeletal	1.00	0.97	1.04	277426	3530	273896
764	Sciatica	Symptoms	0.99	0.94	1.05	327944	1261	326683
442.1	Aortic aneurysm	Circulatory System	0.99	0.91	1.07	319946	586	319360
751.2	Congenital anomalies of urinary system	Congenital Anomalies	1.01	0.94	1.08	326908	905	326003
277.4	Disorders of bilirubin excretion	Endocrine/Metabolic	0.99	0.89	1.09	283300	373	282927
250.6	Polyneuropathy in diabetes	Endocrine/Metabolic	1.01	0.92	1.12	307871	381	307490
213	Benign neoplasm of bone and articular cartilage	Neoplasms	0.99	0.88	1.10	277528	322	277206
626	Disorders of menstruation and other abnormal bleeding from female genital tract	Genitourinary	1.00	0.97	1.04	300178	3947	296231
642	Hypertension complicating pregnancy, childbirth, and the puerperium	Pregnancy Complications	1.01	0.95	1.07	328039	989	327050
500.2	Pneumoconiosis	Respiratory	0.99	0.93	1.06	317485	1001	316484
261.4	Vitamin D deficiency	Endocrine/Metabolic	0.99	0.90	1.09	326194	408	325786
458	Hypotension	Circulatory System	1.01	0.95	1.07	195260	1081	194179
165.1	Cancer of bronchus; lung	Neoplasms	1.00	0.95	1.04	327450	2181	325269
965	Poisoning by analgesics, antipyretics, and antirheumatics	Injuries & Poisonings	1.00	0.97	1.02	306293	6082	300211
153.2	Colon cancer	Neoplasms	1.00	0.96	1.03	304402	3122	301280
759	Other and unspecified congenital anomalies	Congenital Anomalies	1.01	0.94	1.09	327249	679	326570
791	Gangrene	Symptoms	1.01	0.93	1.10	328240	579	327661
272.11	Hypercholesterolemia	Endocrine/Metabolic	1.00	0.99	1.01	325499	34002	291497
345.11	Generalized convulsive epilepsy	Neurological	1.01	0.92	1.11	286617	465	286152
575.9	Nonspecific abnormal findings on radiological and other examination of biliary tract	Digestive	0.99	0.89	1.10	310690	367	310323
560.4	Other intestinal obstruction	Digestive	1.00	0.97	1.04	261839	3443	258396
204.12	Lymphoid leukemia, chronic	Neoplasms	0.99	0.91	1.08	324030	507	323523
172.11	Melanomas of skin	Neoplasms	1.00	0.97	1.04	316943	2723	314220

367.8	Hypermetropia	Sense Organs	1.01	0.89	1.15	325995	241	325754
149.1	Cancer of oropharynx	Neoplasms	1.01	0.90	1.15	326297	256	326041
907	Injuries to the nervous system	Injuries & Poisonings	1.00	0.95	1.04	328240	1845	326395
801.1	Fracture of foot	Injuries & Poisonings	0.99	0.90	1.09	323975	418	323557
960.2	Allergy/adverse effect of penicillin	Injuries & Poisonings	1.00	0.99	1.02	316894	16683	300211
244.4	Hypothyroidism NOS	Endocrine/Metabolic	1.00	0.98	1.02	324759	14430	310329
481	Influenza	Respiratory	1.00	0.98	1.02	327706	10017	317689
433.5	Cerebral aneurysm	Circulatory System	1.01	0.91	1.12	318505	398	318107
594.2	Calculus of lower urinary tract	Genitourinary	0.99	0.93	1.06	320761	830	319931
383	Otosclerosis	Sense Organs	0.99	0.89	1.10	324473	330	324143
965.3	Salicylates causing adverse effects in therapeutic use	Injuries & Poisonings	1.01	0.91	1.11	300612	401	300211
198.4	Secondary malignant neoplasm of liver	Neoplasms	1.00	0.96	1.04	232009	2697	229312
276.11	Hyperosmolality and/or hypernatremia	Endocrine/Metabolic	1.01	0.89	1.15	320891	247	320644
622.1	Polyp of corpus uteri	Genitourinary	1.00	0.98	1.02	323490	8183	315307
250.22	Type 2 diabetes with renal manifestations	Endocrine/Metabolic	1.01	0.88	1.16	307698	208	307490
946	Anaphylactic shock NOS	Injuries & Poisonings	0.99	0.91	1.08	322450	544	321906
835	Internal derangement of knee	Injuries & Poisonings	1.00	0.97	1.03	326012	4239	321773
451.2	Phlebitis and thrombophlebitis of lower extremities	Circulatory System	1.00	0.96	1.03	291357	3644	287713
628	Ovarian cyst	Genitourinary	1.00	0.97	1.03	301051	4820	296231
751.21	Cystic kidney disease	Congenital Anomalies	1.01	0.92	1.11	326461	458	326003
528.7	Sialolithiasis	Digestive	1.01	0.90	1.13	322847	313	322534
619.4	Noninflammatory disorders of vagina	Genitourinary	1.00	0.95	1.04	280328	1780	278548
580.2	Nephrotic syndrome without mention of glomerulonephritis	Genitourinary	1.01	0.92	1.10	314575	496	314079
281.11	Pernicious anemia	Hematopoietic	0.99	0.92	1.07	309650	750	308900
594.3	Calculus of ureter	Genitourinary	1.00	0.96	1.04	322471	2540	319931
323.8	Encephalitis, non-infectious	Neurological	1.01	0.93	1.09	327771	633	327138
454.1	Varicose veins of lower extremity	Circulatory System	1.00	0.98	1.02	299275	11562	287713
338.1	Acute pain	Neurological	1.01	0.92	1.11	327846	420	327426
619	Noninflammatory female genital disorders	Genitourinary	1.00	0.99	1.01	328106	49558	278548
401.22	Hypertensive chronic kidney disease	Circulatory System	1.00	0.95	1.05	250343	1595	248748
285.22	Anemia in neoplastic disease	Hematopoietic	0.99	0.90	1.09	309337	437	308900
555.1	Regional enteritis	Digestive	1.00	0.95	1.04	260201	1805	258396
385.3	Cholesteatoma	Sense Organs	1.01	0.93	1.09	324732	589	324143
604	Disorders of penis	Genitourinary	1.01	0.94	1.08	308641	735	307906
600	Hyperplasia of prostate	Genitourinary	1.00	0.98	1.02	318965	11572	307393
750.21	Congenital anomalies of intestine	Congenital Anomalies	0.99	0.87	1.13	326230	227	326003
603	Other disorders of testis	Genitourinary	0.99	0.93	1.06	308895	989	307906
220	Benign neoplasm of ovary	Neoplasms	1.00	0.95	1.06	297546	1490	296056

575.8	Other disorders of biliary tract	Digestive	1.01	0.95	1.07	311372	1049	310323
502	Postinflammatory pulmonary fibrosis	Respiratory	0.99	0.93	1.06	317367	883	316484
601.12	Chronic prostatitis	Genitourinary	0.99	0.93	1.06	308341	948	307393
381.11	Suppurative and unspecified otitis media	Sense Organs	1.01	0.94	1.08	324993	850	324143
531.2	Gastric ulcer	Digestive	1.00	0.97	1.03	324777	4228	320549
571.5	Other chronic nonalcoholic liver disease	Digestive	1.00	0.96	1.05	320004	1673	318331
512	Other symptoms of respiratory system	Respiratory	1.00	0.97	1.02	319772	5504	314268
157	Pancreatic cancer	Neoplasms	1.01	0.93	1.09	312933	602	312331
276.41	Acidosis	Endocrine/Metabolic	1.00	0.94	1.06	321700	1056	320644
341	Other demyelinating diseases of central nervous system	Neurological	1.00	0.95	1.05	287764	1612	286152
715.2	Ankylosing spondylitis	Musculoskeletal	0.99	0.90	1.10	317637	384	317253
560.3	Peritoneal or intestinal adhesions	Digestive	1.01	0.94	1.08	259257	861	258396
81	Infection/inflammation of internal prosthetic device; implant; and graft	Infectious Diseases	1.00	0.96	1.04	323993	2514	321479
525	Other diseases of the teeth and supporting structures	Digestive	1.00	0.96	1.04	314357	2699	311658
697	Sarcoidosis	Dermatologic	0.99	0.91	1.08	322309	560	321749
368.1	Amblyopia	Sense Organs	1.01	0.92	1.10	325423	541	324882
709.7	Unspecified diffuse connective tissue disease	Dermatologic	1.00	0.99	1.01	324635	82669	241966
736.2	Acquired deformities of finger	Musculoskeletal	0.99	0.88	1.12	316940	253	316687
253.2	Pituitary hypofunction	Endocrine/Metabolic	1.01	0.90	1.13	324826	281	324545
591	Urinary tract infection	Genitourinary	1.00	0.98	1.02	309711	12676	297035
622	Polyp of female genital organs	Genitourinary	1.01	0.92	1.10	315794	487	315307
483	Acute bronchitis and bronchiolitis	Respiratory	1.01	0.88	1.16	317889	200	317689
669	Complications of labor and delivery NEC	Pregnancy Complications	1.00	0.98	1.03	328240	9534	318706
433.12	Cerebral atherosclerosis	Circulatory System	0.99	0.87	1.13	318345	238	318107
526.1	Cysts of the jaws	Digestive	0.99	0.89	1.11	311993	335	311658
454.11	Varicose veins of lower extremity, symptomtic	Circulatory System	1.01	0.93	1.09	288365	652	287713
726.1	Enthesopathy	Musculoskeletal	1.00	0.97	1.02	311657	6703	304954
751.11	Congenital anomalies of female genital organs	Congenital Anomalies	0.99	0.91	1.09	326445	442	326003
957	Injury to other and unspecified nerves	Injuries & Poisonings	0.99	0.88	1.12	328157	275	327882
800.1	Fracture of neck of femur	Injuries & Poisonings	0.99	0.87	1.13	323796	239	323557
380.1	Otitis externa	Sense Organs	0.99	0.91	1.08	327284	532	326752
191.11	Cancer of brain	Neoplasms	1.01	0.92	1.10	326945	498	326447
221	Benign neoplasm of other female genital organs	Neoplasms	0.99	0.87	1.13	295974	223	295751
603.1	Hydrocele	Genitourinary	1.00	0.95	1.06	309308	1402	307906
455	Hemorrhoids	Circulatory System	1.00	0.99	1.01	312410	24697	287713
560.2	Impaction of intestine	Digestive	0.99	0.88	1.12	258667	271	258396
530.12	Ulcer of esophagus	Digestive	1.00	0.97	1.03	293151	5348	287803
522.5	Periapical abscess	Digestive	1.00	0.95	1.06	312904	1246	311658

741	Symptoms and disorders of the joints	Musculoskeletal	1.00	0.99	1.02	327531	16889	310642
41.4	E. coli	Infectious Diseases	1.00	0.97	1.04	315432	2800	312632
334	Degenerative disease of the spinal cord	Neurological	1.00	0.95	1.06	287631	1479	286152
281.13	Folate-deficiency anemia	Hematopoietic	0.99	0.86	1.14	309101	201	308900
202	Cancer of other lymphoid, histiocytic tissue	Neoplasms	1.00	0.95	1.06	324661	1138	323523
349	Other and unspecified disorders of the nervous system	Neurological	1.00	0.99	1.01	326855	40703	286152
276.6	Fluid overload	Endocrine/Metabolic	1.01	0.92	1.10	321117	473	320644
145.2	Cancer of tongue	Neoplasms	1.01	0.90	1.12	326366	325	326041
149	Cancer of larynx, pharynx, nasal cavities	Neoplasms	1.00	0.94	1.07	326986	945	326041
316	Substance addiction and disorders	Mental Disorders	1.01	0.91	1.11	298042	373	297669
523.31	Acute periodontitis	Digestive	1.00	0.93	1.07	312371	713	311658
614.52	Vaginitis and vulvovaginitis	Genitourinary	1.01	0.91	1.11	319219	420	318799
635.2	Antepartum hemorrhage, abruptio placentae, and placenta previa	Pregnancy Complications	1.00	0.93	1.06	320901	936	319965
386	Vertiginous syndromes and other disorders of vestibular system	Sense Organs	1.00	0.96	1.05	323761	2112	321649
278.1	Obesity	Endocrine/Metabolic	1.00	0.98	1.02	328110	11143	316967
735.3	Hallux valgus (Bunion)	Musculoskeletal	1.00	0.97	1.02	323592	6905	316687
727	Other disorders of synovium, tendon, and bursa	Musculoskeletal	1.00	0.93	1.08	305708	754	304954
601.4	Balanoposthitis	Genitourinary	0.99	0.89	1.11	307689	296	307393
599.9	Other abnormality of urination	Genitourinary	1.00	0.96	1.05	222371	1944	220427
428.1	Congestive heart failure (CHF) NOS	Circulatory System	1.00	0.96	1.04	324086	2053	322033
646	Other complications of pregnancy NEC	Pregnancy Complications	1.00	0.96	1.04	328240	2396	325844
465	Acute upper respiratory infections of multiple or unspecified sites	Respiratory	1.00	0.97	1.04	328232	3053	325179
503	Pulmonary congestion and hypostasis	Respiratory	1.00	0.92	1.10	316959	475	316484
214.1	Lipoma of skin and subcutaneous tissue	Neoplasms	1.00	0.97	1.03	325432	4756	320676
241.2	Nontoxic multinodular goiter	Endocrine/Metabolic	1.00	0.93	1.07	311043	714	310329
317.1	Alcoholism	Mental Disorders	1.00	0.98	1.02	306366	8697	297669
535.1	Acute gastritis	Digestive	1.00	0.95	1.06	297704	1193	296511
519.9	Symptoms involving respiratory system and other chest symptoms	Respiratory	1.00	0.89	1.11	265755	308	265447
969	Poisoning by psychotropic agents	Injuries & Poisonings	1.00	0.96	1.05	302207	1996	300211
473	Diseases of the larynx and vocal cords	Respiratory	1.00	0.95	1.05	310564	1614	308950
155	Cancer of liver and intrahepatic bile duct	Neoplasms	1.00	0.88	1.13	312576	245	312331
530.1	Esophagitis, GERD and related diseases	Digestive	1.00	0.98	1.02	297342	9539	287803
334.2	Anterior horn cell disease	Neurological	1.00	0.88	1.15	286376	224	286152
361.1	Retinal detachment with retinal defect	Sense Organs	1.00	0.95	1.05	318238	1456	316782
464	Acute sinusitis	Respiratory	1.00	0.87	1.14	325387	208	325179
686.1	Carbuncle and furuncle	Dermatologic	1.00	0.96	1.04	318829	2422	316407
681.7	Cellulitis and abscess of trunk	Dermatologic	1.00	0.93	1.09	317030	623	316407
700	Corns and callosities	Dermatologic	1.00	0.89	1.12	323352	288	323064

707	Chronic ulcer of skin	Dermatologic	1.00	0.95	1.06	327959	1260	326699
530.5	Disorders of esophageal motility	Digestive	1.00	0.92	1.08	288452	649	287803
565	Anal and rectal conditions	Digestive	1.00	0.98	1.02	255321	8661	246660
701	Other hypertrophic and atrophic conditions of skin	Dermatologic	1.00	0.96	1.05	324891	1827	323064
529.1	Glossitis	Digestive	1.00	0.89	1.12	322838	304	322534
204.21	Myeloid leukemia, acute	Neoplasms	1.00	0.90	1.12	323842	319	323523
723	Other disorders of cervical region	Musculoskeletal	1.00	0.91	1.11	311345	401	310944
38.1	Gram negative septicemia	Infectious Diseases	1.00	0.94	1.07	313487	855	312632
798	Malaise and fatigue	Symptoms	1.00	0.97	1.04	327695	2966	324729
516.1	Hemoptysis	Respiratory	1.00	0.96	1.04	328154	2103	326051
599.4	Urinary incontinence	Genitourinary	1.00	0.98	1.02	229423	8996	220427
479	Other upper respiratory disease	Respiratory	1.00	0.98	1.02	324241	15291	308950
540.1	Appendicitis	Digestive	1.00	0.93	1.07	325174	795	324379
244.1	Secondary hypothyroidism	Endocrine/Metabolic	1.00	0.94	1.06	311484	1155	310329
212	Benign neoplasm of respiratory and intrathoracic organs	Neoplasms	1.00	0.90	1.11	328240	355	327885
803.3	Fracture of clavicle or scapula	Injuries & Poisonings	1.00	0.89	1.12	323857	300	323557
263	Other nutritional deficiency	Endocrine/Metabolic	1.00	0.95	1.05	327337	1551	325786
724.1	Disorders of sacrum	Musculoskeletal	1.00	0.89	1.12	311225	281	310944
686	Other local infections of skin and subcutaneous tissue	Dermatologic	1.00	0.98	1.02	327410	11003	316407
384	Other disorders of tympanic membrane	Sense Organs	1.00	0.91	1.10	324573	430	324143
612.2	Hypertrophy of breast (Gynecomastia)	Genitourinary	1.00	0.94	1.07	321732	859	320873
38.2	Gram positive septicemia	Infectious Diseases	1.00	0.92	1.09	313123	491	312632
724.2	Disorders of coccyx	Musculoskeletal	1.00	0.89	1.13	311226	282	310944
716.9	Arthropathy NOS	Musculoskeletal	1.00	0.99	1.01	327719	53823	273896
540	Appendiceal conditions	Digestive	1.00	0.97	1.03	328240	3861	324379
335	Multiple sclerosis	Neurological	1.00	0.95	1.06	287531	1379	286152
426.31	Right bundle branch block	Circulatory System	1.00	0.95	1.05	301094	1573	299521
698	Pruritus and related conditions	Dermatologic	1.00	0.93	1.07	328240	799	327441
165	Cancer within the respiratory system	Neoplasms	1.00	0.96	1.04	328223	2954	325269
427.12	Paroxysmal ventricular tachycardia	Circulatory System	1.00	0.94	1.06	300490	969	299521
610.3	Fibrosclerosis of breast	Genitourinary	1.00	0.89	1.12	321176	303	320873
441	Vascular insufficiency of intestine	Circulatory System	1.00	0.89	1.12	319657	297	319360
318	Tobacco use disorder	Mental Disorders	1.00	0.99	1.01	318172	20503	297669
626.2	Dysmenorrhea	Genitourinary	1.00	0.95	1.05	297910	1679	296231
587	Kidney replaced by transpant	Genitourinary	1.00	0.91	1.10	314477	398	314079
261.2	Vitamin B-complex deficiencies	Endocrine/Metabolic	1.00	0.93	1.07	326559	773	325786
624.9	stress incontinence, female	Genitourinary	1.00	0.97	1.03	324769	6100	318669
714	Rheumatoid arthritis and other inflammatory polyarthropathies	Musculoskeletal	1.00	0.98	1.02	325905	8652	317253

Supplementary Table 16. Phenome-wide association study (PheWAS) results for the calcium channel blocker (CCB) genetic risk score after excluding potentially pleiotropic single-nucleotide polymorphisms identified by their secondary associations in PhenoScanner.

Phecode	Trait	Category	OR	Low 95% CI	Upp 95% CI	Total sample size	Cases	Controls
401.1	Essential hypertension	Circulatory System	0.95	0.94	0.96	327983	79235	248748
401	Hypertension	Circulatory System	0.95	0.94	0.96	328239	79491	248748
459.9	Circulatory disease NEC	Circulatory System	0.97	0.96	0.98	327928	133749	194179
411	Ischemic Heart Disease	Circulatory System	0.97	0.96	0.99	327032	31343	295689
411.4	Coronary atherosclerosis	Circulatory System	0.97	0.96	0.99	327242	31553	295689
411.8	Other chronic ischemic heart disease, unspecified	Circulatory System	0.97	0.96	0.99	326969	31280	295689
411.2	Myocardial infarction	Circulatory System	0.96	0.95	0.98	307658	11969	295689
427.2	Atrial fibrillation and flutter	Circulatory System	0.97	0.95	0.98	314573	15052	299521
562.1	Diverticulosis	Digestive	1.02	1.01	1.04	286281	27885	258396
411.41	Aneurysm and dissection of heart	Circulatory System	0.87	0.81	0.94	296410	721	295689
411.3	Angina pectoris	Circulatory System	0.97	0.96	0.99	312048	16359	295689
716.2	Unspecified monoarthritis	Musculoskeletal	1.02	1.01	1.04	289797	15901	273896
416	Cardiomegaly	Circulatory System	0.94	0.91	0.98	324157	2610	321547
395.1	Nonrheumatic mitral valve disorders	Circulatory System	0.95	0.92	0.99	324497	2969	321528
428.1	Congestive heart failure (CHF) NOS	Circulatory System	0.94	0.90	0.98	324086	2053	322033
751.11	Congenital anomalies of female genital organs	Congenital Anomalies	0.88	0.80	0.97	326445	442	326003
686.3	Pilonidal cyst	Dermatologic	1.11	1.03	1.20	317024	617	316407
38.2	Gram positive septicemia	Infectious Diseases	0.89	0.81	0.97	313123	491	312632
977	Personal history of allergy to medicinal agents	Injuries & Poisonings	0.84	0.74	0.96	300449	238	300211
503	Pulmonary congestion and hypostasis	Respiratory	0.89	0.81	0.97	316959	475	316484
428.2	Heart failure NOS	Circulatory System	0.96	0.93	0.99	326367	4334	322033
240	Simple and unspecified goiter	Endocrine/Metabolic	0.90	0.83	0.98	310951	622	310329
946	Anaphylactic shock NOS	Injuries & Poisonings	0.90	0.82	0.98	322450	544	321906
476	Allergic rhinitis	Respiratory	1.08	1.01	1.14	310025	1075	308950
333.1	Essential tremor	Neurological	0.85	0.74	0.97	286370	218	286152
352.2	Facial nerve disorders [CN7]	Neurological	0.92	0.86	0.98	313911	900	313011
634.1	Missed abortion/Hydatidiform mole	Pregnancy Complications	1.07	1.01	1.14	321168	1203	319965
200.1	Polycythemia vera	Neoplasms	0.89	0.80	0.98	318136	404	317732
574	Cholelithiasis and cholecystitis	Digestive	0.89	0.81	0.98	310726	403	310323
741.4	Joint effusions	Musculoskeletal	0.87	0.77	0.98	310925	283	310642
220	Benign neoplasm of ovary	Neoplasms	1.06	1.01	1.12	297546	1490	296056
394.2	Mitral valve disease	Circulatory System	0.96	0.93	0.99	324603	3075	321528
411.9	Other acute and subacute forms of ischemic heart disease	Circulatory System	0.94	0.88	0.99	296883	1194	295689
381.11	Suppurative and unspecified otitis media	Sense Organs	0.92	0.86	0.99	324993	850	324143
375	Disorders of lacrimal system	Sense Organs	1.06	1.01	1.11	289852	1660	288192

555	Inflammatory bowel disease and other gastroenteritis and colitis	Digestive	1.02	1.00	1.03	278195	19799	258396
574.12	Cholelithiasis with other cholecystitis	Digestive	0.97	0.95	1.00	315816	5493	310323
426.24	Atrioventricular block, complete	Circulatory System	0.92	0.85	1.00	300112	591	299521
751.1	Congenital anomalies of genital organs	Congenital Anomalies	0.92	0.86	1.00	326709	706	326003
378.5	Paralytic strabismus	Sense Organs	0.88	0.79	0.99	288479	287	288192
558	Noninfectious gastroenteritis	Digestive	1.02	1.00	1.03	278260	19864	258396
564.9	Personal history of diseases of digestive system	Digestive	1.02	1.00	1.03	274320	15924	258396
513.4	Hyperventilation	Respiratory	1.13	1.00	1.27	327904	280	327624
560.4	Other intestinal obstruction	Digestive	1.04	1.00	1.07	261839	3443	258396
850	Hemorrhage or hematoma complicating a procedure	Injuries & Poisonings	0.97	0.95	1.00	319328	5364	313964
304	Adjustment reaction	Mental Disorders	1.12	1.00	1.25	283221	323	282898
574.3	Cholecystitis without cholelithiasis	Digestive	1.04	1.00	1.08	313141	2818	310323
250	Diabetes mellitus	Endocrine/Metabolic	1.01	1.00	1.03	327730	20240	307490
170.2	Cancer of connective tissue	Neoplasms	0.93	0.86	1.00	328122	734	327388
286.7	Other and unspecified coagulation defects	Hematopoietic	1.10	1.00	1.22	325902	405	325497
365	Glaucoma	Sense Organs	1.03	1.00	1.06	321340	4558	316782
250.2	Type 2 diabetes	Endocrine/Metabolic	1.02	1.00	1.03	326603	19113	307490
380.4	Impacted cerumen	Sense Organs	0.90	0.81	1.00	327106	354	326752
415.21	Primary pulmonary hypertension	Circulatory System	1.10	1.00	1.20	322013	466	321547
429.3	Symptoms involving cardiovascular system	Circulatory System	0.87	0.76	1.00	322241	208	322033
335	Multiple sclerosis	Neurological	1.05	1.00	1.11	287531	1379	286152
960	Poisoning by antibiotics	Injuries & Poisonings	0.97	0.94	1.00	303739	3528	300211
560.3	Peritoneal or intestinal adhesions	Digestive	1.07	1.00	1.14	259257	861	258396
478	Throat pain	Respiratory	0.90	0.82	1.00	309337	387	308950
414	Other forms of chronic heart disease	Circulatory System	0.95	0.91	1.00	297457	1768	295689
375.2	Epiphora	Sense Organs	1.07	1.00	1.14	289094	902	288192
750	Digestive congenital anomalies	Congenital Anomalies	0.93	0.86	1.00	326705	702	326003
601.11	Acute prostatitis	Genitourinary	1.13	1.00	1.27	307653	260	307393
989	Toxic effect of other substances, chiefly nonmedicinal as to source	Injuries & Poisonings	1.05	1.00	1.11	328136	1438	326698
250.41	Impaired fasting glucose	Endocrine/Metabolic	1.12	1.00	1.27	307758	268	307490
442.8	Aneurysm of other specified artery	Circulatory System	0.88	0.76	1.00	319570	210	319360
681	Superficial cellulitis and abscess	Dermatologic	0.93	0.87	1.00	317135	728	316407
735	Acquired foot deformities	Musculoskeletal	1.11	1.00	1.25	316986	299	316687
388	Other disorders of ear	Sense Organs	0.98	0.96	1.00	328080	9886	318194
726	Peripheral enthesopathies and allied syndromes	Musculoskeletal	1.02	1.00	1.04	313722	8768	304954
530.12	Ulcer of esophagus	Digestive	0.97	0.95	1.00	293151	5348	287803
594.3	Calculus of ureter	Genitourinary	0.96	0.93	1.00	322471	2540	319931
215	Other benign neoplasm of connective and other soft tissue	Neoplasms	1.06	1.00	1.12	321804	1128	320676

507	Pleurisy; pleural effusion	Respiratory	0.98	0.95	1.00	323091	6607	316484
642.1	Preeclampsia and eclampsia	Pregnancy Complications	0.90	0.81	1.01	327385	335	327050
452	Other venous embolism and thrombosis	Circulatory System	0.92	0.85	1.01	288267	554	287713
745	Pain in joint	Musculoskeletal	0.96	0.92	1.00	328240	1940	326300
800.1	Fracture of neck of femur	Injuries & Poisonings	0.89	0.78	1.01	323796	239	323557
380	Disorders of external ear	Sense Organs	0.95	0.91	1.00	328227	1475	326752
70.9	Hepatitis NOS	Infectious Diseases	1.09	0.99	1.19	322658	452	322206
736.2	Acquired deformities of finger	Musculoskeletal	0.89	0.79	1.01	316940	253	316687
250.42	Other abnormal glucose	Endocrine/Metabolic	0.92	0.83	1.01	307927	437	307490
716.9	Arthropathy NOS	Musculoskeletal	1.01	1.00	1.02	327719	53823	273896
180.1	Cervical cancer	Neoplasms	0.97	0.95	1.00	302137	4554	297583
277	Other disorders of metabolism	Endocrine/Metabolic	0.99	0.98	1.00	328230	45303	282927
350.2	Abnormality of gait	Neurological	0.96	0.91	1.00	327077	1633	325444
709.7	Unspecified diffuse connective tissue disease	Dermatologic	1.01	1.00	1.02	324635	82669	241966
389.2	Conductive hearing loss	Sense Organs	0.92	0.84	1.01	318629	435	318194
360.2	Progressive myopia	Sense Organs	1.11	0.99	1.26	317032	250	316782
379.2	Disorders of vitreous body	Sense Organs	1.05	0.99	1.10	289599	1407	288192
458.9	Hypotension NOS	Circulatory System	0.97	0.94	1.00	197817	3638	194179
341	Other demyelinating diseases of central nervous system	Neurological	1.04	0.99	1.10	287764	1612	286152
601.1	Prostatitis	Genitourinary	1.07	0.99	1.15	308058	665	307393
272.1	Hyperlipidemia	Endocrine/Metabolic	0.98	0.95	1.00	296728	5231	291497
371	Inflammation of the eye	Sense Organs	0.92	0.83	1.01	318796	408	318388
333	Extrapyramidal disease and abnormal movement disorders	Neurological	0.96	0.92	1.01	288187	2035	286152
202.24	Large cell lymphoma	Neoplasms	1.07	0.99	1.16	324112	589	323523
244.1	Secondary hypothyroidism	Endocrine/Metabolic	0.95	0.90	1.01	311484	1155	310329
368.1	Amblyopia	Sense Organs	0.93	0.85	1.01	325423	541	324882
425.1	Primary/intrinsic cardiomyopathies	Circulatory System	0.95	0.89	1.01	326036	1053	324983
798	Malaise and fatigue	Symptoms	1.03	0.99	1.07	327695	2966	324729
857	Mechanical complication of unspecified genitourinary device, implant, and graft	Injuries & Poisonings	0.95	0.90	1.01	315248	1284	313964
907	Injuries to the nervous system	Injuries & Poisonings	0.96	0.92	1.01	328240	1845	326395
642	Hypertension complicating pregnancy, childbirth, and the puerperium	Pregnancy Complications	0.95	0.89	1.01	328039	989	327050
700	Corns and callosities	Dermatologic	0.91	0.81	1.02	323352	288	323064
681.2	Cellulitis and abscess of face/neck	Dermatologic	0.93	0.85	1.01	316936	529	316407
601.12	Chronic prostatitis	Genitourinary	1.05	0.99	1.12	308341	948	307393
473	Diseases of the larynx and vocal cords	Respiratory	0.96	0.91	1.01	310564	1614	308950
433.12	Cerebral atherosclerosis	Circulatory System	1.11	0.98	1.26	318345	238	318107
703	Diseases of nail, NOS	Dermatologic	0.92	0.83	1.02	321795	366	321429
528.6	Leukoplakia of oral mucosa	Digestive	0.91	0.81	1.02	322846	312	322534

324	Other CNS infection and poliomyelitis	Neurological	1.10	0.98	1.23	327426	288	327138
528	Diseases of the oral soft tissues, excluding lesions specific for gingiva and tongue	Digestive	0.96	0.92	1.01	324593	2059	322534
510	Other diseases of lung	Respiratory	0.94	0.88	1.01	328200	770	327430
451.2	Phlebitis and thrombophlebitis of lower extremities	Circulatory System	1.03	0.99	1.06	291357	3644	287713
187.2	Malignant neoplasm of testis	Neoplasms	0.98	0.95	1.01	323790	4572	319218
184.11	Malignant neoplasm of ovary	Neoplasms	0.98	0.95	1.01	310562	5009	305553
636	Early or threatened labor; hemorrhage in early pregnancy	Pregnancy Complications	1.05	0.99	1.11	321227	1262	319965
426.31	Right bundle branch block	Circulatory System	0.96	0.91	1.01	301094	1573	299521
961.1	Poisoning/allergy of sulfonamides	Injuries & Poisonings	0.95	0.89	1.01	301101	890	300211
334	Degenerative disease of the spinal cord	Neurological	1.04	0.99	1.10	287631	1479	286152
151	Cancer of stomach	Neoplasms	1.07	0.98	1.16	312905	574	312331
157	Pancreatic cancer	Neoplasms	1.07	0.98	1.15	312933	602	312331
198.6	Secondary malignancy of bone	Neoplasms	1.03	0.99	1.08	231505	2193	229312
916	Contusion	Injuries & Poisonings	0.96	0.91	1.01	328240	1478	326762
465	Acute upper respiratory infections of multiple or unspecified sites	Respiratory	0.97	0.94	1.01	328232	3053	325179
221	Benign neoplasm of other female genital organs	Neoplasms	0.90	0.79	1.03	295974	223	295751
480.5	Bronchopneumonia and lung abscess	Respiratory	0.92	0.84	1.02	318077	388	317689
530.2	Esophageal bleeding (varices/hemorrhage)	Digestive	1.04	0.99	1.09	289525	1722	287803
191.11	Cancer of brain	Neoplasms	0.93	0.85	1.02	326945	498	326447
525	Other diseases of the teeth and supporting structures	Digestive	1.03	0.99	1.07	314357	2699	311658
345.12	Partial epilepsy	Neurological	0.91	0.81	1.03	286450	298	286152
702.2	Seborrheic keratosis	Dermatologic	1.03	0.99	1.06	325769	3169	322600
614.54	Abscess or ulceration of vulva	Genitourinary	1.09	0.97	1.23	319079	280	318799
593	Hematuria	Genitourinary	1.01	1.00	1.03	313795	16760	297035
292.2	Mild cognitive impairment	Mental Disorders	1.11	0.97	1.28	321672	202	321470
573.3	Hepatomegaly	Digestive	1.09	0.98	1.22	318641	310	318331
474	Acute and chronic tonsillitis	Respiratory	1.06	0.98	1.15	309554	604	308950
477	Epistaxis or throat hemorrhage	Respiratory	0.97	0.93	1.01	311469	2519	308950
578.8	Hemorrhage of rectum and anus	Digestive	0.99	0.97	1.00	317220	13826	303394
418.1	Precordial pain	Circulatory System	0.98	0.94	1.01	299506	3686	295820
378.1	Strabismus (not specified as paralytic)	Sense Organs	1.05	0.99	1.12	289139	947	288192
371.1	Uveitis, noninfectious or NOS	Sense Organs	1.07	0.98	1.17	318886	498	318388
149.4	Cancer of larynx	Neoplasms	0.91	0.81	1.03	326307	266	326041
722.1	Displacement of intervertebral disc	Musculoskeletal	1.07	0.98	1.16	311460	516	310944
395.6	Heart valve replaced	Circulatory System	0.96	0.91	1.01	323056	1528	321528
722.6	Degeneration of intervertebral disc	Musculoskeletal	1.03	0.99	1.07	313866	2922	310944
480.11	Pneumococcal pneumonia	Respiratory	1.02	0.99	1.05	323680	5991	317689
41	Bacterial infection NOS	Infectious Diseases	0.99	0.97	1.00	323384	10752	312632

426.3	Bundle branch block	Circulatory System	1.09	0.97	1.22	299812	291	299521
962.3	Hormones and synthetic substitutes causing adverse effects in therapeutic use	Injuries & Poisonings	1.08	0.97	1.20	300575	364	300211
729	Other disorders of soft tissues	Musculoskeletal	1.01	1.00	1.02	327478	22524	304954
717	Polymyalgia Rheumatica	Musculoskeletal	1.04	0.99	1.11	328240	1147	327093
394	Rheumatic disease of the heart valves	Circulatory System	0.95	0.89	1.02	322471	943	321528
444.1	Arterial embolism and thrombosis of lower extremity artery	Circulatory System	1.06	0.98	1.15	319930	570	319360
619.3	Noninflammatory disorders of cervix	Genitourinary	0.97	0.94	1.01	281393	2845	278548
728.71	Contracture of palmar fascia [Dupuytren's disease]	Musculoskeletal	0.97	0.93	1.01	307403	2449	304954
475	Chronic sinusitis	Respiratory	1.03	0.99	1.07	311580	2630	308950
280.2	Iron deficiency anemia secondary to blood loss (chronic)	Hematopoietic	1.07	0.98	1.17	309376	476	308900
722.9	Other and unspecified disc disorder	Musculoskeletal	1.02	0.99	1.06	314894	3950	310944
250.24	Type 2 diabetes with neurological manifestations	Endocrine/Metabolic	0.94	0.87	1.02	308102	612	307490
979	Adverse drug events and drug allergies	Injuries & Poisonings	0.95	0.88	1.02	300927	716	300211
441	Vascular insufficiency of intestine	Circulatory System	0.92	0.82	1.03	319657	297	319360
174.11	Malignant neoplasm of female breast	Neoplasms	0.99	0.97	1.01	316838	12414	304424
367.2	Astigmatism	Sense Organs	1.10	0.96	1.26	325964	210	325754
442.1	Aortic aneurysm	Circulatory System	0.94	0.87	1.02	319946	586	319360
627.4	Premenopausal menorrhagia	Genitourinary	0.92	0.83	1.03	296563	332	296231
386.9	Dizziness and giddiness (Light-headedness and vertigo)	Sense Organs	0.98	0.95	1.01	326388	4739	321649
696.42	Psoriatic arthropathy	Dermatologic	1.05	0.98	1.13	314672	740	313932
374	Other disorders of eyelids	Sense Organs	0.98	0.94	1.01	321593	3205	318388
573	Other disorders of liver	Digestive	1.02	0.99	1.05	323533	5202	318331
939	Atopic/contact dermatitis due to other or unspecified	Dermatologic	1.03	0.99	1.08	324060	2154	321906
8.6	Viral Enteritis	Infectious Diseases	0.95	0.89	1.02	319924	845	319079
211	Benign neoplasm of other parts of digestive system	Neoplasms	1.02	0.99	1.05	319683	5375	314308
969	Poisoning by psychotropic agents	Injuries & Poisonings	1.03	0.99	1.08	302207	1996	300211
306	Other mental disorder	Mental Disorders	0.99	0.98	1.00	312303	29405	282898
255.21	Glucocorticoid deficiency	Endocrine/Metabolic	1.07	0.97	1.19	324917	372	324545
458	Hypotension	Circulatory System	0.96	0.90	1.02	195260	1081	194179
389	Hearing loss	Sense Organs	0.98	0.94	1.01	321364	3170	318194
473.3	Paralysis/spasm of vocal cords or larynx	Respiratory	0.92	0.81	1.04	309217	267	308950
202.21	Nodular lymphoma	Neoplasms	1.07	0.97	1.18	323913	390	323523
508	Pulmonary collapse; interstitial and compensatory emphysema	Respiratory	1.03	0.99	1.08	318570	2086	316484
550.2	Diaphragmatic hernia	Digestive	1.01	1.00	1.02	307453	27664	279789
8.5	Bacterial enteritis	Infectious Diseases	1.03	0.99	1.08	321188	2109	319079
276.5	Hypovolemia	Endocrine/Metabolic	1.03	0.99	1.06	323539	2895	320644
374.1	Ectropion or entropion	Sense Organs	1.04	0.98	1.11	319480	1092	318388
427.12	Paroxysmal ventricular tachycardia	Circulatory System	1.04	0.98	1.11	300490	969	299521

440.9	Atherosclerosis of aorta	Circulatory System	0.91	0.79	1.05	319562	202	319360
217.1	Nevus, non-neoplastic	Neoplasms	0.95	0.87	1.03	320346	597	319749
41.4	E. coli	Infectious Diseases	0.98	0.94	1.01	315432	2800	312632
519	Other diseases of respiratory system, not elsewhere classified	Respiratory	0.99	0.99	1.00	327615	62168	265447
727.5	Rupture of synovium	Musculoskeletal	1.07	0.97	1.19	305298	344	304954
859	Complication due to other implant and internal device	Injuries & Poisonings	0.98	0.94	1.01	317302	3338	313964
681.7	Cellulitis and abscess of trunk	Dermatologic	1.05	0.97	1.14	317030	623	316407
695.3	Rosacea	Dermatologic	0.93	0.83	1.04	322068	319	321749
571.5	Other chronic nonalcoholic liver disease	Digestive	1.03	0.98	1.08	320004	1673	318331
361	Retinal detachments and defects	Sense Organs	1.03	0.99	1.07	319011	2229	316782
509.8	Dependence on respirator [Ventilator] or supplemental oxygen	Respiratory	1.07	0.97	1.18	316885	401	316484
331	Other cerebral degenerations	Neurological	1.09	0.96	1.23	286392	240	286152
497	Bronchitis	Respiratory	1.05	0.97	1.14	294834	642	294192
726.3	Bursitis	Musculoskeletal	1.06	0.97	1.15	305497	543	304954
281.13	Folate-deficiency anemia	Hematopoietic	1.09	0.95	1.26	309101	201	308900
578	Gastrointestinal hemorrhage	Digestive	1.08	0.96	1.21	303679	285	303394
626.1	Irregular menstrual cycle/bleeding	Genitourinary	1.02	0.99	1.06	299824	3593	296231
689	Disorder of skin and subcutaneous tissue NOS	Dermatologic	1.01	1.00	1.02	328240	42194	286046
193	Thyroid cancer	Neoplasms	0.93	0.84	1.04	327009	367	326642
242	Thyrotoxicosis with or without goiter	Endocrine/Metabolic	0.97	0.92	1.02	311794	1465	310329
614.33	Pelvic inflammatory disease, NOS	Genitourinary	0.98	0.96	1.01	324944	6145	318799
530.5	Disorders of esophageal motility	Digestive	1.05	0.97	1.14	288452	649	287803
790.6	Other abnormal blood chemistry	Symptoms	0.98	0.96	1.01	328029	6529	321500
199	Neoplasm of uncertain behavior	Neoplasms	0.96	0.91	1.02	230468	1156	229312
597	Other disorders of urethra and urinary tract	Genitourinary	0.96	0.90	1.02	314510	874	313636
450	Noninfectious disorders of lymphatic channels	Circulatory System	0.95	0.89	1.03	328240	717	327523
433.3	Cerebral ischemia	Circulatory System	0.96	0.90	1.02	319041	934	318107
290.2	Delirium due to conditions classified elsewhere	Mental Disorders	0.95	0.88	1.03	322151	681	321470
695.42	Systemic lupus erythematosus	Dermatologic	1.07	0.96	1.18	320784	363	320421
226	Benign neoplasm of thyroid glands	Neoplasms	1.08	0.96	1.22	326908	266	326642
528.11	Stomatitis and mucositis (ulcerative)	Digestive	1.06	0.96	1.17	322945	411	322534
575.8	Other disorders of biliary tract	Digestive	0.96	0.91	1.02	311372	1049	310323
938.2	Chronic dermatitis due to solar radiation	Injuries & Poisonings	0.93	0.82	1.05	322170	264	321906
276.14	Hypopotassemia	Endocrine/Metabolic	0.97	0.92	1.02	322115	1471	320644
634	Miscarriage; stillbirth	Pregnancy Complications	0.98	0.95	1.01	324534	4569	319965
195	Cancer, suspected or other	Neoplasms	1.04	0.98	1.11	230227	915	229312
348.8	Encephalopathy, not elsewhere classified	Neurological	1.09	0.95	1.25	286356	204	286152
361.1	Retinal detachment with retinal defect	Sense Organs	0.97	0.92	1.02	318238	1456	316782

803.1	Fracture of humerus	Injuries & Poisonings	0.93	0.83	1.05	323850	293	323557
752	Nervous system congenital anomalies	Congenital Anomalies	0.93	0.83	1.05	327963	288	327675
870.4	Open wound of nose and sinus	Injuries & Poisonings	1.08	0.95	1.23	319969	238	319731
364.5	Corneal dystrophy	Sense Organs	1.08	0.95	1.24	316998	216	316782
281.11	Pernicious anemia	Hematopoietic	0.96	0.89	1.03	309650	750	308900
530	Diseases of esophagus	Digestive	1.04	0.97	1.12	288604	801	287803
647.1	Infections of genitourinary tract during pregnancy	Pregnancy Complications	1.07	0.95	1.21	328128	284	327844
465.2	Acute pharyngitis	Respiratory	0.96	0.90	1.03	326053	874	325179
372	Disorders of conjunctiva	Sense Organs	0.96	0.91	1.02	319431	1043	318388
618.2	Uterine/Uterovaginal prolapse	Genitourinary	1.02	0.99	1.04	321713	5471	316242
345.1	Epilepsy	Neurological	1.07	0.96	1.19	286483	331	286152
965.1	Opiates and related narcotics causing adverse effects in therapeutic use	Injuries & Poisonings	1.04	0.98	1.10	301372	1161	300211
286.12	Congenital deficiency of other clotting factors (including factor VII)	Hematopoietic	0.93	0.83	1.05	325800	303	325497
743.9	Osteopenia or other disorder of bone and cartilage	Musculoskeletal	0.98	0.95	1.01	328188	3989	324199
574.1	Cholelithiasis	Digestive	1.01	0.99	1.03	319629	9306	310323
702.1	Actinic keratosis	Dermatologic	1.02	0.98	1.06	325264	2664	322600
646	Other complications of pregnancy NEC	Pregnancy Complications	1.03	0.98	1.07	328240	2396	325844
610.8	Other specified benign mammary dysplasias	Genitourinary	1.05	0.97	1.13	321576	703	320873
735.3	Hallux valgus (Bunion)	Musculoskeletal	1.01	0.99	1.04	323592	6905	316687
458.1	Orthostatic hypotension	Circulatory System	0.97	0.92	1.02	195553	1374	194179
624.9	stress incontinence, female	Genitourinary	1.02	0.99	1.04	324769	6100	318669
967	Adverse effects of sedatives or other central nervous system depressants and anesthetics	Injuries & Poisonings	0.95	0.88	1.03	300790	579	300211
426.23	Second degree AV block	Circulatory System	1.06	0.96	1.16	299982	461	299521
442.11	Abdominal aortic aneurysm	Circulatory System	0.96	0.90	1.03	320257	897	319360
316	Substance addiction and disorders	Mental Disorders	1.06	0.96	1.17	298042	373	297669
740.12	Osteoarthrosis, localized, secondary	Musculoskeletal	0.93	0.82	1.05	306589	264	306325
365.11	Primary open angle glaucoma	Sense Organs	1.04	0.98	1.10	317838	1056	316782
727.1	Synovitis and tenosynovitis	Musculoskeletal	1.04	0.97	1.13	305641	687	304954
200	Myeloproliferative disease	Neoplasms	1.04	0.97	1.13	324202	679	323523
585.1	Acute renal failure	Genitourinary	0.98	0.95	1.01	318744	4665	314079
556	Ulceration of the lower GI tract	Digestive	0.95	0.86	1.04	258836	440	258396
427.41	Ventricular fibrillation and flutter	Circulatory System	1.06	0.96	1.18	299866	345	299521
627.3	Postmenopausal atrophic vaginitis	Genitourinary	1.03	0.98	1.10	297359	1128	296231
278.1	Obesity	Endocrine/Metabolic	0.99	0.97	1.01	328110	11143	316967
246	Other disorders of thyroid	Endocrine/Metabolic	0.99	0.98	1.01	327738	17409	310329
504	Other alveolar and parietoalveolar pneumonopathy	Respiratory	0.94	0.84	1.05	316793	309	316484
337	Disorders of the autonomic nervous system	Neurological	1.08	0.94	1.24	286359	207	286152
218.1	Uterine leiomyoma	Neoplasms	0.99	0.97	1.01	318346	10566	307780

180.3	Cervical intraepithelial neoplasia [CIN] [Cervical dysplasia]	Neoplasms	1.02	0.98	1.07	299736	2153	297583
526.1	Cysts of the jaws	Digestive	1.06	0.96	1.18	311993	335	311658
512.7	Shortness of breath	Respiratory	1.01	0.99	1.04	320384	6116	314268
704	Diseases of hair and hair follicles	Dermatologic	1.02	0.99	1.04	326692	5263	321429
184.1	Malignant neoplasm of ovary and other uterine adnexa	Neoplasms	0.98	0.94	1.02	308106	2553	305553
560.1	Paralytic ileus	Digestive	0.95	0.87	1.04	258916	520	258396
297.2	Suicide or self-inflicted injury	Mental Disorders	1.02	0.98	1.06	285655	2757	282898
213	Benign neoplasm of bone and articular cartilage	Neoplasms	1.06	0.95	1.19	277528	322	277206
526.41	Temporomandibular joint disorder, unspecified	Digestive	1.08	0.95	1.22	311886	228	311658
292	Neurological disorders	Mental Disorders	1.05	0.96	1.16	321919	449	321470
724.1	Disorders of sacrum	Musculoskeletal	0.94	0.83	1.05	311225	281	310944
202	Cancer of other lymphoid, histiocytic tissue	Neoplasms	0.97	0.91	1.03	324661	1138	323523
272.9	Unspecified disorder of lipoid metabolism	Endocrine/Metabolic	0.93	0.81	1.06	291721	224	291497
559	Ileostomy status	Digestive	1.03	0.98	1.08	260069	1673	258396
686.1	Carbuncle and furuncle	Dermatologic	1.02	0.98	1.06	318829	2422	316407
70.4	Chronic hepatitis	Infectious Diseases	1.07	0.95	1.20	322496	290	322206
724.2	Disorders of coccyx	Musculoskeletal	0.94	0.83	1.05	311226	282	310944
569	Other disorders of intestine	Digestive	1.00	1.00	1.01	326148	79488	246660
145.2	Cancer of tongue	Neoplasms	0.94	0.84	1.05	326366	325	326041
590	Pyelonephritis	Genitourinary	1.02	0.99	1.05	300960	3925	297035
272.11	Hypercholesterolemia	Endocrine/Metabolic	0.99	0.98	1.01	325499	34002	291497
598	Abnormal findings on examination of urine	Genitourinary	1.02	0.98	1.05	328240	3386	324854
571.6	Primary biliary cirrhosis	Digestive	0.93	0.83	1.06	318589	258	318331
172.2	Other non-epithelial cancer of skin	Neoplasms	1.01	0.99	1.03	325462	11242	314220
636.3	Hemorrhage in early pregnancy	Pregnancy Complications	1.03	0.97	1.10	321078	1113	319965
579	Other symptoms involving abdomen and pelvis	Digestive	0.97	0.92	1.03	304580	1186	303394
274.1	Gout	Endocrine/Metabolic	0.97	0.93	1.02	327930	1668	326262
592.13	Chronic interstitial cystitis	Genitourinary	0.93	0.83	1.06	297289	254	297035
530.1	Esophagitis, GERD and related diseases	Digestive	0.99	0.97	1.01	297342	9539	287803
276.6	Fluid overload	Endocrine/Metabolic	0.95	0.87	1.04	321117	473	320644
858	Complication of internal orthopedic device	Injuries & Poisonings	0.98	0.95	1.02	317147	3183	313964
771	Musculoskeletal symptoms referable to limbs	Symptoms	1.04	0.97	1.11	327405	891	326514
371.3	Inflammation of eyelids	Sense Organs	0.98	0.94	1.02	320786	2398	318388
78	Viral warts & HPV	Infectious Diseases	1.03	0.97	1.10	323218	1012	322206
540.1	Appendicitis	Digestive	1.04	0.97	1.11	325174	795	324379
367.1	Myopia	Sense Organs	1.03	0.97	1.09	327025	1271	325754
618.1	Prolapse of vaginal walls	Genitourinary	1.01	0.99	1.04	323726	7484	316242
854	Complications of cardiac/vascular device, implant, and graft	Injuries & Poisonings	0.98	0.93	1.02	315807	1843	313964

250.7	Diabetic retinopathy	Endocrine/Metabolic	0.97	0.92	1.03	317232	1380	315852
519.8	Other diseases of respiratory system, NEC	Respiratory	1.01	0.99	1.03	274529	9082	265447
614.51	Cervicitis and endocervicitis	Genitourinary	0.97	0.92	1.03	320048	1249	318799
535.2	Atrophic gastritis	Digestive	1.06	0.95	1.17	296869	358	296511
625	Pain and other symptoms associated with female genital organs	Genitourinary	0.98	0.93	1.02	320718	2049	318669
597.1	Urethral stricture (not specified as infectious)	Genitourinary	1.02	0.98	1.05	317079	3443	313636
317.1	Alcoholism	Mental Disorders	0.99	0.97	1.01	306366	8697	297669
994.2	Sepsis	Injuries & Poisonings	0.98	0.95	1.02	328240	2885	325355
557	Intestinal malabsorption (non-celiac)	Digestive	1.06	0.95	1.19	258690	294	258396
655	Known or suspected fetal abnormality affecting management of mother	Pregnancy Complications	1.02	0.99	1.05	328240	4575	323665
427.11	Paroxysmal supraventricular tachycardia	Circulatory System	0.98	0.94	1.02	301952	2431	299521
296.1	Bipolar	Mental Disorders	1.03	0.97	1.09	284019	1121	282898
728.7	Fasciitis	Musculoskeletal	0.93	0.81	1.07	305167	213	304954
870.1	Open wound or laceration of eye or eyelid	Injuries & Poisonings	0.94	0.84	1.06	320012	281	319731
727	Other disorders of synovium, tendon, and bursa	Musculoskeletal	1.04	0.97	1.12	305708	754	304954
289.3	Personal history of diseases of blood and blood-forming organs	Hematopoietic	0.94	0.84	1.06	320615	297	320318
514	Abnormal findings examination of lungs	Respiratory	1.02	0.98	1.06	328212	2577	325635
455	Hemorrhoids	Circulatory System	0.99	0.98	1.01	312410	24697	287713
153.2	Colon cancer	Neoplasms	0.98	0.95	1.02	304402	3122	301280
172.3	Carcinoma in situ of skin	Neoplasms	1.04	0.96	1.12	314884	664	314220
751.22	Other specified congenital anomalies of kidney	Congenital Anomalies	0.95	0.85	1.05	326353	350	326003
516.1	Hemoptysis	Respiratory	1.02	0.98	1.07	328154	2103	326051
458.2	Iatrogenic hypotension	Circulatory System	0.94	0.82	1.06	194417	238	194179
225.1	Benign neoplasm of brain, cranial nerves, meninges	Neoplasms	1.04	0.97	1.11	327267	820	326447
427.4	Cardiac arrest and ventricular fibrillation	Circulatory System	1.06	0.95	1.17	299869	348	299521
613.1	Inflammatory disease of breast	Genitourinary	0.96	0.90	1.04	323156	738	322418
208	Benign neoplasm of colon	Neoplasms	0.99	0.98	1.01	325437	20827	304610
506	Empyema and pneumothorax	Respiratory	0.97	0.92	1.03	317630	1146	316484
496.21	Obstructive chronic bronchitis	Respiratory	0.98	0.94	1.02	296921	2729	294192
276.41	Acidosis	Endocrine/Metabolic	0.97	0.91	1.03	321700	1056	320644
741	Symptoms and disorders of the joints	Musculoskeletal	1.01	0.99	1.02	327531	16889	310642
696.4	Psoriasis	Dermatologic	1.02	0.98	1.08	315554	1622	313932
70	Viral hepatitis	Infectious Diseases	1.04	0.96	1.12	322928	722	322206
737.3	Kyphoscoliosis and scoliosis	Musculoskeletal	0.95	0.86	1.05	317058	371	316687
187.1	Malignant neoplasm of unspecified male genital organ	Neoplasms	0.99	0.97	1.01	327699	8481	319218
153.3	Malignant neoplasm of rectum, rectosigmoid junction, and anus	Neoplasms	0.98	0.94	1.02	303397	2117	301280
443.1	Raynaud's syndrome	Circulatory System	1.03	0.97	1.09	320525	1165	319360
740.11	Osteoarthrosis, localized, primary	Musculoskeletal	1.01	0.99	1.03	315552	9227	306325

359.2	Myopathy	Neurological	0.96	0.88	1.05	326450	498	325952
751.2	Congenital anomalies of urinary system	Congenital Anomalies	0.97	0.91	1.03	326908	905	326003
724.9	Other unspecified back disorders	Musculoskeletal	1.01	0.99	1.02	328029	17085	310944
189	Cancer of urinary organs (incl. kidney and bladder)	Neoplasms	1.02	0.98	1.06	326965	3003	323962
350.3	Lack of coordination	Neurological	1.05	0.95	1.17	325804	360	325444
604	Disorders of penis	Genitourinary	1.04	0.96	1.11	308641	735	307906
512.1	Wheezing	Respiratory	1.07	0.94	1.21	314499	231	314268
496	Chronic airway obstruction	Respiratory	0.99	0.97	1.01	301827	7635	294192
594.2	Calculus of lower urinary tract	Genitourinary	0.97	0.90	1.04	320761	830	319931
714.1	Rheumatoid arthritis	Musculoskeletal	1.02	0.98	1.06	319560	2307	317253
573.5	Jaundice (not of newborn)	Digestive	1.03	0.97	1.10	319269	938	318331
352.1	Trigeminal nerve disorders [CN5]	Neurological	0.96	0.87	1.05	313473	462	313011
789	Nausea and vomiting	Symptoms	0.99	0.97	1.01	328240	11983	316257
608	Other disorders of male genital organs	Genitourinary	1.01	0.99	1.02	327998	20092	307906
136	Other infectious and parasitic diseases	Infectious Diseases	1.05	0.95	1.15	327982	428	327554
275.1	Disorders of iron metabolism	Hematopoietic	1.04	0.96	1.12	326735	700	326035
564.1	Irritable Bowel Syndrome	Digestive	1.01	0.99	1.04	264057	5661	258396
836	Traumatic arthropathy	Injuries & Poisonings	1.06	0.94	1.20	322016	243	321773
738	Other acquired musculoskeletal deformity	Musculoskeletal	0.95	0.87	1.05	317104	417	316687
362.2	Degeneration of macula and posterior pole of retina	Sense Organs	0.98	0.94	1.02	318055	2203	315852
362.29	Macular degeneration (senile) of retina NOS	Sense Organs	0.98	0.94	1.02	318052	2200	315852
353	Nerve root and plexus disorders	Neurological	1.03	0.97	1.10	314005	994	313011
480	Pneumonia	Respiratory	0.99	0.95	1.02	321603	3914	317689
618	Genital prolapse	Genitourinary	0.96	0.89	1.04	316862	620	316242
384.4	Perforation of tympanic membrane	Sense Organs	0.97	0.91	1.03	325167	1024	324143
613.8	Other specified disorders of breast	Genitourinary	0.95	0.86	1.06	322773	355	322418
327	Sleep disorders	Neurological	1.03	0.97	1.09	323754	1034	322720
716.1	Unspecified polyarthropathy or polyarthritis	Musculoskeletal	1.02	0.98	1.05	277426	3530	273896
364	Corneal opacity and other disorders of cornea	Sense Organs	1.06	0.93	1.21	317009	227	316782
427.7	Tachycardia NOS	Circulatory System	1.02	0.98	1.06	301787	2266	299521
427.5	Arrhythmia (cardiac) NOS	Circulatory System	0.97	0.91	1.03	300469	948	299521
578.1	Hematemesis	Digestive	0.98	0.94	1.02	305428	2034	303394
599.9	Other abnormality of urination	Genitourinary	1.02	0.98	1.07	222371	1944	220427
292.3	Memory loss	Mental Disorders	0.97	0.90	1.04	322208	738	321470
274.21	Chondrocalcinosis	Endocrine/Metabolic	1.05	0.94	1.18	326552	290	326262
250.23	Type 2 diabetes with ophthalmic manifestations	Endocrine/Metabolic	0.98	0.92	1.03	308834	1344	307490
619.4	Noninflammatory disorders of vagina	Genitourinary	1.02	0.97	1.07	280328	1780	278548
715	Other inflammatory spondylopathies	Musculoskeletal	1.06	0.94	1.19	317524	271	317253

602	Other disorders of prostate	Genitourinary	0.98	0.92	1.03	308765	1372	307393
736	Other acquired deformities of limbs	Musculoskeletal	1.05	0.94	1.18	316998	311	316687
430.2	Intracerebral hemorrhage	Circulatory System	0.97	0.90	1.04	318830	723	318107
681.3	Cellulitis and abscess of arm/hand	Dermatologic	0.99	0.96	1.01	322177	5770	316407
276.11	Hyperosmolality and/or hypernatremia	Endocrine/Metabolic	1.06	0.93	1.20	320891	247	320644
269	Proteinuria	Endocrine/Metabolic	1.05	0.94	1.16	327850	355	327495
290.1	Dementias	Mental Disorders	1.03	0.96	1.12	322121	651	321470
550	Abdominal hernia	Digestive	1.00	0.99	1.01	328240	48451	279789
433.5	Cerebral aneurysm	Circulatory System	0.96	0.87	1.06	318505	398	318107
185	Cancer of prostate	Neoplasms	0.99	0.97	1.01	315856	8463	307393
512	Other symptoms of respiratory system	Respiratory	0.99	0.96	1.02	319772	5504	314268
801	Fracture of ankle and foot	Injuries & Poisonings	0.95	0.84	1.07	323808	251	323557
614.32	Chronic inflammatory pelvic disease	Genitourinary	0.96	0.87	1.06	319224	425	318799
512.8	Cough	Respiratory	1.02	0.98	1.05	317232	2964	314268
596.5	Functional disorders of bladder	Genitourinary	1.02	0.97	1.07	315318	1682	313636
81	Infection/inflammation of internal prosthetic device; implant; and graft	Infectious Diseases	0.98	0.95	1.02	323993	2514	321479
218.2	Other benign neoplasm of uterus	Neoplasms	1.05	0.94	1.16	308143	363	307780
681.6	Cellulitis and abscess of foot, toe	Dermatologic	0.99	0.96	1.02	322141	5734	316407
599.4	Urinary incontinence	Genitourinary	1.01	0.99	1.03	229423	8996	220427
433.21	Cerebral artery occlusion, with cerebral infarction	Circulatory System	0.98	0.93	1.03	319641	1534	318107
627.2	Symptomatic menopause	Genitourinary	1.06	0.92	1.22	296434	203	296231
38	Septicemia	Infectious Diseases	0.98	0.95	1.02	315677	3045	312632
344	Other paralytic syndromes	Neurological	0.97	0.90	1.04	286841	689	286152
433.31	Transient cerebral ischemia	Circulatory System	0.98	0.94	1.02	320281	2174	318107
429.2	Abnormal function study of cardiovascular system	Circulatory System	0.97	0.89	1.05	322577	544	322033
369	Infection of the eye	Sense Organs	0.95	0.84	1.08	318642	254	318388
289.5	Diseases of spleen	Hematopoietic	0.97	0.89	1.05	320846	528	320318
381.9	Otorrhea	Sense Organs	0.95	0.85	1.07	324420	277	324143
415	Pulmonary heart disease	Circulatory System	1.01	0.98	1.05	325300	3753	321547
635.3	Placenta previa and abruptio placenta	Pregnancy Complications	1.02	0.97	1.08	321301	1336	319965
681.5	Cellulitis and abscess of leg, except foot	Dermatologic	0.99	0.96	1.02	322184	5777	316407
202.2	Non-Hodgkins lymphoma	Neoplasms	1.01	0.98	1.05	327055	3532	323523
697	Sarcoidosis	Dermatologic	1.03	0.95	1.12	322309	560	321749
327.3	Sleep apnea	Neurological	1.01	0.98	1.04	327419	4699	322720
214.1	Lipoma of skin and subcutaneous tissue	Neoplasms	0.99	0.96	1.02	325432	4756	320676
601.8	Other inflammatory disorders of male genital organs	Genitourinary	0.96	0.85	1.07	307698	305	307393
90	Sexually transmitted infections (not HIV or hepatitis)	Infectious Diseases	1.05	0.93	1.17	328239	298	327941
871	Open wounds of extremities	Injuries & Poisonings	0.99	0.96	1.02	323873	4142	319731

426.4	Anomalous atrioventricular excitation	Circulatory System	1.05	0.93	1.19	299761	240	299521
149.1	Cancer of oropharynx	Neoplasms	1.05	0.93	1.19	326297	256	326041
722	Intervertebral disc disorders	Musculoskeletal	1.01	0.98	1.04	316907	5963	310944
574.2	Calculus of bile duct	Digestive	1.02	0.98	1.05	313011	2688	310323
275.3	Disorders of magnesium metabolism	Endocrine/Metabolic	0.96	0.87	1.06	326410	375	326035
446.5	Giant cell arteritis	Circulatory System	0.96	0.87	1.06	319750	390	319360
389.4	Tinnitus	Sense Organs	1.03	0.95	1.13	318735	541	318194
292.1	Aphasia/speech disturbance	Mental Disorders	0.98	0.93	1.03	323019	1549	321470
801.1	Fracture of foot	Injuries & Poisonings	0.96	0.87	1.06	323975	418	323557
394.3	Aortic valve disease	Circulatory System	0.98	0.93	1.03	322836	1308	321528
159	Malignant neoplasm of other and ill-defined sites within the digestive organs and peritoneum	Neoplasms	0.99	0.96	1.02	317620	5289	312331
362	Other retinal disorders	Sense Organs	0.98	0.92	1.04	316825	973	315852
348.7	Coma	Neurological	1.04	0.94	1.15	286531	379	286152
586.4	Stricture/obstruction of ureter	Genitourinary	0.98	0.91	1.04	315018	939	314079
368.4	Visual field defects	Sense Organs	0.96	0.86	1.07	325215	333	324882
805	Fracture of vertebral column without mention of spinal cord injury	Injuries & Poisonings	0.96	0.86	1.07	323890	333	323557
300.12	Agorophobia, social phobia, and panic disorder	Mental Disorders	0.97	0.90	1.05	283642	744	282898
687	Symptoms affecting skin	Dermatologic	0.95	0.83	1.09	323032	218	322814
585.2	Renal failure NOS	Genitourinary	0.99	0.97	1.01	322824	8745	314079
454.1	Varicose veins of lower extremity	Circulatory System	1.01	0.99	1.03	299275	11562	287713
599.3	Dysuria	Genitourinary	1.02	0.97	1.08	221636	1209	220427
386.3	Labyrinthitis	Sense Organs	0.97	0.91	1.04	322440	791	321649
262	Mineral deficiency NEC	Endocrine/Metabolic	1.05	0.92	1.19	326027	241	325786
150	Cancer of esophagus	Neoplasms	1.03	0.96	1.11	313058	727	312331
444	Arterial embolism and thrombosis	Circulatory System	0.97	0.88	1.06	319794	434	319360
348.2	Cerebral edema and compression of brain	Neurological	1.05	0.93	1.18	286412	260	286152
622.2	Mucous polyp of cervix	Genitourinary	0.99	0.95	1.02	318829	3522	315307
279.7	Other immunological findings	Endocrine/Metabolic	0.96	0.85	1.08	327978	264	327714
195.1	Malignant neoplasm, other	Neoplasms	1.00	0.99	1.00	320138	90826	229312
555.1	Regional enteritis	Digestive	1.02	0.97	1.07	260201	1805	258396
613	Other nonmalignant breast conditions	Genitourinary	0.96	0.87	1.07	322786	368	322418
331.1	Hydrocephalus	Neurological	0.97	0.89	1.06	286652	500	286152
394.7	Disease of tricuspid valve	Circulatory System	0.98	0.92	1.04	322614	1086	321528
189.21	Malignant neoplasm of bladder	Neoplasms	1.02	0.97	1.06	326150	2188	323962
38.1	Gram negative septicemia	Infectious Diseases	1.02	0.96	1.10	313487	855	312632
172.11	Melanomas of skin	Neoplasms	1.01	0.98	1.05	316943	2723	314220
579.8	Nonspecific abnormal findings in stool contents	Digestive	1.02	0.97	1.07	305134	1740	303394
292.4	Altered mental status	Mental Disorders	1.02	0.97	1.06	323742	2272	321470

276.13	Hyperpotassemia	Endocrine/Metabolic	0.98	0.92	1.04	321623	979	320644
427.9	Palpitations	Circulatory System	0.99	0.96	1.02	303480	3959	299521
430.1	Subarachnoid hemorrhage	Circulatory System	1.02	0.96	1.10	318931	824	318107
550.4	Umbilical hernia	Digestive	1.01	0.98	1.04	283693	3904	279789
586	Other disorders of the kidney and ureters	Genitourinary	0.99	0.95	1.02	317490	3411	314079
626.8	Infertility, female	Genitourinary	0.98	0.93	1.03	297638	1407	296231
79	Viral infection	Infectious Diseases	1.01	0.98	1.04	326439	4233	322206
441.1	Acute vascular insufficiency of intestine	Circulatory System	1.04	0.93	1.18	319631	271	319360
614.53	Cyst or abscess of Bartholin's gland	Genitourinary	0.98	0.91	1.05	319602	803	318799
622.1	Polyp of corpus uteri	Genitourinary	1.01	0.99	1.03	323490	8183	315307
698	Pruritus and related conditions	Dermatologic	1.02	0.96	1.10	328240	799	327441
853	Complication of colostomy or enterostomy	Injuries & Poisonings	1.03	0.95	1.12	314478	514	313964
293	Symptoms involving head and neck	Mental Disorders	1.01	0.97	1.06	327323	2204	325119
747.13	Congenital anomalies of great vessels	Congenital Anomalies	0.98	0.94	1.03	327177	1823	325354
550.5	Ventral hernia	Digestive	1.01	0.98	1.05	283371	3582	279789
509.1	Respiratory failure	Respiratory	0.99	0.94	1.03	318564	2080	316484
557.1	Celiac disease	Digestive	0.98	0.94	1.03	260290	1894	258396
531.3	Duodenal ulcer	Digestive	0.99	0.95	1.02	323644	3095	320549
715.2	Ankylosing spondylitis	Musculoskeletal	0.97	0.87	1.07	317637	384	317253
338.1	Acute pain	Neurological	0.97	0.88	1.07	327846	420	327426
536.8	Dyspepsia and other specified disorders of function of stomach	Digestive	1.04	0.92	1.18	296758	247	296511
495.2	Asthma with exacerbation	Respiratory	1.04	0.92	1.18	294453	261	294192
420.2	Pericarditis	Circulatory System	0.98	0.92	1.04	326070	1087	324983
540	Appendiceal conditions	Digestive	1.01	0.98	1.04	328240	3861	324379
743.11	Osteoporosis NOS	Musculoskeletal	0.99	0.95	1.02	327235	3036	324199
242.1	Graves' disease	Endocrine/Metabolic	0.97	0.88	1.06	310789	460	310329
382	Otalgia	Sense Organs	1.04	0.93	1.16	324458	315	324143
210	Benign neoplasm of lip, oral cavity, and pharynx	Neoplasms	1.02	0.96	1.09	327034	993	326041
800.3	Fracture of tibia and fibula	Injuries & Poisonings	0.97	0.89	1.06	324092	535	323557
612.2	Hypertrophy of breast (Gynecomastia)	Genitourinary	1.02	0.96	1.09	321732	859	320873
289.4	Lymphadenitis	Hematopoietic	0.99	0.95	1.03	323033	2715	320318
740.9	Osteoarthrosis NOS	Musculoskeletal	1.01	0.98	1.04	310757	4432	306325
300.13	Phobia	Mental Disorders	1.03	0.94	1.12	283412	514	282898
749	Congenital anomalies of face and neck	Congenital Anomalies	0.96	0.85	1.08	328137	271	327866
747.11	Cardiac shunt/ heart septal defect	Congenital Anomalies	0.97	0.90	1.06	325935	581	325354
384	Other disorders of tympanic membrane	Sense Organs	0.97	0.88	1.07	324573	430	324143
627	Menopausal and postmenopausal disorders	Genitourinary	1.02	0.96	1.09	297078	847	296231
577.3	Cyst and pseudocyst of pancreas	Digestive	0.97	0.87	1.07	326295	375	325920

523.32	Chronic periodontitis	Digestive	1.03	0.95	1.11	312248	590	311658
614.5	Inflammatory disease of cervix, vagina, and vulva	Genitourinary	1.04	0.93	1.15	319133	334	318799
701.5	Abnormal granulation tissue	Dermatologic	1.03	0.94	1.13	323543	479	323064
591	Urinary tract infection	Genitourinary	1.01	0.99	1.02	309711	12676	297035
323	Encephalitis	Neurological	1.02	0.96	1.09	327999	861	327138
614.1	Pelvic peritoneal adhesions, female (postoperative) (postinfection)	Genitourinary	0.99	0.95	1.03	321370	2571	318799
634.3	Ectopic pregnancy	Pregnancy Complications	1.04	0.93	1.15	320307	342	319965
426.32	Left bundle branch block	Circulatory System	0.99	0.94	1.03	301302	1781	299521
260.6	Anorexia	Endocrine/Metabolic	1.02	0.96	1.09	326636	850	325786
573.7	Abnormal results of function study of liver	Digestive	1.01	0.98	1.04	321896	3565	318331
285.22	Anemia in neoplastic disease	Hematopoietic	0.97	0.88	1.07	309337	437	308900
819	Skull and face fracture and other intercranial injury	Injuries & Poisonings	1.02	0.97	1.07	328056	1517	326539
703.1	Ingrowing nail	Dermatologic	0.98	0.92	1.04	322439	1010	321429
750.21	Congenital anomalies of intestine	Congenital Anomalies	0.96	0.84	1.09	326230	227	326003
964.1	Anticoagulants causing adverse effects	Injuries & Poisonings	1.04	0.92	1.17	300470	259	300211
301	Personality disorders	Mental Disorders	1.03	0.94	1.13	283330	432	282898
579.2	Splenomegaly	Digestive	1.03	0.94	1.13	303837	443	303394
687.1	Rash and other nonspecific skin eruption	Dermatologic	1.01	0.97	1.06	325032	2218	322814
619.2	Disorders of uterus, NEC	Genitourinary	1.01	0.98	1.05	281939	3391	278548
965.3	Salicylates causing adverse effects in therapeutic use	Injuries & Poisonings	0.97	0.88	1.07	300612	401	300211
531.4	Peptic ulcer, site unspecified	Digestive	0.97	0.88	1.07	320998	449	320549
201	Hodgkin's disease	Neoplasms	0.96	0.85	1.09	323794	271	323523
443.7	Peripheral angiopathy in diseases classified elsewhere	Circulatory System	1.03	0.94	1.13	319775	415	319360
528.5	Diseases of lips	Digestive	1.02	0.95	1.10	323215	681	322534
155	Cancer of liver and intrahepatic bile duct	Neoplasms	1.04	0.92	1.18	312576	245	312331
451	Phlebitis and thrombophlebitis	Circulatory System	0.97	0.88	1.07	288110	397	287713
338.2	Chronic pain	Neurological	1.03	0.93	1.14	327830	404	327426
496.3	Bronchiectasis	Respiratory	0.99	0.94	1.03	296077	1885	294192
614.52	Vaginitis and vulvovaginitis	Genitourinary	0.97	0.88	1.07	319219	420	318799
284	Aplastic anemia	Hematopoietic	0.99	0.98	1.01	321659	12759	308900
189.11	Malignant neoplasm of kidney, except pelvis	Neoplasms	0.98	0.92	1.04	324997	1035	323962
333.4	Torsion dystonia	Neurological	0.96	0.85	1.09	286417	265	286152
740.2	Osteoarthrosis, generalized	Musculoskeletal	0.98	0.90	1.06	306914	589	306325
522	Diseases of pulp and periapical tissues	Digestive	1.02	0.95	1.11	312297	639	311658
427.42	Cardiac arrest	Circulatory System	0.98	0.92	1.05	300470	949	299521
714	Rheumatoid arthritis and other inflammatory polyarthropathies	Musculoskeletal	1.01	0.99	1.03	325905	8652	317253
550.1	Inguinal hernia	Digestive	1.00	0.98	1.01	296174	16385	279789
870	Open wounds of head; neck; and trunk	Injuries & Poisonings	0.98	0.90	1.06	320327	596	319731

674	Other complications of the puerperium NEC	Pregnancy Complications	1.04	0.92	1.17	328015	280	327735
585.3	Chronic renal failure [CKD]	Genitourinary	1.01	0.97	1.05	316664	2585	314079
625.1	Dyspareunia	Genitourinary	1.02	0.96	1.08	319824	1155	318669
340	Migraine	Neurological	1.01	0.97	1.05	320723	2773	317950
474.1	Acute tonsillitis	Respiratory	0.98	0.90	1.06	309515	565	308950
430.3	Subdural hemorrhage	Circulatory System	0.97	0.86	1.09	318378	271	318107
275.5	Disorders of calcium/phosphorus metabolism	Endocrine/Metabolic	1.02	0.96	1.08	327144	1109	326035
531.1	Hemorrhage from gastrointestinal ulcer	Digestive	0.98	0.91	1.06	321204	655	320549
626	Disorders of menstruation and other abnormal bleeding from female genital tract	Genitourinary	1.01	0.98	1.04	300178	3947	296231
536	Disorders of function of stomach	Digestive	1.04	0.92	1.17	296768	257	296511
614	Inflammatory diseases of female pelvic organs	Genitourinary	1.03	0.93	1.14	319173	374	318799
694.2	Other dyschromia	Dermatologic	0.98	0.91	1.05	322549	800	321749
447	Other disorders of arteries and arterioles	Circulatory System	1.02	0.94	1.11	319916	556	319360
735.2	Acquired toe deformities	Musculoskeletal	1.01	0.97	1.06	318913	2226	316687
426.9	Cardiac pacemaker/device in situ	Circulatory System	1.04	0.91	1.18	299758	237	299521
610.3	Fibrosclerosis of breast	Genitourinary	0.97	0.86	1.08	321176	303	320873
531.2	Gastric ulcer	Digestive	1.01	0.98	1.04	324777	4228	320549
244.4	Hypothyroidism NOS	Endocrine/Metabolic	1.00	0.98	1.01	324759	14430	310329
823	Fracture of tibia and fibula	Injuries & Poisonings	0.97	0.87	1.08	322362	342	322020
752.11	Spina bifida	Congenital Anomalies	0.96	0.84	1.10	327886	211	327675
705.8	Hyperhidrosis	Dermatologic	1.02	0.94	1.11	318896	602	318294
723	Other disorders of cervical region	Musculoskeletal	1.03	0.93	1.13	311345	401	310944
385.3	Cholesteatoma	Sense Organs	1.02	0.94	1.11	324732	589	324143
433.1	Occlusion and stenosis of precerebral arteries	Circulatory System	0.98	0.92	1.04	319149	1042	318107
729.1	Rheumatism, unspecified and fibrositis	Musculoskeletal	1.03	0.93	1.14	305341	387	304954
383	Otosclerosis	Sense Organs	1.03	0.93	1.15	324473	330	324143
835	Internal derangement of knee	Injuries & Poisonings	1.01	0.98	1.04	326012	4239	321773
575.7	Other disorders of gallbladder	Digestive	1.01	0.96	1.07	311719	1396	310323
198.1	Secondary malignancy of lymph nodes	Neoplasms	0.99	0.97	1.02	234815	5503	229312
348.9	Other conditions of brain, NOS	Neurological	1.03	0.93	1.13	286559	407	286152
621	Endometrial hyperplasia	Genitourinary	1.02	0.96	1.08	316461	1154	315307
303.3	Psychogenic disorder	Mental Disorders	1.02	0.95	1.09	283739	841	282898
368.2	Diplopia and disorders of binocular vision	Sense Organs	1.02	0.95	1.10	325635	753	324882
182	Malignant neoplasm of uterus	Neoplasms	0.99	0.93	1.04	298948	1303	297645
603.1	Hydrocele	Genitourinary	1.01	0.96	1.07	309308	1402	307906
624.1	Dystrophy of female genital tract	Genitourinary	0.97	0.85	1.10	318909	240	318669
345.3	Convulsions	Neurological	0.99	0.95	1.03	288463	2311	286152
575.9	Nonspecific abnormal findings on radiological and other examination of biliary tract	Digestive	1.03	0.93	1.14	310690	367	310323

669	Complications of labor and delivery NEC	Pregnancy Complications	1.01	0.98	1.03	328240	9534	318706
323.8	Encephalitis, non-infectious	Neurological	1.02	0.94	1.10	327771	633	327138
184.2	Cancer of other female genital organs	Neoplasms	0.97	0.87	1.08	305876	323	305553
696.41	Psoriasis vulgaris	Dermatologic	1.01	0.97	1.06	315655	1723	313932
500.2	Pneumoconiosis	Respiratory	1.02	0.96	1.08	317485	1001	316484
427.6	Premature beats	Circulatory System	1.02	0.93	1.12	299979	458	299521
706	Diseases of sebaceous glands	Dermatologic	0.98	0.90	1.06	318889	595	318294
726.2	Synoviopathy	Musculoskeletal	0.97	0.87	1.08	305285	331	304954
340.1	Migrain with aura	Neurological	1.03	0.91	1.18	318167	217	317950
395.2	Nonrheumatic aortic valve disorders	Circulatory System	0.97	0.85	1.10	321775	247	321528
653	Problems associated with amniotic cavity and membranes	Pregnancy Complications	1.01	0.96	1.07	328119	1523	326596
174	Breast cancer	Neoplasms	1.03	0.92	1.16	304712	288	304424
958	Certain early complications of trauma or procedure	Injuries & Poisonings	1.03	0.93	1.13	328118	381	327737
440.2	Atherosclerosis of the extremities	Circulatory System	1.02	0.94	1.11	319912	552	319360
530.7	Gastroesophageal laceration-hemorrhage syndrome	Digestive	1.03	0.92	1.14	288136	333	287803
709.2	Sicca syndrome	Dermatologic	1.02	0.94	1.11	242486	520	241966
519.9	Symptoms involving respiratory system and other chest symptoms	Respiratory	0.97	0.87	1.09	265755	308	265447
626.12	Excessive or frequent menstruation	Genitourinary	1.00	0.97	1.02	306272	10041	296231
523.31	Acute periodontitis	Digestive	0.98	0.91	1.06	312371	713	311658
480.1	Bacterial pneumonia	Respiratory	0.98	0.92	1.05	318628	939	317689
624.2	Atrophy of female genital tract	Genitourinary	1.02	0.93	1.12	319111	442	318669
334.2	Anterior horn cell disease	Neurological	1.03	0.91	1.18	286376	224	286152
532	Dysphagia	Digestive	0.99	0.97	1.02	294356	6553	287803
720	Spinal stenosis	Musculoskeletal	0.98	0.91	1.06	311636	692	310944
433.8	Late effects of cerebrovascular disease	Circulatory System	0.99	0.93	1.04	319384	1277	318107
426.91	Cardiac pacemaker in situ	Circulatory System	0.99	0.95	1.03	301837	2316	299521
735.21	Hammer toe (acquired)	Musculoskeletal	1.01	0.97	1.06	318701	2014	316687
214	Lipoma	Neoplasms	0.99	0.94	1.04	322495	1819	320676
379.5	Disorders of iris and ciliary body	Sense Organs	1.02	0.93	1.13	288604	412	288192
293.1	Swelling, mass, or lump in head and neck [Space-occupying lesion, intracranial NOS]	Mental Disorders	1.02	0.95	1.08	326044	925	325119
564	Functional digestive disorders	Digestive	0.99	0.93	1.05	259379	983	258396
613.9	Breast disorder NOS	Genitourinary	0.99	0.97	1.02	327937	5519	322418
961	Poisoning by other anti-infectives	Injuries & Poisonings	0.98	0.89	1.08	300647	436	300211
761	Cervicalgia	Symptoms	0.99	0.93	1.05	328240	1005	327235
872	Traumatic amputation	Injuries & Poisonings	0.98	0.90	1.07	320213	482	319731
447.1	Stricture of artery	Circulatory System	0.98	0.92	1.05	320246	886	319360
263	Other nutritional deficiency	Endocrine/Metabolic	0.99	0.94	1.04	327337	1551	325786
594.1	Calculus of kidney	Genitourinary	0.99	0.96	1.03	323265	3334	319931

957	Injury to other and unspecified nerves	Injuries & Poisonings	1.03	0.91	1.16	328157	275	327882
771.1	Swelling of limb	Symptoms	0.98	0.92	1.05	327356	842	326514
446.9	Arteritis NOS	Circulatory System	1.03	0.91	1.17	319605	245	319360
165.1	Cancer of bronchus; lung	Neoplasms	1.01	0.97	1.05	327450	2181	325269
302	Sexual and gender identity disorders	Mental Disorders	1.02	0.92	1.14	283238	340	282898
312	Conduct disorders	Mental Disorders	1.01	0.96	1.07	327638	1195	326443
555.2	Ulcerative colitis	Digestive	1.01	0.97	1.04	261550	3154	258396
512.2	Painful respiration	Respiratory	1.03	0.90	1.17	314496	228	314268
568.1	Peritoneal adhesions (postoperative) (postinfection)	Digestive	0.99	0.96	1.03	249757	3097	246660
440	Atherosclerosis	Circulatory System	0.97	0.84	1.11	319564	204	319360
512.9	Other dyspnea	Respiratory	0.99	0.92	1.05	315211	943	314268
575.6	Cholesterolosis of gallbladder	Digestive	0.98	0.89	1.07	310789	466	310323
613.7	Other signs and symptoms in breast	Genitourinary	0.98	0.92	1.06	323169	751	322418
158	Neoplasm of unspecified nature of digestive system	Neoplasms	0.99	0.93	1.05	313429	1098	312331
764	Sciatica	Symptoms	0.99	0.93	1.04	327944	1261	326683
755.1	Congenital deformities of feet	Congenital Anomalies	1.03	0.90	1.17	327531	220	327311
577	Diseases of pancreas	Digestive	1.02	0.94	1.11	326478	558	325920
296.2	Depression	Mental Disorders	1.00	0.98	1.01	295043	12145	282898
287.3	Thrombocytopenia	Hematopoietic	0.99	0.93	1.04	326768	1271	325497
803.3	Fracture of clavicle or scapula	Injuries & Poisonings	0.98	0.87	1.09	323857	300	323557
276.12	Hyposmolality and/or hyponatremia	Endocrine/Metabolic	1.01	0.96	1.06	322496	1852	320644
53	Herpes zoster	Infectious Diseases	1.02	0.92	1.14	322547	341	322206
965	Poisoning by analgesics, antipyretics, and antirheumatics	Injuries & Poisonings	1.01	0.98	1.03	306293	6082	300211
726.1	Enthesopathy	Musculoskeletal	1.01	0.98	1.03	311657	6703	304954
586.2	Cyst of kidney, acquired	Genitourinary	0.99	0.94	1.04	315372	1293	314079
362.4	Retinal vascular changes and abnomalities	Sense Organs	0.99	0.92	1.05	316733	881	315852
381.1	Otitis media	Sense Organs	1.01	0.95	1.07	325296	1153	324143
261.4	Vitamin D deficiency	Endocrine/Metabolic	1.02	0.93	1.12	326194	408	325786
592.1	Cystitis	Genitourinary	0.99	0.95	1.04	299089	2054	297035
788	Syncope and collapse	Symptoms	1.00	0.98	1.02	328240	9372	318868
578.9	Hemorrhage of gastrointestinal tract	Digestive	1.01	0.98	1.03	308849	5455	303394
530.14	Reflux esophagitis	Digestive	1.00	0.98	1.02	298696	10893	287803
369.5	Conjunctivitis, infectious	Sense Organs	1.03	0.90	1.17	318612	224	318388
385.5	Tympanosclerosis and middle ear disease related to otitis media	Sense Organs	0.98	0.86	1.11	324379	236	324143
574.11	Cholelithiasis with acute cholecystitis	Digestive	0.99	0.94	1.04	311836	1513	310323
433	Cerebrovascular disease	Circulatory System	1.00	0.97	1.02	326753	8646	318107
8	Intestinal infection	Infectious Diseases	1.00	0.98	1.03	328240	9161	319079
198.5	Secondary malignancy of brain/spine	Neoplasms	0.99	0.92	1.06	230113	801	229312

367.8	Hypermetropia	Sense Organs	1.02	0.90	1.16	325995	241	325754
619.1	Noninflammatory disorders of ovary, fallopian tube, and broad ligament	Genitourinary	0.99	0.92	1.06	279282	734	278548
610.4	Benign neoplasm of breast	Genitourinary	1.01	0.96	1.06	322359	1486	320873
701.4	Keloid scar	Dermatologic	1.02	0.90	1.17	323292	228	323064
345.11	Generalized convulsive epilepsy	Neurological	1.02	0.93	1.11	286617	465	286152
317	Alcohol-related disorders	Mental Disorders	1.00	0.97	1.02	303529	5860	297669
501	Pneumonitis due to inhalation of food or vomitus	Respiratory	1.02	0.94	1.10	317076	592	316484
427.8	Sinoatrial node dysfunction (Bradycardia)	Circulatory System	0.98	0.89	1.08	299940	419	299521
594	Urinary calculus	Genitourinary	1.00	0.97	1.02	326897	6966	319931
601.4	Balanoposthitis	Genitourinary	1.02	0.91	1.14	307689	296	307393
840	Sprains and strains	Injuries & Poisonings	1.02	0.93	1.11	328201	481	327720
291.8	Alteration of consciousness	Mental Disorders	1.02	0.93	1.12	321904	434	321470
580.2	Nephrotic syndrome without mention of glomerulonephritis	Genitourinary	0.98	0.90	1.08	314575	496	314079
635.2	Antepartum hemorrhage, abruptio placentae, and placenta previa	Pregnancy Complications	1.01	0.95	1.08	320901	936	319965
306.9	Tension headache	Mental Disorders	1.02	0.91	1.14	283203	305	282898
426.21	First degree AV block	Circulatory System	1.01	0.95	1.08	300526	1005	299521
740.1	Osteoarthritis; localized	Musculoskeletal	1.00	0.98	1.02	315797	9472	306325
585.31	Renal dialysis	Genitourinary	0.98	0.90	1.07	314603	524	314079
803	Fracture of upper limb	Injuries & Poisonings	0.98	0.89	1.08	323990	433	323557
649.1	Diabetes or abnormal glucose tolerance complicating pregnancy	Pregnancy Complications	0.98	0.85	1.12	328127	208	327919
296	Mood disorders	Mental Disorders	1.00	0.98	1.01	295853	12955	282898
250.1	Type 1 diabetes	Endocrine/Metabolic	1.01	0.97	1.05	310189	2699	307490
614.4	Inflammatory diseases of uterus, except cervix	Genitourinary	1.02	0.91	1.14	319107	308	318799
261.2	Vitamin B-complex deficiencies	Endocrine/Metabolic	0.99	0.92	1.06	326559	773	325786
701.2	Scar conditions and fibrosis of skin	Dermatologic	0.99	0.95	1.03	325471	2407	323064
250.22	Type 2 diabetes with renal manifestations	Endocrine/Metabolic	1.02	0.89	1.17	307698	208	307490
204	Leukemia	Neoplasms	1.02	0.93	1.11	323984	461	323523
742.9	Other derangement of joint	Musculoskeletal	1.02	0.92	1.12	311042	400	310642
565.1	Anal and rectal polyp	Digestive	1.00	0.97	1.02	254329	7669	246660
520.2	Disturbances in tooth eruption	Digestive	1.01	0.97	1.05	314095	2437	311658
483	Acute bronchitis and bronchiolitis	Respiratory	1.02	0.89	1.18	317889	200	317689
751.12	Congenital anomalies of male genital organs	Congenital Anomalies	1.02	0.90	1.16	326231	228	326003
396	Abnormal heart sounds	Circulatory System	1.01	0.95	1.07	322603	1075	321528
596.1	Bladder neck obstruction	Genitourinary	1.01	0.96	1.05	315665	2029	313636
520	Disorders of tooth development	Digestive	1.01	0.93	1.11	312128	470	311658
342	Hemiplegia	Neurological	1.01	0.96	1.06	287677	1525	286152
747.12	Valvular heart disease/ heart chambers	Congenital Anomalies	0.98	0.86	1.11	325592	238	325354
250.11	Type 1 diabetes with ketoacidosis	Endocrine/Metabolic	0.98	0.87	1.11	307745	255	307490

427	Cardiac dysrhythmias	Circulatory System	0.98	0.88	1.10	299844	323	299521
695.9	Unspecified erythematous condition	Dermatologic	0.99	0.90	1.08	322226	477	321749
615	Endometriosis	Genitourinary	1.00	0.96	1.03	322888	4089	318799
636.2	Early onset of delivery	Pregnancy Complications	0.99	0.91	1.07	320594	629	319965
949	Allergies, other	Injuries & Poisonings	1.02	0.92	1.12	322326	420	321906
610	Benign mammary dysplasias	Genitourinary	1.02	0.89	1.17	321081	208	320873
535.6	Duodenitis	Digestive	1.00	0.98	1.03	304405	7894	296511
941	Adverse reaction to serum or vaccine	Injuries & Poisonings	1.02	0.89	1.16	322128	222	321906
622	Polyp of female genital organs	Genitourinary	0.99	0.90	1.08	315794	487	315307
367.9	Blindness and low vision	Sense Organs	0.99	0.92	1.06	326510	756	325754
212	Benign neoplasm of respiratory and intrathoracic organs	Neoplasms	1.02	0.92	1.13	328240	355	327885
721.1	Spondylosis without myelopathy	Musculoskeletal	1.01	0.95	1.07	312014	1070	310944
550.3	Femoral hernia	Digestive	1.01	0.94	1.09	280442	653	279789
379	Other disorders of eye	Sense Organs	1.00	0.99	1.01	328190	39998	288192
54	Herpes simplex	Infectious Diseases	1.02	0.89	1.16	322425	219	322206
626.14	Irregular menstrual bleeding	Genitourinary	1.00	0.96	1.03	300177	3946	296231
572	Ascites (non malignant)	Digestive	1.01	0.96	1.06	319925	1594	318331
464	Acute sinusitis	Respiratory	1.02	0.89	1.17	325387	208	325179
537	Other disorders of stomach and duodenum	Digestive	1.00	0.96	1.03	299994	3483	296511
386.1	Meniere's disease	Sense Organs	0.99	0.91	1.07	322213	564	321649
471	Nasal polyps	Respiratory	1.00	0.96	1.03	312342	3392	308950
528.7	Sialolithiasis	Digestive	0.98	0.88	1.10	322847	313	322534
227.2	Benign neoplasm of parathyroid gland	Neoplasms	0.99	0.89	1.09	327032	390	326642
530.9	Heartburn	Digestive	0.99	0.95	1.04	289911	2108	287803
300.1	Anxiety disorder	Mental Disorders	1.00	0.97	1.02	288368	5470	282898
357	Inflammatory and toxic neuropathy	Neurological	1.01	0.96	1.06	327375	1423	325952
401.22	Hypertensive chronic kidney disease	Circulatory System	0.99	0.94	1.04	250343	1595	248748
560.2	Impaction of intestine	Digestive	1.02	0.90	1.15	258667	271	258396
807	Fracture of ribs	Injuries & Poisonings	1.02	0.89	1.16	323780	223	323557
756	Other congenital musculoskeletal anomalies	Congenital Anomalies	0.99	0.92	1.06	328123	812	327311
241.1	Nontoxic uninodular goiter	Endocrine/Metabolic	1.01	0.93	1.10	310840	511	310329
830	Dislocation	Injuries & Poisonings	0.99	0.95	1.04	323927	2154	321773
189.4	Malignant neoplasm of other urinary organs	Neoplasms	1.00	0.97	1.04	327185	3223	323962
578.2	Blood in stool	Digestive	1.01	0.97	1.04	306143	2749	303394
285.2	Anemia of chronic disease	Hematopoietic	0.98	0.88	1.10	309194	294	308900
295.1	Schizophrenia	Mental Disorders	0.99	0.91	1.07	283509	611	282898
568	Other disorders of peritoneum	Digestive	1.00	0.96	1.03	250464	3804	246660
803.2	Fracture of radius and ulna	Injuries & Poisonings	0.99	0.93	1.06	324441	884	323557

707	Chronic ulcer of skin	Dermatologic	1.01	0.95	1.07	327959	1260	326699
751.21	Cystic kidney disease	Congenital Anomalies	0.99	0.90	1.08	326461	458	326003
611.3	Lump or mass in breast	Genitourinary	0.99	0.95	1.04	322461	1588	320873
571.81	Portal hypertension	Digestive	1.01	0.93	1.10	318900	569	318331
695.7	Prurigo and Lichen	Dermatologic	0.99	0.92	1.06	322541	792	321749
618.5	Prolapse of vaginal vault after hysterectomy	Genitourinary	1.01	0.93	1.10	316743	501	316242
433.2	Occlusion of cerebral arteries	Circulatory System	1.00	0.96	1.03	321087	2980	318107
960.2	Allergy/adverse effect of penicillin	Injuries & Poisonings	1.00	0.98	1.01	316894	16683	300211
112	Candidiasis	Infectious Diseases	1.01	0.96	1.05	327650	2150	325500
595	Hydronephrosis	Genitourinary	0.99	0.95	1.04	321941	2010	319931
938	Dermatitis due to solar radiation	Injuries & Poisonings	1.00	0.97	1.05	324444	2538	321906
288	Diseases of white blood cells	Hematopoietic	0.99	0.91	1.07	320928	610	320318
600	Hyperplasia of prostate	Genitourinary	1.00	0.98	1.02	318965	11572	307393
531	Peptic ulcer (excl. esophageal)	Digestive	0.99	0.88	1.11	320833	284	320549
191	Malignant and unknown neoplasms of brain and nervous system	Neoplasms	0.98	0.86	1.13	326662	215	326447
389.1	Sensorineural hearing loss	Sense Organs	1.01	0.92	1.11	318658	464	318194
759	Other and unspecified congenital anomalies	Congenital Anomalies	0.99	0.92	1.07	327249	679	326570
747	Cardiac and circulatory congenital anomalies	Congenital Anomalies	1.01	0.95	1.07	326576	1222	325354
285	Other anemias	Hematopoietic	1.00	0.98	1.02	320744	11844	308900
41.1	Staphylococcus infections	Infectious Diseases	1.00	0.97	1.04	315832	3200	312632
339	Other headache syndromes	Neurological	1.00	0.98	1.02	325888	7938	317950
70.3	Viral hepatitis C	Infectious Diseases	1.01	0.91	1.13	322549	343	322206
809	Fracture of unspecified bones	Injuries & Poisonings	0.99	0.90	1.09	323967	410	323557
502	Postinflammatory pulmonary fibrosis	Respiratory	0.99	0.93	1.06	317367	883	316484
575.2	Obstruction of bile duct	Digestive	0.99	0.93	1.06	311135	812	310323
386.2	Peripheral or central vertigo	Sense Organs	1.01	0.92	1.12	322036	387	321649
686	Other local infections of skin and subcutaneous tissue	Dermatologic	1.00	0.98	1.02	327410	11003	316407
245.21	Chronic lymphocytic thyroiditis	Endocrine/Metabolic	0.98	0.86	1.12	310548	219	310329
481	Influenza	Respiratory	1.00	0.98	1.02	327706	10017	317689
577.1	Acute pancreatitis	Digestive	0.99	0.95	1.05	327437	1517	325920
253.2	Pituitary hypofunction	Endocrine/Metabolic	0.99	0.88	1.11	324826	281	324545
727.4	Ganglion and cyst of synovium, tendon, and bursa	Musculoskeletal	1.00	0.96	1.03	307936	2982	304954
592.12	Chronic cystitis	Genitourinary	1.01	0.94	1.08	297948	913	297035
742.8	Articular cartilage disorder	Musculoskeletal	1.01	0.93	1.09	311297	655	310642
870.3	Other open wound of head and face	Injuries & Poisonings	1.00	0.97	1.04	322782	3051	319731
529	Diseases and other conditions of the tongue	Digestive	0.99	0.93	1.06	323485	951	322534
418	Nonspecific chest pain	Circulatory System	1.00	0.99	1.01	326032	30212	295820
610.2	Fibroadenosis of breast	Genitourinary	0.99	0.88	1.10	321189	316	320873

216	Benign neoplasm of skin	Neoplasms	1.00	0.98	1.03	327614	7865	319749
448	Disease of capillaries	Circulatory System	1.00	0.97	1.02	326841	7481	319360
738.4	Acquired spondylolisthesis	Musculoskeletal	1.01	0.90	1.15	316942	255	316687
379.3	Aphakia and other disorders of lens	Sense Organs	1.00	0.98	1.01	308920	20728	288192
368.9	Subjective visual disturbances	Sense Organs	1.01	0.93	1.09	325515	633	324882
618.6	Vaginal enterocele, congenital or acquired	Genitourinary	1.01	0.93	1.09	316909	667	316242
965.2	Antirheumatics causing adverse effects in therapeutic use	Injuries & Poisonings	0.99	0.91	1.08	300710	499	300211
290.11	Alzheimer's disease	Mental Disorders	1.01	0.92	1.11	321872	402	321470
366	Cataract	Sense Organs	1.00	0.98	1.01	323825	16441	307384
785	Abdominal pain	Symptoms	1.00	0.99	1.01	328240	42311	285929
573.9	Abnormal serum enzyme levels	Digestive	0.99	0.87	1.12	318561	230	318331
800	Fracture of lower limb	Injuries & Poisonings	1.01	0.94	1.09	324256	699	323557
197	Chemotherapy	Neoplasms	1.00	0.98	1.01	251774	22462	229312
288.11	Neutropenia	Hematopoietic	1.00	0.96	1.03	323644	3326	320318
380.1	Otitis externa	Sense Organs	1.01	0.93	1.10	327284	532	326752
454.11	Varicose veins of lower extremity, symptomtic	Circulatory System	0.99	0.92	1.07	288365	652	287713
626.13	Irregular menstrual cycle	Genitourinary	1.00	0.96	1.05	298189	1958	296231
317.11	Alcoholic liver damage	Mental Disorders	1.01	0.94	1.08	298534	865	297669
218	Benign neoplasm of uterus	Neoplasms	0.99	0.90	1.09	308168	388	307780
374.3	Ptosis of eyelid	Sense Organs	1.00	0.95	1.04	320284	1896	318388
701	Other hypertrophic and atrophic conditions of skin	Dermatologic	1.00	0.95	1.04	324891	1827	323064
470	Septal Deviations/Turbinate Hypertrophy	Respiratory	1.00	0.97	1.03	313771	4821	308950
296.22	Major depressive disorder	Mental Disorders	1.01	0.91	1.12	283282	384	282898
737	Curvature of spine	Musculoskeletal	0.99	0.92	1.07	317430	743	316687
189.2	Cancer of bladder	Neoplasms	0.99	0.93	1.06	324798	836	323962
627.1	Postmenopausal bleeding	Genitourinary	1.00	0.98	1.02	305697	9466	296231
117	Mycoses	Infectious Diseases	1.00	0.97	1.04	328235	2735	325500
256.4	Polycystic ovaries	Endocrine/Metabolic	0.99	0.86	1.13	324764	219	324545
250.6	Polyneuropathy in diabetes	Endocrine/Metabolic	1.01	0.91	1.12	307871	381	307490
524.3	Anomalies of tooth position/malocclusion	Digestive	1.01	0.90	1.13	311953	295	311658
733	Other disorders of bone and cartilage	Musculoskeletal	0.99	0.91	1.08	316001	569	315432
571	Chronic liver disease and cirrhosis	Digestive	1.01	0.93	1.10	318871	540	318331
174.1	Breast cancer [female]	Neoplasms	1.00	0.96	1.04	306711	2287	304424
300	Anxiety, phobic and dissociative disorders	Mental Disorders	0.99	0.89	1.10	283261	363	282898
990	Effects radiation NOS	Injuries & Poisonings	1.00	0.97	1.04	325633	3244	322389
567	Peritonitis and retroperitoneal infections	Digestive	0.99	0.93	1.06	247550	890	246660
454	Varicose veins	Circulatory System	1.00	0.96	1.05	289316	1603	287713
522.5	Periapical abscess	Digestive	1.00	0.94	1.05	312904	1246	311658

747.1	Cardiac congenital anomalies	Congenital Anomalies	1.01	0.88	1.16	325565	211	325354
721	Spondylosis and allied disorders	Musculoskeletal	0.99	0.93	1.06	311869	925	310944
377	Disorders of optic nerve and visual pathways	Sense Organs	1.01	0.92	1.11	288628	436	288192
577.2	Chronic pancreatitis	Digestive	0.99	0.91	1.08	326456	536	325920
349	Other and unspecified disorders of the nervous system	Neurological	1.00	0.99	1.01	326855	40703	286152
681.1	Cellulitis and abscess of fingers/toes	Dermatologic	1.01	0.93	1.09	316989	582	316407
721.8	Other allied disorders of spine	Musculoskeletal	1.00	0.96	1.03	314171	3227	310944
318	Tobacco use disorder	Mental Disorders	1.00	0.99	1.02	318172	20503	297669
626.2	Dysmenorrhea	Genitourinary	1.00	0.96	1.05	297910	1679	296231
798.1	Chronic fatigue syndrome	Symptoms	1.01	0.93	1.09	325335	606	324729
420.21	Acute pericarditis	Circulatory System	0.99	0.87	1.13	325211	228	324983
474.2	Chronic tonsillitis and adenoiditis	Respiratory	1.00	0.95	1.06	310135	1185	308950
315	Develomental delays and disorders	Mental Disorders	0.99	0.91	1.08	326992	549	326443
569.2	Gastrointestinal complications	Digestive	0.99	0.91	1.09	247132	472	246660
526	Diseases of the jaws	Digestive	1.00	0.99	1.02	327645	15987	311658
523	Gingival and periodontal diseases	Digestive	1.01	0.92	1.10	312187	529	311658
420.3	Endocarditis	Circulatory System	1.01	0.93	1.08	325668	685	324983
365.2	Primary angle-closure glaucoma	Sense Organs	1.01	0.93	1.08	317491	709	316782
605	Erectile dysfunction [ED]	Genitourinary	0.99	0.88	1.11	308197	291	307906
41.2	Streptococcus infection	Infectious Diseases	1.00	0.96	1.05	314280	1648	312632
555.21	Ulcerative colitis (chronic)	Digestive	0.99	0.92	1.08	258967	571	258396
804	Fracture of hand or wrist	Injuries & Poisonings	0.99	0.92	1.07	324232	675	323557
575.1	Cholangitis	Digestive	1.01	0.92	1.10	310820	497	310323
496.1	Emphysema	Respiratory	1.00	0.96	1.05	295918	1726	294192
287.31	Primary thrombocytopenia	Hematopoietic	1.01	0.91	1.11	325925	428	325497
565	Anal and rectal conditions	Digestive	1.00	0.98	1.02	255321	8661	246660
527.2	Sialoadenitis	Digestive	1.01	0.91	1.11	322908	374	322534
526.9	Jaw disease NOS	Digestive	1.00	0.99	1.02	327620	15962	311658
782.3	Edema	Symptoms	1.00	0.96	1.05	328067	1715	326352
443.9	Peripheral vascular disease, unspecified	Circulatory System	1.00	0.96	1.04	321969	2609	319360
791	Gangrene	Symptoms	1.00	0.92	1.08	328240	579	327661
766	Neuralgia, neuritis, and radiculitis NOS	Symptoms	1.01	0.90	1.13	326987	304	326683
198.2	Secondary malignancy of respiratory organs	Neoplasms	1.00	0.96	1.04	231589	2277	229312
345	Epilepsy, recurrent seizures, convulsions	Neurological	1.00	0.97	1.03	289613	3461	286152
411.1	Unstable angina (intermediate coronary syndrome)	Circulatory System	1.00	0.97	1.03	301011	5322	295689
427.3	Other specified cardiac dysrhythmias	Circulatory System	1.00	0.97	1.04	302836	3315	299521
165	Cancer within the respiratory system	Neoplasms	1.00	0.96	1.04	328223	2954	325269
619.5	Noninflammatory disorders of vulva and perineum	Genitourinary	1.00	0.95	1.06	279927	1379	278548

599.2	Retention of urine	Genitourinary	1.00	0.98	1.03	227284	6857	220427
594.8	Renal colic	Genitourinary	1.00	0.96	1.04	322062	2131	319931
351	Other peripheral nerve disorders	Neurological	1.00	0.98	1.02	325903	12892	313011
706.2	Sebaceous cyst	Dermatologic	1.00	0.98	1.02	327401	9107	318294
599	Other symptoms/disorders or the urinary system	Genitourinary	1.00	0.99	1.01	324256	103829	220427
587	Kidney replaced by transpant	Genitourinary	1.01	0.91	1.11	314477	398	314079
623	Hypertrophy of female genital organs	Genitourinary	1.00	0.95	1.06	316579	1272	315307
509.2	Respiratory insufficiency	Respiratory	1.00	0.95	1.05	318272	1788	316484
227.3	Benign neoplasm of pituitary gland and craniopharyngeal duct (pouch)	Neoplasms	1.01	0.90	1.12	326970	328	326642
614.3	Pelvic inflammatory disease (PID)	Genitourinary	0.99	0.88	1.13	319048	249	318799
386	Vertiginous syndromes and other disorders of vestibular system	Sense Organs	1.00	0.96	1.05	323761	2112	321649
198	Secondary malignant neoplasm	Neoplasms	1.00	0.94	1.06	230431	1119	229312
556.1	Ulceration of intestine	Digestive	1.00	0.93	1.08	259087	691	258396
604.1	Redundant prepuce and phimosis/BXO	Genitourinary	1.00	0.96	1.04	310716	2810	307906
535.8	Other specified gastritis	Digestive	1.00	0.98	1.02	304926	8415	296511
735.23	Hallux rigidus	Musculoskeletal	1.00	0.95	1.05	318243	1556	316687
561	Symptoms involving digestive system	Digestive	1.00	0.98	1.02	272941	14545	258396
781	Symptoms involving nervous and musculoskeletal systems	Symptoms	1.00	0.99	1.01	328238	22180	306058
229	Benign neoplasm of unspecified sites	Neoplasms	1.00	0.99	1.01	328240	46165	282075
472	Chronic pharyngitis and nasopharyngitis	Respiratory	1.00	0.94	1.06	309897	947	308950
366.2	Senile cataract	Sense Organs	1.00	0.98	1.02	315842	8458	307384
599.5	Frequency of urination and polyuria	Genitourinary	1.00	0.97	1.03	224574	4147	220427
198.3	Secondary malignant neoplasm of digestive systems	Neoplasms	1.00	0.95	1.05	230877	1565	229312
204.12	Lymphoid leukemia, chronic	Neoplasms	1.00	0.91	1.09	324030	507	323523
783	Fever of unknown origin	Symptoms	1.00	0.97	1.03	328240	4111	324129
760	Back pain	Symptoms	1.00	0.98	1.03	328240	5923	322317
281	Other deficiency anemia	Hematopoietic	1.00	0.98	1.02	317687	8787	308900
596	Other disorders of bladder	Genitourinary	1.00	0.98	1.02	321385	7749	313636
289.8	Polycythemia vera, secondary	Hematopoietic	1.00	0.89	1.12	320039	291	319748
603	Other disorders of testis	Genitourinary	1.00	0.94	1.07	308895	989	307906
378.2	Nystagmus and other irregular eye movements	Sense Organs	1.00	0.88	1.15	288407	215	288192
947	Urticaria	Injuries & Poisonings	1.00	0.90	1.10	322293	387	321906
495	Asthma	Respiratory	1.00	0.99	1.01	320971	26779	294192
628	Ovarian cyst	Genitourinary	1.00	0.97	1.03	301051	4820	296231
8.52	Intestinal infection due to C. difficile	Infectious Diseases	1.00	0.92	1.08	319727	648	319079
521.1	Dental caries	Digestive	1.00	0.97	1.04	314912	3254	311658
292.6	Hallucinations	Mental Disorders	1.00	0.90	1.12	321793	323	321470
496.2	Chronic bronchitis	Respiratory	1.00	0.89	1.12	294485	293	294192

251.1	Hypoglycemia	Endocrine/Metabolic	1.00	0.94	1.06	305952	977	304975
80	Postoperative infection	Infectious Diseases	1.00	0.97	1.03	326101	4622	321479
285.1	Acute posthemorrhagic anemia	Hematopoietic	1.00	0.88	1.12	309167	267	308900
529.1	Glossitis	Digestive	1.00	0.89	1.12	322838	304	322534
687.4	Disturbance of skin sensation	Dermatologic	1.00	0.96	1.04	325793	2979	322814
198.4	Secondary malignant neoplasm of liver	Neoplasms	1.00	0.96	1.04	232009	2697	229312
204.21	Myeloid leukemia, acute	Neoplasms	1.00	0.90	1.12	323842	319	323523
966	Poisoning by anticonvulsants and anti-Parkinsonism drugs	Injuries & Poisonings	1.00	0.92	1.09	300747	536	300211
280.1	Iron deficiency anemias, unspecified or not due to blood loss	Hematopoietic	1.00	0.98	1.02	316402	7502	308900
580.32	Nephritis and nephropathy with pathological lesion	Genitourinary	1.00	0.94	1.06	315157	1078	314079
350.1	Abnormal involuntary movements	Neurological	1.00	0.94	1.07	326371	927	325444
332	Parkinson's disease	Neurological	1.00	0.94	1.06	287334	1182	286152
530.3	Stricture and stenosis of esophagus	Digestive	1.00	0.96	1.05	289757	1954	287803
290	Delirium dementia and amnestic and other cognitive disorders	Mental Disorders	1.00	0.92	1.10	321950	480	321470
204.4	Multiple myeloma	Neoplasms	1.00	0.92	1.09	324097	574	323523
277.4	Disorders of bilirubin excretion	Endocrine/Metabolic	1.00	0.90	1.11	283300	373	282927
241.2	Nontoxic multinodular goiter	Endocrine/Metabolic	1.00	0.93	1.08	311043	714	310329
479	Other upper respiratory disease	Respiratory	1.00	0.98	1.02	324241	15291	308950
535	Gastritis and duodenitis	Digestive	1.00	0.98	1.02	314259	17748	296511
732	Osteochondropathies	Musculoskeletal	1.00	0.87	1.14	315651	219	315432
368	Visual disturbances	Sense Organs	1.00	0.94	1.06	325963	1081	324882
473.4	Voice disturbance	Respiratory	1.00	0.94	1.06	310051	1101	308950
331.9	Cerebral degeneration, unspecified	Neurological	1.00	0.91	1.10	286569	417	286152
289	Other diseases of blood and blood-forming organs	Hematopoietic	1.00	0.97	1.03	325300	4982	320318
610.1	Cystic mastopathy	Genitourinary	1.00	0.94	1.07	321832	959	320873
175	Acquired absence of breast	Neoplasms	1.00	0.96	1.04	305907	2516	303391
535.1	Acute gastritis	Digestive	1.00	0.94	1.06	297704	1193	296511
320	Meningitis	Neurological	1.00	0.91	1.10	327577	439	327138
619	Noninflammatory female genital disorders	Genitourinary	1.00	0.99	1.01	328106	49558	278548
252.1	Hyperparathyroidism	Endocrine/Metabolic	1.00	0.93	1.07	325359	814	324545
707.1	Decubitus ulcer	Dermatologic	1.00	0.90	1.12	327025	326	326699
571.8	Liver abscess and sequelae of chronic liver disease	Digestive	1.00	0.92	1.09	318904	573	318331
228	Hemangioma and lymphangioma, any site	Neoplasms	1.00	0.95	1.05	328240	1635	326605
149	Cancer of larynx, pharynx, nasal cavities	Neoplasms	1.00	0.94	1.07	326986	945	326041
530.11	GERD	Digestive	1.00	0.98	1.02	302292	14489	287803
540.11	Acute appendicitis	Digestive	1.00	0.96	1.04	327037	2658	324379
686.4	Pyogenic granuloma	Dermatologic	1.00	0.90	1.11	316787	380	316407
519.2	Respiratory complications	Respiratory	1.00	0.89	1.12	265743	296	265447

Supplementary Table 17. Descriptive characteristics of the UK Biobank and Vanderbilt University Biobank (BioVU) cohorts.

Cohort	Total number	Age, years	Sex, female	BMI	SBP, mmHg	DBP, mmHg	Current smoker
UK Biobank	424,439	56.8 (8.0)	229,239 (54.0%)	27.4 (4.8)	138.1 (18.6)	82.2 (10.13)	43,928 (10.4%)
BioVU	45,517	60.8 (20.9	25,148 (61.7%)	28.7 (7.7)	124.5 (13.2)	71.3 (8.8)	13,701 (30.1%)

Mean (standard deviation) is given for continuous variable and number (%) for categorical variables. BMI: Body Mass Index, SBP: Systolic Blood Pressure, DBP: Diastolic Blood Pressure.

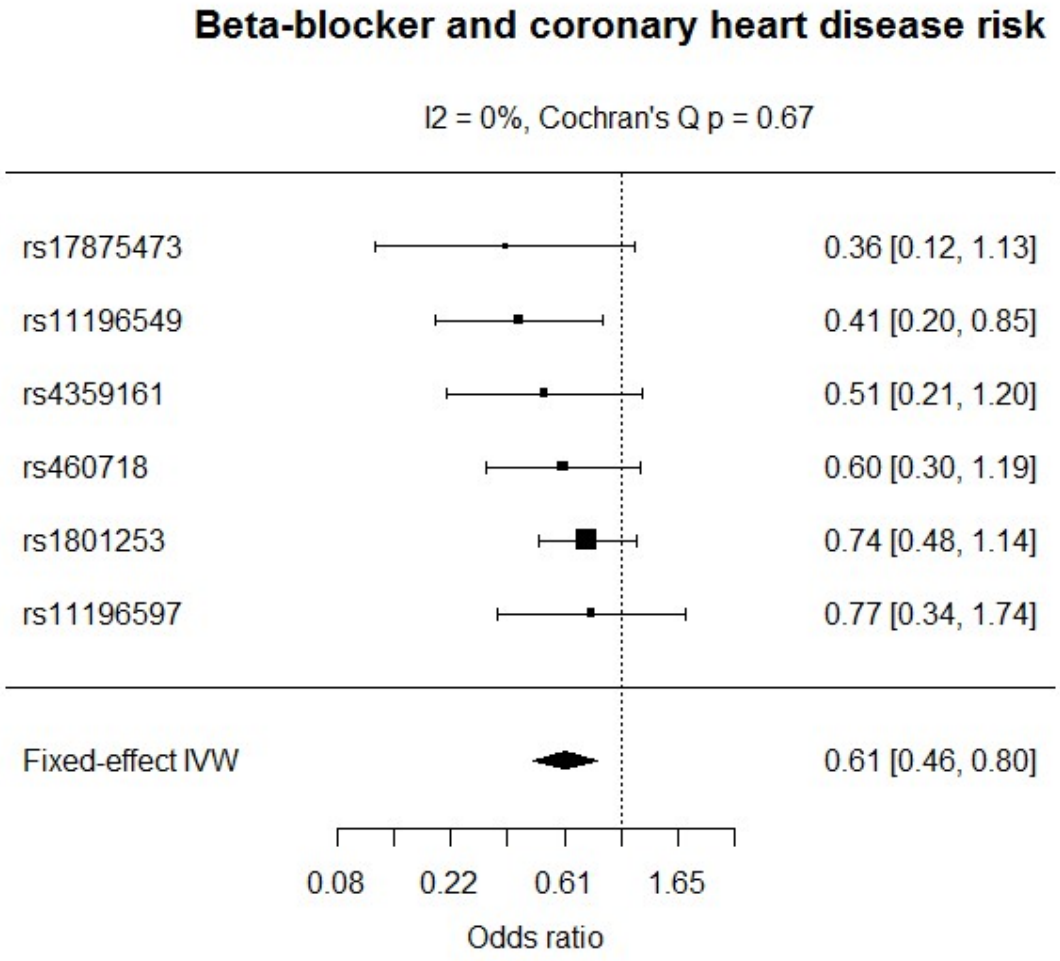
Supplementary Table 18. Cox regression results for the association between antihypertensive drug classes and risk of diverticulosis.

Antihypertensive class	N	Diverticulosis cases	Hazard Ratio	Lower 95% CI	Upper 95% CI	P
ACEI	7210	162	1.00	0.79	1.26	0.99
ARB	4021	111	1.11	0.86	1.43	0.42
BB	6908	191	1.14	0.91	1.42	0.24
CCB	6756	180	1.09	0.88	1.35	0.43
Dihydropyridine CCB	5961	142	1.01	0.80	1.28	0.91
Non-dihydropyridine CCB	782	37	1.49	1.03	2.14	0.03
Two drug classes	18488	465	0.95	0.78	1.15	0.61
Three of more drug classes	5741	162	1.02	0.81	1.28	0.90

Thiazide diuretics are modelled as the reference category (N=5501, Diverticulosis cases=138). The analysis of any CCB subclass was performed in a separate model. ACEI: angiotensin-converting-enzyme inhibitor; ARB: angiotensin receptor blocker; BB: beta-blocker; CCB: calcium channel blocker.

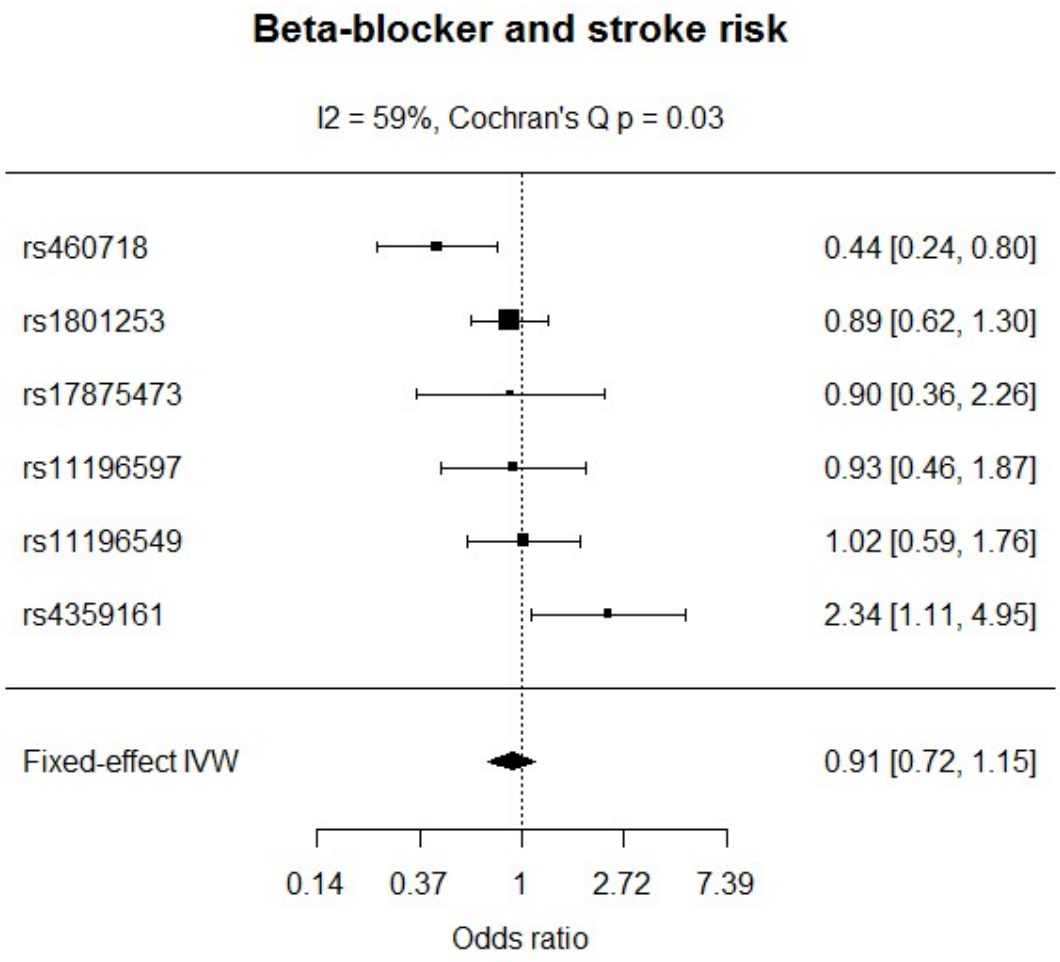
Supplemental Figures

Supplementary Figure 1. Individual ratio method Mendelian randomization estimates for the analysis of beta-blockers and coronary heart disease risk.



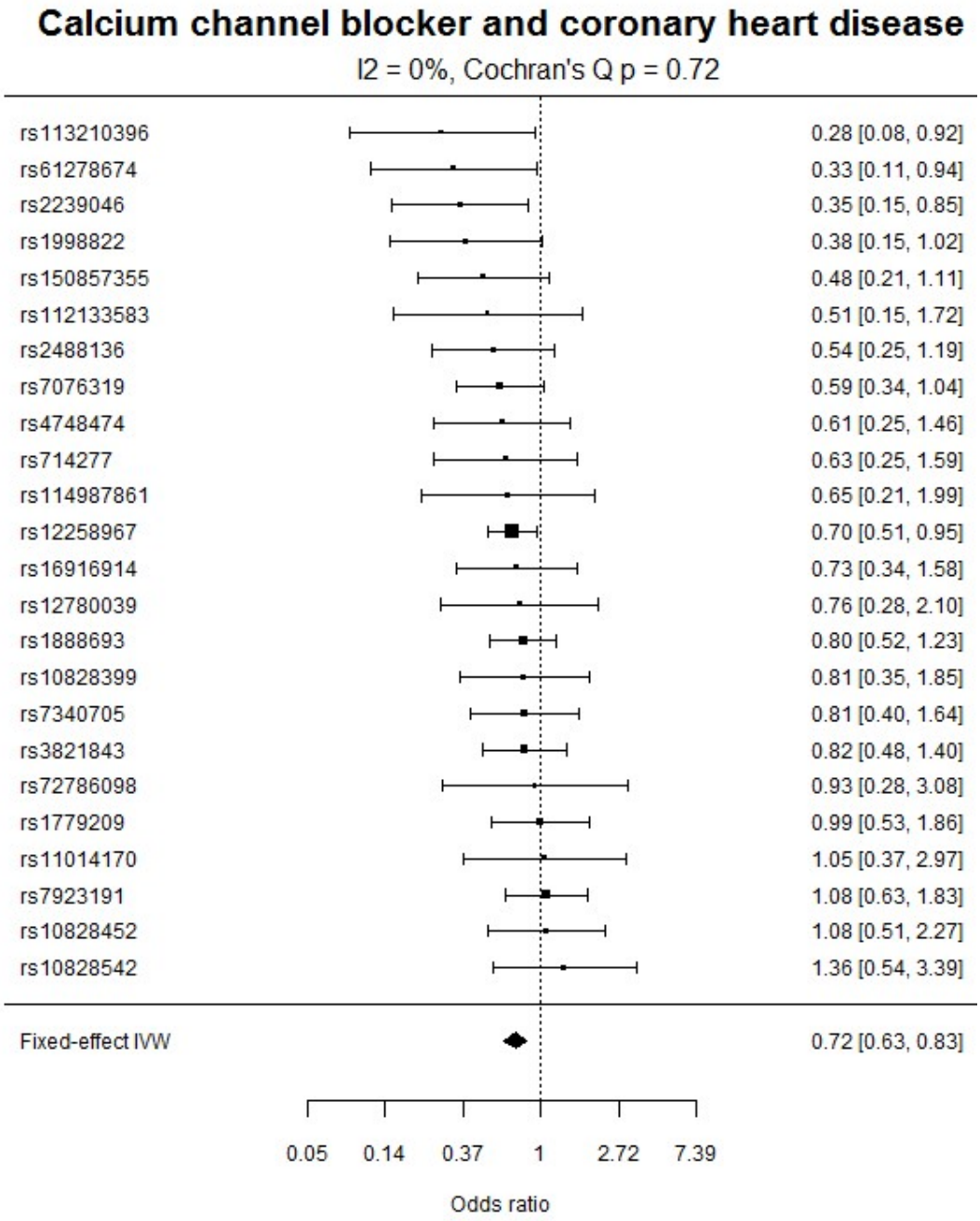
IVW: inverse-variance weighted.

Supplementary Figure 2. Individual ratio method Mendelian randomization estimates for the analysis of beta-blockers and stroke risk.



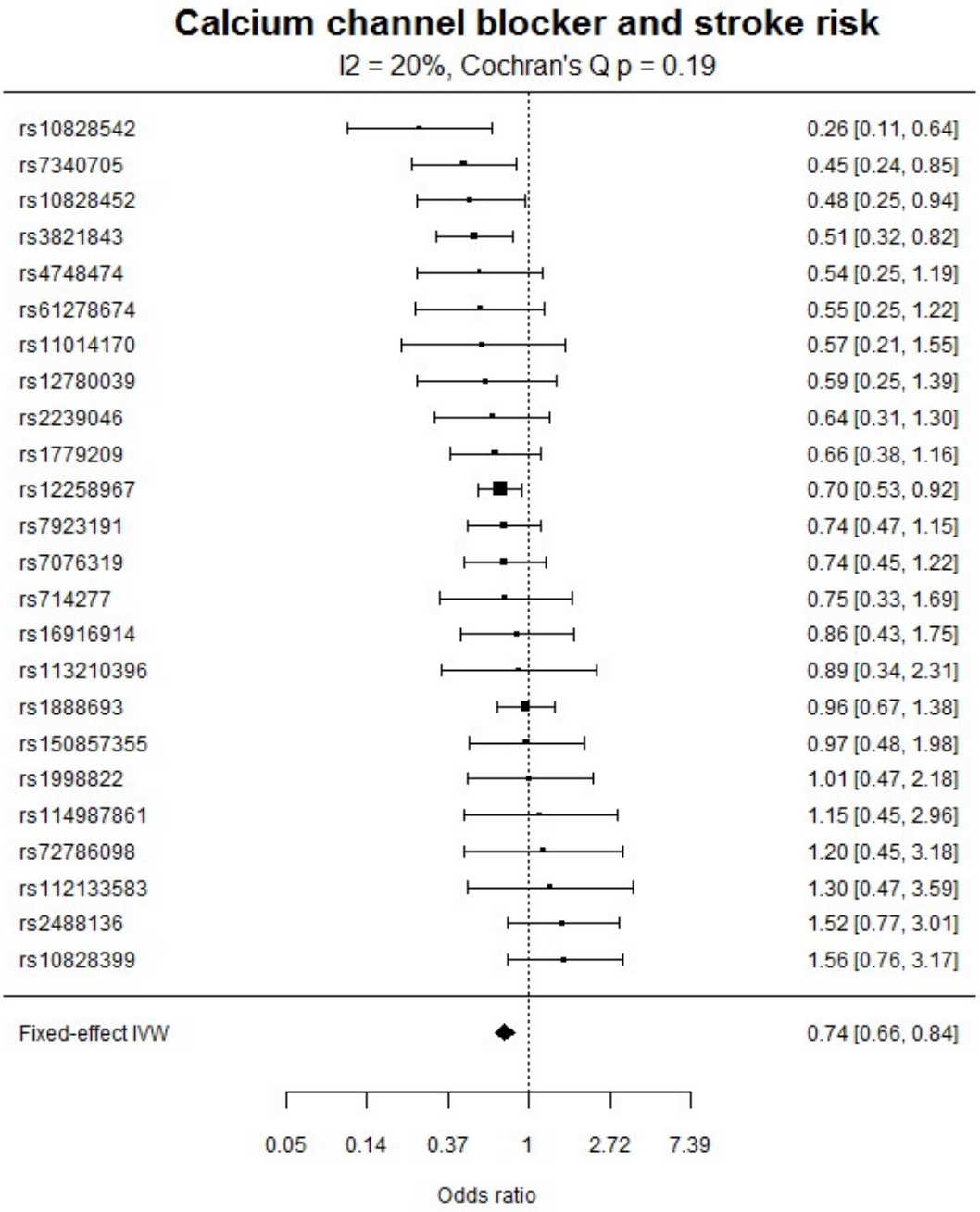
IVW: inverse-variance weighted.

Supplementary Figure 3. Individual ratio method Mendelian randomization estimates for the analysis of calcium channel blockers and coronary heart disease risk.



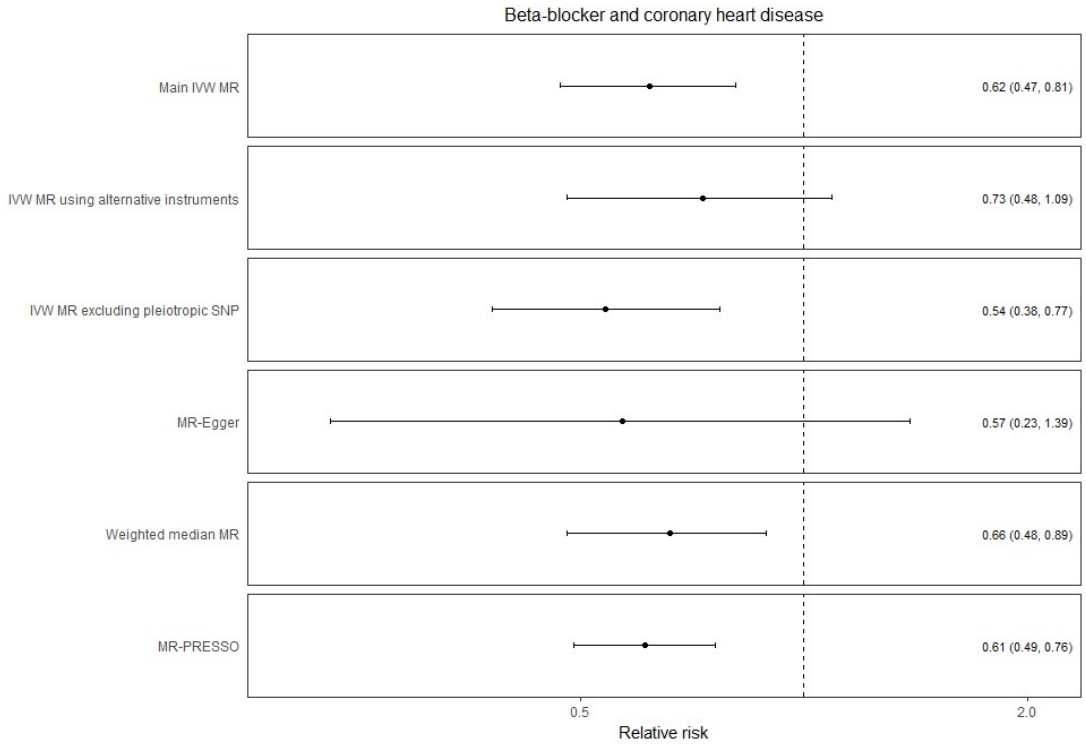
IVW: inverse-variance weighted.

Supplementary Figure 4. Individual ratio method Mendelian randomization estimates for the analysis of calcium channel blockers and stroke risk.



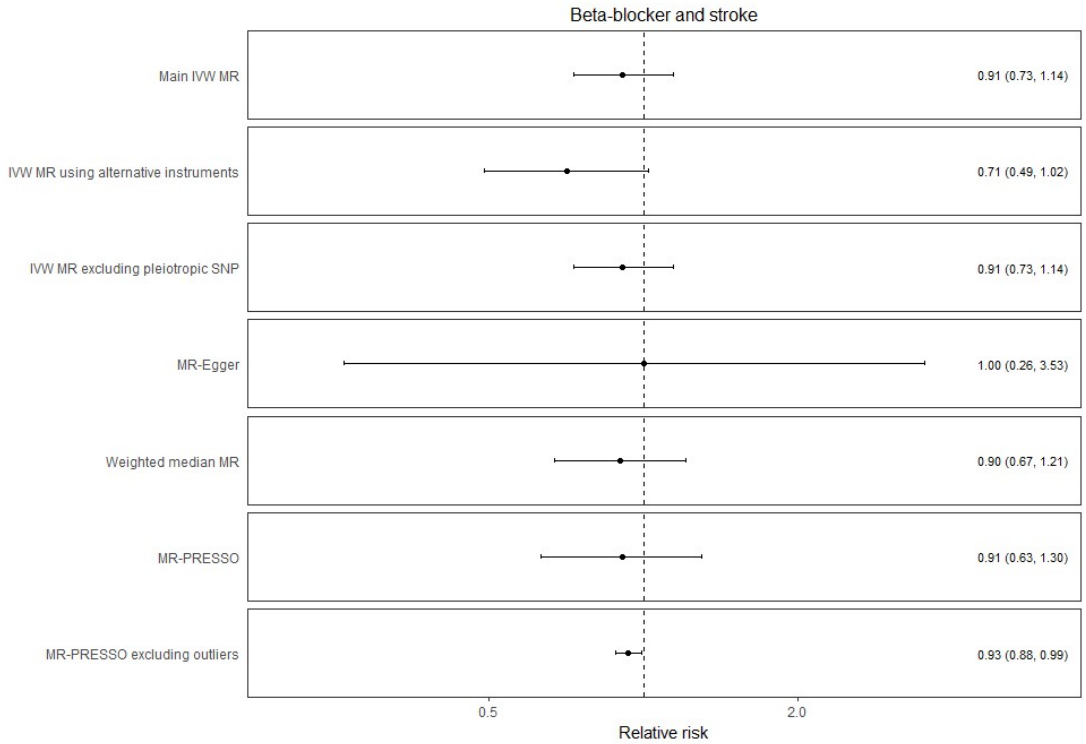
IVW: inverse-variance weighted.

Supplementary Figure 5. Mendelian randomization (MR) sensitivity analyses for the analysis of beta-blockers and coronary heart disease risk.



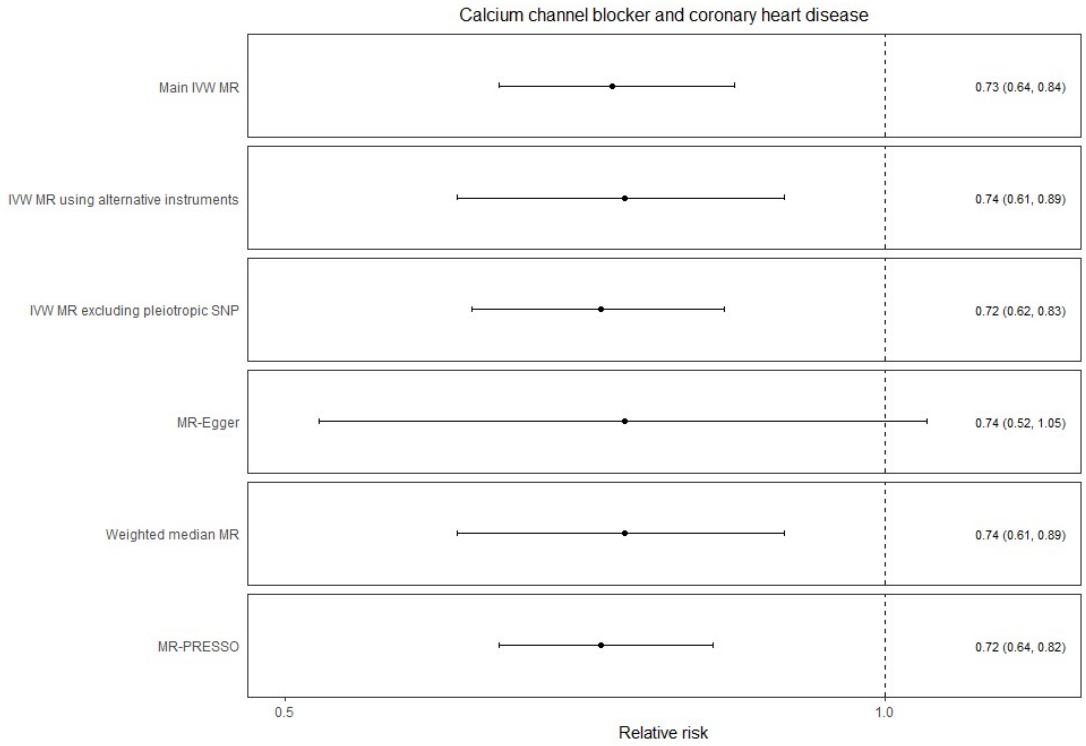
IVW: inverse-variance weighted; SNP: single-nucleotide polymorphism.

Supplementary Figure 6. Mendelian randomization sensitivity analyses for the analysis of beta-blockers and stroke risk.



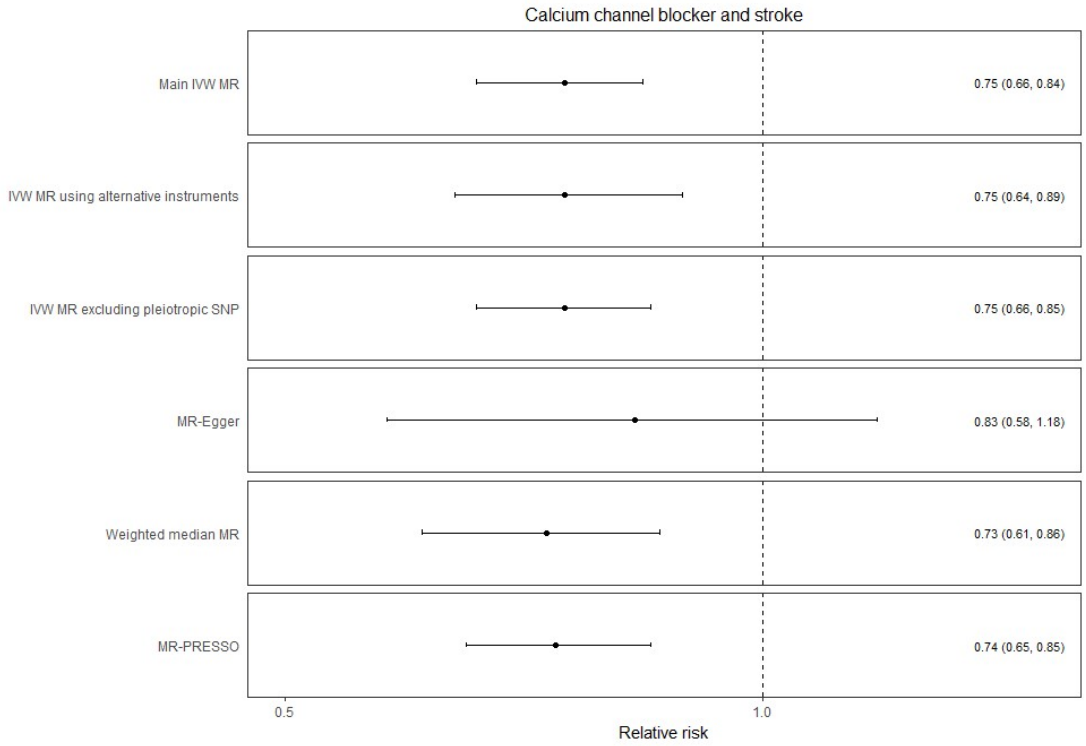
IVW: inverse-variance weighted; SNP: single-nucleotide polymorphism.

Supplementary Figure 7. Mendelian randomization sensitivity analyses for the analysis of calcium channel blockers and coronary heart disease risk.



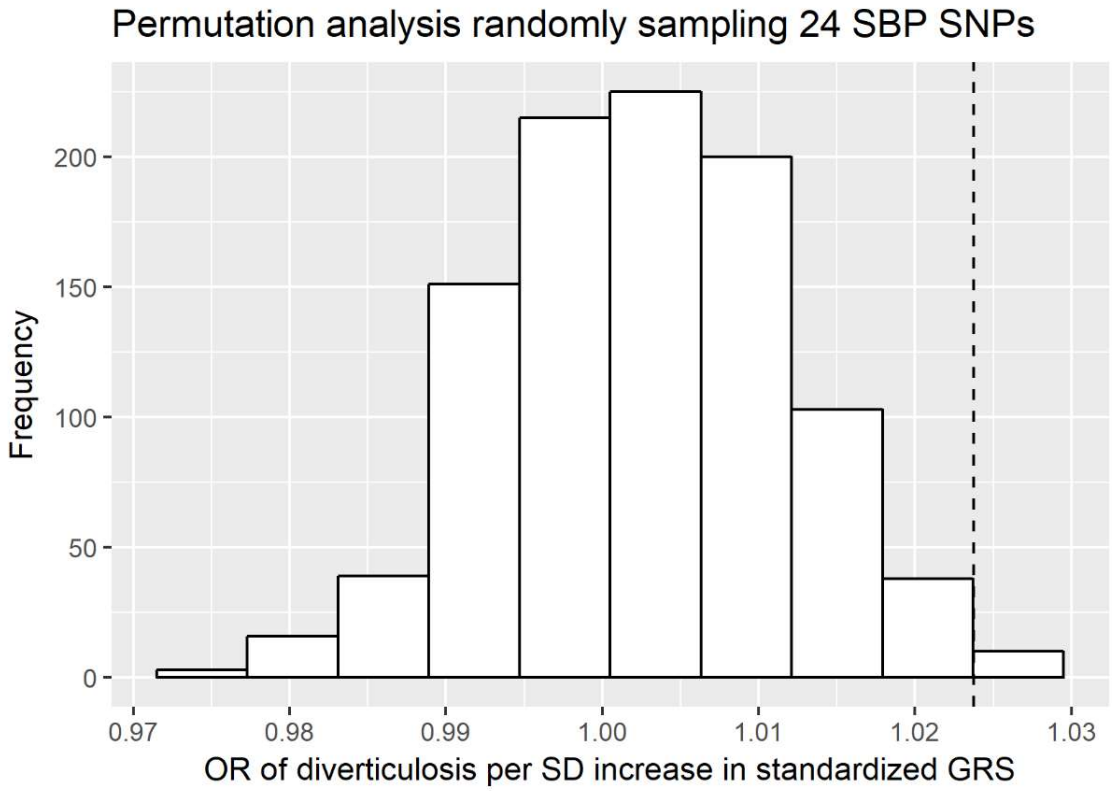
IVW: inverse-variance weighted; SNP: single-nucleotide polymorphism.

Supplementary Figure 8. Mendelian randomization sensitivity analyses for the analysis of calcium channel blockers and stroke risk.



IVW: inverse-variance weighted; SNP: single-nucleotide polymorphism.

Supplementary Figure 9. Permutation analysis randomly sampling 24 systolic blood pressure (SBP) single-nucleotide polymorphisms (SNPs) and investigating association of the resultant standardized genetic risk score (GRS) with diverticulosis risk 1,000 times.



The dashed line represents the result obtained in the main phenome-wide association study analysis using the standardized calcium channel blocker GRS. OR: odds ratio; SD: standard deviation.

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