









## Postoperative new renal failure

	Unadjusted model			Adjusted model 1			Adjusted model 2			Adjusted model 3		
	OR	95% CI	P value	OR	95% CI	P value	OR	95% CI	P value	OR	95% CI	P value
Total number of transfused RBCs	1.05	1.03-1.07	<0.001	1.03	1.00-1.05	0.022	1.03	1.01-1.06	0.005	1.03	1.01-1.06	0.007
Oldest age of transfused RBCs	1.08	1.03-1.13	0.001	1.03	0.98-1.09	0.251						
Mean age of transfused RBCs	0.99	0.93-1.05	0.684				1.01	0.94-1.08	0.857			
Any RBCs unit > 14 days	1.5	0.87-2.60	0.148							1.05	0.57-1.97	0.869
Age	1.05	1.02-1.09	0.003									
Male	2.38	1.11-5.10	0.026									
Body mass index (kg m <sup>-2</sup> )	0.97	0.88-1.06	0.475									
Diabetes mellitus	2.56	1.41-4.65	0.002									
Hypertension	2.73	1.22-6.10	0.015									
Dyslipidemia	0.85	0.43-1.68	0.644									
Previous myocardial infarction	1.18	0.46-3.05	0.732									
Previous stroke	1.96	1.02-3.74	0.043									
Chronic renal failure	18.11	9.80-33.50	<0.001	14.82	7.78-28.20	< 0.001	15.23	8.02-28.92	< 0.001	15.17	7.98-28.81	< 0.001
LV dysfunction (EF<35%)	3.33	1.84-6.03	<0.001	2.23	1.13-4.43	0.022	2.24	1.13-4.44	0.021	2.24	1.13-4.43	0.021
COPD	6.6	1.73-25.1	0.006	6.85	1.27-36.86	0.025	6.73	1.27-35.53	0.025	6.67	1.26-35.23	0.026

Previous cardiac surgery	1.15	0.27-4.92	0.852
Perioperative IABP insertion	1.54	0.84-2.86	0.166
Emergent operation	2.62	1.45-4.73	0.001
Duration of surgery (min)	1	1.00-1.01	0.03

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### Postoperative respiratory complication

	Unadjusted model			Adjusted model 1			Adjusted model 2			Adjusted model 3		
	OR	95% CI	P value	OR	95% CI	P value	OR	95% CI	P value	OR	95% CI	P value
Total number of transfused RBCs	1.05	1.03-1.07	<0.001	1.05	1.02-1.07	< 0.001	1.05	1.02-1.07	< 0.001	1.05	1.02-1.07	< 0.001
Oldest age of transfused RBCs	1.07	1.01-1.13	0.02	1.01	0.95-1.08	0.726						
Mean age of transfused RBCs	0.99	0.92-1.06	0.731				0.98	0.90-1.06	0.629			
Any RBCs unit > 14 days	1.54	0.77-3.09	0.224							1.06	0.50-2.27	0.878
Age	1.11	1.06-1.16	<0.001	1.08	1.03-1.14	0.002	1.08	1.03-1.14	0.002	1.08	1.03-1.14	0.002
Male	1.5	0.64-3.50	0.347									
Body mass index (kg m <sup>-2</sup> )	0.87	0.77-0.99	0.03									
Diabetes mellitus	1.41	0.70-2.85	0.334									
Hypertension	1.23	0.55-2.75	0.619									
Dyslipidemia	0.33	0.1-1.08	0.067	0.23	0.06-0.91	0.035	0.23	0.06-0.89	0.034	0.23	0.06-0.90	0.034
Previous myocardial infarction	2.66	1.07-6.64	0.036									
Previous stroke	1.06	0.40-2.78	0.909									
Acute renal failure	10.89	3.35-35.42	<0.001									
Chronic renal failure	4.07	1.98-8.37	<0.001	2.39	1.10-5.21	0.028	2.41	1.11-5.23	0.027	2.4	1.10-5.24	0.027
LV dysfunction (EF<35%)	4.85	2.38-9.90	<0.001	3.16	1.47-6.79	0.003	3.16	1.47-6.79	0.003	3.17	1.47-6.82	0.003

COPD	6.64	1.40-31.58	0.017
Previous cardiac surgery	2.66	1.07-6.64	0.036
Perioperative IABP insertion	1.49	0.68-3.25	0.318
Emergent operation	2.56	1.22-5.37	0.013
Duration of surgery (min)	1	0.99-1.01	0.787

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COPD	1.92	0.24-15.15	0.537
Previous cardiac surgery	1.28	0.30-5.48	0.743
Preoperative IABP insertion	1.29	0.66-2.51	0.461
Emergent operation	1.28	0.63-2.61	0.501
Duration of surgery (min)	1	0.99-1.01	0.502

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Previous cardiac surgery	2.27	0.52-9.94	0.278									
Perioperative IABP insertion	2.96	1.42-6.14	0.004									
Emergent operation	1.92	0.84-4.40	0.125									
Duration of surgery (min)	1.01	1.00-1.01	0.001	1.01	1.00-1.01	0.037	1.01	1.00-1.01	0.031	1.01	1.00-1.01	0.038

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