Medicare Payments

The following table includes information about payments made by Medicare for the procedures included in the **Hospital Results** section of the *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) 2023 – 2024. Displayed are the average amounts paid by Medicare fee-for-service for inpatient acute care 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 procedures included in the **Hospital Results** section of the 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 claims data PHC4 receives from Pennsylvania hospitals. Technical Notes relevant to this report provide additional detail and are accessible from PHC4's website at www.phc4.org.

Average payments by MS-DRGs are displayed for the procedures included in the **Hospital Results** section of this report. While these procedures are defined using ICD-10-CM/PCS codes that represent a clinically cohesive population, the payment data is displayed by the individual MS-DRGs that define each procedure group to account for variations in case mix.

Cardiac Procedures Report
January 1, 2023 through December 31, 2024 Data

Medicare Fee-for-Service Payments - CY 2023-2024 Statewide Data *For the procedures included in this Cardiac Procedures Report*			
MS-DRG	**MS-DRG Title**	**Number of Cases**	**Average Payment**
Coronary Artery Bypass Graft		**3,044**	**$43,252**
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	20	$178,962
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	NR	NR
217	Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization with CC	NR	NR
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	NR	NR
220	Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac Catheterization with CC	NR	NR
221	Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac Catheterization without CC/MCC	NR	NR
222	Cardiac Defibrillator Implant with Cardiac Catheterization with Acute Myocardial Infarction, Heart Failure or Shock with MCC	NR	NR
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
231	Coronary Bypass with PTCA with MCC	43	$71,019
232	Coronary Bypass with PTCA without MCC	42	$47,801

CC - Complication or Comorbidity
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Medicare Fee-for-Service Payments - CY 2023-2024 Statewide Data *For the procedures included in this Cardiac Procedures Report*			
MS-DRG	**MS-DRG Title**	**Number of Cases**	**Average Payment**
Coronary Artery Bypass Graft *(continued)*			
233	Coronary Bypass with Cardiac Catheterization or Open Ablation with MCC	575	$58,506
234	Coronary Bypass with Cardiac Catheterization or Open Ablation without MCC	548	$37,530
235	Coronary Bypass without Cardiac Catheterization with MCC	683	$44,410
236	Coronary Bypass without Cardiac Catheterization without MCC	1,111	$30,545
268	Aortic and Heart Assist Procedures Except Pulsation Balloon with MCC	NR	NR
269	Aortic and Heart Assist Procedures Except Pulsation Balloon without MCC	NR	NR
275	Cardiac Defibrillator Implant with Cardiac Catheterization and MCC	NR	NR
276	Cardiac Defibrillator Implant with MCC or Carotid Sinus Neurostimulator	NR	NR
277	Cardiac Defibrillator Implant without MCC	NR	NR
317	Concomitant Left Atrial Appendage Closure and Cardiac Ablation	NR	NR
Percutaneous Coronary Intervention for a Heart Attack		**4,343**	**$16,727**
246	Percutaneous Cardiovascular Procedures with Drug-Eluting Stent with MCC or 4+ Arteries or Stents	563	$22,550
247	Percutaneous Cardiovascular Procedures with Drug-Eluting Stent without MCC	1,104	$13,490
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	42	$17,797
251	Percutaneous Cardiovascular Procedures without Intraluminal Device without MCC	64	$11,035
321	Percutaneous Cardiovascular Procedures with Intraluminal Device with MCC or 4+ Arteries/Intraluminal Devices	761	$21,987
322	Percutaneous Cardiovascular Procedures with Intraluminal Device without MCC	1,608	$13,094
323	Coronary Intravascular Lithotripsy with Intraluminal Device with MCC	95	$35,028
324	Coronary Intravascular Lithotripsy with Intraluminal Device without MCC	92	$24,357
325	Coronary Intravascular Lithotripsy without Intraluminal Device	NR	NR
Percutaneous Coronary Intervention without a Heart Attack		**2,245**	**$18,960**
246	Percutaneous Cardiovascular Procedures with Drug-Eluting Stent with MCC or 4+ Arteries or Stents	405	$23,123
247	Percutaneous Cardiovascular Procedures with Drug-Eluting Stent without MCC	386	$13,288

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Medicare Fee-for-Service Payments - CY 2023-2024 Statewide Data *For the procedures included in this Cardiac Procedures Report*			
MS-DRG	**MS-DRG Title**	**Number of Cases**	**Average Payment**
Percutaneous Coronary Intervention without a Heart Attack *(continued)*			
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	113	$18,785
251	Percutaneous Cardiovascular Procedures without Intraluminal Device without MCC	NR	NR
321	Percutaneous Cardiovascular Procedures with Intraluminal Device with MCC or 4+ Arteries/Intraluminal Devices	541	$22,555
322	Percutaneous Cardiovascular Procedures with Intraluminal Device without MCC	528	$13,208
323	Coronary Intravascular Lithotripsy with Intraluminal Device with MCC	113	$35,134
324	Coronary Intravascular Lithotripsy with Intraluminal Device without MCC	78	$23,103
325	Coronary Intravascular Lithotripsy without Intraluminal Device	NR	NR
Surgical Aortic Valve Replacement		**689**	**$54,970**
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	42	$80,008
217	Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization with CC	NR	NR
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	282	$62,396
220	Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac Catheterization with CC	302	$43,981
221	Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac Catheterization without CC/MCC	49	$39,044

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Medicare Fee-for-Service Payments - CY 2023-2024 Statewide Data *For the procedures included in this Cardiac Procedures Report*			
MS-DRG	**MS-DRG Title**	**Number of Cases**	**Average Payment**
Surgical Aortic Valve Replacement *(continued)*			
222	Cardiac Defibrillator Implant with Cardiac Catheterization with Acute Myocardial Infarction, Heart Failure or Shock with MCC	NR	NR
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 or Carotid Sinus Neurostimulator	NR	NR
277	Cardiac Defibrillator Implant without MCC	NR	NR
317	Concomitant Left Atrial Appendage Closure and Cardiac Ablation	NR	NR
Surgical Aortic Valve Replacement with Coronary Artery Bypass Graft		**515**	**$63,836**
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	18	$87,859
215	Other Heart Assist System Implant	NR	NR
216	Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization with MCC	66	$81,364
217	Cardiac Valve and Other Major Cardiothoracic Procedures with Cardiac Catheterization with CC	36	$51,581
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	198	$62,673

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Medicare Fee-for-Service Payments - CY 2023-2024 Statewide Data *For the procedures included in this Cardiac Procedures Report*			
MS-DRG	**MS-DRG Title**	**Number of Cases**	**Average Payment**
Surgical Aortic Valve Replacement with Coronary Artery Bypass Graft *(continued)*			
220	Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac Catheterization with CC	171	$42,167
221	Cardiac Valve and Other Major Cardiothoracic Procedures without Cardiac Catheterization without CC/MCC	14	$35,701
222	Cardiac Defibrillator Implant with Cardiac Catheterization with Acute Myocardial Infarction, Heart Failure or Shock with MCC	NR	NR
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 or Carotid Sinus Neurostimulator	NR	NR
277	Cardiac Defibrillator Implant without MCC	NR	NR
317	Concomitant Left Atrial Appendage Closure and Cardiac Ablation	NR	NR
Transcatheter Aortic Valve Replacement		**4,024**	**$44,050**
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	2,596	$39,859

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