



Inpatient Quality Indicator Comparative Data: Based on the 2009 Nationwide Inpatient Sample (NIS) Version 4.4

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Introduction

The data presented in these tables are nationwide comparative data for the Inpatient Quality Indicators (IQI) calculated using the 2009 Agency for Healthcare Research and Quality (AHRQ), Healthcare Cost and Utilization Project (HCUP), Nationwide Inpatient Sample (NIS). The data are generated by calculating the indicators from the NIS without using any weights. For Area Level indicators, the numerator is multiplied by five to account for the 20% sampling of the NIS¹. The Provider Level Rates are presented per 100, while the Area Level Rates are presented per 100,000. The rates for any cells with fewer than 11 cases are not presented.

¹ The approach of multiplying the numerator by five approximates the weight structure used by HCUPnet in their calculation of national rates.

IQI – Provider Level Rates

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100 (=Observed rate*100)	Risk Adjusted Rate PER 100 =(Risk Adjusted Rate*100)
IQI 01	Esophageal Resection Volume	1,223			
IQI 02	Pancreatic Resection Volume	1,928			
IQI 04	Abdominal Aortic Aneurysm (AAA) Repair Volume	8,845			
IQI 05	Coronary Artery Bypass Graft (CABG) Volume	53,390			
IQI 06	Percutaneous Coronary Intervention (PCI) Volume	138,321			
IQI 07	Carotid Endarterectomy Volume	22,588			
IQI 08	Esophageal Resection Mortality Rate	46	997	4.61	4.46
IQI 09	Pancreatic Resection Mortality Rate	73	1,344	5.43	5.35
IQI 11	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate	406	8,790	4.62	4.48
IQI 12	Coronary Artery Bypass Graft (CABG) Mortality Rate	1,368	52,524	2.60	2.06
IQI 13	Craniotomy Mortality Rate	1,562	26,796	5.83	5.03
IQI 14	Hip Replacement Mortality Rate	60	51,369	0.12	0.06
IQI 15	Acute Myocardial Infarction (AMI) Mortality Rate	6,928	112,765	6.14	5.77
IQI 16	Heart Failure Mortality Rate	6,969	209,989	3.32	2.46
IQI 17	Acute Stroke Mortality Rate	9,814	104,056	9.43	8.59
IQI 18	Gastrointestinal Hemorrhage Mortality Rate	2,387	98,664	2.42	1.91
IQI 19	Hip Fracture Mortality Rate	1,433	51,802	2.77	2.42
IQI 20	Pneumonia Mortality Rate	7,992	194,394	4.11	3.28
IQI 21	Cesarean Delivery Rate	219,215	725,837	30.20	
IQI 22	Vaginal Birth After Cesarean (VBAC) Delivery Rate, Uncomplicated	10,208	118,033	8.65	
IQI 23	Laparoscopic Cholecystectomy Rate	58,578	69,871	83.84	
IQI 24	Incidental Appendectomy in the Elderly Rate	1,011	86,427	1.17	
IQI 25	Bilateral Cardiac Catheterization Rate	3,917	235,602	1.66	
IQI 30	Percutaneous Coronary Intervention (PCI) Mortality Rate	2,209	134,732	1.64	1.20
IQI 31	Carotid Endarterectomy Mortality Rate	113	22,516	0.50	0.35
IQI 32	Acute Myocardial Infarction (AMI) Mortality Rate, Without Transfer Cases	5,806	89,695	6.47	6.16
IQI 33	Primary Cesarean Delivery Rate	111,390	607,804	18.33	
IQI 34	Vaginal Birth After Cesarean (VBAC) Rate, All	11,470	133,818	8.57	

IQI – Provider Level Rates (Males)

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100 (=Observed rate*100)
IQI 01	Esophageal Resection Volume	946		
IQI 02	Pancreatic Resection Volume	1,030		
IQI 04	Abdominal Aortic Aneurysm (AAA) Repair Volume	6,966		
IQI 05	Coronary Artery Bypass Graft (CABG) Volume	38,316		
IQI 06	Percutaneous Coronary Intervention (PCI) Volume	91,160		
IQI 07	Carotid Endarterectomy Volume	13,133		
IQI 08	Esophageal Resection Mortality Rate	40	817	4.90
IQI 09	Pancreatic Resection Mortality Rate	46	725	6.34
IQI 11	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate	268	6,921	3.87
IQI 12	Coronary Artery Bypass Graft (CABG) Mortality Rate	825	37,695	2.19
IQI 13	Craniotomy Mortality Rate	830	12,424	6.68
IQI 14	Hip Replacement Mortality Rate	27	22,516	0.12
IQI 15	Acute Myocardial Infarction (AMI) Mortality Rate	3,763	68,263	5.51
IQI 16	Heart Failure Mortality Rate	3,447	103,693	3.32
IQI 17	Acute Stroke Mortality Rate	4,443	49,539	8.97
IQI 18	Gastrointestinal Hemorrhage Mortality Rate	1,317	49,861	2.64
IQI 19	Hip Fracture Mortality Rate	593	13,849	4.28
IQI 20	Pneumonia Mortality Rate	3,987	90,846	4.39
IQI 21	Cesarean Delivery Rate			
IQI 22	Vaginal Birth After Cesarean (VBAC) Delivery Rate, Uncomplicated			
IQI 23	Laparoscopic Cholecystectomy Rate	19,735	25,159	78.44
IQI 24	Incidental Appendectomy in the Elderly Rate	450	36,226	1.24
IQI 25	Bilateral Cardiac Catheterization Rate	2,347	146,707	1.60
IQI 30	Percutaneous Coronary Intervention (PCI) Mortality Rate	1,303	88,486	1.47
IQI 31	Carotid Endarterectomy Mortality Rate	64	13,083	0.49
IQI 32	Acute Myocardial Infarction (AMI) Mortality Rate, Without Transfer Cases	3,115	53,483	5.82
IQI 33	Primary Cesarean Delivery Rate			
IQI 34	Vaginal Birth After Cesarean (VBAC) Rate, All			

IQI – Provider Level Rates (Females)

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100 (=Observed rate*100)
IQI 01	Esophageal Resection Volume	277		
IQI 02	Pancreatic Resection Volume	898		
IQI 04	Abdominal Aortic Aneurysm (AAA) Repair Volume	1,879		
IQI 05	Coronary Artery Bypass Graft (CABG) Volume	15,074		
IQI 06	Percutaneous Coronary Intervention (PCI) Volume	47,161		
IQI 07	Carotid Endarterectomy Volume	9,455		
IQI 08	Esophageal Resection Mortality Rate	*****		
IQI 09	Pancreatic Resection Mortality Rate	27	619	4.36
IQI 11	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate	138	1,869	7.38
IQI 12	Coronary Artery Bypass Graft (CABG) Mortality Rate	543	14,829	3.66
IQI 13	Craniotomy Mortality Rate	732	14,372	5.09
IQI 14	Hip Replacement Mortality Rate	33	28,853	0.11
IQI 15	Acute Myocardial Infarction (AMI) Mortality Rate	3,165	44,502	7.11
IQI 16	Heart Failure Mortality Rate	3,522	106,296	3.31
IQI 17	Acute Stroke Mortality Rate	5371	54,517	9.85
IQI 18	Gastrointestinal Hemorrhage Mortality Rate	1,070	48,803	2.19
IQI 19	Hip Fracture Mortality Rate	840	37,953	2.21
IQI 20	Pneumonia Mortality Rate	4,005	103,548	3.87
IQI 21	Cesarean Delivery Rate	219,215	725,837	30.20
IQI 22	Vaginal Birth After Cesarean (VBAC) Delivery Rate, Uncomplicated	10,208	118,033	8.65
IQI 23	Laparoscopic Cholecystectomy Rate	38,843	44,712	86.87
IQI 24	Incidental Appendectomy in the Elderly Rate	561	50,201	1.12
IQI 25	Bilateral Cardiac Catheterization Rate	1,570	88,895	1.77
IQI 30	Percutaneous Coronary Intervention (PCI) Mortality Rate	906	46,246	1.96
IQI 31	Carotid Endarterectomy Mortality Rate	49	9,433	0.52
IQI 32	Acute Myocardial Infarction (AMI) Mortality Rate, Without Transfer Cases	2,691	36,212	7.43
IQI 33	Primary Cesarean Delivery Rate	111,390	607,804	18.33
IQI 34	Vaginal Birth After Cesarean (VBAC) Rate, All	11,470	133,818	8.57

*****Cell entry fewer than 11, rate is unavailable.

IQI – Provider Level Rates (Ages 0 to 17)

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100 (=Observed rate*100)
IQI 01	Esophageal Resection Volume			
IQI 02	Pancreatic Resection Volume			
IQI 04	Abdominal Aortic Aneurysm (AAA) Repair Volume			
IQI 05	Coronary Artery Bypass Graft (CABG) Volume			
IQI 06	Percutaneous Coronary Intervention (PCI) Volume			
IQI 07	Carotid Endarterectomy Volume			
IQI 08	Esophageal Resection Mortality Rate			
IQI 09	Pancreatic Resection Mortality Rate			
IQI 11	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate			
IQI 12	Coronary Artery Bypass Graft (CABG) Mortality Rate			
IQI 13	Craniotomy Mortality Rate			
IQI 14	Hip Replacement Mortality Rate			
IQI 15	Acute Myocardial Infarction (AMI) Mortality Rate			
IQI 16	Heart Failure Mortality Rate			
IQI 17	Acute Stroke Mortality Rate			
IQI 18	Gastrointestinal Hemorrhage Mortality Rate			
IQI 19	Hip Fracture Mortality Rate			
IQI 20	Pneumonia Mortality Rate			
IQI 21	Cesarean Delivery Rate	4,449	23,090	19.27
IQI 22	Vaginal Birth After Cesarean (VBAC) Delivery Rate, Uncomplicated	42	380	11.05
IQI 23	Laparoscopic Cholecystectomy Rate			
IQI 24	Incidental Appendectomy in the Elderly Rate			
IQI 25	Bilateral Cardiac Catheterization Rate			
IQI 30	Percutaneous Coronary Intervention (PCI) Mortality Rate			
IQI 31	Carotid Endarterectomy Mortality Rate			
IQI 32	Acute Myocardial Infarction (AMI) Mortality Rate, Without Transfer Cases			
IQI 33	Primary Cesarean Delivery Rate	4,111	22,710	18.10
IQI 34	Vaginal Birth After Cesarean (VBAC) Rate, All	46	424	10.85

IQI – Provider Level Rates (Ages 18 to 39)

**Comparative Data for the IQI based on the 2009 Nationwide Inpatient Sample (NIS)
Version 4.4**

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100 (=Observed rate*100)
IQI 01	Esophageal Resection Volume	38		
IQI 02	Pancreatic Resection Volume	116		
IQI 04	Abdominal Aortic Aneurysm (AAA) Repair Volume	13		
IQI 05	Coronary Artery Bypass Graft (CABG) Volume	488		
IQI 06	Percutaneous Coronary Intervention (PCI) Volume	2,569		
IQI 07	Carotid Endarterectomy Volume	24		
IQI 08	Esophageal Resection Mortality Rate	*****		
IQI 09	Pancreatic Resection Mortality Rate	*****		
IQI 11	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate	*****		
IQI 12	Coronary Artery Bypass Graft (CABG) Mortality Rate	*****		
IQI 13	Craniotomy Mortality Rate	121	4,672	2.59
IQI 14	Hip Replacement Mortality Rate	*****		
IQI 15	Acute Myocardial Infarction (AMI) Mortality Rate	50	2,639	1.89
IQI 16	Heart Failure Mortality Rate	75	4,660	1.61
IQI 17	Acute Stroke Mortality Rate	223	2,756	8.09
IQI 18	Gastrointestinal Hemorrhage Mortality Rate	33	5,722	0.58
IQI 19	Hip Fracture Mortality Rate	*****		
IQI 20	Pneumonia Mortality Rate	171	16,816	1.02
IQI 21	Cesarean Delivery Rate	206,166	683,726	30.15
IQI 22	Vaginal Birth After Cesarean (VBAC) Delivery Rate, Uncomplicated	9,710	112,534	8.63
IQI 23	Laparoscopic Cholecystectomy Rate	17,789	19,148	92.90
IQI 24	Incidental Appendectomy in the Elderly Rate			
IQI 25	Bilateral Cardiac Catheterization Rate	57	4,685	1.22
IQI 30	Percutaneous Coronary Intervention (PCI) Mortality Rate	*****		
IQI 31	Carotid Endarterectomy Mortality Rate	*****		
IQI 32	Acute Myocardial Infarction (AMI) Mortality Rate, Without Transfer Cases	41	2,051	2.00
IQI 33	Primary Cesarean Delivery Rate	103,342	571,192	18.09
IQI 34	Vaginal Birth After Cesarean (VBAC) Rate, All	10,898	127,248	8.56

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IQI – Provider Level Rates (Ages 40 to 64)

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100 (=Observed rate*100)
IQI 01	Esophageal Resection Volume	621		
IQI 02	Pancreatic Resection Volume	856		
IQI 04	Abdominal Aortic Aneurysm (AAA) Repair Volume	1,442		
IQI 05	Coronary Artery Bypass Graft (CABG) Volume	22,280		
IQI 06	Percutaneous Coronary Intervention (PCI) Volume	65,721		
IQI 07	Carotid Endarterectomy Volume	5,293		
IQI 08	Esophageal Resection Mortality Rate	17	520	3.27
IQI 09	Pancreatic Resection Mortality Rate	21	538	3.90
IQI 11	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate	45	1,431	3.14
IQI 12	Coronary Artery Bypass Graft (CABG) Mortality Rate	351	22,124	1.59
IQI 13	Craniotomy Mortality Rate	685	12,962	5.28
IQI 14	Hip Replacement Mortality Rate	*****		
IQI 15	Acute Myocardial Infarction (AMI) Mortality Rate	1,380	46,310	2.98
IQI 16	Heart Failure Mortality Rate	852	52,166	1.63
IQI 17	Acute Stroke Mortality Rate	2,327	31,507	7.39
IQI 18	Gastrointestinal Hemorrhage Mortality Rate	509	28,948	1.76
IQI 19	Hip Fracture Mortality Rate	*****		
IQI 20	Pneumonia Mortality Rate	1,306	59,353	2.20
IQI 21	Cesarean Delivery Rate	8,600	19,021	45.21
IQI 22	Vaginal Birth After Cesarean (VBAC) Delivery Rate, Uncomplicated	456	5,119	8.91
IQI 23	Laparoscopic Cholecystectomy Rate	24,391	29,021	84.05
IQI 24	Incidental Appendectomy in the Elderly Rate	*****		
IQI 25	Bilateral Cardiac Catheterization Rate	1,633	108,579	1.50
IQI 30	Percutaneous Coronary Intervention (PCI) Mortality Rate	662	65,165	1.02
IQI 31	Carotid Endarterectomy Mortality Rate	17	5,277	0.32
IQI 32	Acute Myocardial Infarction (AMI) Mortality Rate, Without Transfer Cases	1,122	35,677	3.14
IQI 33	Primary Cesarean Delivery Rate	3,937	13,902	28.32
IQI 34	Vaginal Birth After Cesarean (VBAC) Rate, All	526	6,146	8.56

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IQI – Provider Level Rates (Ages 65 to 74)

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100 (=Observed rate*100)
IQI 01	Esophageal Resection Volume	379		
IQI 02	Pancreatic Resection Volume	578		
IQI 04	Abdominal Aortic Aneurysm (AAA) Repair Volume	3376		
IQI 05	Coronary Artery Bypass Graft (CABG) Volume	17,614		
IQI 06	Percutaneous Coronary Intervention (PCI) Volume	36,980		
IQI 07	Carotid Endarterectomy Volume	8,501		
IQI 08	Esophageal Resection Mortality Rate	18	322	5.59
IQI 09	Pancreatic Resection Mortality Rate	25	451	5.54
IQI 11	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate	111	3,362	3.30
IQI 12	Coronary Artery Bypass Graft (CABG) Mortality Rate	442	17,505	2.52
IQI 13	Craniotomy Mortality Rate	361	5,091	7.09
IQI 14	Hip Replacement Mortality Rate	15	15,079	0.10
IQI 15	Acute Myocardial Infarction (AMI) Mortality Rate	1,356	24,157	5.61
IQI 16	Heart Failure Mortality Rate	1,112	42,909	2.59
IQI 17	Acute Stroke Mortality Rate	1,799	21,742	8.27
IQI 18	Gastrointestinal Hemorrhage Mortality Rate	444	19,789	2.24
IQI 19	Hip Fracture Mortality Rate	132	8,322	1.59
IQI 20	Pneumonia Mortality Rate	1,387	37,077	3.74
IQI 21	Cesarean Delivery Rate	*****		
IQI 22	Vaginal Birth After Cesarean (VBAC) Delivery Rate, Uncomplicated	*****		
IQI 23	Laparoscopic Cholecystectomy Rate	7,946	10,475	75.86
IQI 24	Incidental Appendectomy in the Elderly Rate	589	45,189	1.30
IQI 25	Bilateral Cardiac Catheterization Rate	1,191	63,461	1.88
IQI 30	Percutaneous Coronary Intervention (PCI) Mortality Rate	571	36,749	1.55
IQI 31	Carotid Endarterectomy Mortality Rate	39	8,475	0.46
IQI 32	Acute Myocardial Infarction (AMI) Mortality Rate, Without Transfer Cases	1,052	18,538	5.67
IQI 33	Primary Cesarean Delivery Rate	*****		
IQI 34	Vaginal Birth After Cesarean (VBAC) Rate, All	*****		

*****Cell entry fewer than 11, rate is unavailable.

IQI – Provider Level Rates (Ages 75+)

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100 (=Observed rate*100)
IQI 01	Esophageal Resection Volume	185		
IQI 02	Pancreatic Resection Volume	378		
IQI 04	Abdominal Aortic Aneurysm (AAA) Repair Volume	4,014		
IQI 05	Coronary Artery Bypass Graft (CABG) Volume	13,008		
IQI 06	Percutaneous Coronary Intervention (PCI) Volume	33,051		
IQI 07	Carotid Endarterectomy Volume	8,770		
IQI 08	Esophageal Resection Mortality Rate	11	145	7.59
IQI 09	Pancreatic Resection Mortality Rate	27	330	8.18
IQI 11	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate	249	3,984	6.25
IQI 12	Coronary Artery Bypass Graft (CABG) Mortality Rate	575	12,895	4.46
IQI 13	Craniotomy Mortality Rate	395	4,071	9.70
IQI 14	Hip Replacement Mortality Rate	40	13,286	0.30
IQI 15	Acute Myocardial Infarction (AMI) Mortality Rate	4,142	39,659	10.44
IQI 16	Heart Failure Mortality Rate	4,930	110,254	4.47
IQI 17	Acute Stroke Mortality Rate	5,465	48,051	11.37
IQI 18	Gastrointestinal Hemorrhage Mortality Rate	1,401	44,205	3.17
IQI 19	Hip Fracture Mortality Rate	1,301	43,480	2.99
IQI 20	Pneumonia Mortality Rate	5,128	81,148	6.32
IQI 21	Cesarean Delivery Rate	*****		
IQI 22	Vaginal Birth After Cesarean (VBAC) Delivery Rate, Uncomplicated	*****		
IQI 23	Laparoscopic Cholecystectomy Rate	8,452	11,227	75.28
IQI 24	Incidental Appendectomy in the Elderly Rate	422	41,238	1.02
IQI 25	Bilateral Cardiac Catheterization Rate	1,036	58,877	1.76
IQI 30	Percutaneous Coronary Intervention (PCI) Mortality Rate	976	32,818	2.97
IQI 31	Carotid Endarterectomy Mortality Rate	56	8,740	0.64
IQI 32	Acute Myocardial Infarction (AMI) Mortality Rate, Without Transfer Cases	3,591	33,429	10.74
IQI 33	Primary Cesarean Delivery Rate	*****		
IQI 34	Vaginal Birth After Cesarean (VBAC) Rate, All	*****		

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IQI – Provider Level Rates (Payer: Medicare)

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100 (=Observed rate*100)	Risk Adjusted Rate PER 100 =(Risk Adjusted Rate*100)
IQI 01	Esophageal Resection Volume	534			
IQI 02	Pancreatic Resection Volume	909			
IQI 04	Abdominal Aortic Aneurysm (AAA) Repair Volume	6,765			
IQI 05	Coronary Artery Bypass Graft (CABG) Volume	29,308			
IQI 06	Percutaneous Coronary Intervention (PCI) Volume	70,971			
IQI 07	Carotid Endarterectomy Volume	16,300			
IQI 08	Esophageal Resection Mortality Rate	29	431	6.73	4.57
IQI 09	Pancreatic Resection Mortality Rate	50	710	7.04	5.56
IQI 11	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate	328	6,733	4.87	4.45
IQI 12	Coronary Artery Bypass Graft (CABG) Mortality Rate	983	29,087	3.38	2.10
IQI 13	Craniotomy Mortality Rate	728	9,790	7.44	5.25
IQI 14	Hip Replacement Mortality Rate	56	27,179	0.21	0.08
IQI 15	Acute Myocardial Infarction (AMI) Mortality Rate	5,221	62,931	8.30	5.78
IQI 16	Heart Failure Mortality Rate	5,579	155,779	3.58	2.38
IQI 17	Acute Stroke Mortality Rate	6,458	66,332	9.74	8.23
IQI 18	Gastrointestinal Hemorrhage Mortality Rate	1,741	64,011	2.72	1.85
IQI 19	Hip Fracture Mortality Rate	1,283	46,821	2.74	2.39
IQI 20	Pneumonia Mortality Rate	6,118	123,603	4.95	3.19
IQI 21	Cesarean Delivery Rate	1,257	3,418	36.78	
IQI 22	Vaginal Birth After Cesarean (VBAC) Delivery Rate, Uncomplicated	67	723	9.27	
IQI 23	Laparoscopic Cholecystectomy Rate	17,270	22,707	76.06	
IQI 24	Incidental Appendectomy in the Elderly Rate	884	74,633	1.18	
IQI 25	Bilateral Cardiac Catheterization Rate	2,261	125,331	1.80	
IQI 30	Percutaneous Coronary Intervention (PCI) Mortality Rate	1,493	70,366	2.12	1.20
IQI 31	Carotid Endarterectomy Mortality Rate	84	16,247	0.52	0.34
IQI 32	Acute Myocardial Infarction (AMI) Mortality Rate, Without Transfer Cases	4,411	50,912	8.66	6.15
IQI 33	Primary Cesarean Delivery Rate	601	2,695	22.30	
IQI 34	Vaginal Birth After Cesarean (VBAC) Rate, All	79	882	8.96	

IQI – Provider Level Rates (Payer: Medicaid)

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100 (=Observed rate*100)	Risk Adjusted Rate PER 100 =(Risk Adjusted Rate*100)
IQI 01	Esophageal Resection Volume	80			
IQI 02	Pancreatic Resection Volume	113			
IQI 04	Abdominal Aortic Aneurysm (AAA) Repair Volume	153			
IQI 05	Coronary Artery Bypass Graft (CABG) Volume	2,696			
IQI 06	Percutaneous Coronary Intervention (PCI) Volume	7,705			
IQI 07	Carotid Endarterectomy Volume	646			
IQI 08	Esophageal Resection Mortality Rate	*****			
IQI 09	Pancreatic Resection Mortality Rate	*****			
IQI 11	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate	*****			
IQI 12	Coronary Artery Bypass Graft (CABG) Mortality Rate	61	2,580	2.36	2.30
IQI 13	Craniotomy Mortality Rate	178	2,890	6.16	5.34
IQI 14	Hip Replacement Mortality Rate	*****			
IQI 15	Acute Myocardial Infarction (AMI) Mortality Rate	285	6,608	4.31	5.94
IQI 16	Heart Failure Mortality Rate	299	16,435	1.82	2.41
IQI 17	Acute Stroke Mortality Rate	628	7,283	8.62	8.37
IQI 18	Gastrointestinal Hemorrhage Mortality Rate	143	7,012	2.04	2.10
IQI 19	Hip Fracture Mortality Rate	*****			
IQI 20	Pneumonia Mortality Rate	463	17,818	2.60	3.57
IQI 21	Cesarean Delivery Rate	92,348	321,820	28.70	
IQI 22	Vaginal Birth After Cesarean (VBAC) Delivery Rate, Uncomplicated	4,628	51,812	8.93	
IQI 23	Laparoscopic Cholecystectomy Rate	7,879	8,876	88.77	
IQI 24	Incidental Appendectomy in the Elderly Rate	*****			
IQI 25	Bilateral Cardiac Catheterization Rate	288	15,163	1.90	
IQI 30	Percutaneous Coronary Intervention (PCI) Mortality Rate	116	7,183	1.61	1.39
IQI 31	Carotid Endarterectomy Mortality Rate	*****			
IQI 32	Acute Myocardial Infarction (AMI) Mortality Rate, Without Transfer Cases	243	5,151	4.72	6.59
IQI 33	Primary Cesarean Delivery Rate	45,164	270,008	16.73	
IQI 34	Vaginal Birth After Cesarean (VBAC) Rate, All	5,321	58,997	9.02	

*****Cell entry fewer than 11, rate is unavailable.

IQI – Provider Level Rates (Payer: Other)

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100 (=Observed rate*100)	Risk Adjusted Rate PER 100 =(Risk Adjusted Rate*100)
IQI 01	Esophageal Resection Volume	32			
IQI 02	Pancreatic Resection Volume	64			
IQI 04	Abdominal Aortic Aneurysm (AAA) Repair Volume	162			
IQI 05	Coronary Artery Bypass Graft (CABG) Volume	1,483			
IQI 06	Percutaneous Coronary Intervention (PCI) Volume	4,071			
IQI 07	Carotid Endarterectomy Volume	340			
IQI 08	Esophageal Resection Mortality Rate	*****			
IQI 09	Pancreatic Resection Mortality Rate	*****			
IQI 11	Abdominal Aortic Aneurysm (AAA) Repair Mortality Rate	*****			
IQI 12	Coronary Artery Bypass Graft (CABG) Mortality Rate	33	1,386	2.38	2.58
IQI 13	Craniotomy Mortality Rate	71	1,005	7.06	6.59
IQI 14	Hip Replacement Mortality Rate	*****			
IQI 15	Acute Myocardial Infarction (AMI) Mortality Rate	182	3,432	5.30	7.65
IQI 16	Heart Failure Mortality Rate	200	3,749	5.33	4.84
IQI 17	Acute Stroke Mortality Rate	350	2,632	13.30	12.93
IQI 18	Gastrointestinal Hemorrhage Mortality Rate	76	2,522	3.01	3.07
IQI 19	Hip Fracture Mortality Rate	20	578	3.46	2.98
IQI 20	Pneumonia Mortality Rate	202	4,766	4.24	4.87
IQI 21	Cesarean Delivery Rate	5,607	19,902	28.17	
IQI 22	Vaginal Birth After Cesarean (VBAC) Delivery Rate, Uncomplicated	284	2,944	9.65	
IQI 23	Laparoscopic Cholecystectomy Rate	2,349	2,745	85.57	
IQI 24	Incidental Appendectomy in the Elderly Rate	*****			
IQI 25	Bilateral Cardiac Catheterization Rate	99	7,094	1.40	
IQI 30	Percutaneous Coronary Intervention (PCI) Mortality Rate	56	3,805	1.47	1.39
IQI 31	Carotid Endarterectomy Mortality Rate	*****			
IQI 32	Acute Myocardial Infarction (AMI) Mortality Rate, Without Transfer Cases	135	2,601	5.19	7.83
IQI 33	Primary Cesarean Delivery Rate	2,947	16,958	17.38	
IQI 34	Vaginal Birth After Cesarean (VBAC) Rate, All	329	3,341	9.85	

*****Cell entry fewer than 11, rate is unavailable.

IQI – Area Level Rates

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100,000 (=Observed rate*100,000)	Risk Adjusted Rate PER 100,000 (=Risk Adjusted Rate*100,000)
IQI 26	Coronary Artery Bypass Graft (CABG) Rate	263,395	140,825,315	187.04	190.61
IQI 27	Percutaneous Coronary Intervention (PCI) Rate	676,985	140,825,760	480.73	488.77
IQI 28	Hysterectomy Rate	411,690	119,592,172	344.24	343.16
IQI 29	Laminectomy or Spinal Fusion Rate	633,500	232,325,554	272.68	275.69

IQI – Area Level Rates (Males)

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100,000 (=Observed rate*100,000)
IQI 26	Coronary Artery Bypass Graft (CABG) Rate	188,975	66,577,034	283.84
IQI 27	Percutaneous Coronary Intervention (PCI) Rate	444,860	66,577,396	668.18
IQI 28	Hysterectomy Rate			
IQI 29	Laminectomy or Spinal Fusion Rate	312,115	112,733,688	276.86

IQI – Area Level Rates (Females)

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100,000 (=Observed rate*100,000)
IQI 26	Coronary Artery Bypass Graft (CABG) Rate	74,420	74,248,281	100.23
IQI 27	Percutaneous Coronary Intervention (PCI) Rate	232,125	74,248,364	312.63
IQI 28	Hysterectomy Rate	411,690	119,592,172	344.24
IQI 29	Laminectomy or Spinal Fusion Rate	321,385	119,591,866	268.73

IQI – Area Level Rates (Ages 18 to 39)

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100,000 (=Observed rate*100,000)
IQI 26	Coronary Artery Bypass Graft (CABG) Rate			
IQI 27	Percutaneous Coronary Intervention (PCI) Rate			
IQI 28	Hysterectomy Rate	99,345	45,343,687	219.09
IQI 29	Laminectomy or Spinal Fusion Rate	87,920	91,500,336	96.09

IQI – Area Level Rates (Ages 40 to 64)

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100,000 (=Observed rate*100,000)
IQI 26	Coronary Artery Bypass Graft (CABG) Rate	110,835	101,218,628	109.50
IQI 27	Percutaneous Coronary Intervention (PCI) Rate	327,585	101,218,703	323.64
IQI 28	Hysterectomy Rate	280,255	51,659,900	542.50
IQI 29	Laminectomy or Spinal Fusion Rate	346,760	101,218,648	342.59

IQI – Area Level Rates (Ages 65 to 74)

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100,000 (=Observed rate*100,000)
IQI 26	Coronary Artery Bypass Graft (CABG) Rate	87,760	21,224,519	413.48
IQI 27	Percutaneous Coronary Intervention (PCI) Rate	184,500	21,224,693	869.27
IQI 28	Hysterectomy Rate	22,370	11,370,665	196.73
IQI 29	Laminectomy or Spinal Fusion Rate	123,765	21,224,490	583.12

IQI – Area Level Rates (Ages 75+)

INDICATOR	LABEL	NUMERATOR	DENOMINATOR	Observed Rate PER 100,000 (=Observed rate*100,000)
IQI 26	Coronary Artery Bypass Graft (CABG) Rate	64,800	18,382,168	352.52
IQI 27	Percutaneous Coronary Intervention (PCI) Rate	164,900	18,382,364	897.06
IQI 28	Hysterectomy Rate	9,720	11,217,920	86.65
IQI 29	Laminectomy or Spinal Fusion Rate	75,055	18,382,080	408.31