

Fig. E-1  
Mean length of hospital stay for primary and revision total hip arthroplasty (THA).

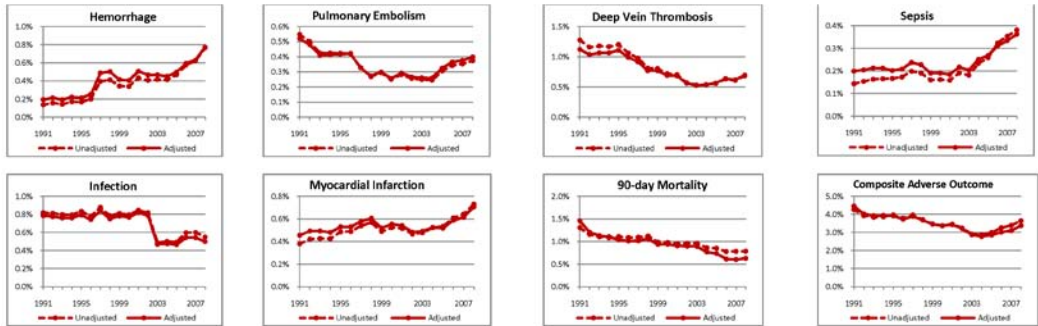


Fig. E-2  
Rates of adverse outcomes occurring in the hospital or within ninety days after primary total hip arthroplasty, adjusted for patient demographics, comorbidities, and hospital clustering.

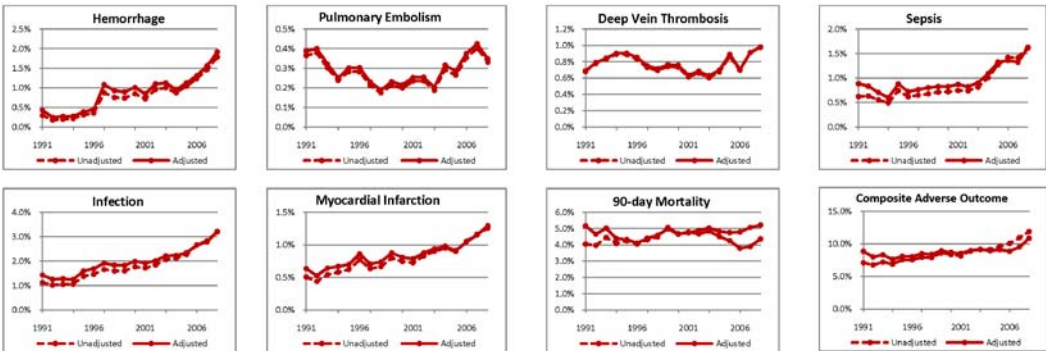


Fig. E-3  
Rates of adverse outcomes occurring in the hospital or within ninety days after revision total hip arthroplasty, adjusted for patient demographics, comorbidities, and hospital clustering.

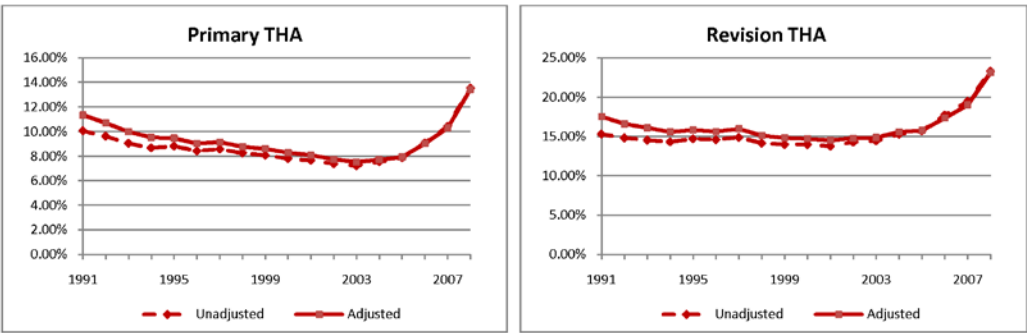


Fig. E-4  
Readmission rate within ninety days after primary and revision total hip arthroplasty (THA), adjusted for patient demographics, comorbidities, and hospital clustering.

**Appendix 1. ICD-9-CM Diagnostic and Procedure Codes Used for Identifying Outcomes***Pulmonary Embolism*

- 4151 Pulmonary embolism and infarction
- 41511 Iatrogenic pulmonary embolism and infarction
- 41519 Other

*Deep Vein Thrombosis*

- 45111 Phlebitis and thrombophlebitis of femoral vein
- 45119 Phlebitis and thrombophlebitis of other deep vessel of lower extremities
- 45181 Phlebitis and thrombophlebitis of iliac vein
- 4512 Phlebitis and thrombophlebitis of lower extremities, unspecified
- 4519 Phlebitis and thrombophlebitis of unspecified site
- 4531 Thrombophlebitis migrans
- 4532 Embolism and thrombosis of vena cava
- 4538 Embolism and thrombosis of other specified veins
- 4539 Embolism and thrombosis of unspecified site
- 45340 Venous embolism and thrombosis of unspecified deep vessels of lower extremity
- 45341 Venous embolism and thrombosis of deep vessels of proximal lower extremity
- 45342 Venous embolism and thrombosis of deep vessels of distal lower extremity

*Hemorrhage*

- 99811 Hemorrhage complicating a procedure
- 99812 Hematoma complicating a procedure
- 3880 Other surgical occlusion of vessels (unspecified site)
- 3881 Other surgical occlusion of vessels – intracranial
- 3882 Other surgical occlusion of other vessels of head and neck
- 3883 Other surgical occlusion of upper limb vessels
- 3884 Other surgical occlusion of abdominal aorta
- 3885 Other surgical occlusion of other thoracic vessel
- 3888 Other surgical occlusion of lower limb arteries
- 3889 Other surgical occlusion of lower limb veins
- 3998 Control of hemorrhage, not otherwise specified
- 8604 Other incision w/drainage of skin and subcutaneous tissue

*Sepsis*

- 0380 Streptococcal septicemia
- 0831 Staphylococcal septicemia
- 03810 Staphylococcal septicemia, unspecified
- 03811 Staphylococcus aureus septicemia

03819 Other staphylococcal septicemia  
0382 Pneumococcal septicemia (Streptococcus pneumonia septicemia)  
0383 Septicemia due to anaerobes  
03840 Septicemia due to gram-negative organism, unspecified  
03841 Septicemia due to Hemophilus influenzae  
03842 Septicemia due to Escherichia coli  
03843 Septicemia due to Pseudomonas  
03844 Septicemia due to Serratia  
03849 Septicemia due to other gram-negative organism  
0388 Other specified septicemia  
0389 Unspecified septicemia  
99591 Systemic inflammatory response syndrome due to infectious process without organ dysfunction  
99592 Systemic inflammatory response syndrome due to infectious process with organ dysfunction

#### *Infection*

71100 Pyogenic arthritis, site unspecified  
71105 Pyogenic arthritis, pelvic region and thigh  
71103 Pyogenic arthritis, lower leg  
71160 Arthropathy associated with mycoses, site unspecified  
71165 Arthropathy associated with mycoses, pelvis and thigh  
71166 Arthropathy associated with mycoses, lower leg  
71190 Unspecified infective arthritis, site unspecified  
71195 Unspecified infective arthritis, pelvis and thigh  
71196 Unspecified infective arthritis, lower leg  
73000 Acute osteomyelitis, site unspecified  
73005 Acute osteomyelitis, pelvic region and thigh  
73006 Acute osteomyelitis, lower leg  
73010 Chronic osteomyelitis, site unspecified  
73015 Chronic osteomyelitis, pelvic region and thigh  
73016 Chronic osteomyelitis, lower leg  
73020 Unspecified osteomyelitis, site unspecified  
73025 Unspecified osteomyelitis, pelvic region and thigh  
73026 Unspecified osteomyelitis, lower leg  
73090 Unspecified infection of bone, site unspecified  
73095 Unspecified infection of bone, pelvic region and thigh  
73096 Unspecified infection of bone, lower leg  
99660 Infection and inflammatory reaction due to unspecified device/implant/graft  
99666 Infection and inflammatory reaction due to internal joint prosthesis

99667 Infection and inflammatory reaction due to other internal orthopedic device/implant/graft

7300 Acute osteomyelitis

7301 Chronic osteomyelitis

*Myocardial Infarction*

410 Acute myocardial infarction

412 Old myocardial infarction