

# Hip Replacement Mortality Rate

## Inpatient Quality Indicators #14

### Technical Specifications

#### Provider-Level Indicator

#### Procedure Mortality Indicator

#### AHRQ Quality Indicator, Version 4.4, March 2012

### Numerator

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

### Denominator

All discharges, age 18 years and older, with a partial or full hip replacement procedure code.

#### ICD-9-CM 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		

Include only discharges with uncomplicated cases: code for osteoarthritis of pelvic region and thigh (or site unspecified or multiple sites) in any diagnosis field.

#### ICD-9-CM Osteoarthritis diagnosis codes:

71500	GENL OSTEOARTHRISIS NOS <sup>1</sup>	71690	ARTHROPATHY NOS-UNSPEC
71509	GENL OSTEOARTHRISIS MULT	71695	ARTHROPATHY NOS-PELVIS
71510	LOC PRIM OSTEOART-UNSPEC	71698	ARTHROPATHY NOS-OTH SITE
71515	LOC PRIM OSTEOART-PELVIS	71699	ARTHROPATHY NOS-MULT
71518	LOC PRIM OSTEOARTH NEC		
71520	LOC 2ND OSTEOARTH-UNSPEC		
71525	LOC 2ND OSTEOARTH-PELVIS		
71528	LOC 2ND OSTEOARTHROS NEC		
71530	LOC OSTEOARTH NOS-UNSPEC		
71535	LOC OSTEOARTH NOS-PELVIS		
71538	LOC OSTEOAR NOS-SITE NEC		
71580	OSTEOARTHROSIS-MULT SITE		
71589	OSTEOARTHROSIS-MULT SITE		
71590	OSTEOARTHROS NOS-UNSPEC		
71595	OSTEOARTHROS NOS-PELVIS		
71598	OSTEOARTHRO NOS-OTH SITE		
71650	POLYARTHRITIS NOS-UNSPEC		
71655	POLYARTHRITIS NOS-PELVIS		
71658	POLYARTHRIT NOS-OTH SITE		
71659	POLYARTHRITIS NOS-MULT		
71660	MONOARTHRITIS NOS-UNSPEC		
71665	MONOARTHRITIS NOS-PELVIS		
71668	MONOARTHRIT NOS-OTH SITE		

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<sup>1</sup> Please note that 'NOS' and 'MULT' were added to distinguish 71500 and 71509, given their short description is otherwise the same.

Exclude cases:

- with any diagnosis of 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