

Appendix E1: List of All Database Studies in JBJS from January 2012 to October 2014

State or Regional Registries

California

Lee J, Bhatia NN, Hoang BH, Ziogas A, Zell JA. Analysis of prognostic factors for patients with chordoma with use of the California Cancer Registry. *J Bone Joint Surg Am*. 2012 Feb 15;94(4):356-63.

National Clinical Registries

Kaiser Permanente

1. Bini S, Khatod M, Cafri G, Chen Y, Paxton EW. Surgeon, implant, and patient variables may explain variability in early revision rates reported for unicompartmental arthroplasty. *J Bone Joint Surg Am*. 2013 Dec 18;95(24):2195-202.
2. Namba RS, Inacio MC, Paxton EW. Risk factors associated with deep surgical site infections after primary total knee arthroplasty: an analysis of 56,216 knees. *J Bone Joint Surg Am*. 2013 May 1;95(9):775-82.
3. Adams AL, Paxton EW, Wang JQ, Johnson ES, Bayliss EA, Ferrara A, Nakasato C, Bini SA, Namba RS. Surgical outcomes of total knee replacement according to diabetes status and glycemic control, 2001 to 2009. *J Bone Joint Surg Am*. 2013 Mar 20;95(6):481-7.
4. Namba RS, Inacio MC, Paxton EW, Ake CF, Wang C, Gross TP, Marinac-Dabic D, Sedrakyan A. Risk of revision for fixed versus mobile-bearing primary total knee replacements. *J Bone Joint Surg Am*. 2012 Nov 7;94(21):1929-35.
5. Yian EH, Contreras R, Sodl JF. Effects of glycemic control on prevalence of diabetic frozen shoulder. *J Bone Joint Surg Am*. 2012 May 16;94(10):919-23.
6. Maletis GB, Inacio MC, Reynolds S, Funahashi TT. Incidence of symptomatic venous thromboembolism after elective knee arthroscopy. *J Bone Joint Surg Am*. 2012 Apr 18;94(8):714-20.

ACS NSQIP

1. Kester BS, Merkow RP, Ju MH, Peabody TD, Bentrem DJ, Ko CY, Bilimoria KY. Effect of post-discharge venous thromboembolism on hospital quality comparisons following hip and knee arthroplasty. *J Bone Joint Surg Am*. 2014 Sep 3;96(17):1476-84.
2. Duchman KR, Gao Y, Pugely AJ, Martin CT, Callaghan JJ. Differences in short-term complications between unicompartmental and total knee arthroplasty: a propensity score matched analysis. *J Bone Joint Surg Am*. 2014 Aug 20;96(16):1387-94.
3. Martin CT, Pugely AJ, Gao Y, Mendoza-Lattes S. Thirty-day morbidity after single-level anterior cervical discectomy and fusion: identification of risk factors and emphasis on the safety of outpatient procedures. *J Bone Joint Surg Am*. 2014 Aug 6;96(15):1288-94. Epub 2014 Aug 6.
4. Edelstein AI, Lovecchio FC, Saha S, Hsu WK, Kim JY. Impact of Resident Involvement on Orthopaedic Surgery Outcomes: An Analysis of 30,628 Patients from the American College of Surgeons National Surgical Quality Improvement Program Database. *J Bone Joint Surg Am*. 2014 Aug 6;96(15):e131. Epub 2014 Aug 6.
5. Mednick RE, Alvi HM, Krishnan V, Lovecchio F, Manning DW. Factors affecting readmission rates following primary total hip arthroplasty. *J Bone Joint Surg Am*. 2014 Jul 16;96(14):1201-9. Epub 2014 Jul 16.
6. Belmont PJ Jr, Goodman GP, Waterman BR, Bader JO, Schoenfeld AJ. Thirty-day postoperative complications and mortality following total knee arthroplasty: incidence and risk factors among a national sample of 15,321 patients. *J Bone Joint Surg Am*. 2014 Jan 1;96(1):20-6.
7. Martin CT, Pugely AJ, Gao Y, Wolf BR. Risk factors for thirty-day morbidity and mortality following knee arthroscopy: a review of 12,271 patients from the national surgical quality improvement program database. *J Bone Joint Surg Am*. 2013 Jul 17;95(14):e98: 1-10.
8. Pugely AJ, Martin CT, Gao Y, Mendoza-Lattes S, Callaghan JJ. Differences in short-term complications between spinal and general anesthesia for primary total knee arthroplasty. *J Bone Joint Surg Am*. 2013 Feb 6;95(3):193-9.

VASQIP

1. Ponce B, Raines BT, Reed RD, Vick C, Richman J, Hawn M. Surgical site infection after arthroplasty: comparative effectiveness of prophylactic antibiotics: Do Surgical Care Improvement Project guidelines need to be updated? *J Bone Joint Surg Am*. 2014 Jun 18;96(12):970-7. Epub 2014 Jun 18.
2. Radcliff TA, Regan E, Cowper Ripley DC, Hutt E. Increased use of intramedullary nails for intertrochanteric proximal femoral fractures in Veterans Affairs hospitals: a comparative effectiveness study. *J Bone Joint Surg Am*. 2012 May 2;94(9):833-40.

Certification Databases

ABOS

1. Miller BJ, Callaghan JJ, Cram P, Karam M, Marsh JL, Noiseux NO. Changing trends in the treatment of femoral neck fractures: a review of the American Board of Orthopaedic Surgery database. *J Bone Joint Surg Am*. 2014 Sep 3;96(17):e149.

2. Mauro CS, Jordan SS, Irrgang JJ, Harner CD. Practice patterns for subacromial decompression and rotator cuff repair: an analysis of the American Board of Orthopaedic Surgery database. *J Bone Joint Surg Am.* 2012 Aug 15;94(16):1492-9.
3. Colvin AC, Harrast J, Harner C. Trends in hip arthroscopy. *J Bone Joint Surg Am.* 2012 Feb 15;94(4):e23.
4. James MA, Seiler JG 3rd, Harrast JJ, Emery SE, Hurwitz S. The occurrence of wrong-site surgery self-reported by candidates for certification by the American Board of Orthopaedic Surgery. *J Bone Joint Surg Am.* 2012 Jan 4;94(1):e2: 1-12).

International Registry

(Canada – Ontario Health Insurance Plan)

1. Leroux T, Wasserstein D, Henry P, Khoshbin A, Dwyer T, Ogilvie-Harris D, Mahomed N, Veillette C. Rate of and risk factors for reoperations after open reduction and internal fixation of midshaft clavicle fractures: a population-based study in Ontario, Canada. *J Bone Joint Surg Am.* 2014 Jul 2;96(13):1119-25. Epub 2014 Jul 2.
2. Wasserstein D, Henry P, Paterson JM, Kreder HJ, Jenkinson R. Risk of total knee arthroplasty after operatively treated tibial plateau fracture: a matched-population-based cohort study. *J Bone Joint Surg Am.* 2014 Jan 15;96(2):144-50.
3. Leroux T, Ogilvie-Harris D, Dwyer T, Chahal J, Gandhi R, Mahomed N, Wasserstein D. The risk of knee arthroplasty following cruciate ligament reconstruction: a population-based matched cohort study. *J Bone Joint Surg Am.* 2014 Jan 1;96(1):2-10.

(Japan)

4. Ogura K, Yasunaga H, Horiguchi H, Ohe K, Shinoda Y, Tanaka S, Kawano H. Impact of hospital volume on postoperative complications and in-hospital mortality after musculoskeletal tumor surgery: analysis of a national administrative database. *J Bone Joint Surg Am.* 2013 Sep 18;95(18):1684-91.
5. Chikuda H, Yasunaga H, Horiguchi H, Takeshita K, Kawaguchi H, Matsuda S, Nakamura K. Mortality and morbidity in dialysis-dependent patients undergoing spinal surgery: analysis of a national administrative database in Japan [Sweden]. *J Bone Joint Surg Am.* 2012 Mar 7;94(5):433-8.

(Sweden)

6. Gudnason A, Hailer NP, W-Dahl A, Sundberg M, Robertsson O. All-polyethylene versus metal-backed tibial components—an analysis of 27,733 cruciate-retaining total knee replacements from the Swedish Knee Arthroplasty Register. *J Bone Joint Surg Am.* 2014 Jun 18;96(12):994-9. Epub 2014 Jun 18.
7. Leonardsson O, Rolfson O, Hommel A, Garellick G, Åkesson K, Rogmark C. Patient-reported outcome after displaced femoral neck fracture: a national survey of 4467 patients. *J Bone Joint Surg Am.* 2013 Sep 18;95(18):1693-9.
8. Badawy M, Espehaug B, Indrekvam K, Engesæter LB, Havelin LI, Furnes O. Influence of hospital volume on revision rate after total knee arthroplasty with cement. *J Bone Joint Surg Am.* 2013 Sep 18;95(18):e131.

(England, National Health Service)

9. Baker P, Jameson S, Crichtley R, Reed M, Gregg P, Deehan D. Center and surgeon volume influence the revision rate following unicompartmental knee replacement: an analysis of 23,400 medial cemented unicompartmental knee replacements. *J Bone Joint Surg Am.* 2013 Apr 17;95(8):702-9.
10. Baker PN, Petheram T, Avery PJ, Gregg PJ, Deehan DJ. Revision for unexplained pain following unicompartmental and total knee replacement. *J Bone Joint Surg Am.* 2012 Sep 5;94(17):e126.

(Scotland)

11. Jameson SS, Rymaszewska M, Hui AC, James P, Serrano-Pedraza I, Muller SD. Wound complications following rivaroxaban administration: a multicenter comparison with low-molecular-weight heparins for thromboprophylaxis in lower limb arthroplasty [Scotland]. *J Bone Joint Surg Am.* 2012 Sep 5;94(17):1554-8.

(Finland)

12. Holt G, Smith R, Duncan K, Hutchison JD, Gregori A, Reid D. Outcome after sequential hip fracture in the elderly [Finland]. *J Bone Joint Surg Am.* 2012 Oct 3;94(19):1801-8.
13. Haddad FS. Primary metal-on-metal hip arthroplasty was not associated with increased cancer risk. *J Bone Joint Surg Am.* 2013 Feb 20;95(4):364.
14. Jämsen E, Nevalainen P, Eskelinen A, Huotari K, Kalliovalkama J, Moilanen T. Obesity, diabetes, and preoperative hyperglycemia as predictors of periprosthetic joint infection: a single-center analysis of 7181 primary hip and knee replacements for osteoarthritis. *J Bone Joint Surg Am.* 2012 Jul 18;94(14):e101.

(Netherlands)

15. de Putter CE, Selles RW, Polinder S, Panneman MJM, Hovius SER, van Beeck EF. Economic impact of hand and wrist injuries: health-care costs and productivity costs in a population-based study. *J Bone Joint Surg Am.* 2012 May 2;94(9):e56.

(New Zealand)

16. Hooper GJ, Rothwell AG, Hooper NM, Frampton C. The relationship between the American Society of Anesthesiologists physical rating and outcome following total hip and knee arthroplasty: an analysis of the New Zealand Joint Registry. *J Bone Joint Surg Am.* 2012 Jun 20;94(12):1065-70.

Other Databases

National Electronic Injury Surveillance System (NEISS)

Stoneback JW, Owens BD, Sykes J, Athwal GS, Pointer L, Wolf JM. Incidence of elbow dislocations in the United States population. *J Bone Joint Surg Am.* 2012 Feb 1;94(3):240-5.

National Survey of Ambulatory Surgery (NSAS)

Colvin AC, Egorova N, Harrison AK, Moskowitz A, Flatow EL. National trends in rotator cuff repair. *J Bone Joint Surg Am.* 2012 Feb 1;94(3):227-33.

Surveillance, Epidemiology, and End Results (SEER)

Miller BJ, Cram P, Lynch CF, Buckwalter JA. Risk factors for metastatic disease at presentation with osteosarcoma: an analysis of the SEER database. *J Bone Joint Surg Am.* 2013 Jul 3;95(13):e89.

The Journal staff compiled the following list of articles that are potentially similar to the present study. This search identifies papers in Editorial Manager that were accepted or in process, as well as articles published in orthopaedic or related journals that are indexed in PubMed and Google Scholar. The list below identifies studies published within the past five years and includes the name of the database(s) and keywords (identified in the article title and abstract) as search criteria.

JBJS Editorial Manager Results

None.

PubMed Results

Huffman KM, Cohen ME, Ko CY, Hall BL. A comprehensive evaluation of statistical reliability in ACS NSQIP profiling models. *Ann Surg.* 2014 Sep 10. Epub 2014 Sep 10.

Google Scholar Results

Neuman HB, Michelassi F, Turner JW, Bass BL. Surrounded by quality metrics: what do surgeons think of ACS-NSQIP? *Surgery.* 2009 Jan;145(1):27-33. Epub 2008 Sep 19.

Ramachandran SK, Kheterpal S. Outcomes research using quality improvement databases: evolving opportunities and challenges. *Anesthesiol Clin.* 2011 Mar;29(1):71-81. Epub 2010 Dec 18. ■