

List of Codes for Discussion Based on Written Feedback Provided

ICD-9 Long ICD-9 Code Description		ICD-10 Conversion*	ICD-9 Code Category in COMAR 10.24.17		MHCC draft proposal/ feedback request		Hospital/Health System that should provide feedback	Johns Hopkins Review Count for Volume
			Open Heart	Cardiac Surgery	Cardiac Surgery Y/N	Count for Volume Y/N		
35.05	Endovascular replacement of aortic valve	02RF37Z - Replacement of Aortic Valve with Autologous Tissue Substitute, Percutaneous Approach		X	Y		MedStar (No to all)	N
35.05		02RF38Z - Replacement of Aortic Valve with Zooplastic Tissue, Percutaneous Approach			Y		Sinai Hospital (Yes to all)	N
35.05		02RF3JZ - Replacement of Aortic Valve with Synthetic Substitute, Percutaneous Approach			Y		Johns Hopkins (No to all)	N
35.05		02RF3KZ - Replacement of Aortic Valve with Nonautologous Tissue Substitute, Percutaneous Approach			Y			N
35.55	Repair of endocardial cushion defect with prosthesis	02RM4JZ - Replacement of Ventricular Septum with Synthetic Substitute, Percutaneous Endoscopic Approach		X	Y		PRMC (yes, based on ICD-9 feedback) WAH (no, based on ICD-9 feedback)	N
35.61	Repair of atrial septal defect with tissue graft	02U537Z - Supplement Atrial Septum with Autologous Tissue Substitute, Percutaneous Approach			Y	Y	Sinai- count all procedures for volume. JHH proposes to count none.	N
35.61		02U538Z - Supplement Atrial Septum with Zooplastic Tissue, Percutaneous Approach			Y	Y		N
35.61		02U53KZ - Supplement Atrial Septum with Nonautologous Tissue Substitute, Percutaneous Approach			Y	Y		N
35.61		02U547Z - Supplement Atrial Septum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
35.61		02U548Z - Supplement Atrial Septum with Zooplastic Tissue, Percutaneous Endoscopic Approach			Y	Y		N
35.61		02U54KZ - Supplement Atrial Septum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N

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35.62	Repair of ventricular septal defect with tissue graft	02RM47Z - Replacement of Ventricular Septum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y	Sinai- count both for volume. JHH disagrees.	N
35.62		02RM4KZ - Replacement of Ventricular Septum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
35.62		02UM38Z - Supplement Ventricular Septum with Zooplasic Tissue, Percutaneous Approach			Y	Y	Sinai- count both for volume. JHH disagrees.	N
35.62		02UM48Z - Supplement Ventricular Septum with Zooplasic Tissue, Percutaneous Endoscopic Approach			Y	Y		N
35.92		021K49P - Bypass Right Ventricle to Pulmonary Trunk with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y	MedStar- as shown. JHH disagrees on all codes.	N
35.92		021K49Q - Bypass Right Ventricle to Right Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y		N
35.92		021K49R - Bypass Right Ventricle to Left Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y		N
35.92		021K4AP - Bypass Right Ventricle to Pulmonary Trunk with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
35.92		021K4AQ - Bypass Right Ventricle to Right Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
35.92		021K4AR - Bypass Right Ventricle to Left Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
35.92		021K4JP - Bypass Right Ventricle to Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N

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35.92	021K4JQ - Bypass Right Ventricle to Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y	MedStar- as shown. JHH disagrees on all codes.	N
35.92	021K4JR - Bypass Right Ventricle to Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
35.92	021K4KP - Bypass Right Ventricle to Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
35.92	021K4KQ - Bypass Right Ventricle to Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
35.92	021K4KR - Bypass Right Ventricle to Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
35.92	021K4ZP - Bypass Right Ventricle to Pulmonary Trunk, Percutaneous Endoscopic Approach			Y	Y		N
35.92	021K4ZQ - Bypass Right Ventricle to Right Pulmonary Artery, Percutaneous Endoscopic Approach			Y	Y		N
35.92	021K4ZR - Bypass Right Ventricle to Left Pulmonary Artery, Percutaneous Endoscopic Approach			Y	Y		N
35.94	021649P - Bypass Right Atrium to Pulmonary Trunk with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y	MedStar- as shown. JHH disagrees on whether to count for volume for all.	N
35.94	021649Q - Bypass Right Atrium to Right Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y		N
35.94	021649R - Bypass Right Atrium to Left Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y		N

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35.94	02164AP - Bypass Right Atrium to Pulmonary Trunk with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y	MedStar- as shown. JHH disagrees on whether to count for volume for all.	N
35.94	02164AQ - Bypass Right Atrium to Right Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
35.94	02164AR - Bypass Right Atrium to Left Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
35.94	02164JP - Bypass Right Atrium to Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
35.94	02164JQ - Bypass Right Atrium to Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
35.94	02164JR - Bypass Right Atrium to Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
35.94	02164KP - Bypass Right Atrium to Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
35.94	02164KQ - Bypass Right Atrium to Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
35.94	02164KR - Bypass Right Atrium to Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
35.94	02164ZP - Bypass Right Atrium to Pulmonary Trunk, Percutaneous Endoscopic Approach			Y	Y		N
35.94	02164ZQ - Bypass Right Atrium to Right Pulmonary Artery, Percutaneous Endoscopic Approach			Y	Y		N
35.94	02164ZR - Bypass Right Atrium to Left Pulmonary Artery, Percutaneous Endoscopic Approach			Y	Y		N

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35.95	02W54JZ - Revision of Synthetic Substitute in Atrial Septum, Percutaneous Endoscopic Approach			Y	Y	MedStar & JHH disagree	N
35.95	02WF47Z - Revision of Autologous Tissue Substitute in Aortic Valve, Percutaneous Endoscopic Approach			Y	Y	MedStar & JHH disagree on volume count.	N
35.95	02WF48Z - Revision of Zooplastic Tissue in Aortic Valve, Percutaneous Endoscopic Approach			Y	Y		N
35.95	02WF4JZ - Revision of Synthetic Substitute in Aortic Valve, Percutaneous Endoscopic Approach			Y	Y		N
35.95	02WF4KZ - Revision of Nonautologous Tissue Substitute in Aortic Valve, Percutaneous Endoscopic Approach			Y	Y		N
35.95	02WG47Z - Revision of Autologous Tissue Substitute in Mitral Valve, Percutaneous Endoscopic Approach			Y	Y		MedStar & JHH disagree on volume count.
35.95	02WG48Z - Revision of Zooplastic Tissue in Mitral Valve, Percutaneous Endoscopic Approach			Y	Y	MedStar & JHH disagree on volume count.	N
35.95	02WG4JZ - Revision of Synthetic Substitute in Mitral Valve, Percutaneous Endoscopic Approach			Y	Y		N
35.95	02WG4KZ - Revision of Nonautologous Tissue Substitute in Mitral Valve, Percutaneous Endoscopic Approach			Y	Y		N
35.95	02WH47Z - Revision of Autologous Tissue Substitute in Pulmonary Valve, Percutaneous Endoscopic Approach			Y	Y		MedStar & JHH disagree on volume count.
35.95	02WH48Z - Revision of Zooplastic Tissue in Pulmonary Valve, Percutaneous Endoscopic Approach			Y	Y	MedStar & JHH disagree on volume count.	N
35.95	02WH4JZ - Revision of Synthetic Substitute in Pulmonary Valve, Percutaneous Endoscopic Approach			Y	Y		N
35.95	02WH4KZ - Revision of Nonautologous Tissue Substitute in Pulmonary Valve, Percutaneous Endoscopic Approach			Y	Y		N
35.95	02WJ47Z - Revision of Autologous Tissue Substitute in Tricuspid Valve, Percutaneous Endoscopic Approach			Y	Y	MedStar & JHH disagree on volume count.	N
35.95	02WJ48Z - Revision of Zooplastic Tissue in Tricuspid Valve, Percutaneous Endoscopic Approach			Y	Y	MedStar & JHH disagree on volume count.	N

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35.95	02WJ4JZ - Revision of Synthetic Substitute in Tricuspid Valve, Percutaneous Endoscopic Approach			Y	Y		N
35.95	02WJ4KZ - Revision of Nonautologous Tissue Substitute in Tricuspid Valve, Percutaneous Endoscopic Approach			Y	Y		N
35.95	02WM4JZ - Revision of Synthetic Substitute in Ventricular Septum, Percutaneous Endoscopic Approach			Y	Y	MedStar & JHH disagree	N
36.10	0210493 - Bypass Coronary Artery, One Site from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y	WAH- Count all for volume. JHH count none.	N
36.10	02104A3 - Bypass Coronary Artery, One Site from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.10	02104J3 - Bypass Coronary Artery, One Site from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.10	02104K3 - Bypass Coronary Artery, One Site from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.10	02104Z3 - Bypass Coronary Artery, One Site from Coronary Artery, Percutaneous Endoscopic Approach			Y	Y		N
36.11	021049W - Bypass Coronary Artery, One Site from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y	WAH-count all for volume. JHH count none.	N
36.11	02104AW - Bypass Coronary Artery, One Site from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.11	02104JW - Bypass Coronary Artery, One Site from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.11	02104KW - Bypass Coronary Artery, One Site from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N

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36.12	021149W - Bypass Coronary Artery, Two Sites from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y	WAH-Count all for volume. JHH count none for volume.	N
36.12	02114AW - Bypass Coronary Artery, Two Sites from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.12	02114JW - Bypass Coronary Artery, Two Sites from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.12	02114KW - Bypass Coronary Artery, Two Sites from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.13	021249W - Bypass Coronary Artery, Three Sites from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y	WAH-Count all for volume. JHH count none for volume.	N
36.13	02124AW - Bypass Coronary Artery, Three Sites from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.13	02124JW - Bypass Coronary Artery, Three Sites from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.13	02124KW - Bypass Coronary Artery, Three Sites from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.14	021349W - Bypass Coronary Artery, Four or More Sites from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y	WAH-Count all for volume. JHH count none for volume.	N
36.14	02134AW - Bypass Coronary Artery, Four or More Sites from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.14	02134JW - Bypass Coronary Artery, Four or More Sites from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N

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36.14	02134KW - Bypass Coronary Artery, Four or More Sites from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.15	0210498 - Bypass Coronary Artery, One Site from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y	WAH-Count all for volume. JHH count none for volume.	N
36.15	0210499 - Bypass Coronary Artery, One Site from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.15	021049C - Bypass Coronary Artery, One Site from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.15	02104A8 - Bypass Coronary Artery, One Site from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.15	02104A9 - Bypass Coronary Artery, One Site from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.15	02104AC - Bypass Coronary Artery, One Site from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.15	02104J8 - Bypass Coronary Artery, One Site from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.15	02104J9 - Bypass Coronary Artery, One Site from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.15	02104JC - Bypass Coronary Artery, One Site from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N

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36.15	02104K8 - Bypass Coronary Artery, One Site from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y	WAH count all for volume. JHH count none for volume.	N
36.15	02104K9 - Bypass Coronary Artery, One Site from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.15	02104KC - Bypass Coronary Artery, One Site from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.15	02104Z8 - Bypass Coronary Artery, One Site from Right Internal Mammary, Percutaneous Endoscopic Approach			Y	Y		N
36.15	02104Z9 - Bypass Coronary Artery, One Site from Left Internal Mammary, Percutaneous Endoscopic Approach			Y	Y		N
36.15	02104ZC - Bypass Coronary Artery, One Site from Thoracic Artery, Percutaneous Endoscopic Approach			Y	Y		N
36.16	0211498 - Bypass Coronary Artery, Two Sites from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y	WAH-Count all for volume. JHH count none for volume.	N
36.16	0211499 - Bypass Coronary Artery, Two Sites from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.16	021149C - Bypass Coronary Artery, Two Sites from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02114A8 - Bypass Coronary Artery, Two Sites from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N

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36.16	02114A9 - Bypass Coronary Artery, Two Sites from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y	WAH-Count all for volume. JHH count none for volume.	N
36.16	02114AC - Bypass Coronary Artery, Two Sites from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02114J8 - Bypass Coronary Artery, Two Sites from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02114J9 - Bypass Coronary Artery, Two Sites from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02114JC - Bypass Coronary Artery, Two Sites from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02114K8 - Bypass Coronary Artery, Two Sites from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02114K9 - Bypass Coronary Artery, Two Sites from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02114KC - Bypass Coronary Artery, Two Sites from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02114Z8 - Bypass Coronary Artery, Two Sites from Right Internal Mammary, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02114Z9 - Bypass Coronary Artery, Two Sites from Left Internal Mammary, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02114ZC - Bypass Coronary Artery, Two Sites from Thoracic Artery, Percutaneous Endoscopic Approach			Y	Y		N

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36.16	021249C - Bypass Coronary Artery, Three Sites from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y	WAH-Count all for volume. JHH count none for volume.	N
36.16	02124AC - Bypass Coronary Artery, Three Sites from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02124JC - Bypass Coronary Artery, Three Sites from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02124KC - Bypass Coronary Artery, Three Sites from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02124ZC - Bypass Coronary Artery, Three Sites from Thoracic Artery, Percutaneous Endoscopic Approach			Y	Y		N
36.16	021349C - Bypass Coronary Artery, Four or More Sites from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y	WAH-Count all for volume. JHH count none for volume.	N
36.16	02134AC - Bypass Coronary Artery, Four or More Sites from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02134JC - Bypass Coronary Artery, Four or More Sites from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02134KC - Bypass Coronary Artery, Four or More Sites from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.16	02134ZC - Bypass Coronary Artery, Four or More Sites from Thoracic Artery, Percutaneous Endoscopic Approach			Y	Y		N

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36.17	021049F - Bypass Coronary Artery, One Site from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y	WAH-Count all for volume. JHH count none for volume.	N
36.17	02104AF - Bypass Coronary Artery, One Site from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.17	02104JF - Bypass Coronary Artery, One Site from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.17	02104KF - Bypass Coronary Artery, One Site from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.17	02104ZF - Bypass Coronary Artery, One Site from Abdominal Artery, Percutaneous Endoscopic Approach			Y	Y		N
36.19	0210493 - Bypass Coronary Artery, One Site from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y	Y	WAH-Count all for volume. JHH count none for volume.	N
36.19	02104A3 - Bypass Coronary Artery, One Site from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y	Y		N
36.19	02104J3 - Bypass Coronary Artery, One Site from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.19	02104K3 - Bypass Coronary Artery, One Site from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y	Y		N
36.19	02104Z3 - Bypass Coronary Artery, One Site from Coronary Artery, Percutaneous Endoscopic Approach			Y	Y		N
36.20	021K4Z8 - Bypass Right Ventricle to Right Internal Mammary, Percutaneous Endoscopic Approach			Y	Y	WAH & JHH disagree on volume count.	N
36.20	021K4Z9 - Bypass Right Ventricle to Left Internal Mammary, Percutaneous Endoscopic Approach			Y	Y		N

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36.20	021K4ZC - Bypass Right Ventricle to Thoracic Artery, Percutaneous Endoscopic Approach			Y	Y	WAH & JHH disagree on volume count.	N	
36.20	021L4Z8 - Bypass Left Ventricle to Right Internal Mammary, Percutaneous Endoscopic Approach			Y	Y		N	
36.20	021L4Z9 - Bypass Left Ventricle to Left Internal Mammary, Percutaneous Endoscopic Approach			Y	Y		N	
36.20	021L4ZC - Bypass Left Ventricle to Thoracic Artery, Percutaneous Endoscopic Approach			Y	Y		N	
37.41	02UA4JZ - Supplement Heart with Synthetic Substitute, Percutaneous Endoscopic Approach			Y	Y	UMMS & JHH disagree	N	
37.55	02PA3QZ - Removal of Implantable Heart Assist System from Heart, Percutaneous Approach			N* YES	Y	UMMS & JHH agree, but still should discuss.	Y	JHH Yes to Cardiac Surgery and Yes to Volume
37.60	Implantation or insertion of biventricular external heart assist system 02HA3RS - Insertion of Biventricular External Heart Assist System into Heart, Percutaneous Approach			N*	N	UMMS and JHH disagree as shown.	Y	
37.60	Implantation or insertion of biventricular external heart assist system 5A02216 - Assistance with Cardiac Output using Other Pump, Continuous			N*	N		Y	

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37.63 Repair of heart assist system	02WA0QZ - Revision of Implantable Heart Assist System in Heart, Open Approach		X	Y	N		Y
37.63	02WA0RZ - Revision of External Heart Assist System in Heart, Open Approach			Y	N	No one assigned to review.	Y
37.63	02WA3QZ - Revision of Implantable Heart Assist System in Heart, Percutaneous Approach			N* YES	N	JHH disagrees with UMMS on volume feedback for	Y
37.63	02WA3RZ - Revision of External Heart Assist System in Heart, Percutaneous Approach			N* YES	N	2 codes & whether to count codes as cardiac	Y
37.64 Removal of external heart assist system(s) or device(s)	02PA0RZ - Removal of External Heart Assist System from Heart, Open Approach		X	Y	Y	UMMS- as shown. JHH disagrees with UMMS on volume feedback for 1	Y
37.64	02PA3RZ - Removal of External Heart Assist System from Heart, Percutaneous Approach			N* YES	N	code & whether to label as cardiac surgery.	Y
37.64	02PA4RZ - Removal of External Heart Assist System from Heart, Percutaneous Endoscopic Approach			Y	Y		Y

ICD-9 Long ICD-9 Code Description	ICD-10 Conversion*	ICD-9 Code Category in COMAR 10.24.17		MHCC draft proposal/ feedback request		Hospital/Health System that should provide feedback	Johns Hopkins Review Count for Volume	
		Open Heart	Cardiac Surgery	Cardiac Surgery Y/N	Count for Volume Y/N			
37.65	02HA0RZ - Insertion of External Heart Assist System into Heart, Open Approach		X	Y	Y	JHH disagrees with UMMS on 2 of 4 codes to count for volume.	Y	
37.65	02HA4RZ - Insertion of External Heart Assist System into Heart, Percutaneous Endoscopic Approach			Y	Y		Y	
37.65	5A02116 - Assistance with Cardiac Output using Other Pump, Intermittent			N* YES	N		Y	JHH Yes to Cardiac Surgery and Yes to Volume JHH Yes to Cardiac Surgery and Yes to Volume
37.65	5A02216 - Assistance with Cardiac Output using Other Pump, Continuous			N* YES	N		Y	
37.67	02QA4ZZ - Repair Heart, Percutaneous Endoscopic Approach			Y	Y	UMMS & JH disagree	N	
37.68	5A02116 - Assistance with Cardiac Output using Other Pump, Intermittent			N*	N	JHH feedback not consistent with MHCC's understanding of CSAC feedback.	Y	
37.68	5A0211D - Assistance with Cardiac Output using Impeller Pump, Intermittent			N*	N	same comment as above.	Y	
37.68	5A02216 - Assistance with Cardiac Output using Other Pump, Continuous			N*	N	JHH disagrees with UMMS on volume	Y	
37.68	5A0221D - Assistance with Cardiac Output using Impeller Pump, Continuous			N*	N	count for all.	Y	

ICD-9 Long ICD-9 Code Description	ICD-10 Conversion*	ICD-9 Code Category in COMAR 10.24.17		MHCC draft proposal/ feedback request		Hospital/Health System that should provide feedback	Johns Hopkins Review Count for Volume
		Open Heart	Cardiac Surgery	Cardiac Surgery Y/N	Count for Volume Y/N		
37.68	02HA3RZ - Insertion of External Heart Assist System into Heart, Percutaneous Approach			N*	N		Y
37.99	0JPT0PZ - Removal of Cardiac Rhythm Related Device from Trunk Subcutaneous Tissue and Fascia, Open Approach			N* YES	N	UMMS & JHH disagree.	Y
37.99	0JWT0PZ - Revision of Cardiac Rhythm Related Device in Trunk Subcutaneous Tissue and Fascia, Open Approach			N* YES	N	UMMS & JHH disagree.	Y
39.0	021W49P - Bypass Thoracic Aorta to Pulmonary Trunk with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y*	Y*	JHH disagrees with UMMS on codes to count for volume for all.	N
39.0	021W49Q - Bypass Thoracic Aorta to Right Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y*	Y*		N
39.0	021W49R - Bypass Thoracic Aorta to Left Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y*	Y*		N
39.0	021W4AP - Bypass Thoracic Aorta to Pulmonary Trunk with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y*	Y*		N
39.0	021W4AQ - Bypass Thoracic Aorta to Right Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y*	Y*		N
39.0	021W4AR - Bypass Thoracic Aorta to Left Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y*	Y*		N
39.0	021W4JP - Bypass Thoracic Aorta to Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach			Y*	Y*		N

JHH Yes to Cardiac Surgery and Yes to Volume
JHH Yes to Cardiac Surgery and Yes to Volume

ICD-9 Long ICD-9 Code Description	ICD-10 Conversion*	ICD-9 Code Category in COMAR 10.24.17		MHCC draft proposal/ feedback request		Hospital/Health System that should provide feedback	Johns Hopkins Review Count for Volume
		Open Heart	Cardiac Surgery	Cardiac Surgery Y/N	Count for Volume Y/N		
39.0	021W4JQ - Bypass Thoracic Aorta to Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach			Y*	Y*		N
39.0	021W4JR - Bypass Thoracic Aorta to Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach			Y*	Y*		N
39.0	021W4KP - Bypass Thoracic Aorta to Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y*	Y*		N
39.0	021W4KQ - Bypass Thoracic Aorta to Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y*	Y*		N
39.0	021W4KR - Bypass Thoracic Aorta to Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y*	Y*		N
39.0	021W4ZP - Bypass Thoracic Aorta to Pulmonary Trunk, Percutaneous Endoscopic Approach			Y*	Y*		N
39.0	021W4ZQ - Bypass Thoracic Aorta to Right Pulmonary Artery, Percutaneous Endoscopic Approach			Y*	Y*		N
39.0	021W4ZR - Bypass Thoracic Aorta to Left Pulmonary Artery, Percutaneous Endoscopic Approach			Y*	Y*		N
39.21	021V49P - Bypass Superior Vena Cava to Pulmonary Trunk with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y*	Y*	JHH disagrees with UMMS on codes to count for volume.	N
39.21	021V49Q - Bypass Superior Vena Cava to Right Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y*	Y*		N
39.21	021V49R - Bypass Superior Vena Cava to Left Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach			Y*	Y*		N

ICD-9 Long ICD-9 Code Description	ICD-10 Conversion*	ICD-9 Code Category in COMAR 10.24.17		MHCC draft proposal/ feedback request		Hospital/Health System that should provide feedback	Johns Hopkins Review Count for Volume
		Open Heart	Cardiac Surgery	Cardiac Surgery Y/N	Count for Volume Y/N		
39.21	021V4AP - Bypass Superior Vena Cava to Pulmonary Trunk with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y*	Y*	JHH disagrees with UMMS on codes to count for volume.	N
39.21	021V4AQ - Bypass Superior Vena Cava to Right Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y*	Y*		N
39.21	021V4AR - Bypass Superior Vena Cava to Left Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach			Y*	Y*		N
39.21	021V4JP - Bypass Superior Vena Cava to Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach			Y*	Y*		N
39.21	021V4JQ - Bypass Superior Vena Cava to Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach			Y*	Y*		N
39.21	021V4JR - Bypass Superior Vena Cava to Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach			Y*	Y*		N
39.21	021V4KP - Bypass Superior Vena Cava to Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y*	Y*		N
39.21	021V4KQ - Bypass Superior Vena Cava to Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y*	Y*		N
39.21	021V4KR - Bypass Superior Vena Cava to Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach			Y*	Y*		N
39.21	021V4ZP - Bypass Superior Vena Cava to Pulmonary Trunk, Percutaneous Endoscopic Approach			Y*	Y*		N
39.21	021V4ZQ - Bypass Superior Vena Cava to Right Pulmonary Artery, Percutaneous Endoscopic Approach			Y*	Y*		N

ICD-9 Long ICD-9 Code Description	ICD-10 Conversion*	ICD-9 Code Category in COMAR 10.24.17		MHCC draft proposal/ feedback request		Hospital/Health System that should provide feedback	Johns Hopkins Review Count for Volume
		Open Heart	Cardiac Surgery	Cardiac Surgery Y/N	Count for Volume Y/N		
39.21	021V4ZR - Bypass Superior Vena Cava to Left Pulmonary Artery, Percutaneous Endoscopic Approach			Y*	Y*	UMMS & JHH disagree.	N
39.61 Extracorporeal circulation auxiliary to open heart surgery	5A1221Z - Performance of Cardiac Output, Continuous			Y*		MedStar (No) Sinai (Yes) JH (Yes)	Y
39.65 Extracorporeal membrane oxygenation [ECMO]	5A15223 - Extracorporeal Membrane Oxygenation, Continuous		X	Y*		MedStar (No) Sinai (yes) JH (yes)	Y