



Patient Safety Indicator 02 (PSI 02) Death Rate in Low-Mortality Diagnosis Related Groups (DRGs)

June 2017

Provider-Level Indicator

Type of Score: Rate

Prepared by:

Agency for Healthcare Research and Quality

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DESCRIPTION

In-hospital deaths per 1,000 discharges for low mortality (< 0.5%) Diagnosis Related Groups (DRGs) among patients ages 18 years and older or obstetric patients. Excludes cases with trauma, cases with cancer, cases with an immunocompromised state, and transfers to an acute care facility.

[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 in-hospital deaths per 1,000 hospital discharges.]

NUMERATOR

Number of deaths (DISP=20) among cases meeting the inclusion and exclusion rules for the denominator.

DENOMINATOR

Discharges, for patients ages 18 years and older or MDC 14 (pregnancy, childbirth, and puerperium), with a low-mortality (less than 0.5% mortality) MS-DRG code. If an MS-DRG is divided into “without/with (major) complications and comorbidities,” both codes without complications/comorbidities and codes with (major) complications/comorbidities must have mortality rates below 0.5% in the reference population to qualify for inclusion.

Low-mortality (less than 0.5%) MS-DRG codes: (LOWMODR)

006	Carpal tunnel release	324	Urinary stones wo cc
021	Viral meningitis	334	Major male pelvic procedures w cc
036	Retinal procedures	335	Major male pelvic procedures wo cc
037	Orbital procedures	336	Transurethral prostatectomy w cc
039	Lens procedures with or without vitrectomy	337	Transurethral prostatectomy wo cc
040	Extraocular procedures except orbit age >17	339	Testes procedures, non-malignancy age >17
042	Intraocular procedures except retina, iris & lens	341	Penis procedures
043	Hyphema	342	Circumcision age >17
044	Acute major eye infections	350	Inflammation of the male reproductive system
045	Neurological eye disorders	353	Pelvic evisceration, radical hysterectomy & radical vulv
049	Major head & neck procedures	356	Female reproductive system reconstructive procedures
050	Sialoadenectomy	358	Uterine & adnexa proc for non-malignancy w cc
051	Salivary gland procedures except sialoadenectomy	359	Uterine & adnexa proc for non-malignancy wo cc
052	Cleft lip & palate repair	360	Vagina, cervix & vulva procedures
053	Sinus & mastoid procedures age >17	361	Laparoscopy & incisional tubal interruption
055	Miscellaneous ear, nose, mouth & throat procedures	362	Endoscopic tubal interruption
056	Rhinoplasty	364	D&c, conization except for malignancy
057	T&a proc, except tonsillectomy &/or adenoidectomy only,	369	Menstrual & other female reproductive system disorders
059	Tonsillectomy &/or adenoidectomy only, age >17	370	Cesarean section w cc
063	Other ear, nose, mouth & throat o.r. procedures	371	Cesarean section wo cc

065	Dysequilibrium	372	Vaginal delivery w complicating diagnoses
067	Epiglottitis	373	Vaginal delivery wo complicating diagnoses
068	Otitis media & uri age >17 w cc	374	Vaginal delivery w sterilization &/or d&c
069	Otitis media & uri age >17 wo cc	375	Vaginal delivery w o.r. proc except steril &/or d&c
072	Nasal trauma & deformity	376	Postpartum & post abortion diagnoses wo o.r. procedure
096	Bronchitis & asthma age >17 w cc	377	Postpartum & post abortion diagnoses w o.r. procedure
097	Bronchitis & asthma age >17 wo cc	378	Ectopic pregnancy
118	Cardiac pacemaker device replacement	379	Threatened abortion
125	Circulatory disorders except ami, w card cath wo complex	380	Abortion wo d&c
134	Hypertension	381	Abortion w d&c, aspiration curettage or hysterotomy
140	Angina pectoris	382	False labor
141	Syncope & collapse w cc	383	Other antepartum diagnoses w medical complications
142	Syncope & collapse wo cc	384	Other antepartum diagnoses wo medical complications
143	Chest pain	421	Viral illness age >17
166	Appendectomy wo complicated principal diag w cc	425	Acute adjustment reaction & psychosocial dysfunction
167	Appendectomy wo complicated principal diag wo cc	426	Depressive neuroses
177	Uncomplicated peptic ulcer w cc	427	Neuroses except depressive
178	Uncomplicated peptic ulcer wo cc	428	Disorders of personality & impulse control
179	Inflammatory bowel disease	430	Psychoses
187	Dental extractions & restorations	431	Childhood mental disorders
223	Major shoulder/elbow proc, or other upper extremity proc	432	Other mental disorder diagnoses
224	Shoulder,elbow or forearm proc,exc major joint proc, wo	433	Alcohol/drug abuse or dependence, left ama
225	Foot procedures	434	Alc/drug abuse or depend, detox or oth sympt treat w cc
228	Major thumb or joint proc,or oth hand or wrist proc w cc	435	Alc/drug abuse or depend, detox or oth sympt treat wo cc
229	Hand or wrist proc, except major joint proc, wo cc	436	Alc/drug dependence w rehabilitation therapy (no longer

231	Local excision & removal of int fix devices except hip &	437	Alc/drug dependence, combined rehab & detox therapy (no
232	Arthroscopy	439	Skin grafts for injuries
237	Sprains, strains, & dislocations of hip, pelvis & thigh	441	Hand procedures for injuries
244	Bone diseases & specific arthropathies w cc	447	Allergic reactions age >17
245	Bone diseases & specific arthropathies wo cc	471	Bilateral or multiple major joint procs of lower extremi
246	Non-specific arthropathies	491	Major joint & limb reattachment procedures of upper extr
247	Signs & symptoms of musculoskeletal system & conn tissue	496	Combined anterior/posterior spinal fusion
257	Total mastectomy for malignancy w cc	497	Spinal fusion except cervical w cc
258	Total mastectomy for malignancy wo cc	498	Spinal fusion except cervical wo cc
261	Breast proc for non-malignancy except biopsy & local exc	499	Back & neck procedures except spinal fusion w cc
262	Breast biopsy & local excision for non-malignancy	500	Back & neck procedures except spinal fusion wo cc
267	Perianal & pilonidal procedures	503	Knee procedures wo pdx of infection
268	Skin, subcutaneous tissue & breast plastic procedures	517	Perc cardio proc w non-drug eluting stent wo ami
276	Non-maligant breast disorders	518	Perc cardio proc wo coronary artery stent or ami
288	O.r. procedures for obesity	521	Alcohol/drug abuse or dependence w cc
289	Parathyroid procedures	522	Alc/drug abuse or depend w rehabilitation therapy wo cc
290	Thyroid procedures	523	Alc/drug abuse or depend wo rehabilitation therapy wo cc
291	Thyroglossal procedures	524	Transient ischemia
295	Diabetes age 0-35	527	Percutaneous cardiovascular proc w drug eluting stent wo a
323	Urinary stones w cc, &/or esw lithotripsy	536	Cardiac defib implant w cardiac cath wo ami/hf/shock

DENOMINATOR EXCLUSIONS

Exclude cases:

- with any-listed ICD-9-CM diagnosis codes for trauma
- with any-listed ICD-9-CM diagnosis codes for cancer
- with any-listed ICD-9-CM diagnosis codes or any-listed ICD-9-CM procedure codes for immunocompromised state
- transfer to an acute care facility (DISP=2)
- with missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing), or principal diagnosis (DX1=missing)

[*Appendix G - Trauma Diagnosis Codes*](#)

[*Appendix H - Cancer Diagnosis Codes*](#)

[*Appendix I - Immunocompromised State Diagnosis and Procedure Codes*](#)