



Exponent[®]
Engineering & Scientific Consulting

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Professional Profile

Dr. Ong's expertise is product design evaluation, material selection, and failure analysis of medical devices, surgical instruments, and medical equipment, with a focus on how patient, surgical/clinical, and device/design factors influence clinical performance, including device-tissue interactions. 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. His experience with medical equipment and surgical instruments includes catheters, fluid circulating/management devices, and devices for tissue removal or anchoring/attaching purposes.

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 is active in 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, 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

Professional Engineer, Georgia, #PE039767

Professional Engineer, Michigan, #6201065563

Professional Engineer, New York, #92807

Professional Engineer, Pennsylvania, #PE077597

Professional Affiliations

Orthopaedic Research Society

American Society for Testing and Materials

Publications

Mills ES, Wang JC, Richardson MK, Alluri RK, Hah RJ, Cleary E, Lau E, Ong K, Heckmann ND. Patients with hip osteoarthritis have a higher rate of spinal reoperation following lumbar spinal fusion. J Bone Joint Surg Am 2024; 106(15):1351-1361.

Ong KL. CORR Insights®: Do the revision rates of arthroplasty surgeons correlate with postoperative patient-reported outcome measure scores? A study from the Australian Orthopaedic Association National Joint Replacement Registry. Clin Orthop Relat Res 2024; 482(1):113-114.

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Sirignano MN, Nessler JM, Rhea EB, Ong KL, Watson HN, Yakkanti MR, Malkani AL. Incidence of instability following primary total hip arthroplasty continues to decline in the Medicare population. *J Arthroplasty* 2023; 38(7S):S89-S94.

Parkulo TD, Likine EF, Ong KL, Watson HN, Smith LS, Malkani AL. Manipulation following primary total knee arthroplasty is associated with increased rates of infection and revision. *J Arthroplasty* 2023; 38(3):567-572.

Holyoak DT, Andreshak TG, Hopkins TJ, Brook AL, Frohbergh ME, Ong KL. Height restoration and sustainability using bilateral vertebral augmentation systems for vertebral compression fractures: a cadaveric study. *Spine J* 2022; 22(12): 2072-2081.

Nicholls M, Niazi F, Nelson WW, Lau E, Kurtz SM, Ong KL. Association between bio-fermentation derived hyaluronic acid and healthcare costs following knee arthroplasty. *Clinicoecon Outcomes Res* 2022; 14:575-585.

Ong KL, Coppolecchia A, Chen Z, Watson HN, Jacofsky D, Mont MA. Robotic-arm assisted total knee arthroplasty: Cost savings demonstrated at one year. *Clinicoecon Outcomes Res* 2022; 14: 309-318.

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* 2022; 35(9): 983-996.

Zura R, Anderson RB, Ahmed SS, Hak D, Watson T, Mack C, Irwin DE, Maislin G, Kelly KP, Jones JT, Wester T, Pavesio A, Ong K. EXOGEN mitigates risk of fifth metatarsal fracture nonunion: Results of a novel real-world clinical study. *Foot Ankle Orthop* 2022; 7(1): 2473011421S00517.

Nicholls M, Niazi F, Nelson WW, Lau E, Kurtz SM, Ong KL. Changes in prescription pain medication and intra-articular corticosteroid utilization after intra-articular bio-fermentation derived hyaluronic acid use in patients undergoing multimodal pain management. *J Med Econ* 2022; 25(1): 7-13.

Ong KL, Farr J, Gudeman AS, Murray IR, McIntyre LF, Hummer CD, Ngai W, Lau E, Altman RD, Sherman SL. Risk of severe acute localized reactions for different intraarticular hyaluronic acid injections in a real-world setting. *Cartilage* 2021; 13(S1): 376S-386S.

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elderly. *Spine* 2017; 42(6): E347-E354.

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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.

Edidin 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.

Edidin 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
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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.

Edidin 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, Edidin 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.

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. 1207.1, Cardiovascular and Interventional Radiological Society of Europe, Valencia, Spain, October 2-6, 2010.

Edidin 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.

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. 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, Cerny 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.

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