

**21H4**

surgyear=2019

Procedure / Outcomes	O/E Ratio Multiplier
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Isolated CAB	
In-hospital Mortality	1.09
Operative Mortality	0.85
Complication: Reoperation	0.92
Complication: Permanent Stroke	0.96
Complication: Renal Failure	0.88
Complication: Deep Sternal Wound Infx	0.73
Complication: Prolonged Ventilation	1.15
Combined Morbidity/Operative Mortality	1.10
Length of Stay: Short	1.04
Length of Stay: Long	0.95
AVR	
In-hospital Mortality	1.21
Operative Mortality	0.95
MVR	
In-hospital Mortality	1.16
Operative Mortality	1.00
AVR+CAB	
In-hospital Mortality	1.25
Operative Mortality	1.01
MVR+CAB	
In-hospital Mortality	1.05
Operative Mortality	0.92
MVP	
In-hospital Mortality	1.29
Operative Mortality	1.02

MVP+CAB		
In-hospital Mortality		1.03
Operative Mortality		0.89

Major Procedures		
In-hospital Mortality		1.12
Operative Mortality		0.89

surgyear=2020

Procedure / Outcomes	O/E Ratio	Multiplier
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Isolated CAB		
In-hospital Mortality		1.01
Operative Mortality		0.76
Complication: Reoperation		0.87
Complication: Permanent Stroke		0.93
Complication: Renal Failure		0.84
Complication: Deep Sternal Wound Infx		0.76
Complication: Prolonged Ventilation		1.12
Combined Morbidity/Operative Mortality		1.06
Length of Stay: Short		1.02
Length of Stay: Long		0.92

AVR		
In-hospital Mortality		1.19
Operative Mortality		0.86

MVR		
In-hospital Mortality		0.96
Operative Mortality		0.80

AVR+CAB		
In-hospital Mortality		1.14
Operative Mortality		0.94

MVR+CAB		
In-hospital Mortality		0.87
Operative Mortality		0.76

MVP		
In-hospital Mortality		1.18
Operative Mortality		0.84

MVP+CAB		
In-hospital Mortality		0.84
Operative Mortality		0.71

Major Procedures		
In-hospital Mortality		1.01
Operative Mortality		0.78

surgyear=2021

Procedure / Outcomes	O/E Ratio	Multiplier
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Isolated CAB		
In-hospital Mortality		0.98
Operative Mortality		0.74
Complication: Reoperation		0.83
Complication: Permanent Stroke		0.90
Complication: Renal Failure		0.83
Complication: Deep Sternal Wound Infx		0.73
Complication: Prolonged Ventilation		1.16
Combined Morbidity/Operative Mortality		1.08
Length of Stay: Short		1.04
Length of Stay: Long		0.86

AVR		
In-hospital Mortality		1.08
Operative Mortality		0.79

MVR		
In-hospital Mortality		1.00
Operative Mortality		0.84
AVR+CAB		
In-hospital Mortality		1.05
Operative Mortality		0.82
MVR+CAB		
In-hospital Mortality		0.83
Operative Mortality		0.73
MVP		
In-hospital Mortality		1.17
Operative Mortality		0.92
MVP+CAB		
In-hospital Mortality		1.07
Operative Mortality		0.88
Major Procedures		
In-hospital Mortality		0.99
Operative Mortality		0.77