

Hip Replacement Mortality Rate Technical Specifications

Inpatient Quality Indicators #14 (IQI #14)

AHRQ Quality Indicator™, Version 4.5, May 2013

Provider-Level Indicator

Type of Score: Rate

Description

In-hospital deaths per 1,000 pelvic and thigh osteoarthritis discharges with partial or full hip replacement, ages 18 years and older. Excludes hip fracture discharges, obstetric discharges, and transfers to another hospital.

[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, with any-listed ICD-9-CM procedure codes for a partial or full hip replacement and any-listed ICD-9-CM diagnosis codes for osteoarthritis for pelvic region and thigh (or site unspecified or multiple sites) .

ICD-9-CM Partial or full hip replacement procedure codes:

8151	TOTAL HIP REPLACEMENT	0071	REV HIP REPL-ACETAB COMP
8152	PARTIAL HIP REPLACEMENT	0072	REV HIP REPL-FEM COMP
8153	REVISE HIP REPLACEMENT NOS	0073	REV HIP REPL-LINER/HEAD
0070	REV HIP REPL-ACETAB/FEM		

ICD-9-CM Osteoarthritis for pelvic region and thigh (or site unspecified or multiple sites) diagnosis codes:

71500	GENL OSTEOARTHROSIS NOS ¹	71538	LOC OSTEOAR NOS-SITE NEC
71509	GENL OSTEOARTHROSIS MULT ¹	71580	OSTEOARTHROSIS-MULT SITE
71510	LOC PRIM OSTEOART-UNSPEC	71589	OSTEOARTHROSIS-MULT SITE
71515	LOC PRIM OSTEOART-PELVIS	71590	OSTEOARTHROS NOS-UNSPEC
71518	LOC PRIM OSTEOARTHROS NEC	71595	OSTEOARTHROS NOS-PELVIS
71520	LOC 2ND OSTEOARTH-UNSPEC	71598	OSTEOARTHROS NOS-OTH SITE
71525	LOC 2ND OSTEOARTH-PELVIS	71650	POLYARTHRITIS NOS-UNSPEC
71528	LOC 2ND OSTEOARTHROS NEC	71655	POLYARTHRITIS NOS-PELVIS
71530	LOC OSTEOARTHROS NOS-UNSPEC	71658	POLYARTHRITIS NOS-OTH SITE
71535	LOC OSTEOARTHROS NOS-PELVIS	71659	POLYARTHRITIS NOS-MULT

**AHRQ QI™ Version 4.5, Inpatient Quality Indicators #14, Technical Specifications,
Hip Replacement Mortality Rate
www.qualityindicators.ahrq.gov**

71660	MONOARTHRTIS NOS-UNSPEC	71695	ARTHROPATHY NOS-PELVIS
71665	MONOARTHRTIS NOS-PELVIS	71698	ARTHROPATHY NOS-OTH SITE
71668	MONOARTHRTIS NOS-OTH SITE	71699	ARTHROPATHY NOS-MULT
71690	ARTHROPATHY NOS-UNSPEC		

¹ 'NOS' and 'MULT' were added to distinguish 71500 and 71509, given their short description is otherwise the same.

Exclude cases:

- with any-listed ICD-9-CM diagnosis codes for hip fracture
- transferring to another short-term hospital (DISP=2)
- MDC 14 (pregnancy, childbirth, and puerperium)
- with missing discharge disposition (DISP=missing), gender (SEX=missing), age (AGE=missing), quarter (DQTR=missing), year (YEAR=missing) or principal diagnosis (DX1=missing)

ICD-9-CM Hip fracture diagnosis codes:

82000	FX FEMUR INTRCAPS NOS-CL	82019	FX FEMUR INTRCAP NEC-OPN
82001	FX UP FEMUR EPIPHY-CLOS	82020	TROCHANTERIC FX NOS-CLOS
82002	FX FEMUR, MIDCERVIC-CLOS	82021	INTERTROCHANTERIC FX-CL
82003	FX BASE FEMORAL NCK-CLOS	82022	SUBTROCHANTERIC FX-CLOSE
82009	FX FEMUR INTRCAPS NEC-CL	82030	TROCHANTERIC FX NOS-OPEN
82010	FX FEMUR INTRCAP NOS-OPN	82031	INTERTROCHANTERIC FX-OPN
82011	FX UP FEMUR EPIPHY-OPEN	82032	SUBTROCHANTERIC FX-OPEN
82012	FX FEMUR, MIDCERVIC-OPEN	8208	FX NECK OF FEMUR NOS-CL
82013	FX BASE FEMORAL NCK-OPEN	8209	FX NECK OF FEMUR NOS-OPN