



**AHRQ Quality Indicators™ (AHRQ QI™)  
ICD-9-CM and ICD-10-CM/PCS Specification  
Enhanced Version 5.0**

**Inpatient Quality Indicators #25 (IQI #25)  
Bilateral Cardiac Catheterization Rate**

**October 2015  
Provider-Level Indicator  
Type of Score: Rate**

**Prepared by:**

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## IQI #25 Bilateral Cardiac Catheterization Rate

### DESCRIPTION

Bilateral cardiac catheterization discharges per 1,000 heart catheterizations discharges for coronary artery disease for patients ages 18 years and older. Excludes valid indications for right-side catheterization discharges and obstetric discharges.

*[NOTE: The software provides the rate per hospital discharge. However, common practice reports the measure as per 1,000 discharges. The user must multiply the rate obtained from the software by 1,000 to report specific procedure discharges per 1,000 hospital discharges.]*

### IQI #25 Bilateral Cardiac Catheterization Rate

NUMERATOR			
Discharges, among cases meeting the inclusion and exclusion rules for the denominator, with any-listed ICD-9-CM or ICD-10-PCS procedure codes for right and left heart catheterization without any-listed ICD-9-CM or ICD-10-CM diagnosis codes for indications for right-sided catheterization.			
<b><i>Right and left heart catheterization procedure codes: (PRCATHP)</i></b>			

ICD-9-CM	Description	ICD-10-PCS	Description
3723	RT/LEFT HEART CARD CATH	4A023N8	Measurement of Cardiac Sampling and Pressure, Bilateral, Percutaneous Approach

<b><i>Indications for right-sided catheterization diagnosis codes: (PRCAT2D)</i></b>			
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ICD-9-CM	Description	ICD-10-CM	Description
3910	ACUTE RHEUMATIC PERICARD	A1884	Tuberculosis of heart
3911	ACUTE RHEUMATIC ENDOCARD	I010	Acute rheumatic pericarditis
3912	AC RHEUMATIC MYOCARDITIS	I011	Acute rheumatic endocarditis
3918	AC RHEUMAT HRT DIS NEC	I012	Acute rheumatic myocarditis
3919	AC RHEUMAT HRT DIS NOS	I018	Other acute rheumatic heart disease
3920	RHEUM CHOREA W HRT INVOL	I019	Acute rheumatic heart disease, unspecified
393	CHR RHEUMATIC PERICARD	I020	Rheumatic chorea with heart involvement
3940	MITRAL STENOSIS	I050	Rheumatic mitral stenosis
3941	RHEUMATIC MITRAL INSUFF	I051	Rheumatic mitral insufficiency
3942	MITRAL STENOSIS W INSUFF	I052	Rheumatic mitral stenosis with insufficiency
3949	MITRAL VALVE DIS NEC/NOS	I058	Other rheumatic mitral valve diseases
3960	MITRAL/AORTIC STENOSIS	I059	Rheumatic mitral valve disease, unspecified
3961	MITRAL STENOS/AORT INSUF	I070	Rheumatic tricuspid stenosis
3962	MITRAL INSUF/AORT STENOS	I071	Rheumatic tricuspid insufficiency
3963	MITRAL/AORTIC VAL INSUFF	I072	Rheumatic tricuspid stenosis and insufficiency
3968	MITR/AORTIC MULT INVOLV	I078	Other rheumatic tricuspid valve diseases
3969	MITRAL/AORTIC V DIS NOS	I079	Rheumatic tricuspid valve disease, unspecified
3970	TRICUSPID VALVE DISEASE	I080	Rheumatic disorders of both mitral and aortic valves

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3971	RHEUM PULMON VALVE DIS	I081	Rheumatic disorders of both mitral and tricuspid valves
3979	RHEUM ENDOCARDITIS NOS	I082	Rheumatic disorders of both aortic and tricuspid valves
3980	RHEUMATIC MYOCARDITIS	I083	Combined rheumatic disorders of mitral, aortic and tricuspid valves
39890	RHEUMATIC HEART DIS NOS	I088	Other rheumatic multiple valve diseases
39891	RHEUMATIC HEART FAILURE	I089	Rheumatic multiple valve disease, unspecified
39899	RHEUMATIC HEART DIS NEC	I090	Rheumatic myocarditis
40200	MAL HYPERTEN HRT DIS NOS	I091	Rheumatic diseases of endocardium, valve unspecified
40201	MAL HYPERT HRT DIS W CHF	I092	Chronic rheumatic pericarditis
40210	BEN HYPERTEN HRT DIS NOS	I0981	Rheumatic heart failure
40211	BENIGN HYP HRT DIS W CHF	I0989	Other specified rheumatic heart diseases
40290	HYPERTENSIVE HRT DIS NOS	I099	Rheumatic heart disease, unspecified
40291	HYPERTEN HEART DIS W CHF	I110	Hypertensive heart disease with heart failure
40400	MAL HY HT/REN W/O HF/RF	I119	Hypertensive heart disease without heart failure
40401	MAL HYPER HRT/REN W HF	I130	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease
40402	MAL HY HT/REN W REN FAIL	I1310	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease
40403	MAL HYP HRT/REN W HF/RF	I1311	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease
40410	BEN HY HT/REN W/O HF/RF	I132	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease
40411	BEN HYPER HRT/REN W HF	I2601	Septic pulmonary embolism with acute cor pulmonale
40412	BEN HY HT/REN W REN FAIL	I2602	Saddle embolus of pulmonary artery with acute cor pulmonale
40413	BEN HYP HRT/REN W HF/RF	I2609	Other pulmonary embolism with acute cor pulmonale
40490	HY HT/REN NOS W/O HF/RF	I2690	Septic pulmonary embolism without acute cor pulmonale

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40491	HYPERTENSIVE HEART DISEASE WITH CONGESTIVE HEART FAILURE	I2692	Saddle embolus of pulmonary artery without acute cor pulmonale
40492	HYPERTENSIVE HEART DISEASE WITH RENAL FAILURE	I2699	Other pulmonary embolism without acute cor pulmonale
40493	HYPERTENSIVE HEART DISEASE WITH CONGESTIVE HEART FAILURE/RESPIRATORY FAILURE	I270	Primary pulmonary hypertension
4150	ACUTE COR PULMONALE	I271	Kyphoscoliotic heart disease
4151	PULMONARY EMBOLISM/INFARCT	I272	Other secondary pulmonary hypertension
41511	IATROGENIC PULMONARY EMBOLISM/INFARCT	I2781	Cor pulmonale (chronic)
41512	SEPTIC PULMONARY EMBOLISM	I2789	Other specified pulmonary heart diseases
41513	SADDLE EMBOLUS OF PULMONARY ARTERY	I279	Pulmonary heart disease, unspecified
41519	PULMONARY EMBOLISM/INFARCT NEC	I280	Arteriovenous fistula of pulmonary vessels
4160	PRIMARY PULMONARY HYPERTENSION	I281	Aneurysm of pulmonary artery
4161	KYPHOSCOLIOTIC HEART DISEASE	I288	Other diseases of pulmonary vessels
4168	CHRONIC PULMONARY HEART DISEASE NEC	I289	Disease of pulmonary vessels, unspecified
4169	CHRONIC PULMONARY HEART DISEASE NOS	I300	Acute nonspecific idiopathic pericarditis
4170	ARTERIOVENOUS FISTULA OF PULMONARY VESSELS	I301	Infective pericarditis
4171	PULMONARY ARTERY ANEURYSM	I308	Other forms of acute pericarditis
4178	PULMONARY CIRCULATORY DISORDERS NEC	I309	Acute pericarditis, unspecified
4179	PULMONARY CIRCULATORY DISORDERS NOS	I310	Chronic adhesive pericarditis
4200	ACUTE PERICARDITIS IN OTHER DISEASES	I311	Chronic constrictive pericarditis
42090	ACUTE PERICARDITIS NOS	I312	Hemopericardium, not elsewhere classified
42091	ACUTE IDIOPATHIC PERICARDITIS	I313	Pericardial effusion (noninflammatory)
42099	ACUTE PERICARDITIS NEC	I314	Cardiac tamponade
4210	ACUTE/SUBACUTE BACTERIAL ENDOCARDITIS	I318	Other specified diseases of pericardium
4211	ACUTE ENDOCARDITIS IN OTHER DISEASES	I319	Disease of pericardium, unspecified
4219	ACUTE/SUBACUTE ENDOCARDITIS NOS	I32	Pericarditis in diseases classified elsewhere
4220	ACUTE MYOCARDITIS IN OTHER DISEASES	I330	Acute and subacute infective endocarditis
42290	ACUTE MYOCARDITIS NOS	I339	Acute and subacute endocarditis, unspecified
42291	IDIOPATHIC MYOCARDITIS	I340	Nonrheumatic mitral (valve) insufficiency
42292	SEPTIC MYOCARDITIS	I341	Nonrheumatic mitral (valve) prolapse
42293	TOXIC MYOCARDITIS	I342	Nonrheumatic mitral (valve) stenosis
42299	ACUTE MYOCARDITIS NEC	I348	Other nonrheumatic mitral valve disorders

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4230	HEMOPERICARDIUM	I349	Nonrheumatic mitral valve disorder, unspecified
4231	ADHESIVE PERICARDITIS	I350	Nonrheumatic aortic (valve) stenosis
4232	CONSTRUCTIV PERICARDITIS	I351	Nonrheumatic aortic (valve) insufficiency
4233	CARDIAC TAMPONADE	I352	Nonrheumatic aortic (valve) stenosis with insufficiency
4238	PERICARDIAL DISEASE NEC	I358	Other nonrheumatic aortic valve disorders
4239	PERICARDIAL DISEASE NOS	I359	Nonrheumatic aortic valve disorder, unspecified
4240	MITRAL VALVE DISORDER	I360	Nonrheumatic tricuspid (valve) stenosis
4241	AORTIC VALVE DISORDER	I361	Nonrheumatic tricuspid (valve) insufficiency
4242	NONRHEUM TRICUSP VAL DIS	I362	Nonrheumatic tricuspid (valve) stenosis with insufficiency
4243	PULMONARY VALVE DISORDER	I368	Other nonrheumatic tricuspid valve disorders
42490	ENDOCARDITIS NOS	I369	Nonrheumatic tricuspid valve disorder, unspecified
42491	ENDOCARDITIS IN OTH DIS	I370	Nonrheumatic pulmonary valve stenosis
42499	ENDOCARDITIS NEC	I371	Nonrheumatic pulmonary valve insufficiency
4250	ENDOMYOCARDIAL FIBROSIS	I372	Nonrheumatic pulmonary valve stenosis with insufficiency
4251	HYPERTR OBSTR CARDIOMYOP	I378	Other nonrheumatic pulmonary valve disorders
42511	HYPERTROPHIC OBSTRUCTIVE CARDIOMYOPATHY	I379	Nonrheumatic pulmonary valve disorder, unspecified
42518	OTHER HYPERTROPHIC CARDIOMYOPATHY	I38	Endocarditis, valve unspecified
4252	OBSC AFRIC CARDIOMYOPATH	I39	Endocarditis and heart valve disorders in diseases classified elsewhere
4253	ENDOCARD FIBROELASTOSIS	I400	Infective myocarditis
4254	PRIM CARDIOMYOPATHY NEC	I401	Isolated myocarditis
4255	ALCOHOLIC CARDIOMYOPATHY	I408	Other acute myocarditis
4257	METABOLIC CARDIOMYOPATHY	I409	Acute myocarditis, unspecified
4258	CARDIOMYOPATH IN OTH DIS	I41	Myocarditis in diseases classified elsewhere
4259	SECOND CARDIOMYOPATH NOS	I420	Dilated cardiomyopathy
4280	CHF NOS	I421	Obstructive hypertrophic cardiomyopathy
4281	LEFT HEART FAILURE	I422	Other hypertrophic cardiomyopathy
42820	SYSTOLIC HRT FAILURE NOS	I423	Endomyocardial (eosinophilic) disease
42821	AC SYSTOLIC HRT FAILURE	I424	Endocardial fibroelastosis
42822	CHR SYSTOLIC HRT FAILURE	I425	Other restrictive cardiomyopathy

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42823	AC ON CHR SYST HRT FAIL	I426	Alcoholic cardiomyopathy
42830	DIASTOLC HRT FAILURE NOS	I427	Cardiomyopathy due to drug and external agent
42831	AC DIASTOLIC HRT FAILURE	I428	Other cardiomyopathies
42832	CHR DIASTOLIC HRT FAIL	I429	Cardiomyopathy, unspecified
42833	AC ON CHR DIAST HRT FAIL	I43	Cardiomyopathy in diseases classified elsewhere
42840	SYST/DIAST HRT FAIL NOS	I501	Left ventricular failure
42841	AC SYST/DIASTOL HRT FAIL	I5020	Unspecified systolic (congestive) heart failure
42842	CHR SYST/DIASTL HRT FAIL	I5021	Acute systolic (congestive) heart failure
42843	AC/CHR SYST/DIA HRT FAIL	I5022	Chronic systolic (congestive) heart failure
4289	HEART FAILURE NOS	I5023	Acute on chronic systolic (congestive) heart failure
7450	COMMON TRUNCUS	I5030	Unspecified diastolic (congestive) heart failure
74510	COMPL TRANSPOS GREAT VES	I5031	Acute diastolic (congestive) heart failure
74511	DOUBLE OUTLET RT VENTRIC	I5032	Chronic diastolic (congestive) heart failure
74512	CORRECT TRANSPOS GRT VES	I5033	Acute on chronic diastolic (congestive) heart failure
74519	TRANSPOS GREAT VESS NEC	I5040	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure
7452	TETRALOGY OF FALLOT	I5041	Acute combined systolic (congestive) and diastolic (congestive) heart failure
7453	COMMON VENTRICLE	I5042	Chronic combined systolic (congestive) and diastolic (congestive) heart failure
7454	VENTRICULAR SEPT DEFECT	I5043	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure
7455	SECUNDUM ATRIAL SEPT DEF	I509	Heart failure, unspecified
74560	ENDOCARD CUSHION DEF NOS	M3211	Endocarditis in systemic lupus erythematosus
74561	OSTIUM PRIMUM DEFECT	M3212	Pericarditis in systemic lupus erythematosus
74569	ENDOCARD CUSHION DEF NEC	P293	Persistent fetal circulation
7457	COR BILOCULARE	Q200	Common arterial trunk
7458	SEPTAL CLOSURE ANOM NEC	Q201	Double outlet right ventricle
7459	SEPTAL CLOSURE ANOM NOS	Q202	Double outlet left ventricle
74600	PULMONARY VALVE ANOM NOS	Q203	Discordant ventriculoarterial connection
74601	CONG PULMON VALV ATRESIA	Q204	Double inlet ventricle
74602	CONG PULMON VALVE STENOS	Q205	Discordant atrioventricular connection

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74609	PULMONARY VALVE ANOM NEC	Q206	Isomerism of atrial appendages
7461	CONG TRICUSP ATRES/STEN	Q208	Other congenital malformations of cardiac chambers and connections
7462	EBSTEINS ANOMALY	Q209	Congenital malformation of cardiac chambers and connections, unspecified
7463	CONG AORTA VALV STENOSIS	Q210	Ventricular septal defect
7464	CONG AORTA VALV INSUFFIC	Q211	Atrial septal defect
7465	CONGEN MITRAL STENOSIS	Q212	Atrioventricular septal defect
7466	CONG MITRAL INSUFFICIENC	Q213	Tetralogy of Fallot
7467	HYPOPLAS LEFT HEART SYND	Q214	Aortopulmonary septal defect
74681	CONG SUBAORTIC STENOSIS	Q218	Other congenital malformations of cardiac septa
74682	COR TRIATRIATUM	Q219	Congenital malformation of cardiac septum, unspecified
74683	INFUNDIB PULMON STENOSIS	Q220	Pulmonary valve atresia
74684	OBSTRUCT HEART ANOM NEC	Q221	Congenital pulmonary valve stenosis
74685	CORONARY ARTERY ANOMALY	Q222	Congenital pulmonary valve insufficiency
74686	CONGENITAL HEART BLOCK	Q223	Other congenital malformations of pulmonary valve
74687	MALPOSITION OF HEART	Q224	Congenital tricuspid stenosis
74689	CONG HEART ANOMALY NEC	Q225	Ebsteins anomaly
7469	CONG HEART ANOMALY NOS	Q226	Hypoplastic right heart syndrome
7470	PATENT DUCTUS ARTERIOSUS	Q228	Other congenital malformations of tricuspid valve
74710	COARCTATION OF AORTA	Q229	Congenital malformation of tricuspid valve, unspecified
74711	INTERRUPT OF AORTIC ARCH	Q230	Congenital stenosis of aortic valve
74720	CONG ANOM OF AORTA NOS	Q231	Congenital insufficiency of aortic valve
74721	ANOMALIES OF AORTIC ARCH	Q232	Congenital mitral stenosis
74722	AORTIC ATRESIA/STENOSIS	Q233	Congenital mitral insufficiency
74729	CONG ANOM OF AORTA NEC	Q234	Hypoplastic left heart syndrome
7473	PULMONARY ARTERY ANOM	Q238	Other congenital malformations of aortic and mitral valves
74731	PULMONARY ARTERY COARCTATION AND ATRESIA	Q239	Congenital malformation of aortic and mitral valves, unspecified
74740	GREAT VEIN ANOMALY NOS	Q240	Dextrocardia



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74741	TOT ANOM PULM VEN CONNEC	Q241	Levocardia
74742	PART ANOM PULM VEN CONN	Q242	Cor triatriatum
74749	GREAT VEIN ANOMALY NEC	Q243	Pulmonary infundibular stenosis
7475	UMBILICAL ARTERY ABSENCE	Q244	Congenital subaortic stenosis
74760	UNSP PRPHERL VASC ANOMAL	Q245	Malformation of coronary vessels
74761	GSTRONTEST VESL ANOMALY	Q246	Congenital heart block
74762	RENAL VESSEL ANOMALY	Q248	Other specified congenital malformations of heart
74763	UPR LIMB VESSEL ANOMALY	Q249	Congenital malformation of heart, unspecified
74764	LWR LIMB VESSEL ANOMALY	Q250	Patent ductus arteriosus
74769	OTH SPCF PRPH VSCL ANOML	Q251	Coarctation of aorta
74781	CEREBROVASCULAR ANOMALY	Q252	Atresia of aorta
74782	SPINAL VESSEL ANOMALY	Q253	Supravalvular aortic stenosis
74783	PERSISTENT FETAL CIRC	Q254	Other congenital malformations of aorta
74789	CIRCULATORY ANOMALY NEC	Q255	Atresia of pulmonary artery
7479	CIRCULATORY ANOMALY NOS	Q2571	Coarctation of pulmonary artery
		Q258	Other congenital malformations of other great arteries
		Q259	Congenital malformation of great arteries, unspecified
		Q260	Congenital stenosis of vena cava
		Q261	Persistent left superior vena cava
		Q262	Total anomalous pulmonary venous connection
		Q263	Partial anomalous pulmonary venous connection
		Q264	Anomalous pulmonary venous connection, unspecified
		Q265	Anomalous portal venous connection
		Q266	Portal vein-hepatic artery fistula
		Q268	Other congenital malformations of great veins
		Q269	Congenital malformation of great vein, unspecified
		Q270	Congenital absence and hypoplasia of umbilical artery
		Q271	Congenital renal artery stenosis
		Q272	Other congenital malformations of renal artery
		Q2730	Arteriovenous malformation, site unspecified
		Q2731	Arteriovenous malformation of vessel of upper limb

Q2732	Arteriovenous malformation of vessel of lower limb
Q2733	Arteriovenous malformation of digestive system vessel
Q2734	Arteriovenous malformation of renal vessel
Q2739	Arteriovenous malformation, other site
Q274	Congenital phlebectasia
Q278	Other specified congenital malformations of peripheral vascular system
Q279	Congenital malformation of peripheral vascular system, unspecified
Q280	Arteriovenous malformation of precerebral vessels
Q281	Other malformations of precerebral vessels
Q282	Arteriovenous malformation of cerebral vessels
Q283	Other malformations of cerebral vessels
Q288	Other specified congenital malformations of circulatory system
Q289	Congenital malformation of circulatory system, unspecified

### **IQI #25 Bilateral Cardiac Catheterization Rate**

<b>NUMERATOR EXCLUSIONS</b>
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<i>Not Applicable</i>
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### IQI #25 Bilateral Cardiac Catheterization Rate

<b>DENOMINATOR</b>			
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Discharges, for patients ages 18 years and older, with any-listed ICD-9-CM or ICD-10-PCS procedure codes for heart catheterization and any-listed ICD-9-CM or ICD-10-CM diagnosis codes for coronary artery disease.

***Heart catheterization procedure codes: (PRCAT2P)***

ICD-9-CM	Description	ICD-10-PCS	Description
3722	LEFT HEART CARDIAC CATH	4A023N7	Measurement of Cardiac Sampling and Pressure, Left Heart, Percutaneous Approach
3723	RT/LEFT HEART CARD CATH	4A023N8	Measurement of Cardiac Sampling and Pressure, Bilateral, Percutaneous Approach

***Coronary artery disease diagnosis codes: (PRCATHD)***

ICD-9-CM	Description	ICD-10-CM	Description
41000	AMI ANTEROLATERAL, UNSPEC	I200	Unstable angina
41001	AMI ANTEROLATERAL, INIT	I201	Angina pectoris with documented spasm
41002	AMI ANTEROLATERAL, SUBSEQ	I208	Other forms of angina pectoris
41010	AMI ANTERIOR WALL, UNSPEC	I209	Angina pectoris, unspecified
41011	AMI ANTERIOR WALL, INIT	I2101	ST elevation (STEMI) myocardial infarction involving left main coronary artery
41012	AMI ANTERIOR WALL, SUBSEQ	I2102	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery
41020	AMI INFEROLATERAL, UNSPEC	I2109	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall
41021	AMI INFEROLATERAL, INIT	I2111	ST elevation (STEMI) myocardial infarction involving right coronary artery
41022	AMI INFEROLATERAL, SUBSEQ	I2119	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall
41030	AMI INFEROPOST, UNSPEC	I2121	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery

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41031	AMI INFEROPOST, INITIAL	I2129	ST elevation (STEMI) myocardial infarction involving other sites
41032	AMI INFEROPOST, SUBSEQ	I213	ST elevation (STEMI) myocardial infarction of unspecified site
41040	AMI INFERIOR WALL, UNSPEC	I214	Non-ST elevation (NSTEMI) myocardial infarction
41041	AMI INFERIOR WALL, INIT	I220	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall
41042	AMI INFERIOR WALL, SUBSEQ	I221	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall
41050	AMI LATERAL NEC, UNSPEC	I222	Subsequent non-ST elevation (NSTEMI) myocardial infarction
41051	AMI LATERAL NEC, INITIAL	I228	Subsequent ST elevation (STEMI) myocardial infarction of other sites
41052	AMI LATERAL NEC, SUBSEQ	I229	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site
41060	TRUE POST INFARCT, UNSPEC	I240	Acute coronary thrombosis not resulting in myocardial infarction
41061	TRUE POST INFARCT, INIT	I241	Dresslers syndrome
41062	TRUE POST INFARCT, SUBSEQ	I248	Other forms of acute ischemic heart disease
41070	SUBENDO INFARCT, UNSPEC	I249	Acute ischemic heart disease, unspecified
41071	SUBENDO INFARCT, INITIAL	I2510	Atherosclerotic heart disease of native coronary artery without angina pectoris
41072	SUBENDO INFARCT, SUBSEQ	I25110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris
41080	AMI NEC, UNSPECIFIED	I25111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm
41081	AMI NEC, INITIAL	I25118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris
41082	AMI NEC, SUBSEQUENT	I25119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris

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41090	AMI NOS, UNSPECIFIED	I252	Old myocardial infarction
41091	AMI NOS, INITIAL	I253	Aneurysm of heart
41092	AMI NOS, SUBSEQUENT	I2541	Coronary artery aneurysm
4110	POST MI SYNDROME	I2542	Coronary artery dissection
4111	INTERMED CORONARY SYND	I255	Ischemic cardiomyopathy
41181	CORONARY OCCLSN W/O MI	I256	Silent myocardial ischemia
41189	AC ISCHEMIC HRT DIS NEC	I25700	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris
412	OLD MYOCARDIAL INFARCT	I25701	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm
4130	ANGINA DECUBITUS	I25708	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris
4131	PRINZMETAL ANGINA	I25709	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris
4139	ANGINA PECTORIS NEC/NOS	I25710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris
4140	CORONARY ATHEROSCLEROSIS	I25711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm
41400	COR ATH UNSP VSL NTV/GFT	I25718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris
41401	CRNRY ATHRSCL NATVE VSSL	I25719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris
41402	CRN ATH ATLG VN BPS GRFT	I25720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris
41403	CRN ATH NONATLG BLG GRFT	I25721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm
41404	COR ATH ARTRY BYPAS GRFT	I25728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris

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41405	COR ATH BYPASS GRAFT NOS	I25729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris
41406	COR ATH NATV ART TP HRT	I25730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris
41407	COR ATH BPS GRAFT TP HRT	I25731	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm
41410	ANEURYSM, HEART (WALL)	I25738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris
41411	CORONARY VESSEL ANEURYSM	I25739	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris
41412	DISSECTION COR ARTERY	I25750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina
41419	ANEURYSM OF HEART NEC	I25751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm
4143	COR ATH D/T LPD RCH PLAQ	I25758	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris
4144	CORONARY ATHEROSCLEROSIS DUE TO CALCIFID LESION	I25759	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris
4148	CHR ISCHEMIC HRT DIS NEC	I25760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina
4149	CHR ISCHEMIC HRT DIS NOS	I25761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm
		I25768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris
		I25769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris

I25790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris
I25791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm
I25798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris
I25799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris
I25810	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris
I25811	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris
I25812	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris
I2583	Coronary atherosclerosis due to lipid rich plaque
I2584	Coronary atherosclerosis due to calcified coronary lesion
I2589	Other forms of chronic ischemic heart disease
I259	Chronic ischemic heart disease, unspecified



## IQI #25 Bilateral Cardiac Catheterization Rate

### DENOMINATOR EXCLUSIONS

Exclude cases:

- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)