



Exponent[®]
Engineering & Scientific Consulting

Kevin L. Ong, Ph.D., P.E.

Principal Engineer | Biomedical Engineering & Sciences
3440 Market Street, Suite 600 | Philadelphia, PA 19104
(215) 594-8874 tel | kong@exponent.com

Professional Profile

Dr. Ong's expertise is product design evaluation and failure analysis of medical devices, surgical instruments, and medical equipment, with a focus on evaluating how patient, surgical/clinical, and device/design factors influence clinical performance. He has experience with orthopaedic, spine, fracture fixation, cardiovascular, and tissue reconstruction/tissue repair medical devices from product liability, intellectual property, regulatory/FDA compliance, product development, epidemiology, health economics, and technology assessment perspectives. He has directed preclinical and postmarket testing of bone/tissue to characterize biomaterials and medical devices, including wear testing and retrieval/explant analysis. He is also actively involved in health economics and outcomes research. Dr. Ong has been involved in biomechanics and biomedical engineering research since 1997.

Dr. Ong also has expertise in nonlinear finite element analysis, solid mechanics, and orthopaedic biomechanics. He has designed experiments for standard tests (e.g., ASTM, ISO), as well as developed non-standard or novel testing protocols. He has also evaluated the interaction between medical devices and injury tolerances/patterns. Dr. Ong has melded his product development interests with clinical outcomes and health services research, specifically using real world data (national healthcare databases and hospital records) to develop real world evidence for examining utilization, outcomes, risk factors, economic burden, cost effectiveness, comparative effectiveness, and health care technology assessment.

Dr. Ong is a registered professional engineer. Prior to joining Exponent, Dr. Ong was a research assistant in the Department of Mechanical and Aerospace Engineering at Cornell University, in the Cornell University-Hospital for Special Surgery Program in Biomedical Mechanics.

Academic Credentials & Professional Honors

Ph.D., Mechanical Engineering, Cornell University, 2004

B.S., Mechanical Engineering, Cornell University, summa cum laude, 1998

Best Paper for the Section on Rehabilitation, Interventional & Medical Spine at NASS 33rd Annual Meeting, Awarded by the North American Spine Society, 2018

Best Poster for Primary Hip Award at AAHKS 27th Annual Meeting, Awarded by the American Association of Hip and Knee Surgeons, 2017

Best Basic Science Abstract Award at IUGA 41st Annual Meeting, Awarded by the International Urogynecological Association, 2016

Best Poster for Infection Award at AAHKS 25th Annual Meeting, Awarded by the American Association of

Hip and Knee Surgeons, 2015

Lawrence D. Dorr, MD Award for the most outstanding paper in surgical techniques and technologies at AAHKS 19th Annual Meeting, Awarded by the American Association of Hip and Knee Surgeons, 2009

2nd Prize research paper at the British Orthopaedic Association Annual Congress 2008, Awarded by the British Orthopaedic Research Society and the British Orthopaedic Trainees Association, 2008

Lawrence D. Dorr, MD Award for the most outstanding paper in surgical techniques and technologies at AAHKS 18th Annual Meeting, Awarded by the American Association of Hip and Knee Surgeons, 2008

Best Poster Award at AAHKS 17th Annual Meeting, Awarded by the American Association of Hip and Knee Surgeons, 2007

Cornell University Mechanical & Aerospace Engineering Outstanding Teaching Assistant Award, 2002

Olin Fellowship, Cornell University, 1998-2001

Merrill Presidential Scholar, Cornell University, 1998

Licenses and Certifications

Licensed Professional Engineer, Pennsylvania, #PE077597

Licensed Professional Engineer, New York, #092807

Licensed Professional Engineer, Georgia, #PE039767

Licensed Professional Engineer, Michigan, #6201065563

Professional Affiliations

Orthopaedic Research Society

American Society for Testing and Materials

Publications

Kurtz SM, Mont MA, Chen AF, Della Valle C, Sodhi N, Lau E, Ong KL. Intra-articular corticosteroid or hyaluronic acid injections are not associated with periprosthetic joint infection risk following total knee arthroplasty. *J Knee Surg* 2021; Jan 3 [Epub ahead of print].

Heckmann ND, Yang J, Ong KL, Lau EC, Fuller BC, Bohl DD, Della Valle CJ. Revision surgery for instability following total hip arthroplasty: Does timing matter? *J Arthroplasty* 2021; 36(5): 1779-1783.

Malanga G, Niazi F, Deon Kidd V, Lau E, Kurtz SM, Ong KL, Concoff AL. Knee osteoarthritis treatment costs in the Medicare patient population. *American Health & Drug Benefits* 2020; 13(4): 144-153.

Niazi F, Ong KL, Kidd VD, Lau E, Kurtz SM, Dysart SH, Malanga G. Decrease in opioid and intra-articular corticosteroid burden after intra-articular hyaluronic acid for knee osteoarthritis treatment. *Pain Management* 2020; 10(6): 387-397.

Goyal N, Bohl DD, Ong KL, Lau E, Nicholson GP, Wysocki RW. Reoperation risk after total elbow arthroplasty versus open reduction internal fixation for distal humerus fractures in elderly patients. *J*

Orthop Trauma 2020; 34(9): 503-509.

Ong KL, Niazi F, Lau E, Mont MA, Concoff A, Shaw P, Kurtz SM. Knee OA cost comparison for hyaluronic acid and knee arthroplasty. J Orthop Surg Res 2020; 15(1): 305.

Baker JF, Dilworth B, Bhimani SJ, Ong KL, Lau EC, Smith LS, Malkani AL. Risk of reinfection after irrigation and debridement of acute periprosthetic joint infection following TKA. J Knee Surg 2020; 33(7): 623-628.

Ong KL, Richards JA, Lau EC, Malkani AL. Corrosion concerns? Trends in metal-on-polyethylene total hip arthroplasty revision rates and comparisons against ceramic-on-polyethylene up to 10 years of follow-up. J Arthroplasty 2020; 35(10): 2919-29205.

Ong KL, Runa M, Xiao Z, Ngai W, Lau E, Altman R. Severe acute localized reactions following intra-articular hyaluronic acid injections in knee osteoarthritis. Cartilage 2020; Feb 17 [Epub ahead of print].

Van Bosse HJP, Gantz MG, Ong KL, Cox JB. Comparison of hip and knee arthroplasty rates of individuals with and without Prader-Willi Syndrome. J Pediatr Orthop 2020; 40(5): e362-e366.

Malkani JA, Heimroth JC, Ong KL, Wilson H, Price M, Piuizzi NS, Mont MA. Complications and readmission incidence following total hip arthroplasty in patients who have end-stage renal failure. J Arthroplasty 2020; 35(3): 794-800.

Thames SF, Blanton MD, Williams EB, White JB, Stoner KE, Ong KL. Implantation time has no effect on the morphology and extent of previously reported "degradation" of Prolene pelvic mesh. Female Pelvic Medicine & Reconstructive Surgery 2020; 26(2): 128-136.

Hirsch JA, Chandra RV, Carter NS, Beall D, Frohbergh M, Ong K. Numbers needed to treat with vertebral augmentation to save a life. American Journal of Neuroradiology 2020; 41(1): 178-182.

Ong K, Lau E, Runa M, Daley W, Altman R. Factors associated with knee arthroplasty in a knee osteoarthritis patient cohort treated with intra-articular injections of Hylan G-F 20. Journal of Knee Surgery 2019; Dec 24 [Epub ahead of print]

Smith A, Denehy K, Ong KL, Lau E, Hagan D, Malkani A. Total hip arthroplasty following failed intertrochanteric hip fracture fixation treated with a cephalomedullary nail. Bone Joint J. 2019; 101-B(6_Supple_B): 91-96.

Hutchinson HL, Jaekel DJ, Lovald ST, Watson HN, Ong KL. Multimodal pain management of femoral neck fractures treated with hemiarthroplasty. J Surg Orthop Adv 2019; 28(1):58-62.

Hansen EN, Ong KL, Lau E, Kurtz SM, Lonner JH. Unicondylar knee arthroplasty has fewer complications but higher revision rates than total knee arthroplasty in a study of large United States databases. J Arthroplasty. 2019; 34(8): 1617-1625.

Martinez-Gutierrez JC, Leslie-Mazwi T, Chandra RV, Ong KL, Nogueira RG, Goyal M, Albuquerque FC, Hirsch JA. Number needed to treat: A primer for neurointerventionalists. Interv Neuroradiol. 2019; 25(6):613-618.

Ong KL, Runa M, Lau E, Altman R. Is intra-articular injection of Synvisc associated with a delay of knee arthroplasty in patients with knee osteoarthritis? Cartilage 2019; 10(4):423-431.

Ong KL, Runa M, Lau E, Altman RD. Cost-of-illness of knee osteoarthritis: potential cost savings by not undergoing arthroplasty within the first 2 years. Clinicoecon Outcomes Res. 2019; 11:245-255.

Clerk-Lamallice O, Beall DP, Ong K, Lorio MP. ISASS policy 2018-vertebral augmentation: Coverage indications, limitations, and/or medical necessity. *Int J Spine Surg* 2019; 13(1): 1-10.

Bohl DD, Nolte MT, Ong K, Lau E, Calkins TE, Della Valle CJ. Computer-assisted navigation is associated with reductions in the rates of dislocation and acetabular component revision following primary total hip arthroplasty. *J Bone Joint Surg Am* 2019; 101(3): 250-256.

Malkani AL, Himschoot KJ, Ong KL, Lau EC, Baykal D, Dimar JR, Glassman SD, Berry DJ. Does timing of primary total hip arthroplasty prior to or after lumbar spine fusion have an effect on dislocation and revision rates? *J Arthroplasty* 2019; 34(5): 907-911.

Hansen EN, Ong KL, Lau E, Kurtz SM, Lonner JH. Unicondylar knee arthroplasty in the U.S. patient population: prevalence and epidemiology. *Am J Orthop* 2018; 47(12).

Courtney PM, Bohl DD, Lau EC, Ong KL, Jacobs JJ, Della Valle CJ. Risk adjustment is necessary in Medicare bundled payment models for total hip and knee arthroplasty. *J Arthroplasty* 2018; 33(8): 2368-2375.

Ong KL, Stoner KE, Yun BM, Lau E, Edidin A. Baseline and postfusion opioid burden for low back pain patients. *American Journal of Managed Care* 2018; 24(8): e234-e240.

Beall D, Lorio MP, Yun BM, Runa MJ, Ong KL, Warner CB. Review of vertebral augmentation: an updated meta-analysis of the effectiveness. *International Journal of Spine Surgery* 2018; 12(3): 295-321.

Ong KL, Beall DP, Frohbergh M, Lau E, Hirsch JA. Reply to "At what price decreased mortality risk?" *Osteoporosis International* 2018; 29(8): 1929-1930.

Ong K, Chang E. The need for standardization, terminology, and interfacing retrieval analysis with registries. *ASTM STP1606: Beyond the Implant: Retrieval Analysis Methods for Implant Surveillance*. Mihalko W, Lemons J, Greenwald A, Kurtz S (eds), 2018.

Lee GC, Ong K, Baykal D, Lau E, Malkani AL. Does prior bariatric surgery affect implant survivorship and complications following primary total hip arthroplasty/total knee arthroplasty? *J Arthroplasty* 2018; 33(7): 2070-2074.

Gonzales J, Lovald ST, Lau EC, Ong KL. Risk of opioid-related adverse events after primary and revision total knee arthroplasty. *Journal of Surgical Orthopaedic Advances* 2018; 27(2): 148-154.

Ong KL, Beall DP, Frohbergh M, Lau E, Hirsch JA. Were VCF patients at higher risk of mortality following the 2009 publication of the vertebroplasty "sham" trials? *Osteoporosis International* 2018; 29(2): 375-383.

Malkani AL, Garber AT, Ong KL, Dimar JR, Baykal D, Glassman SD, Cochran AR, Berry DJ. Total hip arthroplasty in patients with previous lumbar fusion surgery: are there more dislocations and revisions? *J Arthroplasty* 2018; 33(4): 1189-1193.

Carreon LY, Ong KL, Lau E, Kurtz SM, Glassman SD. Risk of osteoporotic fracture after steroid injections in patients with Medicare. *Am J Orthop* 2017; 46(5): E293-E300.

Kurtz SM, Lau EC, Ong KL, Adler EM, Kolisek FR, Manley MT. Has health care reform legislation reduced the economic burden of hospital readmissions following primary total joint arthroplasty? *J Arthroplasty* 2017; 32(11): 3274-3285.

Schmier JK, Ong KL, Fonarow GC. Cost-effectiveness of remote cardiac monitoring with the CardioMEMS heart failure system. *Clin Cardiol* 2017; 40(7): 430-436.

Radcliff K, Ong KL, Lovald S, Lau E, Kurd M. Cervical spine surgery complications and risks in the elderly. *Spine* 2017; 42(6): E347-E354.

Badarudeen S, Shu AC, Ong KL, Baykal D, Lau E, Malkani AL. Complications after revision total hip arthroplasty in the Medicare population. *J Arthroplasty* 2017; 32(6): 1954-1958.

Kurtz SM, Lau EC, Ong KL, Adler EM, Kolisek FR, Manley MT. Which clinical and patient factors influence the national economic burden of hospital readmissions after total joint arthroplasty? *Clin Orthop Relat Res* 2017; 475(12): 2926-2937.

Malkani AL, Dilworth B, Ong K, Baykal D, Lau E, Mackin TN, Lee GC. High risk of readmission in octogenarians undergoing primary hip arthroplasty. *Clin Orthop Relat Res* 2017; 475(12): 2878-2888.

Thames SF, White JB, Ong KL. Reply to "In vivo polypropylene mesh degradation is hardly a myth". *Int Urogynecol J* 2017; 28(2): 337-338.

Ong KL, Anderson AF, Niazi F, Fierlinger AL, Kurtz SM, Altman RD. Response to Letter to the Editor on "Hyaluronic acid injections in Medicare knee osteoarthritis patients are associated with longer time to knee arthroplasty". *J Arthroplasty* 2017; 32(2): 697-698.

Thames SF, White JB, Ong KL. The myth: in vivo degradation of polypropylene-based meshes. *Int Urogynecol J* 2016; 28(2): 285-297.

Gonzales J, Lovald ST, Lau EC, Ong KL. Quantifying the risk of analgesic-related adverse events after knee arthroscopy. *J Surg Orthop Adv* 2016; 25(4): 215-221.

Barrington JW, Lovald ST, Ong KL, Watson HN, Emerson RH Jr. Postoperative pain after primary total knee arthroplasty: comparison of local injection analgesic cocktails and the role of demographic and surgical factors. *J Arthroplasty* 2016; 31(9 Suppl): 288-292.

Kurtz SM, Lau EC, Ong KL, Adler EM, Kolisek FR, Manley MT. Which hospital and clinical factors drive 30- and 90-day readmission after TKA? *J Arthroplasty* 2016; 31(10): 2099-2107.

Kurtz SM, Lau EC, Ong KL, Adler EM, Kolisek FR, Manley MT. Hospital, patient, and clinical factors influence 30- and 90-day readmission after primary total hip arthroplasty? *J Arthroplasty* 2016; 31(10): 2130-2138.

Barrington JW, Lovald ST, Ong KL, Watson HN, Emerson RH Jr. How do demographic, surgical, patient, and cultural factors affect pain control after unicompartmental knee arthroplasty? A multivariate regression analysis. *J Arthroplasty* 2016; 31(9 Suppl): 97-101.

Cochran AR, Ong KL, Lau E, Mont MA, Malkani AL. Risk of reinfection after treatment of infected total knee arthroplasty. *J Arthroplasty* 2016; 31(9 Suppl): 156-161.

Ong KL, Anderson AF, Niazi F, Fierlinger AL, Kurtz SM, Altman RD. Hyaluronic acid injections in Medicare knee osteoarthritis patients are associated with longer time to knee arthroplasty. *J Arthroplasty* 2016; 31(8): 1667-1673.

Emerson RH Jr, Barrington JW, Olugbode O, Lovald S, Watson H, Ong K. Femoral nerve block versus long-acting wound infiltration in total knee arthroplasty. *Orthopedics* 2016; 39(3):e449-455.

Kurtz SM, Lau E, Ong KL, Katz JN, Bozic KJ. Universal health insurance coverage in Massachusetts did not change the trajectory of arthroplasty use or costs. *Clin Orthop Relat Res* 2016; 474(5): 1090-1098.

Koenig KM, Ong KL, Lau EC, Vail TP, Berry DJ, Rubash HE, Kurtz S, Bozic KJ. The use of hyaluronic

acid and corticosteroid injections among Medicare patients with knee osteoarthritis. *J Arthroplasty* 2016; 31(2):351-355.

Koenig KM, Ong KL, Lau EC, Vail TP, Berry DJ, Rubash HE, Kurtz S, Bozic KJ. The use of hyaluronic acid and corticosteroid injections among Medicare patients with knee osteoarthritis. *J Arthroplasty* 2016; 31(2): 351-355.

Bozic KJ, Ong K, Kurtz S, Lau E, Vail TP, Rubash H, Berry D. Short-term risk of revision THA in the Medicare population has not improved with time. *Clin Orthop Relat Res* 2016; 474(1):156-163.

Emerson RH, Barrington JW, Olugbode O, Lovald S, Watson H, Ong K. Comparison of Local Infiltration Analgesia to Bupivacaine Wound Infiltration as Part of a Multimodal Pain Program in Total Hip Replacement. *J Surg Orthop Adv* 2015 Winter; 24(4):235-41.

Pugely AJ, Martin CT, Harwood J, Ong KL, Bozic KJ, Callaghan JJ. Database and registry research in orthopaedic surgery: Part 2: Clinical registry data. *J Bone Joint Surg Am* 2015; 97(21): 1799-1808.

Ong KL. Can't catch a break: try using anti-osteoporotic therapy: commentary on an article by Harpreet S. Bawa, MD, et al.: " Anti-osteoporotic therapy after fragility fracture lowers rate of subsequent fracture: analysis of a large population sample." *J Bone Joint Surg Am* 2015; 97(19):e65.

Barrington JW, Olugbode O, Lovald S, Ong K, Watson H, Emerson RH Jr. Liposomal bupivacaine: a comparative study of more than 1000 total joint arthroplasty cases. *Orthop Clin North Am* 2015; 46(4):469-477.

Henzman C, Ong K, Lau E, Seligson D, Roberts CS, Malkani AL. Complication risk after treatment of intertrochanteric hip fractures in the Medicare population. *Orthopedics* 2015; 38(9):e799-805.

Ong KL, Yun BM, White JB. New biomaterials for orthopedic implants. *Orthopedic Research and Reviews* 2015; 7:107-130.

Pugely AJ, Martin CT, Harwood J, Ong KL, Bozic KJ, Callaghan JJ. Database and registry research in orthopaedic surgery: Part 1: Claims-based data. *J Bone Joint Surg Am* 2015; 97(15): 1278-1287.

Lovald ST, Ong KL, Lau EC, Joshi GP, Kurtz SM, Malkani AL. Readmission and complications for catheter and injection femoral nerve block administration after total knee arthroplasty in the Medicare population. *J Arthroplasty* 2015; 30(12):2076-81.

Lovald ST, Ong KL, Lau EC, Joshi GP, Kurtz SM, Malkani AL. Patient selection in short stay total hip arthroplasty for Medicare patients. *J Arthroplasty* 2015; 30(12):2086-91.

Eddin AA, Ong KL, Lau E, Kurtz SM. Morbidity and mortality after vertebral fractures: comparison of vertebral augmentation and non-operative management in the Medicare population. *Spine* 2015; 40(15):1228-1241.

Kamath AF, Ong KL, Lau E, Chan V, Vail TP, Rubash HE, Berry DJ, Bozic KJ. Quantifying the burden of revision total joint arthroplasty for periprosthetic infection. *J Arthroplasty* 2015; 30(9): 1492-1497.

Goel A, Lau EC, Ong KL, Berry DJ, Malkani AL. Dislocation rates following primary total hip arthroplasty have plateaued in the Medicare population. *J Arthroplasty* 2015; 30(5): 743-746.

Ong KL, Lotke PA, Lau E, Manley MT, Kurtz SM. Prevalence and costs of rehabilitation and physical therapy after primary TJA. *J Arthroplasty* 2015; 30(7): 1121-1126.

Bozic KJ, Kamath AF, Ong K, Lau E, Kurtz S, Chan V, Vail TP, Rubash H, Berry DJ. Comparative

epidemiology of revision arthroplasty: Failed THA poses greater clinical and economic burdens than failed TKA. *Clin Orthop Relat Res* 2015; 473(6):2131-2138.

MacKinlay K, Falls T, Lau E, Day J, Kurtz S, Ong K, Malkani A. Decreasing incidence of femoral neck fractures in the Medicare population. *Orthopedics* 2014 Oct; 37(10):e917-924.

Farner S, Malkani A, Lau E, Day J, Ochoa J, Ong K. Outcomes and cost of care for patients with distal radius fractures. *Orthopedics* 2014 Oct; 37(10):e866-878.

Ong KL, Auerbach JD, Lau E, Schmier J, Ochoa JA. Perioperative outcomes, complications, and costs associated with lumbar spinal fusion in older patients with spinal stenosis and spondylolisthesis. *Neurosurg Focus* 2014; 36(6): E5.

Kurtz SM, Ong KL, Lau E, Bozic KJ. Impact of the economic downturn on total joint replacement demand in the United States: updated projections to 2021. *J Bone Joint Surg Am* 2014; 96(8):624-630.

Lovald S, Ong K, Lau E, Joshi G, Kurtz S, Malkani A. Patient selection in outpatient and short-stay total knee arthroplasty. *J Surg Orthop Adv.* 2014 Spring; 23(1):2-8.

Schmier JK, Halevi M, Maislin G, Ong K. Comparative cost effectiveness of Coflex® interlaminar stabilization versus instrumented posterolateral lumbar fusion for the treatment of lumbar spinal stenosis and spondylolisthesis. *Clinicoecon Outcomes Res.* 2014; 6:125-131.

Lovald ST, Ong KL, Malkani AL, Lau EC, Schmier JK, Kurtz SM, Manley MT. Complications, mortality, and costs for outpatient and short-stay total knee arthroplasty patients in comparison to standard-stay patients. *J Arthroplasty* 2014; 29(3):510-515.

Sanders AP, Tibbitts IB, Kakarla D, Siskey S, Ochoa JA, Ong KL, Brannon RM. Contact-coupled impact of slender rods: Analysis and experimental validation. *Experimental Mechanics* 2014; 54:187-198.

Bozic KJ, Lau E, Ong K, Chan V, Kurtz S, Vail TP, Rubash HE, Berry DJ. Risk factors for early revision after primary total hip arthroplasty in Medicare patients. *Clin Orthop Relat Res* 2014; 472(2):449-454.

Bozic KJ, Lau E, Ong K, Chan V, Kurtz S, Vail TP, Rubash HE, Berry DJ. Risk factors for early revision after primary TKA in Medicare patients. *Clin Orthop Relat Res* 2014; 472(1):232-237.

Lovald ST, Ong KL, Lau EC, Schmier JK, Bozic KJ, Kurtz SM. Mortality, cost, and downstream disease of total hip arthroplasty patients in the Medicare population. *J Arthroplasty* 2014; 29(1):242-246.

Edidin AA, Kurtz SM, Ong KL. Treatment of osteoporotic vertebral fractures. *JAMA Intern Med* 2014; 174(4):642.

Hayes PJ, Carroll CM, Roberts CS, Seligson D, Lau E, Kurtz S, Ong K, Malkani AL. Operative treatment of acetabular fractures in the Medicare population. *Orthopedics* 2013; 36(8):1065-1070.

Ong KL, Lau E, Kurtz SM. Risk of complications, revision and cancer for metal-on-metal patients in the Medicare population. *ASTM STP1560: Metal-On-Metal Total Hip Replacement Devices.* Kurtz SM, Greenwald AS, Mihalko WM, Lemons JE (eds), 2013.

Kurtz SM, Ong KL, Lau E, Greenwald AS, Bozic K. Prevalence of metal-on-metal bearings in the United States. *ASTM STP1560: Metal-On-Metal Total Hip Replacement Devices.* Kurtz SM, Greenwald AS, Mihalko WM, Lemons JE (eds), 2013.

Edidin AA, Ong KL, Lau E, Kurtz SM. Life expectancy following diagnosis of a vertebral compression fracture. *Osteoporosis Int* 2013; 24(2):451-458.

Bozic KJ, Ong K, Lau E, Berry DJ, Vail TP, Kurtz SM, Rubash HE. Estimating risk in Medicare patients with THA: An electronic risk calculator for periprosthetic joint infection and mortality. *Clin Orthop Relat Res* 2013; 471(2):574-583.

Lovald ST, Ong KL, Lau EC, Schmier JK, Bozic KJ, Kurtz SM. Mortality, cost, and health outcomes of total knee arthroplasty in Medicare patients. *J Arthroplasty* 2013; 28(3):449-454.

Ong KL, Lau E, Kemner JE, Kurtz SM. Two-year cost comparison of vertebroplasty and kyphoplasty for the treatment of vertebral compression fractures: Are initial surgical costs misleading? *Osteoporosis Int* 2013; 24(4):1437-1445.

Ong KL, Manley MT, Nevelos J, Greene K. Review: Biomechanical issues in total hip replacement. *Surgical Technology International* 2012; 22:222-228.

Bozic KJ, Lau EC, Ong KL, Vail TP, Rubash HE, Berry DJ. Comparative effectiveness of metal-on-metal and metal-on-polyethylene bearings in Medicare total hip arthroplasty patients. *J Arthroplasty* 2012; 27(8 Suppl):37-40.

Kurtz SM, Lau E, Ong KL, Carreon L, Watson H, Albert T, Glassman S. Infection risk for primary and revision instrumented lumbar spine fusion in the Medicare population. *J Neurosurg Spine* 2012; 17(4):342-347.

Edidin AA, Ong KL, Lau E, Schmier JK, Kemner JE, Kurtz SM. Cost-effectiveness analysis of treatments for vertebral compression fractures. *Applied Health Economics and Health Policy* 2012; 10(4):273-284.

Bozic KJ, Lau E, Kurtz S, Ong K, Rubash H, Vail TP, Berry DJ. Patient-related risk factors for periprosthetic joint infection and postoperative mortality following total hip arthroplasty in Medicare patients. *J Bone Joint Surg Am* 2012; 94(9):794-800.

Curtin B, Malkani A, Lau E, Kurtz S, Ong K. Revision after total knee arthroplasty and unicompartmental knee arthroplasty in the Medicare population. *Journal of Arthroplasty* 2012; 27(8):1480-1486.

Bozic KJ, Lau E, Kurtz S, Ong K, Berry DJ. Patient-related risk factors for postoperative mortality and periprosthetic joint infection in Medicare patients undergoing TKA. *Clin Orthop Relat Res* 2012; 470(1):130-137.

Kurtz SM, Ong KL, Lau E, Widmer M, Maravic M, Gómez-Barrena E, de Fátima de Pina M, Manno V, Torre M, Walter WL, de Steiger R, Geesink RG, Peltola M, Röder C. International survey of primary and revision total knee replacement. *Int Orthop* 2011; 35(12):1783-1789.

Edidin AA, Ong KL, Lau E, Kurtz SM. Mortality risk for operated and nonoperated vertebral fracture patients in the Medicare population. *J Bone Miner Res* 2011; 26(7):1617-1626.

Johanson NA, Kleinbart FA, Cerynik DL, Brey JM, Ong KL, Kurtz SM. Temporal relationship between knee arthroscopy and arthroplasty. A quality measure for joint care? *J Arthroplasty* 2011; 26(2):187-191.

Markel D, Day J, Siskey R, Liepins I, Kurtz S, Ong K. Deformation of metal-backed acetabular components and the impact of liner thickness in a cadaveric model. *Int Orthop* 2011; 35(8):1131-1137.

Ong KL, Villarraga ML, Lau E, Carreon LY, Kurtz SM, Glassman SD. Off-label use of BMP in the U.S. using administrative data. *Spine* 2010; 35(19):1794-1800.

Day JS, Lau E, Ong KL, Williams GR, Ramsey ML, Kurtz SM. Prevalence and projections of total shoulder and elbow arthroplasty in the United States to 2015. *J Shoulder Elbow Surg* 2010; 19(8):1115-

1120.

Malkani AL, Ong KL, Lau E, Kurtz SM, Justice BJ, Manley MT. Early- and late- term dislocation risk after primary hip arthroplasty in the Medicare population. *J Arthroplasty* 2010; 25(6 Suppl):21-25.

Ong KL, Lau E, Suggs J, Kurtz SM, Manley MT. Risk of subsequent revision after primary and revision total joint arthroplasty. *Clin Orthop Relat Res* 2010; 468(11):3070-3076.

Bozic KJ, Ong K, Lau E, Kurtz SM, Vail TP, Rubash HE, Berry DJ. Risk of complication and revision total hip arthroplasty among Medicare patients with different bearing surfaces. *Clin Orthop Relat Res* 2010; 468(9):2357-2362.

Heller MF, Prange MT, Ong KL, Watson HN, Iyer M, Ivarsson BJ, Fisher JL. Effects of special population considerations on injury patterns in pedestrian crashes. Society of Automotive Engineers 2010 World Congress, SAE 2010-01-1165.

Kurtz SM, Ong KL, Lau E, Bozic KJ, Berry D, Parvizi J. Prosthetic joint infection risk after TKA in the Medicare population. *Clin Orthop Relat Res* 2010; 468(1):52-56.

Ong KL, Lau E, Moore T, Heller MF. Accidental falls involving medical implant re-operation. *Injury* 2009; 40 (10):1088-1092.

Bozic KJ, Kurtz SM, Lau E, Ong K, Chiu V, Vail TP, Rubash HE, Berry DJ. The epidemiology of revision total knee arthroplasty in the United States. *Clin Orthop Relat Res* 2010; 468(1):45-51.

Ong KL, Kurtz SM, Lau E, Bozic KJ, Berry D, Parvizi J. Prosthetic joint infection risk following total hip arthroplasty in the Medicare population. *J Arthroplasty* 2009; 24(6 Suppl 1):105-109.

Ong KL, Rundell S, Liepins I, Laurent R, Markel D, Kurtz S. Biomechanical modeling of acetabular component polyethylene stresses, fracture risk, and wear rate during press-fit implantation. *J Orthopaedic Research* 2009; 27(11):1467-1472.

Bozic KJ, Kurtz S, Lau E, Ong K, Chiu V, Vail TP, Rubash HE, Berry DJ. The epidemiology of total hip arthroplasty bearing surface usage in the United States. *J Bone Joint Surg Am* 2009; 91(7):1614-1620.

Kurtz SM, Lau E, Ong K, Zhao K, Kelly M, Bozic KJ. Future young patient demand for primary and revision joint replacement: National projections from 2010 to 2030. *Clin Orthop Relat Res* 2009; 467(10):2606-2612.

Moore T, Fisher J, Heller M, Lau E, Watson H, Ong K. Occupant injury in motor vehicle collisions: Using data from medical databases. Society of Automotive Engineers 2009 World Congress, SAE 2009-01-0394.

Manley M, Ong K, Lau E, Kurtz SM. Total knee arthroplasty survivorship in the United States Medicare population: Effect of hospital and surgeon procedure volume. *J Arthroplasty* 2009; 24(7):1061-1067.

Bozic KJ, Kurtz SM, Lau E, Ong K, Vail TP, Berry DJ. The epidemiology of revision total hip arthroplasty in the United States. *J Bone Joint Surg Am* 2009; 91(1):128-133.

Ong KL, Day JS, Manley MT, Kurtz SM, Geesink R. Biomechanical comparison of 2 proximally coated femoral stems: Effects of stem length and surface finish. *J Arthroplasty* 2009; 24(5):819-824.

Ong KL, Day JS, Kurtz SM, Field FE, Manley MT. Role of surgical position on interface stress and initial bone remodeling stimulus around hip resurfacing arthroplasty. *J Arthroplasty* 2009; 24(7):1137-1142.

Ong K, Lau E, Manley M, Kurtz SM. Patient, hospital, and procedure characteristics influencing total hip and knee arthroplasty procedure duration. *J Arthroplasty* 2009; 24(6):925-931.

Ong K, Kurtz S. The use of modelling to predict implant behaviour. *Med Device Technol* 2008; 19(5):64-66.

Manley M, Ong K, Lau E, Kurtz SM. Effect of volume on total hip arthroplasty revision rates in the United States Medicare population. *J Bone Joint Surg Am* 2008; 90(11):2446-2251.

Ong KL, Manley MT, Kurtz SM. Have contemporary hip resurfacing designs reached maturity? A review. *J Bone Joint Surg Am* 2008; 90(Suppl 3):81-88.

Lau E, Ong K, Kurtz SM, Schmier J, Edidin A. Mortality following the diagnosis of a vertebral compression fracture in the Medicare population. *J Bone Joint Surg Am* 2008; 90(7):1479-1486.

Ong KL, Lau E, Manley M, Kurtz SM. Effect of procedure duration on total hip arthroplasty and total knee arthroplasty survivorship in the United States Medicare population. *J Arthroplasty* 2008; 23(6 Suppl 1):127-132.

Ong K, Santner T, Bartel DL. Robust design for acetabular cup stability accounting for patient and surgical variability. *J Biomechanical Engineering* 2008; 130(3):031001.

Kurtz SM, Ong K, Schmier J, Zhao K, Mowat F, Lau E. Primary and revision arthroplasty surgery caseloads in the United States from 1990 to 2004. *J Arthroplasty* 2009; 24(2):195-203.

Kurtz SM, Lau E, Schmier J, Ong KL, Zhao K, Parvizi J. Infection burden for hip and knee arthroplasty in the United States. *J Arthroplasty* 2008; 23(7):984-991.

Kurtz SM, Ong KL, Schmier J, Mowat F, Saleh K, Dybvik E, Karrholm J, Garellick G, Havelin LI, Furnes O, Malchau H, Lau E. Future clinical and economic impact of revision total hip and knee arthroplasty. *J Bone Joint Surg Am* 2007; 89(Suppl 3):144-151.

Kurtz S, Ong K, Lau E, Mowat F, Halpern M. Projections of primary and revision hip and knee arthroplasty in the United States from 2005 to 2030. *J Bone Joint Surg Am* 2007; 89(4):780-785.

Kobayashi N, Ong K, Villarraga M, Schwardt J, Wenz R, Togawa D, Fujishiro T, Turner AS, Seim III H, Bauer TW. Histological and mechanical evaluation of self-setting calcium phosphate cements in a sheep vertebral bone void model. *J Biomed Mater Res (Part A)* 2007; 81(4):838-846.

Manley MT, Ong KL, Kurtz SM. The potential for bone loss in acetabular structures following THA. *Clin Orthop Relat Res* 2006; 453:246-253.

Kurtz SM, Lau E, Halpern MT, Ong KL. Statistical trend shows growing orthopedic surgery case load. Will surgeons be able to keep up? *Mater Manag Health Care* 2006; 15(7):61-62.

Ong KL, Kurtz SM, Manley MT, Rushton N, Mohammed NA, Field RE. Biomechanics of the Birmingham hip resurfacing arthroplasty. *J Bone Joint Surg Br* 2006; 88(8):1110-1115.

Ong KL, Mowat FS, Chan N, Lau E, Halpern MT, Kurtz SM. Economic burden of revision hip and knee arthroplasty in Medicare enrollees. *Clin Orthop Relat Res* 2006; 446:22-28.

Ong K, Lehman J, Notz WI, Santner TJ, Bartel DL. Acetabular cup geometry and bone-implant interference have more influence on initial periprosthetic joint space than joint loading and surgical cup insertion. *J Biomech Eng* 2006; 128(2):169-175.

Mazzucco D, Bowden A, Ong K. Examining failure causation in retrieved medical devices. *Med Dev Diagn Ind* 2006; 28(1):110-115.

Kurtz S, Mowat F, Ong K, Chan N, Lau E, Halpern M. Prevalence of primary and revision total hip and knee arthroplasty in the United States from 1990 through 2002. *J Bone Joint Surg Am* 2005; 87(7):1487-1497.

Ong K. Stability of uncemented acetabular components: Design, patient-dependent, and surgical effects and complications due to trapped interfacial fluid. Dissertation, Cornell University, 2004.

Book

Ong KL, Lovald S, Black J. *Orthopaedic biomaterials in research and practice*, second edition. CRC Press, Taylor & Francis Group, Boca Raton, FL, 2014.

Book Chapters

Ong KL, Baykal D, Lau E, Kurtz SM. Current and projected utilization of total joint replacements. In: *Comprehensive Biomaterials II*, vol. 7, pp. 1-11. Ducheyne P, Grainger DW, Healy KE, Hutmacher DW, and Kirkpatrick CJ (eds.), Elsevier Ltd., Oxford, UK, 2017.

Kurtz SM, Ong K. Contemporary total hip arthroplasty: Alternative bearings. In: *UHMWPE Biomaterials Handbook: Ultra-High Molecular Weight Polyethylene in Total Joint Replacements and Medical Devices*, Third Edition. Kurtz SM (ed), Elsevier Inc., Waltham, MA, 2016.

Villarraga ML, Butchko HH, Ong K. Understanding, anticipating, and preventing medical device recalls. In: *Bringing your medical device to market - Third edition*. Reiss JB (ed), Food and Drug Law Institute, Washington, D.C., 2013.

Jaekel DJ, Ong KL, Lau EC, Kurtz SM. The epidemiology of total joint arthroplasty infections. In: *Infected total joint arthroplasty - the algorithmic approach*. Trebše R (ed), Springer-Verlag, London, England, 2012.

Manley MT, Kurtz SM, Ong KL. Special topic: Stress shielding and osteolysis. In: *Fundamentals of revision hip arthroplasty: Diagnosis, evaluation, and treatment*. Jacofsky DJ and Hedley AK (eds), Slack, Inc., Thorofare, NJ, 2012.

Manley MT, Kurtz SM, Ong KL. Special topic: Stress shielding and osteolysis. In: *Fundamentals of revision knee arthroplasty: Diagnosis, evaluation, and treatment*. Jacofsky DJ and Hedley AK (eds), Slack, Inc., Thorofare, NJ, 2012.

Kurtz SM, Day J, Ong K. Isoelastic Polyaryletheretherketone (PEEK) Implants for Total Joint Replacement. In: *The PEEK Biomaterials Handbook*. Kurtz SM (ed), Elsevier Inc., Waltham, MA, 2012.

Kurtz SM, Ong KL, Lau E, Manley MT. Current and projected utilization of total joint replacements. In: *Comprehensive Biomaterials*, Vol. 6, pp. 1-9. Ducheyne P (ed), Elsevier Inc., Waltham, MA, 2011.

Kurtz SM, Ong K. Contemporary total hip arthroplasty: Hard-on-hard bearings and highly crosslinked UHMWPE. In: *The UHMWPE Biomaterials Handbook: Ultra-High Molecular Weight Polyethylene in Total Joint Replacements and Medical Devices*, Second Edition. Kurtz SM (ed), Elsevier Academic Press, Burlington, 2009.

Published Abstracts and Presentations

Heckmann ND, Yang J, Ong KL, Lau EC, Fuller BC, Bohl DD, Della Valle CJ. Revision surgery for

instability following total hip arthroplasty: Does timing matter? Paper No. 147, Mid-America Orthopaedic Association 2021 Annual Meeting, Amelia Island, FL, September 29-October 3, 2021.

Heckmann ND, Yang J, Ong KL, Lau EC, Fuller BC, Bohl DD, Della Valle CJ. Revision surgery for periprosthetic fractures following total hip arthroplasty: Does timing matter? Poster No. 131, Mid-America Orthopaedic Association 2021 Annual Meeting, Amelia Island, FL, September 29-October 3, 2021.

Fuller BC, Della Valle CJ, Bohl DD, Lau E, Yang J, Ong K, Heckmann ND. Revision surgery for instability following total hip arthroplasty: Does timing matter? Paper No. 766, 88th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, August 31-September 3, 2021.

Heckmann ND, Bohl DD, Fuller BC, Della Valle CJ, Ong KL, Lau EC, Yang J. Revision surgery for instability following total hip arthroplasty: Does timing matter? Poster, 30th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 5-8, 2020.

Ong KL, Farr J, McIntyre LF, Gudeman AS, Murray IR, Hummer CD, Ngai W, Good H, Lau E, Altman RD. risk of severe acute localized reactions for different intra-articular hyaluronic acid knee injections in a real world setting. Poster (Abstract 580), American College of Rheumatology Convergence, November 5-9, 2020.

White NJ, Lau JT, Ong KL, Kurtz SM, Lin SS. Union of foot/ankle arthrodesis: a registry study of low-intensity pulsed ultrasound (LIPUS). ePoster No. 10473, American Orthopaedic Foot & Ankle Society at Home, September 10-12, 2020.

Feuerstadt P, Aroniadis OC, Svedlund FL, Garcia M, Ong KL, Stong L, Boules M, Khanna S. Heterogeneity of randomized controlled trials of fecal microbiota transplantation (FMT) in recurrent clostridioides difficile infection: A systematic review. Poster No. Mo1950, Digestive Disease Week, Chicago, IL, May 2-5, 2020.

Khanna S, Aroniadis OC, Garcia M, Svedlund FL, Ong KL, Stong L, Boules M, Feuerstadt P. Reporting of randomized controlled trial methodological characteristics of fecal microbiota transplantation (FMT) for recurrent clostridioides difficile infection (rCDI). Poster No. Mo1951, Digestive Disease Week, Chicago, IL, May 2-5, 2020.

Ong K, Richards J, Lau E, Malkani A. Corrosion concerns? Trends in metal-on-polyethylene THA revision rates and comparisons against ceramic-on-polyethylene up to 10 years follow-up in the Medicare patient population. Paper No. 326, 87th Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, March 24-28, 2020.

Goyal N, Bohl D, Ong K, Lau E, Nicholson G, Wysocki Jr R. Lower risk of reoperation associated with total elbow arthroplasty versus open reduction and internal fixation for distal humerus fractures in elderly patients. Paper No. 163, 87th Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, March 24-28, 2020.

Sodhi N, Malkani J, Heimroth J, Ong K, Watson H, Price M, Piuze N, Mont M. Complications and readmission incidence following total hip arthroplasty in patients with end stage renal failure. Poster No. P0052, 87th Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, March 24-28, 2020.

Ong K, Runa M, Ngai W, Xiao Z, Lau E, Altman R. Severe acute localized reactions following intra-articular hyaluronic acid injections in knee osteoarthritis. Poster No. P0904, 87th Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, March 24-28, 2020.

Ong KL, Runa M, Ngai W, Xiao Z, Lau E, Altman R. Severe acute localized reactions following intra-articular hyaluronic acid injections in knee osteoarthritis. Poster No. 2198, American College of

Rheumatology/Association of Rheumatology Health Professionals Annual Meeting, Atlanta, GA, November 8-13, 2019.

Ong KL, Malkani AL, Lau EC, Richards JA. Corrosion concerns? Trends in metal-on-polyethylene THA revision rates and comparisons against ceramic-on-polyethylene up to 10 years follow-up in the Medicare patient population. Poster No. 340, 29th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 7-10, 2019.

Thames SF, Blanton MD, Williams EB, White JB, Stoner KE, Ong KL. Implantation time has no effect on the morphology and extent of supposed "degradation" of Prolene pelvic mesh. Scientific Salon Paper No. 76, American Urogynecologic Society/International Urogynecological Association Joint Scientific Meeting, Nashville, TN, September 24-28, 2019.

Donner EJ, Lovald S, Ong K, Giesa T, Trieu H, Donner CT. MIS posterior-inferior approach for sacroiliac joint fusion: finite element analysis of joint stability using novel implant designs, orientation and number. Paper No. 2696, 19th Annual Conference of the International Society for the Advancement of Spine Surgery, Anaheim, CA, April 3-5, 2019.

Ong K, Lau E, Denehy K, Hagan D, Malkani A. Total hip arthroplasty following failed cephalomedullary nailing of intertrochanteric hip fractures. Poster No. 1024, 65th Annual Meeting of the Orthopaedic Research Society, Austin, TX, February 2-5, 2019.

Ong K, Beall D, Frohbergh M, Lau E, Hirsch J. How many VCF patients were exposed to elevated mortality risk from the 2009 diminution in vertebral augmentation referrals? Poster No. 010, International Osteoporosis Foundation Regional - 7th Asia-Pacific Osteoporosis Conference, Sydney, Australia, November 29-December 1, 2018.

Ong KL, Runa M, Lau E, Altman R. The delay to knee arthroplasty in knee OA patients who utilize intra-articular hyaluronic acid. American Academy of Physical Medicine and Rehabilitation Annual Assembly, Orlando, FL, October 25-28, 2018.

Niazi F, Ong K, Lau E, Shaw P, Kurtz S. Unintended consequences of the non-coverage of HA: a cautionary tale. E-Poster Abstract No. 51318, 39th SICOT Orthopaedic World Congress, Montreal, Canada, October 10-13, 2018.

Niazi F, Kurtz S, Lau E, Shaw P, Ong K. Does HA utilisation reduce the demand for knee arthroplasty? E-Poster Abstract No. 51397, 39th International Society of Orthopaedic Surgery and Traumatology (SICOT) Orthopaedic World Congress, Montreal, Canada, October 10-13, 2018.

Ong KL, Stoner KE, Yun BM, Lau E, Edidin A. Baseline and post-fusion opioid burden for low back pain patients. Paper No. 269, North American Spine Society 33rd Annual Meeting, Los Angeles, CA, September 26-29, 2018.

Ong KL, Stoner KE, Lau E, Edidin A. Burden of illness associated with low back pain: healthcare resource utilization and direct cost. Paper No. 267, North American Spine Society 33rd Annual Meeting, Los Angeles, CA, September 26-29, 2018.

Ong KL, Hirsch JA, Frohbergh M, Lau E, Clerk-Lamallice O, Beall DP. How many VCF patients were exposed to elevated mortality risk from the 2009 diminution in vertebral augmentation referrals? Paper No. 706.1, Cardiovascular and Interventional Radiological Society of Europe Annual Meeting, Lisbon, Portugal, September 22-25, 2018.

Ong KL, Beall DP, Frohbergh M, Lau E, Clerk-Lamallice O, Hirsch JA. Were VCF patients at higher risk of mortality following the 2009 publication of the vertebroplasty sham trials? Poster No. P-116, Cardiovascular and Interventional Radiological Society of Europe Annual Meeting, Lisbon, Portugal,

September 22-25, 2018.

Ong KL, Stoner KE, Lau E, Edidin A. Burden of illness associated with low back pain: healthcare resource utilization and direct cost. Poster, Spine Interventional Society Annual Meeting, Chicago, IL, August 15-18, 2018.

Ong KL, Stoner KE, Yun BM, Lau E, Edidin A. Baseline and post-fusion opioid burden for low back pain patients. Poster, Spine Interventional Society Annual Meeting, Chicago, IL, August 15-18, 2018.

Ong K, Runa M, Lau E, Altman R. Cost-of-illness of knee osteoarthritis: potential cost savings through avoidance of knee arthroplasty. 19th European Federation of National Associations of Orthopaedics and Traumatology (EFORT) Congress, Barcelona, Spain, May 30-June 1, 2018.

Runa M, Ong K, Lau E, Daley W, Altman R. Risk factors for knee arthroplasty in patients with knee osteoarthritis treated with Hylan G-F 20. Poster No.63, American College of Sports Medicine 65th Annual Meeting, Minneapolis, MN, May 29-June 2, 2018.

Ong K, Lau E, Runa M, Daley W, Altman R. Healthcare resource utilization in patients with knee osteoarthritis treated with hylan G-F 20. Poster No. M13, Academy of Managed Care Pharmacy - Managed Care & Specialty Pharmacy Annual Meeting, Boston, MA, April 23-26, 2018.

Ong K, Beall D, Frohbergh M, Lau E, Hirsch J. How many VCF patients were exposed to elevated mortality risk from the diminution in vertebral augmentation referrals? ePoster No. 592, 43rd Annual Scientific Meeting of the Society of Interventional Radiology, Los Angeles, CA, March 17-22, 2018.

Ong K, Beall D, Frohbergh M, Lau E, Hirsch J. Were VCF patients at higher risk of mortality following the 2009 publication of the vertebroplasty sham trials? Poster No. 1057, 43rd Annual Scientific Meeting of the Society of Interventional Radiology, Los Angeles, CA, March 17-22, 2018.

Ong KL Runa M, Lau E, Altman R. Is intra-articular injection of Synvisc associated with a delay to knee arthroplasty in knee OA patients? Poster No. 521, 64th Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, March 10-13, 2018.

Courtney P, Bohl D, Lau E, Ong K, Jacobs J, Della Valle C. Risk adjustment is necessary in Medicare bundled payment models for total hip arthroplasty. Paper No. P661, 85th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 6-10, 2018.

Bohl D, Ong K, Lau E, Darrith B, Della Valle C. Computer-assisted navigation reduces the rate of dislocation and acetabular component revision following primary total hip arthroplasty. Poster No. P567, 85th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 6-10, 2018.

Courtney P, Bohl D, Lau E, Ong K, Jacobs J, Della Valle C. Risk adjustment is necessary in Medicare bundled payment models for total knee arthroplasty. Poster No. P151, 85th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 6-10, 2018.

Ong K, Beall D, Frohbergh M, Lau E, Hirsch JA. Were VCF patients at higher risk of mortality following the 2009 publication of the vertebroplasty sham trials? Poster No. P380, 85th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 6-10, 2018.

Malkani A, Himschoot K, Ong K, Lau E, Baykal D, Dimar J, Glassman S, Berry D. Does timing of primary total hip arthroplasty prior to or after lumbar spine fusion have an effect on dislocation and revision rates? Paper No. 18, 85th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 6-10, 2018.

Ong KL, Runa M, Lau E, Altman R. Potential cost savings through avoidance of knee arthroplasty. Poster No. 270, 37th Annual Meeting of the American Pain Society, Anaheim, CA, March 4-6, 2018.

Ong KL, Niazi F, Lau E, Shaw P, Kurtz SM. Cost patterns following the diagnosis of knee osteoarthritis in the Blue Cross/Blue Shield patient population. Paper, Orthopaedic Summit 2017, Las Vegas, NV, December 6-9, 2017.

Ong KL, Runa M, Lau E, Altman R. Is intra-articular injection of Synvisc associated with a delay to knee arthroplasty in knee OA patients? Poster No. 980, American College of Rheumatology Annual Meeting, San Diego, CA, November 3-8, 2017.

Ong KL, Niazi F, Lau E, Shaw P, Kurtz SM. Comparison of the costs for hyaluronic acid and total knee arthroplasty in the treatment of OA for the Blue Cross/Blue Shield patient population. Poster No. 1093, American College of Rheumatology Annual Meeting, San Diego, CA, November 3-8, 2017.

Courtney PM, Bohl DD, Lau E, Ong K, Jacobs JJ, Della Valle CJ. Risk adjustment is necessary in Medicare bundled payment models for total hip arthroplasty. Poster No. 37, 27th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 2-5, 2017.

Malkani AL, Himschoot K, Ong K, Baykal D, Dimar J, Glassman S, Berry DJ. Does timing of primary total hip arthroplasty prior to or after lumbar spine fusion have an effect on dislocation and revision rates? Poster No. 52, 27th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 2-5, 2017.

Ong KL, Beall DP, Frohbergh M, Lau E, Hirsch JA. Were VCF patients at higher risk of mortality following the 2009 publication of the vertebroplasty sham trials? Digital Poster No. 4087, 2017 Congress of Neurological Surgeons Annual Meeting, in Boston, MA, October 7-11, 2017.

Ong KL, Lau E, Baykal D, Garber A, Glassman S, Dimar J, Berry D, Malkani A. THA in patients with previous lumbar fusion surgery: are their outcomes worse? Poster No. 1067, 63rd Annual Meeting of the Orthopaedic Research Society, San Diego, CA, March 19-22, 2017.

Garber A, Malkani A, Ong K, Baykal D, Glassman S, Dimar II J, Berry D. Total hip arthroplasty in patients with previous lumbar fusion surgery: are there more dislocations and revisions? Paper No. 707, 84th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, March 14-18, 2017.

Dilworth B, Bhimani S, Buzhardt P, Ong K, Lau E, Malkani A. Risk of reinfection after irrigation and debridement for treatment of acute periprosthetic joint infection following total knee arthroplasty. Poster No. P145, 84th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, March 14-18, 2017.

Kurtz SM, Lau EC, Ong KL, Adler EM, Kolisek FR, Manley MT. National economic burden of 90-day readmissions following total hip arthroplasty: what are the roles of patient, clinical, and hospital factors? Paper No. 590, 84th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, March 14-18, 2017.

Kurtz SM, Lau EC, Ong KL, Adler EM, Kolisek FR, Manley MT. Has health care reform legislation reduced the economic burden of 90-day readmissions following total hip arthroplasty? Paper No. 699, 84th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, March 14-18, 2017.

Kurtz SM, Lau EC, Ong KL, Adler EM, Kolisek FR, Manley MT. Has health care reform legislation reduced the economic burden of 90-day readmissions following total knee arthroplasty? Paper No. 236, 84th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, March 14-18,

2017.

Kurtz SM, Lau EC, Ong KL, Adler EM, Kolisek FR, Manley MT. Which factors drive the national economic burden of hospital readmissions following total knee arthroplasty? Poster No. 28, 26th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 10-13, 2016.

Malkani AL, Garber A, Ong K, Baykal D, Dimar J, Glassman S, Berry D. THA in patients with previous lumbar fusion surgery: are there more dislocations and revisions? Poster No. 94, 26th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 10-13, 2016.

Kurtz SM, Lau EC, Ong KL, Adler EM, Kolisek FR, Manley MT. Has health care reform legislation reduced the economic burden of 90-day readmissions following total hip arthroplasty? Poster No. 98, 26th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 10-13, 2016.

Dilworth B, Bhimani S, Buzhardt P, Ong K, Lau E, Malkani AL. Risk of reinfection after irrigation and debridement for treatment of acute periprosthetic joint infection following TKA. Poster No. 164, 26th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 10-13, 2016.

Thames SF, White JB, Ong K. The myth: in vivo degradation of polypropylene meshes. Paper No. 50, 37th Annual Meeting of the American Urogynecological Society, Denver, CO, September 27-October 1, 2016.

Ong KL, White J, Thames SF. The myth: in vivo degradation of polypropylene meshes. Paper No. PP19, 41st Annual Meeting of the International Urogynecological Association, Cape Town, South Africa, August 4-6, 2016.

Devin C, McGirt M, Lau E, Lovald S, Ong K. PCA use for inpatient posterior lumbar spine fusion: Opioid-related complications and costs. Abstract (Poster) No. A-758-0000-00046, 16th Annual Conference of the International Society for the Advancement of Spine Surgery, Las Vegas, NV, April 6-8, 2016.

Devin C, McGirt M, Lau E, Lovald S, Ong K. PCA use for inpatient posterior lumbar spine fusion: Opioid-related complications and costs. Oral Platform Abstract No. 229, Spine Summit 2016, Orlando, FL, March 16-19, 2016.

Hutchinson H, Jaekel D, Lovald S, Watson H, Ong K. Femoral neck fractures treated with hemiarthroplasty: A study of a multimodal pain management program. Poster No. 0788, 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 5-8, 2016.

Angel J, Steel C, Ong K, Watson H, Lovald S. Postoperative pain control after total and reverse shoulder arthroplasty: Interscalene block vs. liposomal bupivacaine. Poster No. 2026, 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 5-8, 2016.

Barrington JW, Lovald S, Ong K, Watson H, Emerson RH. How do demographic, surgical, patient, and cultural factors affect pain control after revision total joint arthroplasty? A multivariable regression analysis. Poster No. 1953, 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 5-8, 2016.

Barrington JW, Lovald S, Ong K, Watson H, Emerson RH. How do demographic, surgical, patient, and cultural factors affect pain control after total hip arthroplasty?. Poster No. 1079, 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 5-8, 2016.

Barrington JW, Lovald S, Ong K, Watson H, Emerson RH. How do demographic, surgical, patient, and cultural factors affect pain control after primary total knee arthroplasty? A multivariable regression

analysis. Poster No. 1952, 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 5-8, 2016.

Barrington JW, Lovald S, Ong K, Watson H, Emerson RH. How do demographic, surgical, patient, and cultural factors affect pain control after unicompartmental knee arthroplasty? A multivariable regression analysis. Poster No. 1087, 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 5-8, 2016.

Gonzales J, Lovald S, Lau E, Ong K. The risk of opioid-related adverse events after primary and revision total knee arthroplasty. Poster No. 1927, 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 5-8, 2016.

Gonzales J, Lovald S, Lau E, Ong K. Quantifying the risk of opioid-related adverse events after knee arthroscopy. Poster No. 1813, 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 5-8, 2016.

Ong KL, Anderson A, Lau E, Niazi F, Kurtz S, Altman R. Synergistic effects of hyaluronic acid and corticosteroid injections to delay knee arthroplasty in knee OA patients. Poster No. 2228, 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 5-8, 2016.

Ong KL, Baykal D, Lau E, Malkani A. Complications following revision THA in the Medicare population. Poster No. 1928, 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 5-8, 2016.

Ong KL, Baykal D, Lau E, Malkani A, Lee GC. Metabolic bone conditions and their impact on primary THA and TKA. Poster No. 1595, 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 5-8, 2016.

Ong KL, Baykal D, Lau E, Lee GC, Malkani A. Primary total hip arthroplasty in the octogenarian population: what to look out for. Poster No. 1076, 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 5-8, 2016.

Ong KL, Devin C, Lau E, Lovald S, McGirt M. PCA use for inpatient posterior lumbar spine fusion: Opioid-related complications and costs. Poster No. 1721, 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 5-8, 2016.

Ong KL, Baykal D, Lau E, Malkani A, Lee GC. Discharge trends in Medicare patients undergoing primary THA and TKA. Poster No. 1075, 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 5-8, 2016.

Ong K, Baykal D, Lau E, Malkani A, Lee GC. Home discharge following primary TJA is associated with fewer complications: an analysis of the Medicare database. Paper No. 182, 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 5-8, 2016.

Lee GC, Ong K, Baykal D, Lau E, Malkani AL. Discharge trends in Medicare patients undergoing primary THA and TKA. Paper No. 912, 83rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, March 1-5, 2016.

Lee GC, Ong K, Baykal D, Lau E, Malkani AL. Home discharge following primary THA/TKA is associated with fewer complications. Paper No. 587, 83rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, March 1-5, 2016.

Lee GC, Ong K, Baykal D, Lau E, Malkani AL. The effect of prior bariatric surgery on THA/TKA outcomes. Paper No. 596, 83rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, March 1-5, 2016.

Devin C, McGirt M, Lau E, Lovald S, Ong K. PCA use for inpatient posterior lumbar spine fusion: Opioid-related complications and costs. Paper No. 569, 83rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, March 1-5, 2016.

Cochran A, Ong K, Lau E, Mont MA, Malkani AL. Risk of reinfection following treatment of infected total knee arthroplasty. Paper No. 237, 83rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, March 1-5, 2016.

Kurtz SM, Lau E, Ong K, Adler EM, Kolisek FR, Manley MT. Which hospital and clinical factors drive 30-day readmission after TKA? Paper No. 305, 83rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, March 1-5, 2016.

Kurtz SM, Lau E, Ong K, Adler EM, Kolisek FR, Manley MT. Which hospital and clinical factors drive 30-day readmission after THA? Paper No. 172, 83rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, March 1-5, 2016.

Angel JD, Steel C, Ong K, Watson H, Lovald ST. Pain control after total and reverse shoulder arthroplasty: Interscalene block vs. liposomal bupivacaine. Poster No. 315, 83rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Orlando, FL, March 1-5, 2016.

Ong K, Anderson A, Lau E, Niazi F, Fierlinger A, Kurtz S, Altman R. Hyaluronic acid injections in knee osteoarthritis patients are associated with delay to knee arthroplasty. Abstract No. 310, 2015 American College of Rheumatology/Association of Rheumatology Health Professionals Annual Meeting, San Francisco, CA, November 6-11, 2015.

Malkani A, Ong KL, Baykal D, Lau E, Mackin T, Lee GC. Primary total hip arthroplasty in the octogenarian population. Poster No. 19, 25th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 5-8, 2015.

Cochran A, Ong K, Lau E, Mont M, Malkani A. Risk of re-infection following treatment of infected total knee arthroplasty. Best Poster for Infection. Poster No. 125, 25th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 5-8, 2015.

Barrington JW, Lovald S, Ong K, Watson H, Emerson RH. How do demographic, surgical, patient, and cultural factors affect pain control after unicompartmental knee arthroplasty? A multivariable regression analysis. Poster No. 58, 25th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 5-8, 2015.

Barrington JW, Lovald S, Ong K, Watson H, Emerson RH. The role of gender, age, race, and ethnicity on postoperative pain after primary total knee arthroplasty. Poster No. 83, 25th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 5-8, 2015.

Kurtz SM, Lau E, Ong K, Adler E, Kolisek F, Manley M. Which clinical and hospital factors drive 30-day readmission after THA? Paper No. 20, 2015 Summer Meeting of the Hip Society, Sonoma, CA, October 15-17, 2015.

Kurd M, Ong K, Lovald S, Lau E, Polly Jr D, Radcliff K. Medical risk factors for opioid-related adverse events after lumbar laminectomy and fusion. Poster No. 04_104, 42nd Annual Meeting of the International Society for the Study of the Lumbar Spine, San Francisco, CA, June 8-12, 2015.

Kurd M, Ong K, Lovald S, Lau E, Polly Jr D, Radcliff K. Opioid-related adverse events with lumbar spine surgery: is the risk real? Poster No. 04_105, 42nd Annual Meeting of the International Society for the Study of the Lumbar Spine, San Francisco, CA, June 8-12, 2015.

Gonzales J, Lovald S, Lau E, Ong K. What Is The Risk Of Potential Opioid-related Adverse Events Following Knee Arthroscopy? Poster 695, 62nd Annual Meeting of the American College of Sports Medicine, San Diego, CA, May 26-30, 2015.

Polly Jr D, Ong K, Lovald S, Lau E, Kurd M, Radcliff K. Opioid-related adverse events with spine surgery: is the risk real? Abstract (Paper) No. A-687-0000-00513, 15th Annual Conference of the International Society for the Advancement of Spine Surgery, San Diego, CA, April 15-17, 2015.

Kurd M, Ong K, Lovald S, Lau E, Polly Jr D, Radcliff K. Opioid-related adverse events with lumbar spine surgery: is the risk real? Abstract (Electronic Presentation) No. 15-A-62-LSRS, 8th Annual Lumbar Spine Research Society Meeting, Chicago, IL, April 9-10, 2015.

Ong KL, Lau E, Kurtz S, Hansen E, Lonner J. Short-term complications and revision following unicondylar knee arthroplasty. Poster No. 917, 61st Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, March 28-31, 2015.

Ong KL, Lau E, Kurtz S, Hansen E, Lonner J. Unicondylar knee arthroplasty in the U.S. patient population: prevalence and epidemiology. Poster No. 1782, 61st Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, March 28-31, 2015.

Ong KL, Lau E, Mont MA, Manley M, Kurtz S. To brace or not to brace: association between pre- and post- TKA brace use and short-term outcomes. Poster No. 1785, 61st Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, March 28-31, 2015.

Ong KL, Lotke P, Lau E, Manley M, Kurtz S. Association between physical therapy modalities and complications after primary TKA. Poster No. 933, 61st Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, March 28-31, 2015.

Ong KL, Lau E, Kurtz S. Trends in the burden of hip fractures - what does the past tell us? Poster No. 639, 61st Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, March 28-31, 2015.

Bozic KJ, Ong K, Lau E, Kurtz SM, Vail TP, Rubash HE, Berry DJ. Trends in short- and mid- term risk of revision THA following primary THA in Medicare patients. Paper No. 687, 82nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 24-28, 2015.

Kurtz SM, Lau E, Ong K, Katz JN, Bozic KJ. Universal health coverage and total joint arthroplasty: implications from the Massachusetts experience. Paper No. 333, 82nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 24-28, 2015.

Goel A, Lau E, Ong K, Berry DJ, Malkani AL. Dislocation rates following primary total hip arthroplasty have plateaued in North America. Poster No. 96, 82nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 24-28, 2015.

Lovald ST, Ong K, Lau E, Joshi G, Kurtz SM, Malkani AL. Patient selection for short-stay total hip arthroplasty. Poster No. 61, 82nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 24-28, 2015.

Henzman R, Ong K, Lau E, Seligson D, Roberts CS, Malkani AL. Risk of complications following treatment of intertrochanteric hip fractures with IM nails and plate fixation. Poster No. 47, 82nd Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, March 24-28, 2015.

Polly Jr D, Ong K, Lovald S, Lau E, Kurd M, Radcliff K. Opioid-related adverse events with lumbar spine surgery: is the risk real? Abstract (Paper) No. 225, 31st Annual Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ, March 4-7, 2015.

Kurd M, Ong K, Lovald S, Lau E, Polly Jr D, Radcliff K. Opioid-related adverse events following cervical spine surgery. Abstract (Poster) No. 412, 31st Annual Meeting of the CNS/AANS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, AZ, March 4-7, 2015.

Carreon LY, Ong KL, Lau E, Kurtz SM, Glassman SD. Risk of osteoporotic fracture after steroid injections in Medicare patients. Paper No. 84, North American Spine Society 29th Annual Meeting, San Francisco, CA, November 12-15, 2014.

Ong KL, Lau E, Kurtz SM, Hansen E, Lonner J. Short-term complications and revision following unicondylar knee arthroplasty. Poster No. 54, 24th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 6-9, 2014.

Ong K, Kurtz SM, Lau E, Parvizi J, Mont MA, Manley MT. Migratory patterns of primary total hip and knee patients influence hospital utilization. Poster No. 951, 60th Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, March 15-18, 2014.

Bozic K, Kamath A, Lau E, Ong K, Kurtz S, Chan V, Rubash H, Berry D, Vail T. Trends in THA bearing couple usage in the United States. Poster No. 92, 81st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.

Bozic K, Kamath A, Lau E, Ong K, Kurtz S, Chan V, Vail T, Berry D, Rubash H. The epidemiology of revision total knee arthroplasty in the United States. Paper No. 330, 81st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.

Bozic K, Lau E, Ong K, Kamath A, Chan V, Vail T, Kurtz S, Rubash H, Berry D. Quantifying the burden of periprosthetic joint infection in revision total hip and total knee arthroplasty Paper No. 432, 81st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.

Ong KL, Lotke PA, Lau E, Manley MT, Kurtz SM. Prevalence and costs of rehabilitation and physical therapy after primary TJA. Paper No. 395, 81st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.

Ong KL, Lotke PA, Lau E, Manley MT, Kurtz SM. Prevalence and costs of rehabilitation and physical therapy after primary TJA. Scientific Exhibit 64, 81st Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 11-15, 2014.

Bozic K, Kamath A, Lau E, Ong K, Kurtz S, Chan V, Rubash H, Vail T, Berry DJ. The epidemiology of revision total hip arthroplasty in the United States. Poster No. 76, 23rd Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 8-10, 2013.

Bozic K, Kamath A, Lau E, Ong K, Kurtz S, Chan V, Vail T, Berry DJ, Rubash H. The epidemiology of revision total knee arthroplasty in the United States. Poster No. 88, 23rd Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 8-10, 2013.

Bozic K, Ong K, Lau E, Kamath A, Kurtz S, Chan V, Vail T, Rubash H, Berry DJ. The comparative epidemiology of revision total hip and total knee populations. Poster No. 94, 23rd Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 8-10, 2013.

Ong KL, Lotke PA, Lau E, Manley MT, Kurtz SM. Prevalence and cost of rehabilitation and physical therapy after primary TJA. Poster No. 148, 23rd Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 8-10, 2013.

Ong KL, Edidin AA, Lau E, Kurtz SM. Mortality and morbidity for operated and non-operated vertebral compression fracture patients (osteoporotic and non-osteoporotic) in the U.S. Medicare population. Oral Abstract No. 61292, Cardiovascular and Interventional Radiological Society of Europe, Barcelona, Spain,

September 14-18, 2013.

Workgroup 6: Prosthesis selection. Proceedings of the International Consensus Meeting on Periprosthetic Joint Infection. Philadelphia, PA, July 31-August 1, 2013.

Ong KL, Edidin AA, Lau E, Kurtz SM. Mortality and morbidity for operated and non-operated vertebral compression fracture patients (osteoporotic and non-osteoporotic) in the U.S. Medicare population. Paper No. 67, International Society for the Study of the Lumbar Spine Annual Meeting, Scottsdale, AZ, May 13-17, 2013.

Bozic KJ, Lau E, Ong K, Chiu V, Kurtz SM, Vail TP, Rubash HE, Berry DJ. Risk factors for early revision following primary total knee arthroplasty in Medicare patients. Poster No. 204, 80th Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 19-23, 2013.

Bozic KJ, Lau E, Ong K, Chiu V, Kurtz SM, Vail TP, Rubash HE, Berry DJ. Risk factors for early revision following primary total hip arthroplasty in Medicare patients. Poster No. 72, 80th Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 19-23, 2013.

Lovald ST, Ong K, Lau E, Schmier JK, Bozic KJ, Kurtz SM. Mortality, cost and downstream disease of total hip arthroplasty patients in the Medicare population. Paper No. 779, 80th Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 19-23, 2013.

Edidin AA, Ong K, Lau E, Kurtz SM. Morbidity and mortality after vertebral augmentation and non-operative management of vertebral fractures. Paper No. 448, 80th Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 19-23, 2013.

Kurtz SM, Ong K, Lau E, Watson H, Bozic KJ. Impact of the economic downturn on TJR demand in the U.S.: updated projections for TJR utilization through 2020. Poster No. 104, 80th Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 19-23, 2013.

Ong K, Watson H, Manley MT, Kurtz SM. Comparison of infection, revision and surgical interventions between unicondylar and total knee arthroplasty. Poster No. 169, 80th Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 19-23, 2013.

Farner S, Malkani AL, Lau E, Day J, Ochoa JA, Ong K. Treatment patterns, outcomes, and cost of care for distal radius fracture patients in the Medicare population. Paper No. 606, 80th Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 19-23, 2013.

Lovald S, Ong K, Lau E, Schmier J, Bozic K, Kurtz S. A Medicare analysis of mortality, disease and healthcare spending related to hip osteoarthritis. Poster No. 992, 59th Annual Meeting of the Orthopaedic Research Society, San Antonio, TX, January 26-29, 2013.

Bozic K, Lau E, Ong K, Chiu V, Kurtz S, Vail TP, Rubash HE, Berry DJ. Risk factors for early revision following primary TKA in Medicare patients. Paper No. 2, 22nd Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 2-4, 2012.

Bozic K, Lau E, Ong K, Chiu V, Kurtz S, Vail TP, Rubash HE, Berry DJ. An electronic risk calculator for early revision in Medicare THA patients. Poster No. 71, 22nd Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 2-4, 2012.

Ong K, Lau E, Kurtz S. Risk of complications, revision, and cancer for metal-on-metal patients in the Medicare Population. Poster No. 41, 22nd Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 2-4, 2012.

Bozic K, Lau E, Ong K, Chiu V, Kurtz S, Vail TP, Rubash HE, Berry DJ. Risk factors for early revision

following primary THA in Medicare patients. Paper No. 51, 22nd Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 2-4, 2012.

Bozic K, Lau E, Ong K, Chiu V, Kurtz S, Vail TP, Rubash HE, Berry DJ. An electronic risk calculator for early revision in Medicare TKA patients. Poster No. 61, 22nd Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 2-4, 2012.

Ong KL, Lau E, Kemner JE, Kurtz SM. Comparative cost between vertebroplasty and kyphoplasty for the treatment of vertebral compression fractures. Poster No. P6, North American Spine Society 27th Annual Meeting, Dallas, TX, October 24-27, 2012.

Ong KL, Edidin A, Lau E, Kurtz SM. Mortality and morbidity for operated and nonoperated vertebral compression fracture patients in the Medicare population. Paper No. 154, North American Spine Society 27th Annual Meeting, Dallas, TX, October 24-27, 2012.

Auerbach JD, Schmier J, Ong KL, Lau E. Cost-effectiveness of interlaminar stabilization compared with instrumented posterior spinal fusion for spinal stenosis and spondylolisthesis. Paper No. 28, North American Spine Society 27th Annual Meeting, Dallas, TX, October 24-27, 2012.

Auerbach JD, Ong KL, Lau E, Schmier J. Perioperative outcomes, complications, and costs associated with lumbar spinal fusion in older patients with spinal stenosis and spondylolisthesis: Analysis of the United States Medicare claims database. Paper No. 5, North American Spine Society 27th Annual Meeting, Dallas, TX, October 24-27, 2012.

Ong KL, Edidin A, Lau E, Schmier J, Kemner JE, Kurtz SM. Cost-effectiveness analysis of treatments for vertebral compression fractures. Paper No. 27, North American Spine Society 27th Annual Meeting, Dallas, TX, October 24-27, 2012.

Patel J, Ong K, Watson H, Helmus M, Kuehn C, Ochoa J. Historical trends in outcomes following aortic and mitral heart valve replacement procedures: A population-based study of 29,582 Medicare patients from 1997 to 2009. Poster No. 877 (Top 25 Poster), Transcatheter Cardiovascular Therapeutics Conference, Miami, FL, October 22-26, 2012.

Patel J, Ong K, Watson H, Kuehn C, Ochoa J. Trends in revascularization and mortality for BMS and DES coronary stenting procedures: A Medicare study of 156,300 patients. Poster No. 659, Transcatheter Cardiovascular Therapeutics Conference, Miami, FL, October 22-26, 2012.

Kuehn C, Watson H, Ong K, Mohamed M, Ochoa JA, Fryzek J. Descriptive epidemiology of medical device use among patients with breast, lung, or prostate cancer in the National Inpatient Sample. Poster, 28th ICPE: International Conference on Pharmacoepidemiology & Therapeutic Risk Management, Barcelona, Spain, August 22-26, 2012.

Ong KL, Patel J, Watson H, Helmus M, Kuehn C, Ochoa J. Historical trends in outcomes following aortic and mitral heart valve replacement procedures: A population-based study of 29,582 Medicare patients from 1997 to 2009. Poster No. PMD1, 17th Annual International Meeting of the International Society for Pharmacoeconomics and Outcomes Research, Washington, DC, June 2-6, 2012.

Ong KL, Lau E, Kemner JE, Kurtz SM. Comparative cost between vertebroplasty and kyphoplasty for the treatment of vertebral compression fractures. Poster No. PMD22, 17th Annual International Meeting of the International Society for Pharmacoeconomics and Outcomes Research, Washington, DC, June 2-6, 2012.

Schmier JK, Ong KL, Lau E, Zigler JD, Auerbach JD. Cost-effectiveness of Coflex[®] interlaminar stabilization compared with instrumented posterior spinal fusion for spinal stenosis and spondylolisthesis. Poster No. PMD42, 17th Annual International Meeting of the International Society for

Pharmacoeconomics and Outcomes Research, Washington, DC, June 2-6, 2012.

Auerbach JD, Ong KL, Lau E, Ochoa J, Schmier J, Zigler JD. Perioperative outcomes, complications, and costs associated with lumbar spinal fusion in older patients with spinal stenosis and spondylolisthesis: Analysis of the United States Medicare claims database. Paper No. ME4, 17th Annual International Meeting of the International Society for Pharmacoeconomics and Outcomes Research, Washington, DC, June 2-6, 2012.

Auerbach JD, Ong KL, Lau E, Ochoa J, Schmier J, Zigler JD. Perioperative outcomes, complications, and costs associated with lumbar spinal fusion in older patients with spinal stenosis and spondylolisthesis: Analysis of the United States Medicare claims database. Paper No. SP58, SpineWeek 2012, Amsterdam, Netherlands, May 28-June 1, 2012.

Eddin AA, Ong KL, Lau E, Schmier JK, Kemner JE, Kurtz SM. Cost-benefit analysis of treatments for vertebral compression fractures. Paper No. O222, SpineWeek 2012, Amsterdam, Netherlands, May 28-June 1, 2012.

Ong K, Lau E, Kurtz S. Risk of complications, revision, and cancer for metal-on-metal patients in the Medicare Population. Paper No. 5, American Society for Testing and Materials (ASTM) Symposium on Metal-On-Metal Total Hip Replacement Devices, Phoenix, AZ, May 8, 2012.

Kurtz SM, Ong KL, Lau E, Greenwald S, Bozic K. Prevalence of metal-on-metal bearings in the United States. Paper No. 1, American Society for Testing and Materials (ASTM) Symposium on Metal-On-Metal Total Hip Replacement Devices, Phoenix, AZ, May 8, 2012.

Ong KL, Patel JP, Watson H, Helmus M, Kuehn CM, Ochoa JA. Historical trends in outcomes following aortic and mitral heart valve replacement procedures: A population-based study of 29,582 Medicare patients from 1997 to 2009. Paper, Fourth Annual Joint Scientific Session of the Heart Valve Society of America and Society for Heart Valve Disease, Valves in the Heart of the Big Apple VII: Evaluation & Management of Valvular Heart Diseases 2012, New York, NY, April 12-14, 2012.

Eddin AA, Ong KL, Lau E, Schmier JK, Kemner JE, Kurtz SM. Distinguished abstract: Cost-benefit analysis of treatments for vertebral compression fractures. Paper No. 6, Society of Interventional Radiology Annual Scientific Meeting, San Francisco, CA, March 24-29, 2012.

Auerbach JD, Ong KL, Lau E, Ochoa J, Schmier J, Zigler JD. Perioperative outcomes, complications, and costs associated with lumbar spinal fusion in older patients with spinal stenosis and spondylolisthesis: Analysis of the United States Medicare claims database. Paper No. 516, International Society for the Advancement of Spine Surgery, Barcelona, Spain, March 20-23, 2012.

Lovald S, Malkani A, Lau E, Ong K, Kurtz S, Schmier J, Manley M. Outpatient TKA: A cost and outcomes analysis. Paper No. 411, 79th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 7-11, 2012.

Lovald S, Lau E, Ong K, Kurtz S, Schmier J, Parvizi J, Bozic K. Cost and disease outcomes of total knee arthroplasty patients in the Medicare population. Poster No. P149, 79th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 7-11, 2012.

Bozic KJ, Lau E, Ong K, Kurtz S, Vail TP, Rubash HE, Berry DJ. Identifying the high risk total hip arthroplasty patient. Paper No. 570, 79th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 7-11, 2012.

Bozic KJ, Lau E, Ong K, Kurtz S, Vail TP, Rubash HE, Berry DJ. Identifying the high risk total knee arthroplasty patient. Paper No. 490, 79th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 7-11, 2012.

Bozic KJ, Lau E, Ong K, Kurtz S, Vail TP, Rubash HE, Berry DJ. Trends in total hip arthroplasty bearing surface utilization in Medicare patients. Poster No. P100, 79th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, February 7-11, 2012.

Lovald S, Malkani A, Ong K, Lau E, Schmier J, Kurtz S, Manley M. Complications, mortality, and costs after outpatient and short-stay total knee arthroplasty. Paper No. 153, 58th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, February 4-7, 2012.

Lovald S, Ong K, Lau E, Schmier J, Kurtz S, Bozic K, Parvizi J. Medical costs, mortality and, downstream disease in osteoarthritis patients with and without total knee arthroplasty. Poster No. P1941, 58th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, February 4-7, 2012.

Kakarla D, Sanders AP, Siskey S, Ong K, Ames N, Ochoa J, Brannon RM. Modeling, testing, and analysis of impulse response of femoral head reduction in ceramic hip prostheses. Poster No. P2076, 58th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, February 4-7, 2012.

Patel JD, Ong K, Watson H, Kuehn C, Ochoa JA. Population-based analysis of the epidemiology and reintervention rates of cardiovascular stenting procedures: A Medicare study. Transcatheter Cardiovascular Therapeutics Conference, San Francisco, CA, November 7-11, 2011.

Bozic KJ, Lau E, Ong K, Kurtz SM, Vail TP, Rubash HE, Berry DJ. Comparative effectiveness of metal-on-metal and metal-on-polyethylene bearings in Medicare THA patients. Paper No. 9, 21st Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 4-6, 2011.

Eddin AA, Ong KL, Lau E, Wang N, Kurtz SM. Life expectancy following diagnosis of a vertebral compression fracture. Paper, North American Spine Society 26th Annual Meeting, Chicago, IL, November 2-5, 2011.

Zampini JM, Ong KL, Lau E, Eddin AA, Kurtz SM. Hospital outcomes of VCF treatment with kyphoplasty and vertebroplasty in the United States. Paper, North American Spine Society 26th Annual Meeting, Chicago, IL, November 2-5, 2011.

Kurtz SM, Lau E, Ong K, Carreon L, Glassman S. Infection risk for primary and revision instrumented lumbar spine fusion in the Medicare population. Paper, North American Spine Society 26th Annual Meeting, Chicago, IL, November 2-5, 2011.

Ong K, Rundell S, Liepins I, Markel D, Kurtz S. Biomechanical modeling of acetabular component polyethylene stresses, fracture risk, and wear rate following press-fit implantation. FDA/NHLBI/NSF Workshop on Computer Methods for Medical Devices, Silver Spring, MD, September 7-9, 2011.

Ong K, Watson H, Patel J, Kuehn C, Ochoa J. Bare-metal and drug-eluting coronary and peripheral vascular stent procedures: Utilization in the United States. 3rd North American Congress of Epidemiology, Montreal, Quebec, Canada, June 21-24, 2011.

Sanders AP, Tibbitts IB, Kakarla D, Siskey SD, Ochoa JA, Ong KL, Brannon RM. Contact mechanics of impacting slender rods: measurement and analysis. Paper No. 274, Society for Experimental Mechanics Annual Conference & Exposition on Experimental and Applied Mechanics, Uncasville, CT, June 13-16, 2011.

Ong K, Watson H, Patel J, Kuehn C, Ochoa J. Bare-metal and drug-eluting coronary and peripheral vascular stent procedures: Utilization in the United States. Poster No. P138, Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke, Washington DC, May 12-14, 2011.

Ong K, Lau E, Patel J, Ochoa J. Epidemiology of heart valve repair and replacement procedures in the

United States: A 15-Year perspective. Poster No. P52, Quality of Care and Outcomes Research in Cardiovascular Disease and Stroke, Washington DC, May 12-14, 2011.

Edidin AA, Ong KL, Lau E, Kurtz SM. Distinguished abstract: Mortality risk for operated and non-operated vertebral fracture patients in the U.S. Medicare population. Society of Interventional Radiology 36th Annual Scientific Meeting, Chicago, IL, March 26-31, 2011.

Edidin AA, Ong KL, Lau E, Kurtz SM. Mortality risk for operated and non-operated vertebral fracture patients in the U.S. Medicare population. Paper No. OC40, ECCEO11-IOF European Congress on Osteoporosis and Osteoarthritis, Valencia, Spain, March 23-26, 2011.

Malkani A, Carroll C, Roberts C, Seligson D, Lau E, Kurtz SM, Ong K. Complication risk following treatment of acetabular fractures in the Medicare population. Paper No. 212, 78th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 15-19, 2011.

Bozic KJ, Ong K, Lau E, Kurtz S, Vail TP, Rubash HE, Berry DJ. Risk factors for periprosthetic joint infection and peri-operative mortality following total hip arthroplasty in Medicare patients. Paper No. 480, 78th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 15-19, 2011.

Curtin B, Malkani A, Lau E, Kurtz S, Ong K. Revision after total knee arthroplasty and unicompartmental knee arthroplasty in Medicare population. Poster No. 114, 78th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 15-19, 2011.

Kurtz SM, Ong KL, Greenwald S, Bozic K. Prevalence of primary metal-on-metal bearings in the United States. Scientific Exhibit No. 16, 78th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 15-19, 2011.

Edidin AA, Ong KL, Lau E, Kurtz SM. Mortality risk for operated and non-operated vertebral fracture patients in the Medicare population. Scientific Exhibit No. 56, 78th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 15-19, 2011.

Malkani A, Carroll C, Roberts C, Seligson D, Lau E, Day J, Kurtz S, Ong K. Do the outcomes justify changes in treatment patterns following hip fractures? Scientific Exhibit No. 77, 78th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 15-19, 2011.

Bozic KJ, Ong K, Lau E, Kurtz S, Vail TP, Rubash HE, Berry DJ. Risk factors of periprosthetic joint infection and peri-operative mortality following total hip arthroplasty in Medicare patients. Paper No. 7, 20th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 5-7, 2010.

Bozic KJ, Ong K, Lau E, Kurtz S, Vail TP, Rubash HE, Berry DJ. Patient-related risk factors for periprosthetic joint infection and postoperative joint infection and postoperative mortality following total knee arthroplasty in Medicare patients. Poster, 20th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 5-7, 2010.

Malkani AL, Carroll C, Roberts CS, Seligson D, Lau E, Kurtz S, Ong K. Risk of complications following treatment of intertrochanteric hip fractures with IM nails and plate fixation in the Medicare population. Paper No. 40, 26th Annual Meeting of the Orthopaedic Trauma Association, Baltimore, MD, October 13-16, 2010.

Malkani A, Carroll C, Roberts C, Seligson D, Lau E, Day J, Kurtz S, Ong K. Complication risk following treatment of intracapsular and extracapsular hip fractures in the Medicare population. Poster, 26th Annual Meeting of the Orthopaedic Trauma Association, Baltimore, MD, October 13-16, 2010.

Eddin AA, Ong KL, Lau E, Kurtz SM. Mortality risk for operated and non-operated vertebral fracture patients in the U.S. Medicare population. Paper No. 1207.1, Cardiovascular and Interventional Radiological Society of Europe, Valencia, Spain, October 2-6, 2010.

Eddin A, Ong K, Lau E, Kurtz S. Mortality risk for operated and non-operated vertebral fracture patients in the U.S. Medicare population. Paper No. 31, EuroSpine Annual Meeting, Vienna, Austria, September 15-17, 2010.

Bozic KJ, Lau E, Kurtz S, Ong K, Rubash H, Vail TP, Berry DJ. Patient-related risk factors for periprosthetic joint infection and postoperative mortality following total knee arthroplasty in Medicare patients. Knee Society Members Meeting, Rochester, MN, September 11, 2010.

Eddin AA, Ong KL, Lau E, Kurtz SM. Mortality risk for operated and non-operated vertebral fracture patients in the U.S. Medicare population. Paper No. OC23, Joint Congress of the International Osteoporosis Foundation and the European Society for Clinical and Economic Aspects of Osteoporosis and Osteoarthritis, Florence, Italy, May 5-8, 2010.

Siskey SD, Day JS, Capello WN, D'Antonio JA, Kurtz SM, Ong KL. Late radiographic changes around a HA-coated stem: Feasibility of FE models to evaluate remodeling. Scientific Exhibit No. 17, 77th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 9-13, 2010.

Ong KL, Lau E, Villarraga ML, Glassman S, Kurtz SM. Evaluating on-label and off-label use of BMP in the U.S. using administrative data. Scientific Exhibit No. 71, 77th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 9-13, 2010.

Ong KL, Lau E, Villarraga ML, Glassman S, Kurtz SM. Evaluating on-label and off-label use of BMP in the U.S. using administrative data. Paper No. 19, 77th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 9-13, 2010.

Ong KL, Ianuzzi A, Zhao K, Lau E, Kurtz SM. Interspinous process device procedures in the U.S.: Epidemiology and in-hospital complications. Poster No. 361, 77th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 9-13, 2010.

Malkani A, Ong K, Lau E, Kurtz SM, Manley M. Early and late dislocation risk following primary hip arthroplasty in the Medicare population. Poster No. 48, 77th Annual Meeting of the American Academy of Orthopaedic Surgeons, New Orleans, LA, March 9-13, 2010.

Ong K, Ianuzzi A, Lau E, Kurtz S, Ochoa J. Epidemiology and in-hospital complications associated with interspinous process decompression device procedures: The initial U.S. experience using national administrative data. Paper No. 428, 56th Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, March 6-9, 2010.

Kurtz SM, Röder C, Ong K, Lau E, Widmer M, Maravic M, Gomez-Barrena E, Pina F, Manno V, Geesink R. International survey of primary and revision total knee replacement. Paper No. 214, 56th Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, March 6-9, 2010.

Kurtz SM, Röder C, Lau E, Ong K, Widmer M, Maravic M, Gomez-Barrena E, Pina F, Manno V, Geesink R. International survey of primary and revision total hip replacement. Paper No. 365, 56th Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, March 6-9, 2010.

Ong K, Villarraga M, Lau E, Carreon L, Kurtz S, Glassman S. Evaluating on-label and off-label use of BMP in the U.S. using administrative data. Poster No. 1406, 56th Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, March 6-9, 2010.

Bozic KJ, Ong K, Lau E, Kurtz S, Vail TP, Rubash HE, Berry DJ. The comparative effectiveness of total

hip arthroplasty bearing surfaces in the Medicare population. Poster No. 2356, 56th Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, March 6-9, 2010.

Ong KL, Lau E, Villarraga ML, Carreon LY, Kurtz SM, Glassman S. Evaluating off-label use of BMP in the U.S. using administrative data. 5th Annual Philadelphia Spine Research Symposium, Philadelphia PA, December 9, 2009.

Edidin AA, Ong KL, Lau E, Kurtz SM. Mortality risk for operated and non-operated vertebral compression fracture patients in the Medicare population. International Society for Fracture Repair Osteoporosis Symposium, Monaco, France, December 4-5, 2009.

Ong K, Lau E, Ianuzzi A, Kurtz S, Villarraga M. Future demand in cervical, thoracic, and lumbar spine fusions: U.S. projections to 2020. Poster No. P114, 24th Annual Meeting of the North American Spine Society, San Francisco, CA, November 10-14, 2009.

Ong K, Ianuzzi A, Zhao K, Lau E, Kurtz S. Epidemiology and in-hospital complications following interspinous process decompression device procedures in the U.S. Poster No. P118, 24th Annual Meeting of the North American Spine Society, San Francisco, CA, November 10-14, 2009.

Malkani A, Ong K, Lau E, Kurtz SM, Manley M. Short-term dislocation risk following primary hip arthroplasty in the Medicare population. Lawrence D. Dorr Award Paper, 19th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 6-8, 2009.

Bozic KJ, Ong K, Lau E, Kurtz S, Vail TP, Rubash HE, Berry DJ. The comparative effectiveness of total hip arthroplasty bearing surfaces in the Medicare population. Paper No. 1, 19th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 6-8, 2009.

Moore T, Fisher J, Heller M, Lau E, Watson H, Ong K. Occupant injury in motor vehicle collisions: Using data from medical databases. Society of Automotive Engineers 2009 World Congress, Detroit, MI, April 20-23, 2009.

Day JS, Lau E, Ong KL, Manley MT, Kurtz SM. Where is the baby boomer bulge? Projections for the incidence of hip fractures in the United States. Paper No. 228, 55th Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, February 22-25, 2009.

Edidin AA, Ong KL, Lau E, Kurtz SM. Mortality risk for operated and non-operated vertebral fracture patients in the Medicare population. Poster No. 1800, 55th Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, February 22-25, 2009.

Ong KL, Bozic KJ, Lau E, Vail TP, Rubash HE, Berry DJ, Kurtz SM. Epidemiology of metal-on-metal total hip arthroplasty and hip resurfacing arthroplasty in the U.S. Poster No. 2017, 55th Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, February 22-25, 2009.

Day JS, Lau E, Ong KL, Williams GR, Ramsey ML, Kurtz SM. Prevalence and projections for upper extremity arthroplasty in the United States. Poster No. 1927, 55th Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, February 22-25, 2009.

Ong KL, Lau E, Suggs J, Kurtz SM, Manley MT. Short-term complication risk following primary and revision total joint arthroplasty. Poster No. 2459, 55th Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, February 22-25, 2009.

Johanson NA, Keinbart R, Cerynik D, Ong KL, Lau E, Kurtz SM. Temporal relationship between knee arthroscopy and arthroplasty: A quality measure for joint care? Paper and Poster No. 367, 55th Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, February 22-25, 2009.

Ong KL, Siskey S, Bastian A, Hozack W, Puri L, Merritt P, Nogler M, Kreuzer S, Lovell T. Influence of length and medial-lateral geometry on femoral stem biomechanics. Poster No. 2411, 55th Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, February 22-25, 2009.

Bozic KJ, Kurtz SM, Lau E, Ong K, Chiu V, Vail TP, Rubash HE, Berry DJ. The epidemiology of total hip arthroplasty bearing surface use in the United States. Poster No. 2451, 55th Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, February 22-25, 2009.

Bozic KJ, Kurtz SM, Lau E, Ong K, Vail TP, Rubash HE, Berry DJ. The epidemiology of revision total knee arthroplasty in the United States. Poster No. 2471, 55th Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, February 22-25, 2009.

Day JS, Ong KL, Manley MT, Kurtz SM. A comparison of peri-prosthetic bone remodeling for extensively coated and proximally coated femoral stems. Poster No. 2247, 55th Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, February 22-25, 2009.

Ong KL, Lau E, Suggs J, Kurtz SM, Manley MT. Relative risk of subsequent revision following revision total joint arthroplasty. Poster No. 2456, 55th Annual Meeting of the Orthopaedic Research Society, Las Vegas, NV, February 22-25, 2009.

Edidin AA, Ong K, Lau E, Kurtz S. Mortality risk for operated and non-operated vertebral fracture patients in the Medicare population. Paper No. 312, 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, February 25-28, 2009.

Bozic KJ, Kurtz SM, Lau E, Ong K, Vail T, Rubash H, Berry D. The epidemiology of revision total knee arthroplasty in the United States. Scientific Exhibit No. 84, 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, February 25-28, 2009.

Kurtz SM, Lau E, Ong K, Zhao K, Kelly M, Bozic K. National projections of younger patient demand for primary and revision joint replacement. Paper No. 183, 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, February 25-28, 2009.

Ong K, Lau E, Suggs J, Manley M, Kurtz SM. Complication risk following revision hip and knee arthroplasty in the Medicare population. Paper No. 181, 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, February 25-28, 2009.

Ong K, Lau E, Mont M, Kurtz SM, Manley M. Correlation of procedure time and surgeon volume with primary knee outcomes: A Medicare study. Paper No. 252, 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, February 25-28, 2009.

Bozic KJ, Kurtz SM, Lau E, Ong K, Vail T, Rubash H, Berry D. The epidemiology of revision total knee arthroplasty in the United States. Poster No. 116, 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, February 25-28, 2009.

Bozic KJ, Kurtz S, Lau E, Ong K, Vail T, Berry D. The epidemiology of revision total hip arthroplasty in the United States. Paper No. 182, 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, February 25-28, 2009.

Bozic KJ, Kurtz SM, Lau E, Ong K, Vail T, Rubash H, Berry D. The epidemiology of THA bearing usage in the United States. Paper No. 616, 76th Annual Meeting of the American Academy of Orthopaedic Surgeons, Las Vegas, NV, February 25-28, 2009.

Kurtz SM, Lau E, Ong K, Bozic K, Parvizi J, Berry D. Prosthetic joint infection risk following total hip and knee arthroplasty in the Medicare population. Paper No. 4, 18th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 7-9, 2008.

Bozic KJ, Kurtz S, Lau E, Ong K, Vail T, Berry D. The epidemiology of revision total hip arthroplasty in the United States. Lawrence D. Dorr Award Paper, Paper No. 30, 18th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 7-9, 2008.

Kurtz SM, Lau E, Ong K, Zhao K, Kelly M, Bozic K. Young patient demand for primary and revision joint replacement: National projections from 2010 to 2030. Paper No. 31, 18th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 7-9, 2008.

Bozic KJ, Kurtz S, Lau E, Ong K, Vail T, Rubash H, Berry D. Premium bearing surface usage in total hip arthroplasty. Paper No. 41, 18th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 7-9, 2008.

Bozic KJ, Kurtz S, Lau E, Ong K, Vail TP, Rubash HE, Berry DJ. The epidemiology of revision total knee arthroplasty in the United States. Poster No. 4, 18th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 7-9, 2008.

Ong K, Lau E, Suggs J, Manley M, Kurtz SM. Relative risk of complications following revision hip and knee arthroplasty in the Medicare population. Poster No. 37, 18th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 7-9, 2008.

Berry D, Kurtz SM, Ong K, Lau E, Bozic K, Parvizi J. Incidence and risk factors for prosthetic joint infection following total knee arthroplasty in the Medicare population. 25th Annual Knee Society Interim Meeting, Denver, CO, October 2-4, 2008.

Vail T, Bozic KJ, Kurtz SM, Lau E, Ong K, Rubash H, Berry D. The epidemiology of revision total knee arthroplasty in the United States. 25th Annual Knee Society Interim Meeting, Denver, CO, October 2-4, 2008.

Kurtz S, Ong K, Lau E, Bozic K, Parvizi J. Infection incidence and risk factors following total hip and total knee arthroplasty in the U.S. Medicare population. 27th Annual Meeting of the European Bone and Joint Infection Society, Barcelona, Spain, September 18-20, 2008.

Latif AMH, Ong K, Siskey S, Field RE. A combined finite element and radiological analysis of the proximal femur following hip resurfacing arthroplasty. 2nd Prize research paper, BOA Annual Congress, Liverpool, UK, September 16-19, 2008.

Ong K, Rundell S, Liepins I, Laurent R, Markel D, Kurtz S. Biomechanical evaluation of acetabular component polyethylene stresses, fracture risk, and wear rate during press-fit implantation. Poster No. P10, 2nd Joint Meeting of the Bone Research Society and the British Orthopaedic Research Society, Manchester, UK, June 23-25, 2008.

Markel D, Day J, Siskey R, Liepins I, Kurtz S, Ong K. Deformation of metal-backed acetabular components and the impact of liner thickness in a cadaveric model. Poster No. P18, 2nd Joint Meeting of the Bone Research Society and the British Orthopaedic Research Society, Manchester, UK, June 23-25, 2008.

Ong K, Lau E, Moore T, Heller M. Characteristics of accidental falls involving re-surgery of medical implants. XXth Annual International Occupational Ergonomics and Safety Conference Chicago, IL, June 12-13, 2008.

Latif AMH, Ong KL, Siskey S, Field R. A combined finite element and radiological analysis of the proximal femur following hip resurfacing arthroplasty. Paper No. F400, 9th EFORT Congress, Nice, France, May 29-June 1, 2008.

Latif AMH, Ong KL, Siskey S, Field R. Bone remodelling in the proximal femur post hip resurfacing arthroplasty. Paper No. O-026, 17th Annual Meeting of the European Orthopaedic Research Society, Madrid, Spain, April 24-26, 2008.

Latif AMH, Ong KL, Siskey S, Field R. A combined finite element and radiological analysis of the proximal femur following hip resurfacing arthroplasty. Paper No. O-005, 17th Annual Meeting of the European Orthopaedic Research Society, Madrid, Spain, April 24-26, 2008.

Bozic K, Kurtz S, Lau E, Ong K, Vail T, Berry D. Revision total joint arthroplasty: Early insights into cause of failure, type of revision from newly implemented diagnosis and procedure codes. Paper No. 235. 54th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, March 2-5, 2008.

Kurtz S, Lau E, Ong K, Zhao K, Kelly M, Bozic K. Future young patient demand for primary and revision joint replacement: National Projections from 2010 to 2030. Poster No. 1754. 54th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, March 2-5, 2008.

Day J, Beredjiklian P, Lau E, Ong K, Kurtz S. Trends in the incidence and treatment of wrist fractures in the Medicare population. Poster No. 1026. 54th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, March 2-5, 2008.

Kurtz S, Ong K, Bartel D. Revisiting the effects of conformity, thickness, and material properties for contemporary polyethylene acetabular inserts. Poster No. 1765. 54th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, March 2-5, 2008.

Manley M, Ong K, Lau E, Kurtz S. THA and TKA survivorship in the United States Medicare population: Effect of hospital and surgeon procedure volume. Paper No. 220. 54th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, March 2-5, 2008.

Markel D, Day J, Siskey R, Liepins I, Kurtz S, Ong K. Deformation of metal-backed acetabular components and the impact of liner thickness in a cadaveric model. Poster No. 1769. 54th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, March 2-5, 2008.

Ong K, Day J, Geesink R, Manley M, Kurtz S. Biomechanical comparison of two proximally-coated femoral stems: Effects of stem length and distal finish. Poster No. 1824. 54th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, March 2-5, 2008.

Ong K, Latif A, Siskey S, Field R. A combined finite element and radiological analysis of the proximal femur following hip resurfacing arthroplasty. Poster No. 1825. 54th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, March 2-5, 2008.

Ong K, Lau E, Manley M, Kurtz S. Association between procedure duration and THA and TKA survivorship in the United States Medicare population. Poster No. 1737. 54th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, March 2-5, 2008.

Ong K, Rundell S, Liepins I, Laurent R, Markel D, Kurtz S. Biomechanical evaluation of acetabular component polyethylene stresses, fracture risk, and wear rate during press-fit implantation. Poster No. 1755. 54th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, March 2-5, 2008.

Ong K, Lau E, Ianuzzi A, Villarraga M, Kurtz S. Future demand in spine fusions: U.S. projections to 2030. Scientific Exhibit SE64. 75th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, March 5-9, 2008.

Manley M, Ong K, Lau E, Kurtz S. THA and TKA survivorship in the United States Medicare population: Effect of hospital and surgeon procedure volume. Paper 581. 75th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, March 5-9, 2008.

Kurtz S, Lau E, Manley M, Ong K. Association between procedure duration and THA and TKA survivorship in the United States Medicare population. Poster P066. 75th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Francisco, CA, March 5-9, 2008.

Ong KL, Lau E, Manley M, Kurtz SM. THA and TKA survivorship in the United States Medicare population: Effect of hospital and surgeon procedure volume. Best Poster Award, Poster No. 181. 17th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 2-4, 2007.

Ong K, Lau E, Manley M, Kurtz SM. Association between procedure duration and THA and TKA survivorship in the United States Medicare population. Paper No. 4. 17th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 2-4, 2007.

Markel D, Day J, Siskey R, Kurtz S, Ong K, Liepins I. Deformation of metal-backed acetabular components and the impact of liner thickness in a cadaveric model. Paper A3-2. 20th Annual Symposium of the International Society for Technology in Arthroplasty, Paris, October 4-6, 2007.

Ong K, Rundell S, Markel D, Kurtz S. Biomechanical evaluation of acetabular component polyethylene stresses, fracture risk, and wear rate during press-fit implantation. Poster P22. 20th Annual Symposium of the International Society for Technology in Arthroplasty, Paris, October 4-6, 2007.

Ong K, Day J, Manley M, Kurtz S. Effects of surgical variations in hip resurfacing arthroplasty. Paper C655/057. Institution of Mechanical Engineers, "Engineers & Surgeons: Joined at the Hip," London, April 19-21, 2007.

Manley M, Ong K, Kurtz S, Rushton N, Field R. Biomechanics of a PEEK horseshoe-shaped cup: Comparisons with a predicate deformable cup. Paper C655/058. Institution of Mechanical Engineers, "Engineers & Surgeons: Joined at the Hip," London, April 19-21, 2007.

Ong K, Bowden A, Manley M, Kurtz S, Munting E. Biomechanics of a stemless, metaphyseal fixation femoral design: Effects of screw fixation and interface conditions. Paper C655/059. Institution of Mechanical Engineers, "Engineers & Surgeons: Joined at the Hip," London, April 19-21, 2007.

Day J, Ong KL, Kurtz SM, Manley M. A finite element comparison of bone remodeling around bone-conserving femoral stems. Poster No. 552. Trans. 8th EFORT Congress, Florence, Italy, May 11-15, 2007.

Kurtz SM, Lau E, Havelin L, Dybvik E, Ong KL, Malchau H. Comparison of arthroplasty survivorship in the U.S. and Scandinavia. Free Paper No. F176. Trans. 8th EFORT Congress, Florence, Italy, May 11-15, 2007.

Ong KL, Day J, Kurtz SM, Field R, Manley M. Role of surgical variations on initial bone remodeling around hip resurfacing arthroplasty. Poster No. 727. Trans. 8th EFORT Congress, Florence, Italy, May 11-15, 2007.

Lau E, Kurtz SM, Havelin L, Dybvik E, Ong K, Malchau H. Arthroplasty survivorship in the US and Scandinavia: A Medicare-based comparison. Poster No. 1753. 53rd Annual Meeting of the Orthopaedic Research Society, San Diego, CA, February 11-14, 2007.

Manley M, Ong K, Kurtz SM, Rushton N, Field R. Biomechanics of a PEEK horseshoe-shaped cup: Comparisons with a predicate deformable cup. Poster No. 1717. 53rd Annual Meeting of the Orthopaedic Research Society, San Diego, CA, February 11-14, 2007.

Ong K, Bowden A, Manley M, Kurtz SM, Munting E. Biomechanics of a stemless, metaphyseal fixation femoral design: Effects of screw fixation and interface conditions. Poster No. 1714. 53rd Annual Meeting

of the Orthopaedic Research Society, San Diego, CA, February 11-14, 2007.

Ong K, Day J, Kurtz SM, Field R, Manley M. Adaptive bone remodeling around the Birmingham hip resurfacing arthroplasty. Poster No. 1693. 53rd Annual Meeting of the Orthopaedic Research Society, San Diego, CA, February 11-14, 2007.

Ong K, Day J, Kurtz SM, Field R, Manley M. Role of surgical variations on initial bone remodeling around the Birmingham resurfacing arthroplasty. Poster No. 1709. 53rd Annual Meeting of the Orthopaedic Research Society, San Diego, CA, February 11-14, 2007.

Ong K, Lau E, Kurtz SM, Chin K, Ianuzzi A, Villarraga ML. Cervical, thoracic, and lumbar fusion rates in the U.S.: Perspective from two health databases. Poster No. 1016. 53rd Annual Meeting of the Orthopaedic Research Society, San Diego, CA, February 11-14, 2007.

Ong K, Lau E, Kurtz SM, Chin K, Ianuzzi A, Villarraga ML. Projections to 2030 of the prevalence of primary and revision spine fusions in the U.S. Poster No. 1070. 53rd Annual Meeting of the Orthopaedic Research Society, San Diego, CA, February 11-14, 2007.

Ong K, Lau E, Mowat F, Saleh K, Schmier J, Kurtz SM. Projected economic burden of revision THA and TKA for Medicare enrollees in the next decade. Poster No. 0746. 53rd Annual Meeting of the Orthopaedic Research Society, San Diego, CA, February 11-14, 2007.

Kurtz SM, Lau E, Ong K, Schmier J, Parvizi J. The future infection burden in the United States: National projections from 2005 to 2030. Poster No. 0747. 53rd Annual Meeting of the Orthopaedic Research Society, San Diego, CA, February 11-14, 2007.

Day J, Ong K, Bowden A, Manley M, Kurtz SM. A finite element comparison of bone conserving femoral stems. Poster No. 1715. 53rd Annual Meeting of the Orthopaedic Research Society, San Diego, CA, February 11-14, 2007.

Ong K, Lau E, Mowat F, Saleh K, Schmier J, Kurtz SM. Projected economic burden of revision THA and TKA for Medicare enrollees in the next decade. Paper No. 22. 74th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 14-18, 2007.

Kurtz SM, Ong K, Schmier J, Mowat F, Lau E. The surgeons' revision burden: Analysis of caseload disparities in the United States (1990 to 2003). Poster No. 134. 74th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 14-18, 2007.

Kurtz SM, Ong KL, Schmier J, Mowat F, Saleh K, Malchau H, Lau E. Future clinical and economic impact of revision THA and TKA. Scientific Exhibit No. SE39. 74th Annual Meeting of the American Academy of Orthopaedic Surgeons, San Diego, CA, February 14-18, 2007.

Lau E, Kurtz SM, Ong K. Survival of hip and knee arthroplasty in the U.S. using Medicare data. Poster No. 33. 16th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 3-5, 2006.

Manley M, Ong K, Kurtz SM, Rushton N, Field R. Biomechanical assessment of a novel deformable acetabular cup design. Poster No. 188. British Hip Society 2006 Annual Meeting, Edinburgh, UK, March 1-3, 2006.

Ong K, Kurtz SM, Day J, Manley M, Rushton N, Field R. Biomechanics of the Birmingham hip resurfacing arthroplasty. Poster No. 187. British Hip Society 2006 Annual Meeting, Edinburgh, UK, March 1-3, 2006.

Kurtz SM, Lau E, Zhao K, Mowat F, Ong K, Halpern M. The future burden of hip and knee revisions: U.S. projections from 2005 to 2030. Paper No. PAPR403. 73rd Annual Meeting of the American Academy of

Orthopaedic Surgeons, Chicago, IL, March 22-26, 2006.

Ong K, Lau E, Mowat F, Kurtz SM, Chin K, Villarraga ML. Changes in revision spine fusion rates at all levels in the United States from 1990-2003. Poster No. P394. 73rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 22-26, 2006.

Ong KL, Day J, Manley M, Kurtz SM. Biomechanics of the Birmingham hip resurfacing arthroplasty. Scientific Exhibit No. SE13. 73rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 22-26, 2006.

Kurtz SM, Ong KL, Manley M. Periprosthetic bone stresses in modular acetabular components of hip replacement for young patients. Scientific Exhibit No. SE21. 73rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 22-26, 2006.

Kurtz SM, Lau E, Zhao K, Mowat F, Ong KL, Halpern M. The future burden of hip and knee revisions: U.S. projections from 2005 to 2030. Scientific Exhibit No. SE53. 73rd Annual Meeting of the American Academy of Orthopaedic Surgeons, Chicago, IL, March 22-26, 2006.

Kurtz S, Lau E, Mowat F, Ong K, Halpern M. Nationwide trends in revision surgery caseload in the U.S. from 1990-2003. Paper No. 179. 52nd Annual Meeting of the Orthopaedic Research Society, Chicago, IL, March 19-22, 2006.

Kurtz S, Lau E, Ong K, Mowat F, Halpern M. The future revision burden in the United States: National projections from 2005 to 2030. Poster No. 1576. 52nd Annual Meeting of the Orthopaedic Research Society, Chicago, IL, March 19-22, 2006.

Ong K, Day J, Manley M, Kurtz S. Biomechanics of the Birmingham hip resurfacing arthroplasty: Effects of fixation and interface conditions. Poster No. 528. 52nd Annual Meeting of the Orthopaedic Research Society, Chicago, IL, March 19-22, 2006.

Manley M, Ong K, Kurtz S, Rushton N, Field R. Biomechanical assessment of a novel deformable acetabular cup design. Poster No. 517. 52nd Annual Meeting of the Orthopaedic Research Society, Chicago, IL, March 19-22, 2006.

Kurtz S, Manley M, Ong K. Shell material properties and periprosthetic bone stresses in modular acetabular components of hip replacement for young patients. Poster No. 486. 52nd Annual Meeting of the Orthopaedic Research Society, Chicago, IL, March 19-22, 2006.

Ong K, Chin K, Lau E, Mowat F, Kurtz S, Villarraga M. Age and gender prevalence of revision spine fusion rates in the United States from 1990 to 2003. Poster No. 1265. 52nd Annual Meeting of the Orthopaedic Research Society, Chicago, IL, March 19-22, 2006.

Lau E, Ong K, Kurtz SM, Mowat F, Schmier J, Halpern M. Racial differences in hip and knee arthroplasty in the United States. Poster No. 1. 15th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 4-6, 2005.

Lau E, Mowat F, Ong K, Halpern M, Schmier J, Kurtz SM. The future burden of hip and knee revisions: U.S. projections from 2005 to 2030. Poster No. 2. 15th Annual Meeting of the American Association of Hip and Knee Surgeons, Dallas, TX, November 4-6, 2005.

Ong K, Manley M, Kurtz SM. Biomechanics of the Birmingham hip resurfacing arthroplasty. Paper A3-4. 18th International Symposium of the International Society for Technology in Arthroplasty, Kyoto, Japan, September 29-October 2, 2005.

Ong K, Chin K, Lau E, Mowat F, Kurtz SM, Villarraga ML. Age and gender prevalence of revision spine

fusion rates in the United States from 1990 to 2003. Philadelphia Spine Research Symposium, Philadelphia, PA, September 27, 2005.

Kurtz S, Mowat F, Ong K, Chan N, Lau E, Halpern M. Hip and knee arthroplasty revision rates in the United States: Implications for a national registry. Paper No. 265. 51st Annual Meeting of the Orthopaedic Research Society, Washington, DC, February 20-23, 2005.

Mowat F, Ong K, Chan N, Lau E, Halpern M, Kurtz S. Economic burden of hip and knee arthroplasty procedures in the Medicare population. Poster No. 58. 51st Annual Meeting of the Orthopaedic Research Society, Washington, DC, February 20-23, 2005.

Ong K, Villarraga M, Teti S, Sankaran M, Turner A, Seim H, Schwardt J. Vertebral augmentation with calcium phosphate cements: Bioceramic integration characteristics and compressive strength in ovine vertebral bodies. Paper No. 272. 51st Annual Meeting of the Orthopaedic Research Society, Washington, DC, February 20-23, 2005.

Kurtz SM, Mowat F, Ong K, Chan N, Lau E, Halpern M. The revision burden for hip and knee arthroplasty in the United States. Trans. 72nd Annual Meeting of the American Association of Orthopedic Surgeons, P058, 2005.

Ong K, Villarraga ML, Mazzucco D, Jaekel D, Kurtz SM, Edidin A. Mechanical properties of freshly-procured and previously-frozen human cadaveric nucleus. Trans. 72nd Annual Meeting of the American Association of Orthopedic Surgeons, P319, 2005.

Ong K, Bartel D. Extent of reamed acetabular surface roughness is critical to initial implant stability. Poster No. 1424. 50th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, March 7-10, 2004.

Ong K, Cui Z, Santner T, Notz W, Bartel D. Stochastic analysis of acetabular component stability incorporating patient-dependent and surgical variables. Poster No. 1423. 50th Annual Meeting of the Orthopaedic Research Society, San Francisco, CA, March 7-10, 2004.

Ong K, Bartel D. Bone ingrowth conditions are sensitive to the presence of trapped periacetabular fluid. Poster No. 1359. 49th Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, February 2-5, 2003.

Ong K, Bartel D. Inherent acetabular reaming variations are critical to implant stability at small interference fits. Poster No. 1360. 49th Annual Meeting of the Orthopaedic Research Society, New Orleans, LA, February 2-5, 2003.

Ong K, Gunsallus K, Notz W, Lehmann J, Santner T, Bartel D. Acetabular cup designs have more influence on mechanical stability than joint loading and surgical variations. Paper No. 190. 48th Annual Meeting of the Orthopaedic Research Society, Dallas, TX, February 10-13, 2002.

Ong K, Gunsallus K, Ryan M, Sculco T, Wright T, Bartel D. Comparison of the initial stability of hemispherical and elliptical acetabular cups. Poster No. 765. American Society of Mechanical Engineers Summer Bioengineering Conference, Snowbird, UT, June 27-July 1, 2001.

Selected Invited Seminars

Medical Literature and Trial: Views from the Experts. ABA Section of Litigation, Environmental & Energy, Mass Torts and Products Liability Litigation Committees' Joint CLE Seminar, Laguna Beach, CA, January 10-12, 2019.

Medical literature: developing a scientific defense (and offense!). DRI Drug & Medical Device Seminar,

New York, NY, May 10, 2018.

Under the watchful eye of the FDA: What do FDA warning letters tell us? Third Annual Life Sciences Legal Summit, San Francisco, CA, September 21, 2016.

Use of pharmacology to defend cases. Medmarc Medical Device Seminar, La Jolla, CA, June 8-10, 2016.

Data overload: resources for evaluating utilization, outcomes, and costs. In: Healthcare economics in orthopaedics - what you need to know. 62nd Annual Meeting of the Orthopaedic Research Society, Orlando, FL, March 6, 2016.

FDA inspections and warning letters: what can we learn from the past? 13th Annual Georgia Bio Innovation Summit, Atlanta, GA, November 20, 2015.

Under the watchful eye of the FDA: What do FDA warning letters tell us? Medmarc Medical Device Seminar, Sea Island, GA, June 10-12, 2015.

Postmarket surveillance: the truth is never simple. Readings in Epidemiology (Course no. EPID624), School of Public Health, University of Michigan, April 8, 2015.

Using design control to manage product and business risk. American Society for Quality North Jersey Section, Spring Quality Conference, Whippany, NJ, April 2, 2015.

Epidemiology of bearing surfaces. Faculty member, 8th Annual Hip and Knee Course: New Technology for the Treatment of Adult Hip and Knee Disorders, Baltimore, MD, August 15-16, 2014.

Physical therapy after TKA. Faculty member, 8th Annual Hip and Knee Course: New Technology for the Treatment of Adult Hip and Knee Disorders, Baltimore, MD, August 15-16, 2014.

Medical device registries: an overview. The Food and Drug Law Institute (FDLI) Medical devices registries webinar - Are you up to speed? August 12, 2014.

Anatomy of a successful design plan. MD&M East Conference, New York, NY, June 9-12, 2014.

Under the watchful eye of the FDA: What do FDA warning letters tell us? San Diego Regulatory Affairs Network, San Diego, CA, May 15, 2014.

Under the watchful eye of the FDA: What do FDA warning letters tell us? Duane Morris, LLP, Continuing Legal Education seminar, Philadelphia, PA, April 30, 2014.

Using design control to manage product and business risk. Design control for quality, safety and effectiveness session chair. MD&M West Conference, Anaheim, CA, February 10-13, 2014.

Under the watchful eye of the FDA: What do FDA warning letters tell us? Greenberg Traurig, LLP, Continuing Legal Education seminar, Atlanta, GA, February 5, 2014.

Trends in the burden of hip fractures - what does the past tell us? Epidemiology of hip fractures, Porto, Portugal, December 16-17, 2013.

Mortality benefits analysis of vertebral augmentation procedure. Medtronic "Meet the balloon kyphoplasty expert" Webinar Series, November 20, 2013.

Medicare morbidity and mortality risks following OVCF and interventions. Faculty member, Fragility Fracture Network of the Bone and Joint Decade, 2nd Global Congress, Berlin, Germany, August 29-31, 2013.

Bearing surfaces in total hip arthroplasty. Faculty member, 7th Annual Hip and Knee Course: Modern Techniques in Hip and Knee Reconstruction and Preservation, Baltimore, MD, August 23-24, 2013.

Practical applications of finite element analysis in biomedical product design and development. BME 5010: Bioengineering seminar, Cornell University, Ithaca, NY, September 11, 2012.

Trends in bearing surface utilization in the United States. Faculty member, 6th Annual Joint Course: New Technology for the Treatment for Adult Hip and Knee Disorders, Baltimore, MD, August 24-25, 2012.

Risk of complications, revisions, and cancer for patients with metal-on-metal bearings in the Medicare population. Faculty member, 6th Annual Joint Course: New Technology for the Treatment for Adult Hip and Knee Disorders, Baltimore, MD, August 24-25, 2012.

Using design control to manage product and business risk. Medical Device Summit seminar: Design control — Competitive advantage from concept to market and beyond, Philadelphia, PA, June 27-28, 2012.

Designing out risk: How to use the design process to manage risk. Medmarc Loss Control Webinar Series, March 21, 2012.

Trends in bearing surface utilization in the United States. Faculty member, 5th Annual Hip Joint Course: The Spectrum of Treatment for Adult Hip Disorders, Baltimore, MD, August 26-28, 2011.

Hot Topics in New and Existing Medical Device Technologies - What is on the horizon from the scientific and legal perspectives? Marshall Dennehy, Continuing Legal Education seminar, Philadelphia, PA, April 2, 2011.

Hot Topics in New and Existing Medical Device Technologies - What is on the horizon from the scientific and legal perspectives? (with Cynthia Grimes) Medmarc Medical Device Seminar, Fish Camp, CA, June 8-10, 2011.

Utilization of cost-effectiveness endpoints and data to support commercialization. 5th Annual Medical Device Clinical Research and Reimbursement Conference, Dallas, TX, March 7-8, 2011.

Dislocation rates and associated revision risk for young total hip arthroplasty patients. Faculty member, 4th Annual Hip Joint Course: Treatments for Young Patients with Hip Arthritis, Baltimore, MD, August 27-29, 2010.

Epidemiology of resurfacing in the United States. Faculty member, 4th Annual Hip Joint Course: Treatments for Young Patients with Hip Arthritis, Baltimore, MD, August 27-29, 2010.

The Nationwide Inpatient Sample (NIS) as a Source of Data on Pedestrian and Cyclist Injuries (presented by Robert Lange). Pedestrian Safety, SAE 2010, Government/Industry Meeting, Washington DC, January 26-29, 2010.

Epidemiology of hip resurfacing arthroplasty in the United States. Faculty member, 3rd Annual Hip Joint Preservation and Resurfacing Arthroplasty Course, Baltimore, MD, September 4-5, 2009.

Epidemiology of resurfacing in the United States. Faculty member, 3rd Annual Hip Joint Preservation and Resurfacing Arthroplasty Course, Baltimore, MD, September 4-5, 2009.

Understanding health outcomes: The utility of healthcare databases. Grand Rounds Lecture, Drexel University, College of Medicine, Philadelphia, PA, March 26, 2009.

Biomechanics — Concepts/Joints. Basic Science Lecture, Thomas Jefferson University, Department of Orthopaedic Surgery, Philadelphia, PA, March 16, 2009.

Use of health economics data to supplement clinical evidence. Medical Device Clinical Research and Reimbursement Conference, Phoenix, AZ, December 8-9, 2008.

Considerations for bone conserving designs and thinner cups. American Society for Testing and Materials (ASTM), "Future of Arthroplasty Standards: Planning for the Next Five Years" workshop, St. Louis, MO, November 18, 2008.

Medical device failures and premises liability — Looking into the crystal ball. Swartz Campbell LLC Continuing Legal Education seminar, Philadelphia, PA, June 3, 2008.

Hip resurfacing: Art and science as of 2008. Orthopaedic Research Society-American Academy of Orthopaedic Surgeons Combined Symposium, San Francisco, CA, March 5, 2008.

Have contemporary designs reached maturity? Faculty member, First Annual U.S. Comprehensive Course on Total Hip Resurfacing Arthroplasty, Annapolis, MD, November 8-10, 2007.

Acetabular fixation in total hip replacement. Mechanical Engineering, Cornell University, Ithaca, NY, November 8, 2002.

Finite element application: Total hip replacements. Mechanical Engineering, Cornell University, Ithaca, NY, April 11, 2002.

Mechanics of acetabular components: Effects of cup design. Arthroplasty Conference, Hospital for Special Surgery, New York, NY, December 6, 2001.

Editorships & Editorial Review Boards

The Journal of Arthroplasty

Peer Reviewer

Clinical Orthopaedics and Related Research

Clinical Medicine & Research

Computer Methods and Programs in Biomedicine

Journal of Bone and Joint Surgery

Journal of Biomedical Materials Research

Acta Biomaterialia

Medical Engineering and Physics

Journal of Arthroplasty

Journal of Orthopaedic Research

Journal of Biomechanical Engineering

Journal of Testing and Evaluations

Arthritis Care and Research

Journal of Clinical Epidemiology

Proceedings of the Institution of Mechanical Engineers, Part H, Journal of Engineering in Medicine

American Society for Testing and Materials (Special Technical Publications)

Journal of Hip Surgery

Journal of the Mechanical Behavior of Biomedical Materials