

## ADULTS, URINE ANALYSIS ('dipstick' for protein, bilirubin, glucose, ketones, blood, UTIs)

Cost estimates:

low £0.15

mid £0.21

upper £0.27

To what extent is **urine analysis** indicated for patients with **cardiovascular comorbidity** of different ages, undergoing different types of surgery? For each of the ages shown below, please indicate your agreement with the following statements, separately for patients with **mild** (ie ASA Grade 2) and **severe** (ie ASA Grade 3) **cardiovascular comorbidity**, by ringing one or more numbers in each column:

**7.1** "Urine analysis are indicated preoperatively in an **adult** with **cardiovascular comorbidity** having **elective Grade 1 surgery**, aged as shown."

	ASA2			ASA3			ASA2			ASA3			ASA2			ASA3				
Strongly agree	9	5	2	6	2	9	7	2	8	2	9	7	2	8	2	9	7	2	8	2
	8	1	1	1	1	8		1		1	8		1		1	8		1		1
	7					7					7					7				
	6					6					6					6				
	5					5					5					5				
	4					4					4					4				
	3					3					3					3				
	2					2					2					2				
	Strongly disagree	1	5	5	4	5	1	4	5	3	5	1	4	5	3	5	1	4	5	3
	≥16 & <40			≥40 & <60			≥60 & <80			≥80										
	Age – years																			

**7.2** "Urine analysis are indicated preoperatively in an **adult** with **cardiovascular comorbidity** having **elective Grade 2 surgery**, aged as shown."

	ASA2			ASA3			ASA2			ASA3			ASA2			ASA3				
Strongly agree	9	5	2	6	2	9	6	2	7	2	9	7	2	8	2	9	7	2	8	2
	8	1	1	1	1	8	1	1	1	1	8		1		1	8		1		1
	7					7					7					7				
	6					6					6					6				
	5					5					5					5				
	4					4					4					4				
	3					3					3					3				
	2					2					2					2				
	Strongly disagree	1	5	5	4	5	1	4	5	3	5	1	4	5	3	5	1	4	5	3
	≥16 & <40			≥40 & <60			≥60 & <80			≥80										
	Age – years																			

**7.3** "Urine analysis are indicated preoperatively in an **adult** with **cardiovascular comorbidity** having **elective Grade 3 surgery**, aged as shown."

	ASA2			ASA3		ASA2			ASA3		ASA2			ASA3		
Strongly agree	9	8	2	8	2	9	9	2	9	2	9	9	2	9	2	
	8	1	1	1	1	8		1		1	8		1		1	
	7					7					7					
	6					6					6					
	5					5					5					
	4					4					4					
	3					3					3					
	2					2					2					
	1	2	5	2	5	1	2	5	2	5	1	2	5	2	5	
	≥16 & <40				≥40 & <60				≥60 & <80				≥80			
	Age – years															

**7.4** "Urine analysis are indicated preoperatively in an **adult** with **cardiovascular comorbidity** having **elective Grade 4 surgery**, aged as shown."

	ASA2			ASA3		ASA2			ASA3		ASA2			ASA3		
Strongly agree	9	9	3	9	3	9	9	3	9	3	9	9	3	9	3	
	8		1		1	8		1		1	8		1		1	
	7				1	7				1	7				1	
	6					6					6					
	5		1			5		1			5		1			
	4					4					4					
	3					3					3					
	2					2					2					
	1	2	3	2	3	1	2	3	2	3	1	2	3	2	3	
	≥16 & <40				≥40 & <60				≥60 & <80				≥80			
	Age – years															

To what extent is **urine analysis** indicated for patients with **respiratory comorbidity** of different ages, undergoing different types of surgery? For each of the ages shown below, please indicate your agreement with the following statements, separately for patients with **mild** (ie ASA Grade 2) and **severe** (ie ASA Grade 3) **respiratory comorbidity**, by ringing one or more numbers in each column:

**7.5** "Urine analysis are indicated preoperatively in an **adult** with **respiratory comorbidity** having **elective Grade 1 surgery**, aged as shown."

	ASA2			ASA3			ASA2			ASA3			ASA2			ASA3				
Strongly agree	9	5	2	5	2	9	7	2	7	2	9	7	2	7	2	9	7	2	7	2
	8	1	1	1	1	8		1		1	8		1		1	8		1		1
	7					7					7					7				
	6					6					6					6				
	5					5					5					5				
	4					4					4					4				
	3					3					3					3				
	2					2					2					2				
	1	5	5	5	5	1	4	5	4	5	1	4	5	4	5	1	4	5	4	5
Strongly disagree																				
	≥16 & <40			≥40 & <60			≥60 & <80			≥80										
	Age – years																			

**7.6** "Urine analysis are indicated preoperatively in an **adult** with **respiratory comorbidity** having **elective Grade 2 surgery**, aged as shown."

	ASA2			ASA3			ASA2			ASA3			ASA2			ASA3				
Strongly agree	9	5	2	6	2	9	6	2	7	2	9	8	2	8	2	9	8	2	7	2
	8	1	1	1	1	8	1	1	1	1	8		1		1	8		1	1	1
	7	1		1		7					7					7				
	6					6					6					6				
	5					5					5					5				
	4					4					4					4				
	3					3					3					3				
	2					2					2					2				
	1	4	5	3	5	1	4	5	3	5	1	3	5	3	5	1	3	5	3	5
Strongly disagree																				
	≥16 & <40			≥40 & <60			≥60 & <80			≥80										
	Age – years																			

**7.7** "Urine analysis are indicated preoperatively in an **adult** with **respiratory comorbidity** having **elective Grade 3 surgery**, aged as shown."

	ASA2			ASA3		ASA2			ASA3		ASA2			ASA3						
Strongly agree	9	8	2	9	2	9	9	2	9	2	9	9	2	9	2	9	9	2	9	2
	8	1	1		1	8		1		1	8		1		1	8		1		1
	7					7					7					7				
	6					6					6					6				
	5					5					5					5				
	4					4					4					4				
	3					3					3					3				
	2					2					2					2				
	1	2	5	2	5	1	2	5	2	5	1	2	5	2	5	1	2	5	2	5
	≥16 & <40					≥40 & <60					≥60 & <80					≥80				
	Age – years																			

**7.8** "Urine analysis are indicated preoperatively in an **adult** with **respiratory comorbidity** having **elective Grade 4 surgery**, aged as shown."

	ASA2			ASA3		ASA2			ASA3		ASA2			ASA3						
Strongly agree	9	9	3	9	3	9	9	3	9	3	9	9	3	9	3	9	9	3	9	3
	8		1		1	8		1		1	8		1		1	8		1		1
	7					7					7					7				
	6					6					6					6				
	5					5					5					5				
	4					4					4					4				
	3					3					3					3				
	2					2					2					2				
	1	2	4	2	4	1	2	4	2	4	1	2	4	2	4	1	2	4	2	4
	≥16 & <40					≥40 & <60					≥60 & <80					≥80				
	Age – years																			

To what extent is **urine analysis** indicated for patients with **comorbidity from renal disease** of different ages, undergoing different types of surgery? For each of the ages shown below, please indicate your agreement with the following statements, separately for patients with **mild** (ie ASA Grade 2) and **severe** (ie ASA Grade 3) **comorbidity from renal disease**, by ringing one or more numbers in each column:

**7.9** "Urine analysis are indicated preoperatively in an **adult** with **comorbidity from renal disease** having **elective Grade 1 surgery**, aged as shown."

	ASA2			ASA3		ASA2			ASA3		ASA2			ASA3				
Strongly agree	9	8	1	8	1	9	9	1	9	1	9	9	1	9	9	1	9	1
	8		1		1	8		1		1	8		1		1		1	
	7					7					7							
	6					6					6							
	5					5					5							
	4					4					4							
	3					3					3							
	2		1		1	2		1		1	2		1		1		1	
	1	3	5	3	5	1	2	5	2	5	1	2	5	2	5	1	2	5
	≥16 & <40			≥40 & <60			≥60 & <80			≥80								
	Age – years																	

**7.10** "Urine analysis are indicated preoperatively in an **adult** with **comorbidity from renal disease** having **elective Grade 2 surgery**, aged as shown."

	ASA2			ASA3		ASA2			ASA3		ASA2			ASA3				
Strongly agree	9	8	1	8	1	9	9	1	9	1	9	9	1	9	9	1	9	1
	8	1	1	1	1	8		1		1	8		1		1		1	
	7					7					7							
	6					6					6							
	5					5					5							
	4					4					4							
	3					3					3							
	2		1		1	2		1		1	2		1		1		1	
	1	2	5	2	5	1	2	5	2	5	1	2	5	2	5	1	2	5
	≥16 & <40			≥40 & <60			≥60 & <80			≥80								
	Age – years																	

**7.11** "Urine analysis are indicated preoperatively in an **adult** with **comorbidity from renal disease** having **elective Grade 3 surgery**, aged as shown."

	ASA2			ASA3			ASA2			ASA3			ASA2			ASA3								
Strongly agree	9	9	1	9	1		9	9	1	9	1		9	9	1	9	1		9	9	1	9	1	
	8		1		1		8		1		1		8		1		1		8		1		1	
	7						7						7						7					
	6						6						6						6					
	5						5						5						5					
	4						4						4						4					
	3						3						3						3					
Strongly disagree	2		1		1		2		1		1		2		1		1		2		1		1	
	1	2	5	2	5		1	2	5	2	5		1	2	5	2	5		1	2	5	2	5	
												≥16 & <40			≥40 & <60			≥60 & <80			≥80			
															Age - years									

**7.12** "Urine analysis are indicated preoperatively in an **adult** with **comorbidity from renal disease** having **elective Grade 4 surgery**, aged as shown."

	ASA2			ASA3			ASA2			ASA3			ASA2			ASA3								
Strongly agree	9	9	1	9	1		9	9	1	9	1		9	9	1	9	1		9	9	1	9	1	
	8		1		1		8		1		1		8		1		1		8		1		1	
	7						7						7						7					
	6						6						6						6					
	5						5						5						5					
	4						4						4						4					
	3						3						3						3					
Strongly disagree	2		1		1		2		1		1		2		1		1		2		1		1	
	1	2	5	2	5		1	2	5	2	5		1	2	5	2	5		1	2	5	2	5	
												≥16 & <40			≥40 & <60			≥60 & <80			≥80			
															Age - years									