



PQI #8 Congestive Heart Failure (CHF) Admission Rate

Numerator

All discharges of age 18 years and older with ICD-9-CM principal diagnosis code for CHF.

Include ICD-9-CM diagnosis codes:

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|-------|---------------------------------|-------|---------------------------------|
| 39891 | RHEUMATIC HEART FAILURE | 42831 | AC DIASTOLIC HRT FAILURE OCT02- |
| 4280 | CONGESTIVE HEART FAILURE | 42832 | CHR DIASTOLIC HRT FAIL OCT02- |
| 4281 | LEFT HEART FAILURE | 42833 | AC ON CHR DIAST HRT FAIL OCT02- |
| 42820 | SYSTOLIC HRT FAILURE NOS OCT02- | 42840 | SYST/DIAST HRT FAIL NOS OCT02- |
| 42821 | AC SYSTOLIC HRT FAILURE OCT02- | 42841 | AC SYST/DIASTOL HRT FAIL OCT02- |
| 42822 | CHR SYSTOLIC HRT FAILURE OCT02- | 42842 | CHR SYST/DIASTL HRT FAIL OCT02- |
| 42823 | AC ON CHR SYST HRT FAIL OCT02- | 42843 | AC/CHR SYST/DIA HRT FAIL OCT02- |
| 42830 | DIASTOLC HRT FAILURE NOS OCT02- | 4289 | HEART FAILURE NOS |

Include ICD-9-CM diagnosis codes ONLY for discharges before 2002Q3 (ending September 30, 2002):

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|-------|--------------------------|-------|--------------------------|
| 40201 | MAL HYPERT HRT DIS W CHF | 40411 | BEN HYPERT HRT/REN W CHF |
| 40211 | BENIGN HYP HRT DIS W CHF | 40413 | BEN HYP HRT/REN W CHF/RF |
| 40291 | HYPERTEN HEART DIS W CHF | 40491 | HYPERT HRT/REN NOS W CHF |
| 40401 | MAL HYPERT HRT/REN W CHF | 40493 | HYP HT/REN NOS W CHF/RF |
| 40403 | MAL HYP HRT/REN W CHF/RF | | |

See *Prevention Quality Indicators Appendices*:

- Appendix A – Admission Codes for Transfers

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 a cardiac procedure code

ICD-9-CM Cardiac procedure codes

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| 0050 | IMPL CRT PACEMAKER SYS OCT02- | 0052 | IMP/REP LEAD LF VEN SYS OCT02- |
| 0051 | IMPL CRT DEFIBRILLAT OCT02- | 0053 | IMP/REP CRT PACEMKR GEN OCT02- |

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| 0054 | IMP/REP CRT DEFIB GENAT OCT02- | 3598 | OTHER HEART SEPTA OPS |
| 0056 | INS/REP IMPL SENSOR LEAD OCT06- | 3599 | OTHER HEART VALVE OPS |
| 0057 | IMP/REP SUBCUE CARD DEV OCT06- | 3601 | PTCA-1 VESSEL W/O AGENT |
| 0066 | PTCA OCT06- | 3602 | PTCA-1 VESSEL WITH AGNT |
| 1751 | IMPLANTATION OF RECHARGEABLE CARDIAC CONTRACTILITY MODULATION [CCM], TOTAL SYSTEM OCT09- | 3603 | OPEN CORONRY ANGIOPLASTY |
| 1752 | IMPLANTATION OR REPLACEMENT OF CARDIAC CONTRACTILITY MODULATION [CCM] RECHARGEABLE PULSE GENERATOR ONLY OCT09- | 3604 | INTRCORONRY THROMB INFUS |
| 3500 | CLOSED VALVOTOMY NOS | 3605 | PTCA-MULTIPLE VESSEL |
| 3501 | CLOSED AORTIC VALVOTOMY | 3606 | INSERT OF COR ART STENT OCT95- |
| 3502 | CLOSED MITRAL VALVOTOMY | 3607 | INS DRUG-ELUT CORONRY ST OCT02- |
| 3503 | CLOSED PULMON VALVOTOMY | 3609 | REM OF COR ART OBSTR NEC |
| 3504 | CLOSED TRICUSP VALVOTOMY | 3610 | AORTOCORONARY BYPASS NOS |
| 3510 | OPEN VALVULOPLASTY NOS | 3611 | AORTOCOR BYPAS-1 COR ART |
| 3511 | OPN AORTIC VALVULOPLASTY | 3612 | AORTOCOR BYPAS-2 COR ART |
| 3512 | OPN MITRAL VALVULOPLASTY | 3613 | AORTOCOR BYPAS-3 COR ART |
| 3513 | OPN PULMON VALVULOPLASTY | 3614 | AORTCOR BYPAS-4+ COR ART |
| 3514 | OPN TRICUS VALVULOPLASTY | 3615 | 1 INT MAM-COR ART BYPASS |
| 3520 | REPLACE HEART VALVE NOS | 3616 | 2 INT MAM-COR ART BYPASS |
| 3521 | REPLACE AORT VALV-TISSUE | 3617 | ABD-CORON ART BYPASS OCT96- |
| 3522 | REPLACE AORTIC VALVE NEC | 3619 | HRT REVAS BYPS ANAS NEC |
| 3523 | REPLACE MITR VALV-TISSUE | 362 | ARTERIAL IMPLANT REVASC |
| 3524 | REPLACE MITRAL VALVE NEC | 363 | OTH HEART REVASCULAR |
| 3525 | REPLACE PULM VALV-TISSUE | 3631 | OPEN CHEST TRANS REVASC |
| 3526 | REPLACE PULMON VALVE NEC | 3632 | OTH TRANSMYO REVASCULAR |
| 3527 | REPLACE TRIC VALV-TISSUE | 3633 | ENDO TRANSMYO REVASCULAR OCT06- |
| 3528 | REPLACE TRICUSP VALV NEC | 3634 | PERC TRANSMYO REVASCULAR OCT06- |
| 3531 | PAPILLARY MUSCLE OPS | 3639 | OTH HEART REVASULAR |
| 3532 | CHORDAE TENDINEAE OPS | 3691 | CORON VESS ANEURYSM REP |
| 3533 | ANNULOPLASTY | 3699 | HEART VESSLE OP NEC |
| 3534 | INFUNDIBULECTOMY | 3731 | PERICARDIECTOMY |
| 3535 | TRABECUL CARNEAE CORD OP | 3732 | HEART ANEURYSM EXCISION |
| 3539 | TISS ADJ TO VALV OPS NEC | 3733 | EXC/DEST HRT LESION OPEN |
| 3541 | ENLARGE EXISTING SEP DEF | 3734 | EXC/DEST HRT LES OTHER |
| 3542 | CREATE SEPTAL DEFECT | 3735 | PARTIAL VENTRICULECTOMY |
| 3550 | PROSTH REP HRT SEPTA NOS | 3736 | EXCISION OR DESTRUCTION OF LEFT ATRIAL APPENDAGE (LAA) OCT08- |
| 3551 | PROS REP ATRIAL DEF-OPN | 3741 | IMPLANT PROSTH CARD SUPPORT DEV OCT06 |
| 3552 | PROS REPAIR ATRIA DEF-CL | 375 | HEART TRANSPLANTATION (NOT VALID AFTER OCT 03) |
| 3553 | PROST REPAIR VENTRIC DEF | 3751 | HEART TRANPLANTATION OCT03- |
| 3554 | PROS REP ENDOCAR CUSHION | 3752 | IMPLANT TOT REP HRT SYS OCT03- |
| 3555 | PROS REP VENTRC DEF-CLOS OCT06- | 3753 | REPL/REP THORAC UNIT HRT OCT03- |
| 3560 | GRFT REPAIR HRT SEPT NOS | 3754 | REPL/REP OTH TOT HRT SYS OCT03- |
| 3561 | GRAFT REPAIR ATRIAL DEF | 3755 | REMOVAL OF INTERNAL BIVENTRICULAR HEART REPLACEMENT SYSTEM OCT08- |
| 3562 | GRAFT REPAIR VENTRIC DEF | 3760 | IMPLANTATION OR INSERTION OF BIVENTRICULAR EXTERNAL HEART ASSIST SYSTEM OCT08- |
| 3563 | GRFT REP ENDOCAR CUSHION | 3761 | IMPLANT OF PULSATION BALLOON |
| 3570 | HEART SEPTA REPAIR NOS | 3762 | INSERTION OF NON-IMPLANTABLE HEART ASSIST SYSTEM |
| 3571 | ATRIA SEPTA DEF REP NEC | 3763 | REPAIR OF HEART ASSIST SYSTEM |
| 3572 | VENTR SEPTA DEF REP NEC | 3764 | REMOVAL OF HEART ASSIST SYSTEM |
| 3573 | ENDOCAR CUSHION REP NEC | 3765 | IMPLANT OF EXTERNAL HEART ASSIST SYSTEM |
| 3581 | TOT REPAIR TETRAL FALLOT | 3766 | INSERTION OF IMPLANTABLE HEART ASSIST SYSTEM |
| 3582 | TOTAL REPAIR OF TAPVC | 3770 | INT INSERT PACEMAK LEAD |
| 3583 | TOT REP TRUNCUS ARTERIOS | 3771 | INT INSERT LEAD IN VENT |
| 3584 | TOT COR TRANSPOS GRT VES | 3772 | INT INSERT LEAD ATRI-VENT |
| 3591 | INTERAT VEN RETRN TRANSP | 3773 | INT INSER LEAD IN ATRIUM |
| 3592 | CONDUIT RT VENT-PUL ART | 3774 | INT OR REPL LEAD EPICAR |
| 3593 | CONDUIT LEFT VENTR-AORTA | | |
| 3594 | CONDUIT ARTIUM-PULM ART | | |
| 3595 | HEART REPAIR REVISION | | |
| 3596 | PERC HEART VALVULOPLASTY | | |

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|------|---------------------------|------|--------------------------|
| 3775 | REVISION OF LEAD | 3785 | REPL PACEM W 1-CHAM, NON |
| 3776 | REPL TV ATRI-VENT LEAD | 3786 | REPL PACEM 1-CHAM, RATE |
| 3777 | REMOVAL OF LEAD W/O REPL | 3787 | REPL PACEM W DUAL-CHAM |
| 3778 | INSERT TEAM PACEMAKER SYS | 3789 | REVISE OR REMOVE PACEMAK |
| 3779 | REVIS OR RELOCATE POCKET | 3794 | IMPLT/REPL CARDDEFIB TOT |
| 3780 | INT OR REPL PERM PACEMKR | 3795 | IMPLT CARDIODEFIB LEADS |
| 3781 | INT INSERT 1-CHAM, NON | 3796 | IMPLT CARDIODEFIB GENATR |
| 3782 | INT INSERT 1-CHAM, RATE | 3797 | REPL CARDIODEFIB LEADS |
| 3783 | INT INSERT DUAL-CHAM DEV | 3798 | REPL CARDIODEFIB GENRATR |

Denominator

Population in Metro Area¹ or county, age 18 years and older.

¹ The term "metropolitan area" (MA) was adopted by the U.S. Census in 1990 and referred collectively to metropolitan statistical areas (MSAs), consolidated metropolitan statistical areas (CMSAs) and primary metropolitan statistical areas (PMSAs). In addition, "area" could refer to either 1) FIPS county, 2) modified FIPS county, 3) 1999 OMB Metropolitan Statistical Area or 3) 2003 OMB Metropolitan Statistical Area. Micropolitan Statistical Areas are not used in the QI software.