

### **Medicare Payments**

The following table includes information about payments made by Medicare for the procedures included in this *Cardiac Procedures Report* – 1) coronary artery bypass graft, 2) percutaneous coronary intervention for a heart attack, 3) percutaneous coronary intervention without a heart attack, 4) surgical aortic valve replacement, 5) surgical aortic valve replacement with coronary artery bypass graft, and 6) transcatheter aortic valve replacement. This analysis is based on data from calendar years (CY) 2022 – 2023. Displayed are the average amounts paid by Medicare fee-for-service for inpatient hospitalizations of Pennsylvania residents only. Payments from Medicare Advantage plans (e.g., Medicare HMOs) are not included, nor are patient liabilities (e.g., coinsurance and deductible dollar amounts).

The average Medicare fee-for-service payment is calculated using the claim payment amount based on data provided by the Centers for Medicare and Medicaid Services. The average payment is calculated by summing the payment amounts for the cases in a particular procedure group and dividing the sum by the number of cases in that procedure group.

The procedure groups included in this report are defined using ICD-10-CM/PCS (International Classification of Diseases, Tenth Revision, Clinical Modification/Procedure Coding System) diagnosis and procedure codes, with a secondary requirement that they be limited to particular MS-DRGs (Medicare Severity Diagnosis-Related Groups) and MDC (Major Diagnostic Category) where appropriate – information available from the discharge data that PHC4 receives from Pennsylvania hospitals. Technical Notes relevant to this report provide additional detail. They are posted to PHC4's website at www.phc4.org.

In this section, average payments by MS-DRGs are displayed for the procedures included in this report. While these procedures have been defined using ICD-10-CM/PCS codes that represent a clinically cohesive population, the payment data is displayed by the individual MS-DRGs included within each procedure to account for variations in case mix.



#### **Medicare Fee-for-Service Payments - CY 2022-2023 Statewide Data** For the procedures included in this Cardiac Procedures Report Number Average **MS-DRG MS-DRG Title** of Cases Payment **Coronary Artery Bypass Graft** \$41,480 3,148 Heart Transplant or Implant of Heart Assist System with MCC NR NR 002 Heart Transplant or Implant of Heart Assist System without MCC NR NR 003 ECMO or Tracheostomy with Mechanical Ventilation >96 Hours or Principal NR NR Diagnosis Except Face, Mouth and Neck with Major O.R. Procedures 212 Concomitant Aortic and Mitral Valve Procedures NR NR \$120,658 215 18 Other Heart Assist System Implant 216 Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac NR NR Catheterization with MCC 217 Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac NR NR Catheterization with CC 218 Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac NR NR Catheterization without CC/MCC 219 Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac NR NR Catheterization with MCC 220 Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac NR NR Catheterization with CC 221 Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac NR NR Catheterization without CC/MCC 222 Cardiac Defibrillator Implant with Cardiac Catheterization with Acute NR NR Myocardial Infarction, Heart Failure or Shock with MCC 223 Cardiac Defibrillator Implant with Cardiac Catheterization with Acute NR NR Myocardial Infarction, Heart Failure or Shock without MCC NR NR 224 Cardiac Defibrillator Implant with Cardiac Catheterization without Acute Myocardial Infarction, Heart Failure or Shock with MCC 225 NR NR Cardiac Defibrillator Implant with Cardiac Catheterization without Acute Myocardial Infarction, Heart Failure or Shock without MCC

CC - Complication or Comorbidity

226

MCC - Major Complication or Comorbidity

NR - Not reported due to low volume

NR

Cardiac Defibrillator Implant without Cardiac Catheterization with MCC

NR



#### **Medicare Fee-for-Service Payments - CY 2022-2023 Statewide Data** For the procedures included in this Cardiac Procedures Report Number **Average MS-DRG MS-DRG Title** of Cases **Pavment Coronary Artery Bypass Graft Continued** Cardiac Defibrillator Implant without Cardiac Catheterization without MCC NR NR 228 Other Cardiothoracic Procedures with MCC NR NR 229 Other Cardiothoracic Procedures without MCC NR NR 231 Coronary Bypass with PTCA with MCC 39 \$72,473 232 Coronary Bypass with PTCA without MCC 53 \$46,396 233 Coronary Bypass with Cardiac Catheterization or Open Ablation with MCC 595 \$56,434 234 Coronary Bypass with Cardiac Catheterization or Open Ablation without MCC 597 \$36,351 235 685 Coronary Bypass without Cardiac Catheterization with MCC \$43,117 236 Coronary Bypass without Cardiac Catheterization without MCC 1,135 \$29,836 275 NR Cardiac Defibrillator Implant with Cardiac Catheterization and MCC NR 276 Cardiac Defibrillator Implant with MCC NR NR Cardiac Defibrillator Implant without MCC 277 NR NR **Percutaneous Coronary Intervention for a Heart Attack** 4,595 \$16,479 246 Percutaneous Cardiovascular Procedures with Drug-Eluting Stent with MCC or 1,321 \$22,803 4+ Arteries or Stents 247 Percutaneous Cardiovascular Procedures with Drug-Eluting Stent without MCC 2,555 \$13,344 248 NR NR Percutaneous Cardiovascular Procedures with Non Drug-Eluting Stent with MCC or 4+ Arteries or Stents 249 NR Percutaneous Cardiovascular Procedures with Non Drug-Eluting Stent without NR MCC 250 Percutaneous Cardiovascular Procedures without Intraluminal Device with MCC 53 \$18,708 251 \$11,534 Percutaneous Cardiovascular Procedures without Intraluminal Device without 100 MCC 321 Percutaneous Cardiovascular Procedures with Intraluminal Device with MCC or 144 \$22,392

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4+ Arteries/Intraluminal Devices



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MS-DRG	MS-DRG Title	Number of Cases	Average Payment	
Percutaneo	Percutaneous Coronary Intervention for a Heart Attack Continued			
322	Percutaneous Cardiovascular Procedures with Intraluminal Device without MCC	356	\$13,048	
323	Coronary Intravascular Lithotripsy with Intraluminal Device with MCC	19	\$32,642	
324	Coronary Intravascular Lithotripsy with Intraluminal Device without MCC	20	\$22,647	
325	Coronary Intravascular Lithotripsy without Intraluminal Device	NR	NR	
Percutaneo	Percutaneous Coronary Intervention without a Heart Attack		\$18,324	
246	Percutaneous Cardiovascular Procedures with Drug-Eluting Stent with MCC or 4+ Arteries or Stents	948	\$22,914	
247	Percutaneous Cardiovascular Procedures with Drug-Eluting Stent without MCC	866	\$13,399	
248	Percutaneous Cardiovascular Procedures with Non Drug-Eluting Stent with MCC or 4+ Arteries or Stents	NR	NR	
249	Percutaneous Cardiovascular Procedures with Non Drug-Eluting Stent without MCC	NR	NR	
250	Percutaneous Cardiovascular Procedures without Intraluminal Device with MCC	130	\$19,019	
251	Percutaneous Cardiovascular Procedures without Intraluminal Device without MCC	77	\$11,653	
321	Percutaneous Cardiovascular Procedures with Intraluminal Device with MCC or 4+ Arteries/Intraluminal Devices	120	\$22,383	
322	Percutaneous Cardiovascular Procedures with Intraluminal Device without MCC	115	\$13,456	
323	Coronary Intravascular Lithotripsy with Intraluminal Device with MCC	21	\$34,831	
324	Coronary Intravascular Lithotripsy with Intraluminal Device without MCC	15	\$22,360	
325	Coronary Intravascular Lithotripsy without Intraluminal Device	NR	NR	
Surgical Aortic Valve Replacement		665	\$55,978	
001	Heart Transplant or Implant of Heart Assist System with MCC	NR	NR	
002	Heart Transplant or Implant of Heart Assist System without MCC	NR	NR	

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MS-DRG	MS-DRG Title	Number of Cases	Average Payment	
Surgical A	ortic Valve Replacement <i>Continued</i>			
003	ECMO or Tracheostomy with Mechanical Ventilation >96 Hours or Principal Diagnosis Except Face, Mouth and Neck with Major O.R. Procedures	NR	NF	
212	Concomitant Aortic and Mitral Valve Procedures	NR	NF	
215	Other Heart Assist System Implant	NR	NF	
216	Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization with MCC	40	\$88,484	
217	Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization with CC	11	\$50,323	
218	Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization without CC/MCC	NR	NF	
219	Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac Catheterization with MCC	244	\$62,385	
220	Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac Catheterization with CC	305	\$44,029	
221	Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac Catheterization without CC/MCC	54	\$38,077	
222	Cardiac Defibrillator Implant with Cardiac Catheterization with Acute Myocardial Infarction, Heart Failure or Shock with MCC	NR	NF	
223	Cardiac Defibrillator Implant with Cardiac Catheterization with Acute Myocardial Infarction, Heart Failure or Shock without MCC	NR	NF	
224	Cardiac Defibrillator Implant with Cardiac Catheterization without Acute Myocardial Infarction, Heart Failure or Shock with MCC	NR	NF	
225	Cardiac Defibrillator Implant with Cardiac Catheterization without Acute Myocardial Infarction, Heart Failure or Shock without MCC	NR	NF	
226	Cardiac Defibrillator Implant without Cardiac Catheterization with MCC	NR	NF	
227	Cardiac Defibrillator Implant without Cardiac Catheterization without MCC	NR	NF	
228	Other Cardiothoracic Procedures with MCC	NR	NF	

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MS-DRG	MS-DRG Title	Number of Cases	Average Payment	
Surgical A				
229	Other Cardiothoracic Procedures without MCC	NR	NR	
275	Cardiac Defibrillator Implant with Cardiac Catheterization and MCC	NR	NR	
276	Cardiac Defibrillator Implant with MCC	NR	NR	
277	Cardiac Defibrillator Implant without MCC	NR	NR	
Surgical A	Surgical Aortic Valve Replacement with Coronary Artery Bypass Graft		\$58,527	
001	Heart Transplant or Implant of Heart Assist System with MCC	NR	NR	
002	Heart Transplant or Implant of Heart Assist System without MCC	NR	NR	
003	ECMO or Tracheostomy with Mechanical Ventilation >96 Hours or Principal Diagnosis Except Face, Mouth and Neck with Major O.R. Procedures	NR	NR	
212	Concomitant Aortic and Mitral Valve Procedures	NR	NR	
215	Other Heart Assist System Implant	NR	NR	
216	Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization with MCC	58	\$76,872	
217	Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization with CC	31	\$51,943	
218	Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization without CC/MCC	NR	NR	
219	Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac Catheterization with MCC	212	\$62,422	
220	Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac Catheterization with CC	202	\$41,639	
221	Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac Catheterization without CC/MCC	16	\$33,156	
222	Cardiac Defibrillator Implant with Cardiac Catheterization with Acute Myocardial Infarction, Heart Failure or Shock with MCC	NR	NR	

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Medicare Fee-for-Service Payments - CY 2022-2023 Statewide Data  For the procedures included in this Cardiac Procedures Report				
MS-DRG	MS-DRG Title	Number of Cases	Average Payment	
Surgical Ad	Surgical Aortic Valve Replacement with Coronary Artery Bypass Graft Continued			
223	Cardiac Defibrillator Implant with Cardiac Catheterization with Acute Myocardial Infarction, Heart Failure or Shock without MCC	NR	NR	
224	Cardiac Defibrillator Implant with Cardiac Catheterization without Acute Myocardial Infarction, Heart Failure or Shock with MCC	NR	NR	
225	Cardiac Defibrillator Implant with Cardiac Catheterization without Acute Myocardial Infarction, Heart Failure or Shock without MCC	NR	NR	
226	Cardiac Defibrillator Implant without Cardiac Catheterization with MCC	NR	NR	
227	Cardiac Defibrillator Implant without Cardiac Catheterization without MCC	NR	NR	
228	Other Cardiothoracic Procedures with MCC	NR	NR	
229	Other Cardiothoracic Procedures without MCC	NR	NR	
275	Cardiac Defibrillator Implant with Cardiac Catheterization and MCC	NR	NR	
276	Cardiac Defibrillator Implant with MCC	NR	NR	
277	Cardiac Defibrillator Implant without MCC	NR	NR	
Transcathe	Transcatheter Aortic Valve Replacement		\$45,237	
001	Heart Transplant or Implant of Heart Assist System with MCC	NR	NR	
002	Heart Transplant or Implant of Heart Assist System without MCC	NR	NR	
003	ECMO or Tracheostomy with Mechanical Ventilation >96 Hours or Principal Diagnosis Except Face, Mouth and Neck with Major O.R. Procedures	NR	NR	
228	Other Cardiothoracic Procedures with MCC	NR	NR	
229	Other Cardiothoracic Procedures without MCC	NR	NR	
266	Endovascular Cardiac Valve Replacement and Supplement Procedures with MCC	NR	NR	
267	Endovascular Cardiac Valve Replacement and Supplement Procedures without MCC	2,541	\$41,154	

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