Methodological Evaluation of Observational REsearch (MORE)—Observational Studies of Incidence or Prevalence of Chronic Diseases

1. Define and justify target population Define and justify population subgroups if applicable, race population Define and justify population subgroups if applicable, race and rate that can be defined as a major flaw of the study in the total sample and in race, gender, and other subgroups if applicable. 3. Exclusion rate from the analysis - define in the protocol ranges specific for your research and rate that can be defined as a major flaw of the study other subgroups if applicable. 4. Source of measure incidence/prevalence of chronic diseases. Define and justify minor flaws specific for the nature of the condition: Sources Suggested Minor Flaws Self reported (collected for the study) Proxy reported (collected for the study) Minor flaw Objectively measured with diagnostic methods for the purpose of the study (independent of health care) Measured by interviewers for the study Obtained during clinical exam for the purpose of the study Obtained from medical records (mining of the data collected for health care purposes) Obtained from administrative database (mining of the data collected for health care purposes) Obtained from registries or administrative databases (collected or epidemiologic evaluation independent of health care) 1. Reference period (time of occurrence) in a definition of the outcome. Define and justify reference period specific for the nature of the outcomes 2. Severity (degree of the symptoms of the chronic disease) in a definition of the outcome. Define and justify importance of frequency per day, week, or month specific for the nature of the disease 4. Dependent variable (outcomes) in subpopulations. Define and justify gold standard (if known) to measure outcomes 5. Gold standard to measure the outcomes. Define and justify benefic for the nature of the outcomes.	Please o	lefine the protocol specific for your research quality	components:			
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6. Reliability of the estimates. Define and justify acceptable intra-observer variability and inter-						
observer reliability			ALLIO IIII GOOGIVOI			
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nstructions about the survey forms in Access format:						

- If you are using Office 2007, probably you'll see an "Option" button right above this window. Please click on the button and choose "Enable this context."
- (2) For a questions ending with a minor flaw symbol, please provide at least one response.
- When you are typing in a textbox, your input is not saved until you click on any other textbox or checkbox.
- You can exit the program at anytime and then resume the survey later by selecting the same Article ID. (4)
- Help is available by clicking on the word Help next to the item you see.
- Though a textbox for "Other (please specify)" shows only about 2 lines of text, it can contain more than 6,000 words. This is just like a small window to see a big world.

Descriptive		
Article ID (file name) Journal of publication	Year of publicatio	n
Funding of study (Mark one best (*) an	d all applicable responses):	
A	Not reported	Poor reporting
В	Industry	
С	Grant	
D	Combined industry + grant	
E	Other (specify)	
Role of funding organization in data ar		s (mark one best (*) and all
applicable responses):		
A	Not reported	Poor reporting
В	Sponsoring organization participated	
	in data analyses	
С	Other (please specify)	
D	Sponsoring organization did not	
	participate in data analyses and	
	interpretation	
Conflict of interest (Mark one best (*) a	nd all applicable responses): Disclosure not reported	Poor reporting
В	Reported not having conflict of	· · ·
	interest	
С	Reported having conflict of interest	
D	Other (please specify)	
Ethical approval of the study (Mark one A	e best (*) and all applicable responses) Not reported	: Poor reporting
В	Study was approved by Ethical	3
	Committee	
С	Other (please specify)	
Aim of study (Mark one best (*) and all		
A	Aim was not stated	Poor reporting
В	Included prevalence estimation in the	
	general population	
С	Included prevalence estimation in	
<u></u> -	racial subgroups	
D	Included prevalence estimation in sex	
- <u>-</u>	subgroups	
Е	Included prevalence estimation in	
-	other population subgroups (define)	
F	Included prevalence estimation	Minor flaw
	without clear target population	
G	Included Incidence estimation in the	
	general population	
Н	Included Incidence estimation in	
	racial subgroups	
I	Included Incidence estimation in sex	
	subgroups	
J	Included Incidence estimation in other	
	population subgroups (define)	
K	Included Incidence estimation without	Minor flaw

clear target population

Cross-sectional Retrospective Prospective Other (please specify) nvestigators. General population based (Maximum Random population based Random population based Random multistage population based Random stratified population based Random sampling restricted to geographic area (minor flaw if the aim was to examine incidence/prevalence in the general population without place restrictions) Other sampling of the general	Poor reporting Minor flaw
Prospective Other (please specify) nvestigators. General population based (Management of Management	Poor reporting
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population (please specify)	
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	Adia and Grand
	Minor flaw
	Minor flaw
Other (specify)	
npling frame (Mark one best (*) and all appl Not reported Sampling within nationally	icable responses):
representative registries or databases	
Medical records	Major flaw
Insurance claims	Major flaw
Work place	Major flaw
Health care based (clinics, hospitals)	Major flaw
· · · · /	
Other (please specify)	
ilure to ensure that all members of the refe	
	Poor reporting
	r cor reporting
•	
reported	
The authors did not assess sampling	Minor flaw
bias	
•	
analysis	
Other (please specify)	
1	Not reported Random Convenient Self selection Other (specify) Inpling frame (Mark one best (*) and all appl Not reported Sampling within nationally representative registries or databases Medical records Insurance claims Work place Health care based (clinics, hospitals) Proxy selection (parents, relatives, legal representatives, care takers) Other (please specify) Illure to ensure that all members of the reference (Mark one best (*) and all applicable response No information about sampling bias Sampling bias was assessed by the authors - differences in study population vs. target population are reported The authors did not assess sampling bias The authors did not assess sampling bias but justified exclusion of the subjects from the sampling or analysis

Estimate bias

Response rate in total sample: define the protocol ranges specific for research area. Please note that included ranges are simply illustrative; they need to be justified and vary with each systematic review. (Mark one best (*) and all applicable responses).

Α	Not reported	Poor reporting	
В	>60%		
С	<40%	Major flaw	
D	40-60%		
E	Other (specify)		

Response rate in race subgroups (if applicable): define the protocol ranges specific for the research area. Please note that included ranges are simply illustrative; they need to be justified and vary with each systematic review.

A	Not reported	Poor reporting
В	>60%	
С	<40%	Major flaw
D	40-60%	
E	Other (specify)	

Response rate in gender subgroups (if applicable)—define the protocol ranges specific for research area. Please note that included ranges are simply illustrative; they need to be justified and vary with each systematic review.

A	Not reported	Poor reporting
В	>60%	
С	<40%	Major flaw
D	40-60%	
E	Other (specify)	

One study could examine incidence or prevalence in the total sample and in population subgroups with different probability of bias/error. Please decide if quality assessment is needed for each population subgroup. If yes, abstract information adding evaluation tables for as many subgroups as you need. Specify definition of each subgroup.

Response rate in other subgroups - define the protocol ranges specific for research area. Please note that included ranges are simply illustrative; they need to be justified and vary with each systematic review.

Α	Not reported	Poor reporting	
В	>60%		
С	<40%	Major flaw	
D	40-60%		
E	Other (specify)		

Exclusion rate from the analysis - define the protocol ranges specific for research area. Please note that included ranges are simply illustrative; they need to be justified and vary with each systematic review.

A	Not reported	Poor reporting
В	>10%	Major flaw
С	0-5%	
D	6-10%	
E	Other (please specify)	

Exclusion rate in subgroups (if applicable):

A	Not reported	Poor reporting
В	>10%	Major flaw
С	0-5%	
D	6-10%	
E	Different exclusion rate in evaluated	
	subgroups (specify)	

Address Bias

A	Not reported	Poor reporting
В	Weighting of the estimates by	
	probability of selection	
С	Weighting of the estimates by non-	
	response adjustment within sampling	
	subgroups	
D	Post-stratification by age	
E	Post-stratification by sex	
F	Post-stratification by race	
G	Not addressed in analysis	Minor flaw
Н	Other (please specify0	

Subject flow (define in the protocol the acceptable ranges specific for the area of research):

A	Not applicable for study design	
В	Number screened	
С	Number of screened not reported	Poor reporting
D	Number of eligible	
E	Number eligible not reported	Poor reporting
F	Number enrolled	
G	Number of enrolled not reported	Poor reporting

Recruitment fractions (automatically calculated):

Eligibility fraction: # eligible / # screened
Enrollment fraction: # enrolled / # eligible
Recruitment fraction: # enrolled / # screened
Number needed to screen: 1 / recruitment fraction

Internal Validity

Source of measure incidence/prevalence of chronic diseases (dependent variables) (define in the protocol flaws specific for the nature of the condition). (Mark one best (*) and all applicable responses)

Α	Not reported	Poor reporting
В	Self reported (collected for the study)	
С	Proxy reported (collected for the	Minor flaw
	study)	
D	Objectively measured with diagnostic	
	methods for the purpose of the study (independent on health care)	
E	Measured by interviewers for the	
	study	
F	Obtained during clinical exam for the	
	purpose of the study	
G	Obtained from medical records	Minor flaw
	(mining of the data collected for	
	health care purposes)	
Н	Obtained from administrative	Minor flaw
	database (mining of the data	
	collected for health care purposes)	
T	Obtained from registries or	
	administrative databases (collected	
	for epidemiologic evaluation	
	independent of health care)	
J	Other (please specify)	

	Reference period not relevant for the nature of the outcome	
3	Reference period may be relevant but	Minor flaw
	not included in definition of the	
	outcome (define relevance specific for research question)	
	Reference period recommended by	
	the CDC or guidelines (12 months for	
	chronic diseases) is included in	
	definition of the outcome	
	Reference period different from	
	recommended is justified and	
	included in the definition	
	Reference period different from	Minor flaw
	recommended and not justified	
	Other please (specify)	
	symptoms of the chronic disease) (define importance (Mark one best (*)and all applicable responses) Severity is not relevant for the	of severity specific for the
<u> </u>	outcome	Major flow
,	Severity can be relevant but not assessed in the study	Major flaw
	Definition of the outcomes included	
	severity of conditions	
	Other (please specify)	
requency of the symp	toms of the chronic disease (define in the protocol ime for the nature of the disease). (Mark one best (*) and	
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Not reported	Poor reporting
Reliability assumed acceptable	
claims)	
Intra-observer variability is within	
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Other (please specify)	
hnonulations (if annlicable) (Mark annli	cable responses)
	9
The same methods were used to	
measure outcome in the total sample	
and in subgroups	
Outcomes in subpopulations were	Minor flaw
measured differently (define in the	
protocol the major flaw in assessment	
• • • •	
Other (please specify)	
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	Poor reporting
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Other (please specify)	
(Mark one best (*) and all applicable r	oanansas)
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Reported	
Reported Other (please specify)	
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Other (please specify)	
	Minor flaw
Other (please specify) best responses): Crude prevalence in total sample	Minor flaw
Other (please specify) best responses):	Minor flaw
	Reliability assumed acceptable according to previous published analyses (medical coding, insurance claims) Intra-observer variability is within acceptable for the outcome standards (define acceptable variability specific for the nature of the outcome) Intra-observer variability is reported with subjective judgment of reliability Inter-observer variability is within acceptable for the outcome standards (define acceptable variability specific for the nature of the outcome) Inter-observer variability is reported with subjective judgment of reliability Other (please specify) bipopulations (if applicable). (Mark applimate Measurements of the outcomes in Poor subpopulations were not clarified The same methods were used to measure outcome in the total sample and in subgroups Outcomes in subpopulations were measured differently (define in the

Prevalence in population subgroup (define relevant subgroups specific for research question). (Mark one
hest (*) and all applicable responses)

nest () and an applicable responses		
A	Stated as aim of the study but nor reported	Poor reporting
В	Crude prevalence in age subgroups	
С	Crude prevalence in race groups	Minor flaw
D	Crude prevalence in gender groups	Minor flaw
E	Crude prevalence other subgroups	Minor flaw
F	Age adjusted prevalence in race	
	subpopulations	
G	Age adjusted prevalence in gender	
	subpopulations	
Н	Standardized estimation of	
	prevalence by age and gender	
l	Age adjusted prevalence in other	
	subgroups	
J	Other (please specify)	
		_
Reporting of Incidence: Incidence Ty A	pe. (Mark one best (*) and all applicabl Not clear	e responses) Poor reporting
	Not clear	1 doi 10porting

A	Not clear	Poor reporting
В	Cumulative incidence	
С	Incidence rate	
D	Other (specify)	

Precision of estimation (error, 95% CI). (Mark one best (*) and all applicable responses)

A	Omitted	Poor reporting
В	Reported	
С	Other (specify)	

Incidence in total sample. (Mark one best (*) and all applicable responses)

A	Crude incidence in total sample	Minor flaw
В	Age adjusted incidence in total	
	sample	
С	Other (specify)	

Incidence in population subgroups (define relevant subgroups specific for research question). Mark one best (*) and all applicable responses

Ä	Stated in the aim of the study but not reported	Poor reporting
В	Crude incidence in age subgroups	
С	Crude incidence in race groups	Minor flaw
D	Crude incidence in gender groups	Minor flaw
E	Age adjusted incidence in race	
	subpopulations	
F	Age adjusted incidence in gender	
	subpopulations	
G	Standardized estimation of incidence	
	by age and gender	
Н	Crude incidence in other subgroups	Minor flaw
I	Age adjusted incidence in other	
	subgroups	
J	Other (specify)	

Example of Quality Validity Report

Item Issue Article: Evaluator: **External Validity** Not reported Estimation of sampling bias: Exclusion rate from the Not reported analysis Estimation of sampling bias: Response rate in total Not reported sample Sampling: Assessment of sampling bias No information about sampling bias Sampling: Sampling method, Not general population Not reported Estimation of sampling bias: Addressing sampling bias Not reported Internal Validity Minor Definition of incidence/prevalence: Frequency of Can be relevant but not assessed in the study symptoms Not Reported Measurements of incidence/prevalence: Reliability Not reported Article: Evaluator: **External Validity** <u>Major</u> Estimation of sampling bias: Exclusion rate from the >10% analysis Sampling: Sampling method: Nongeneral population Health care based (clinics, hospitals) based Minor Sampling: Sampling method: Nongeneral population Convenient based Not reported Estimation of sampling bias: Subject flow Number of screened not reported Estimation of sampling bias: Addressing sampling bias Not reported Sampling: Assessment of sampling bias No information about sampling bias Article: Evaluator: **External Validity** Sampling: Sampling frame: Nongeneral population Health care based (clinics, hospitals) based Minor Sampling: Sampling method: Nongeneral population Convenient based Not reported Estimation of sampling bias: Addressing sampling bias Not reported Estimation of sampling bias: Exclusion rate from the Not reported analysis Estimation of sampling bias: Subject flow Number of eligible not reported Estimation of sampling bias: Subject flow Number of screened not reported Sampling: Assessment of sampling bias No information about sampling bias Internal Validity Not Reported Measurements of incidence/prevalence: Reliability Not reported