



## PQI #7 Hypertension Admission Rate

### Numerator

All non-maternal discharges of age 18 years and older with ICD-9-CM principal diagnosis code for hypertension (see below).

*ICD-9-CM hypertension diagnosis codes:*

4010	MALIGNANT HYPERTENSION	40310	BEN HYP REN W/O REN FAIL
4019	HYPERTENSION NOS	40390	HYP REN NOS W/O REN FAIL
40200	MAL HYPERTEN HRT DIS NOS	40400	MAL HY HT/REN W/O CHF/RF
40210	BEN HYPERTEN HRT DIS NOS	40410	BEN HY HT/REN W/O CHF/RF
40290	HYPERTENSIVE HRT DIS NOS	40490	HY HT/REN NOS W/O CHF/RF
40300	MAL HYP REN W/O REN FAIL		

Exclude cases:

- transfer from a hospital (different facility)
- transfer from a skilled Nursing Facility (SNF) or Intermediate Care Facility (ICF)
- transfer from another health care facility
- MDC 14 (pregnancy, childbirth, and puerperium)
- with cardiac procedure codes in any field
- with any diagnosis of Stage I-IV kidney disease, only if accompanied by procedures for preparation for hemodialysis (dialysis access procedures)

*ICD-9-CM Cardiac procedure codes*

0050	IMPL CRT PACEMAKER SYS OCT02-	3503	CLOSED PULMON VALVOTOMY
0051	IMPL CRT DEFIBRILLAT OCT02-	3504	CLOSED TRICUSP VALVOTOMY
0052	IMP/REP LEAD LF VEN SYS OCT02-	3510	OPEN VALVULOPLASTY NOS
0053	IMP/REP CRT PACEMKR GEN OCT02-	3511	OPN AORTIC VALVULOPLASTY
0054	IMP/REP CRT DEFIB GENAT OCT02-	3512	OPN MITRAL VALVULOPLASTY
0056	INS/REP IMPL SENSOR LEAD OCT06-	3513	OPN PULMON VALVULOPLASTY
0057	IMP/REP SUBCUE CARD DEV OCT06-	3514	OPN TRICUS VALVULOPLASTY
0066	PTCA OCT06-	3520	REPLACE HEART VALVE NOS
3500	CLOSED VALVOTOMY NOS	3521	REPLACE AORT VALV-TISSUE
3501	CLOSED AORTIC VALVOTOMY	3522	REPLACE AORTIC VALVE NEC
3502	CLOSED MITRAL VALVOTOMY	3523	REPLACE MITR VALV-TISSUE
		3524	REPLACE MITRAL VALVE NEC
		3525	REPLACE PULM VALV-TISSUE
		3526	REPLACE PULMON VALVE NEC

3527	REPLACE TRIC VALV-TISSUE		OCT06-
3528	REPLACE TRICUSP VALV NEC	3639	OTH HEART REVASULAR
3531	PAPILLARY MUSCLE OPS	3691	CORON VESS ANEURYSM REP
3532	CHORDAE TENDINEAE OPS	3699	HEART VESSLE OP NEC
3533	ANNULOPLASTY	3731	PERICARDIECTOMY
3534	INFUNDIBULECTOMY	3732	HEART ANEURYSM EXCISION
3535	TRABECUL CARNEAE CORD OP	3733	EXC/DEST HRT LESION OPEN
3539	TISS ADJ TO VALV OPS NEC	3734	EXC/DEST HRT LES OTHER
3541	ENLARGE EXISTING SEP DEF	3735	PARTIAL VENTRICULECTOMY
3542	CREATE SEPTAL DEFECT	3736	EXCISION OR DESTRUCTION OF
3550	PROSTH REP HRT SEPTA NOS		LEFT ATRIAL APPENDAGE (LAA)
3551	PROS REP ATRIAL DEF-OPN		OCT08-
3552	PROS REPAIR ATRIA DEF-CL	3741	IMPLANT PROSTH CARD SUPPORT
3553	PROST REPAIR VENTRIC DEF		DEV OCT06
3554	PROS REP ENDOCAR CUSHION	375	HEART TRANSPLANTATION (NOT
3555	PROS REP VENTRC DEF-CLOS		VALID AFTER OCT 03)
	OCT06-	3751	HEART TRANPLANTATION OCT03-
3560	GRFT REPAIR HRT SEPT NOS	3752	IMPLANT TOT REP HRT SYS OCT03-
3561	GRAFT REPAIR ATRIAL DEF	3753	REPL/REP THORAC UNIT HRT
3562	GRAFT REPAIR VENTRIC DEF		OCT03-
3563	GRFT REP ENDOCAR CUSHION	3754	REPL/REP OTH TOT HRT SYS
3570	HEART SEPTA REPAIR NOS		OCT03-
3571	ATRIA SEPTA DEF REP NEC	3755	REMOVAL OF INTERNAL
3572	VENTR SEPTA DEF REP NEC		BIVENTRICULAR HEART
3573	ENDOCAR CUSHION REP NEC		REPLACEMENT SYSTEM OCT08-
3581	TOT REPAIR TETRAL FALLOT	3760	IMPLANTATION OR INSERTION OF
3582	TOTAL REPAIR OF TAPVC		BIVENTRICULAR EXTERNAL HEART
3583	TOT REP TRUNCUS ARTERIOS		ASSIST SYSTEM OCT08-
3584	TOT COR TRANSPOS GRT VES	3761	IMPLANT OF PULSATION BALLOON
3591	INTERAT VEN RETRN TRANSP	3762	INSERTION OF NON-IMPLANTABLE
3592	CONDUIT RT VENT-PUL ART		HEART ASSIST SYSTEM
3593	CONDUIT LEFT VENTR-AORTA	3763	REPAIR OF HEART ASSIST SYSTEM
3594	CONDUIT ARTIUM-PULM ART	3764	REMOVAL OF HEART ASSIST
3595	HEART REPAIR REVISION		SYSTEM
3596	PERC HEART VALVULOPLASTY	3765	IMPLANT OF EXTERNAL HEART
3598	OTHER HEART SEPTA OPS		ASSIST SYSTEM
3599	OTHER HEART VALVE OPS	3766	INSERTION OF IMPLANTABLE
3601	PTCA-1 VESSEL W/O AGENT		HEART ASSIST SYSTEM
3602	PTCA-1 VESSEL WITH AGNT	3770	INT INSERT PACEMAK LEAD
3603	OPEN CORONRY ANGIOPLASTY	3771	INT INSERT LEAD IN VENT
3604	INTRCORONRY THROMB INFUS	3772	INT INSERT LEAD ATRI-VENT
3605	PTCA-MULTIPLE VESSEL	3773	INT INSER LEAD IN ATRIUM
3606	INSERT OF COR ART STENT OCT95-	3774	INT OR REPL LEAD EPICAR
3607	INS DRUG-ELUT CORONRY ST	3775	REVISION OF LEAD
	OCT02-	3776	REPL TV ATRI-VENT LEAD
3609	REM OF COR ART OBSTR NEC	3777	REMOVAL OF LEAD W/O REPL
3610	AORTOCORONARY BYPASS NOS	3778	INSER TEAM PACEMAKER SYS
3611	AORTOCOR BYPAS-1 COR ART	3779	REVIS OR RELOCATE POCKET
3612	AORTOCOR BYPAS-2 COR ART	3780	INT OR REPL PERM PACEMKR
3613	AORTOCOR BYPAS-3 COR ART	3781	INT INSERT 1-CHAM, NON
3614	AORTCOR BYPAS-4+ COR ART	3782	INT INSERT 1-CHAM, RATE
3615	1 INT MAM-COR ART BYPASS	3783	INT INSERT DUAL-CHAM DEV
3616	2 INT MAM-COR ART BYPASS	3785	REPL PACEM W 1-CHAM, NON
3617	ABD-CORON ART BYPASS OCT96-	3786	REPL PACEM 1-CHAM, RATE
3619	HRT REVAS BYPS ANAS NEC	3787	REPL PACEM W DUAL-CHAM
362	ARTERIAL IMPLANT REVASC	3789	REVISE OR REMOVE PACEMAK
363	OTH HEART REVASCULAR	3794	IMPLT/REPL CARDDEFIB TOT
3631	OPEN CHEST TRANS REVASC	3795	IMPLT CARDIODEFIB LEADS
3632	OTH TRANSMYO REVASCULAR	3796	IMPLT CARDIODEFIB GENATR
3633	ENDO TRANSMYO REVASCULAR	3797	REPL CARDIODEFIB LEADS
	OCT06-	3798	REPL CARDIODEFIB GENRATR
3634	PERC TRANSMYO REVASCULAR		

*ICD-9-CM Stage I-IV Kidney Disease diagnosis codes:*

40300	HYPERTENSIVE CHRONIC KIDNEY DISEASE, MALIGNANT, WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED	40410	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE, BENIGN, WITHOUT HEART FAILURE AND WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED
40310	HYPERTENSIVE CHRONIC KIDNEY DISEASE, BENIGN, WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED	40490	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE, UNSPECIFIED, WITHOUT HEART FAILURE AND WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED
40390	HYPERTENSIVE CHRONIC KIDNEY DISEASE, UNSPECIFIED, WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED		
40400	HYPERTENSIVE HEART AND CHRONIC KIDNEY DISEASE, MALIGNANT, WITHOUT HEART FAILURE AND WITH CHRONIC KIDNEY DISEASE STAGE I THROUGH STAGE IV, OR UNSPECIFIED		

*Only if ICD-9-CM Dialysis Access procedure codes:*

3895	VENOUS CATHETERIZATION FOR RENAL DIALYSIS	3943	FOR RENAL DIALYSIS REMOVAL OF ARTERIOVENOUS SHUNT FOR RENAL DIALYSIS
3927	ARTERIOVENOSTOMY FOR RENAL DIALYSIS	3993	INSERTION OF VESSEL-TO-VESSEL CANNULA
3929	OTHER (PERIPHERAL) VASCULAR SHUNT OR BYPASS	3994	REPLACEMENT OF VESSEL-TO-VESSEL CANNULA
3942	REVISION OF ARTERIOVENOUS SHUNT		

## Denominator

Population in Metro Area or county, age 18 years and older.