

Jayme Koltsov, PhD

Biostatistician 3, Orthopaedic Surgery

Bio

BIO

Dr. Koltsov is an expert in clinical and translational orthopaedic research design and biostatistics with an incredibly unique and valuable combination of skill-sets. Her foundation from her Ph.D. in orthopaedic biomechanics provides an understanding of the underlying anatomy, pathology, and mechanics not typical for a biostatistician. This background empowers effective and efficient communication with clinicians and scientists and enables Dr. Koltsov to develop study designs and analytic strategies exceptionally tailored to the physical orthopaedic problems under investigation.

Dr. Koltsov has an extensive knowledge base in research methodology and statistical methods honed from her PhD onward, including univariate statistics (parametric, non-parametric, and categorical); survival analysis (Kaplan Meier and Cox proportional hazards); multivariable and longitudinal data analyses (logistic regression, generalized linear modeling, linear mixed models, and generalized estimating equations); quasi-experimental techniques for reducing bias (propensity score matching and inverse probability treatment weighting); patient reported outcome design and validation; and healthcare economic analysis. Over the past 6 years, Dr. Koltsov has developed a successful track record of collaborations with clinicians and scientists to lead and facilitate high-quality clinical, translational, and health services research spanning multiple orthopaedic disciplines, including spine, arthroplasty, foot and ankle, upper extremity, trauma, sports medicine, pediatrics, rheumatology, rehabilitation, and biomechanics.

HONORS AND AWARDS

- Best Paper Nomination, International Society for the Study of the Lumbar Spine (ISSLS) (2019)
- Best Paper Nomination, International Meeting on Advanced Spine Techniques (IMAST) (2019)
- Young Investigator Travel Award, International Society for the Study of the Lumbar Spine (ISSLS) (2018)
- Annual Meeting Best Paper Session, North American Spine Society (NASS) (2017)
- Award for Best Mock Grant Proposal, Weill Cornell Medical College Clinical & Translational Science Center (CTSC) (2015)
- Otto Aufranc Paper Award, The Hip Society (2015)
- Travel Award, Weill Cornell Medical College Clinical & Translational Science Center (CTSC) (2015)
- Ralph Bolgiano, Sr. Outstanding Teaching Assistant Award, Cornell University Sibley School of Mechanical & Aerospace Engineering (2011)
- Graduate Research Fellowship, National Science Foundation (NSF) (2007-2010)
- Graduate Fellowship, Cornell University (2006-2007)

EDUCATION AND CERTIFICATIONS

- MS, Weill Cornell Medical College , Clinical & Translational Investigation (2016)
- PhD, Cornell University , Mechanical Engineering (2013)
- MS, Cornell University , Mechanical Engineering (2009)
- BS, University of California at Berkeley , Mechanical Engineering (with Honors) (2006)

LINKS

- My NCBI Bibliography (complete list of published work): https://www.ncbi.nlm.nih.gov/sites/myncbi/1bctCwj_O9cAw/bibliography/47869290/public/?sort=date&direction=ascending

Professional

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Founder & Chair, Stanford Medicine Biostatisticians (2023 - present)
- Statistics & Methodology Reviewer, Orthopaedic Surgery Clinical Research Unit (2020 - present)
- Review Panel, Resident Clinician Scientist Training Grants, Orthopaedic Research and Education Foundation (OREF) (2017 - present)
- Reviewer, Spine (2017 - present)
- Member, Clinical Review Panel, Hospital for Special Surgery Department of Radiology (2016 - 2016)
- Alternate Member, Institutional Animal Care and Use Committee, Weill Cornell Medical College (2015 - 2016)
- Member, Clinical Review Panel, Hospital for Special Surgery Department of Anesthesiology (2014 - 2016)

Publications

PUBLICATIONS

- **Patient-Level Patterns in Daily Prescribed Opioid Dosage in Single Level Lumbar Fusion are Associated with Postoperative Opioid Dosage and Adverse Events: A Retrospective Analysis of Claims Data.** *The spine journal : official journal of the North American Spine Society*
Koltsov, J. C., Sambare, T. D., Kleimeyer, J. P., Alamin, T. F., Wood, K. B., Carragee, E. J., Hu, S. S.
2024
- **Primary Total Hip Arthroplasty in Juvenile Idiopathic Arthritis: Survivorship after a Median Follow-up of 12 Years.** *The Journal of arthroplasty*
Warren, S. I., Hwang, K. L., Lee, J. J., Murrietta, A., Koltsov, J. C., Goodman, S. B.
2023
- **Contextual Determinants of Time to Surgery for Patients With Hip Fracture.** *JAMA network open*
Welch, J. M., Gomez, G. I., Chatterjee, M., Shapiro, L. M., Morris, A. M., Gardner, M. J., Sox-Harris, A. H., Baker, L., Koltsov, J. C., Castillo, T., Giori, N., Salyapongse, A., Kamal, et al
2023; 6 (12): e2347834
- **Using 3D MRI Bone Shape to Predict Pre-Osteoarthritis of the Knee 2 Years After Anterior Cruciate Ligament Reconstruction.** *The American journal of sports medicine*
Williams, A. A., Koltsov, J. C., Brett, A., He, J., Chu, C. R.
2023: 3635465231207615
- **Validation of Inertial Measurement Units for Analyzing Golf Swing Rotational Biomechanics.** *Sensors (Basel, Switzerland)*
Kim, S. E., Burket Koltsov, J. C., Richards, A. W., Zhou, J., Schadl, K., Ladd, A. L., Rose, J.
2023; 23 (20)
- **Polymethyl methacrylate augmentation and proximal junctional kyphosis in adult spinal deformity patients.** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*
Bartolozzi, A. R., Oquendo, Y. A., Koltsov, J. C., Alamin, T. F., Wood, K. B., Cheng, I., Hu, S. S.
2023
- **The Influence of Race, Income, and Sex on Treatment and Complications of Common Pediatric Fractures** *ORTHOPEDICS*
Montgomery, B. K., Joseph, G., Segovia, N., Koltsov, J., Thomas, T. L., Vorhies, J. S., Tileston, K. R.
2023; 46 (3): E156-+
- **Patient-Level Payment Patterns Prior to Single Level Lumbar Decompression are Associated with Resource Utilization, Postoperative Payments, and Adverse Events.** *The spine journal : official journal of the North American Spine Society*
Koltsov, J. C., Sambare, T. D., Alamin, T. F., Wood, K. B., Cheng, I., Hu, S. S.
2022

- **Complication risks and costs associated with Ponte osteotomies in surgical treatment of adolescent idiopathic scoliosis: insights from a national database.** *Spine deformity*
Shaheen, M., Koltsov, J. C., Cohen, S. A., Langner, J. L., Kaur, J., Segovia, N. A., Vorhies, J. S.
2022
- **Healthcare Resource Utilization and Costs Two Years Pre and Post Lumbar Spine Surgery for Stenosis: A National Claims Cohort Study of 22,182 Cases.** *The spine journal : official journal of the North American Spine Society*
Koltsov, J. C., Sambare, T. D., Alamin, T. F., Wood, K. B., Cheng, I., Hu, S. S.
2022
- **Does Navigation Make Spinal Fusion for Adolescent Idiopathic Scoliosis Safer? Insights From a National Database.** *Spine*
Kaur, J., Koltsov, J. C., Kwong, J. W., Cheng, I., Vorhies, J. S.
2021; 46 (19): E1049-E1057
- **One surgeon's learning curve with single position lateral lumbar interbody fusion: perioperative outcomes and complications.** *Journal of spine surgery (Hong Kong)*
Warren, S. I., Wadhwa, H., Koltsov, J. C., Michaud, J. B., Cheng, I.
2021; 7 (2): 162-169
- **Tranexamic acid does not affect intraoperative blood loss or in-hospital outcomes after acetabular fracture surgery.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
Wadhwa, H., Tigchelaar, S. S., Chen, M. J., Koltsov, J. C., Bellino, M. J., Bishop, J. A., Gardner, M. J.
2021
- **Extensor Digitorum Brevis Bulk and Associations with Fibular Motor Nerve Conduction Amplitude.** *PM & R : the journal of injury, function, and rehabilitation*
Levin, J., Lowe, A., Tamura, L., Miller, E., Koltsov, J., Kenrick, A., Barrette, K., Richardson, J.
2021
- **Rod-Screw Constructs Composed of Dissimilar Metals Do Not Affect Complication Rates in Posterior Fusion Surgery Performed for Adult Spinal Deformity.** *Clinical spine surgery*
Denduluri, S. K., Koltsov, J. C., Ziino, C. n., Segovia, N. n., McMains, C. n., Falakassa, J. n., Ratliff, J. n., Wood, K. B., Alamin, T. n., Cheng, I. n., Hu, S. S.
2021; 34 (2): E121-E125
- **Advanced Age Does Not Impact Outcomes After 1-level or 2-level Lateral Lumbar Interbody Fusion.** *Clinical spine surgery*
Wadhwa, H., Oquendo, Y. A., Tigchelaar, S. S., Warren, S. I., Koltsov, J. C., Desai, A., Veeravagu, A., Alamin, T. F., Ratliff, J. K., Hu, S. S., Cheng, I.
2021
- **Rod-Screw Constructs Composed of Dissimilar Metals Do Not Affect Complication Rates in Posterior Fusion Surgery Performed for Adult Spinal Deformity.** *Clinical spine surgery*
Denduluri, S. K., Koltsov, J. C., Ziino, C., Segovia, N., McMains, C., Falakassa, J., Ratliff, J., Wood, K. B., Alamin, T., Cheng, I., Hu, S. S.
2020
- **Preoperative epidural steroid injections are not associated with increased rates of infection and dural tear in lumbar spine surgery.** *European spine journal : official publication of the European Spine Society, the European Spinal Deformity Society, and the European Section of the Cervical Spine Research Society*
Koltsov, J. C., Smuck, M. W., Alamin, T. F., Wood, K. B., Cheng, I., Hu, S. S.
2020
- **Cervical Epidural Steroid Injections: Incidence and Determinants of Subsequent Surgery.** *The spine journal : official journal of the North American Spine Society*
Kleimeyer, J. P., Koltsov, J. C., Smuck, M. W., Wood, K. B., Cheng, I., Hu, S. S.
2020
- **Single Assessment Numeric Evaluation (SANE) in Hand Surgery: Does a One-Question Outcome Instrument Compare Favorably?** *The Journal of hand surgery*
Gire, J. D., Koltsov, J. C., Segovia, N. A., Kenney, D. E., Yao, J., Ladd, A. L.
2020
- **Local anesthetic with sedation is a viable alternative to general anesthesia for lumbar spinal decompressions: A retrospective cohort feasibility study and short-term analysis of outcomes** *CURRENT ORTHOPAEDIC PRACTICE*

-
- Ziino, C., Guzman, R. A., Koltsov, J., Montgomery, B. K., McMains, C., Alamin, T.
2020; 31 (3): 252–57
- **Cost-effectiveness of Operative Versus Non-operative Management of Acute Achilles Tendon Ruptures.** *HSS journal : the musculoskeletal journal of Hospital for Special Surgery*
Koltsov, J. C., Gribbin, C. n., Ellis, S. J., Nwachukwu, B. U.
2020; 16 (1): 39–45
 - **Computer-assisted surgical navigation is associated with an increased risk of neurological complications: a review of 67,264 posterolateral lumbar fusion cases.** *Journal of spine surgery (Hong Kong)*
Ajiboye, R. M., Koltsov, J. C., Karamian, B., Swinford, S., Montgomery, B. K., Arzeno, A., Ziino, C., Cheng, I.
2019; 5 (4): 457–65
 - **A Prospective, Psychometric Validation of National Institutes of Health Patient-Reported Outcomes Measurement Information System Physical Function, Pain Interference, and Upper Extremity Computer Adaptive Testing in Cervical Spine Patients: Successes and Key Limitations.** *Spine*
Iyer, S., Koltsov, J. C., Steinhilber, M., Ross, T., Stein, D., Yang, J., LaFage, V., Albert, T., Kim, H. J.
2019; 44 (22): 1539–49
 - **Short-Term Outcomes of Staged Versus Same-Day Surgery for Adult Spinal Deformity Correction.** *Spine deformity*
Arzeno, A. H., Koltsov, J., Alamin, T. F., Cheng, I., Wood, K. B., Hu, S. S.
2019; 7 (5): 796–804
 - **Short-Term Outcomes of Staged Versus Same-Day Surgery for Adult Spinal Deformity Correction.** *Spine deformity*
Arzeno, A. H., Koltsov, J., Alamin, T. F., Cheng, I., Wood, K. B., Hu, S. S.
2019; 7 (5): 796
 - **Platelet-Rich Plasma (PRP) From Older Males With Knee Osteoarthritis Depresses Chondrocyte Metabolism and Upregulates Inflammation** *JOURNAL OF ORTHOPAEDIC RESEARCH*
O'Donnell, C., Migliore, E., Grandi, F., Koltsov, J., Lingampalli, N., Cisar, C., Indelli, P. F., Sebastiano, V., Robinson, W. H., Bhutani, N., Chu, C. R.
2019; 37 (8): 1760–70
 - **Decreased estimated blood loss in lateral trans-psoas versus anterior approach to lumbar interbody fusion for degenerative spondylolisthesis.** *Journal of spine surgery (Hong Kong)*
Goodnough, L. H., Koltsov, J., Wang, T., Xiong, G., Nathan, K., Cheng, I.
2019; 5 (2): 185–93
 - **Platelet-Rich Plasma (PRP) from Older Males with Knee Osteoarthritis Depresses Chondrocyte Metabolism and Upregulates Inflammation.** *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*
O'Donnell, C., Migliore, E., Grandi, F. C., Koltsov, J., Lingampalli, N., Cisar, C., Indelli, P. F., Sebastiano, V., Robinson, W. H., Bhutani, N., Chu, C. R.
2019
 - **Lumbar epidural steroid injections for herniation and stenosis: incidence and risk factors of subsequent surgery** *SPINE JOURNAL*
Koltsov, J. B., Smuck, M. W., Zagel, A., Alamin, T. F., Wood, K. B., Cheng, I., Hu, S. S.
2019; 19 (2): 199–205
 - **The Effects of Varenicline on Lumbar Spinal Fusion in a Rat Model.** *The spine journal : official journal of the North American Spine Society*
Kang, J. n., Glaeser, J. D., Karamian, B. n., Kanim, L. n., NaPier, Z. n., Koltsov, J. n., Thio, T. n., Salehi, K. n., Bae, H. W., Cheng, I. n.
2019
 - **Have large femoral heads reduced prosthetic impingement in total hip arthroplasty?** *HIP INTERNATIONAL*
Waddell, B. S., Koch, C., Trivellas, M., Burket, J. C., Wright, T., Padgett, D.
2019; 29 (1): 83–88
 - **Single position versus lateral-then-prone positioning for lateral interbody fusion and pedicle screw fixation.** *Journal of spine surgery (Hong Kong)*
Ziino, C., Konopka, J. A., Ajiboye, R. M., Ledesma, J. B., Koltsov, J. C., Cheng, I.
2018; 4 (4): 717–24
 - **Evaluation of peritalar subluxation in adult acquired flatfoot deformity using computed tomography and weightbearing multiplanar imaging** *FOOT AND ANKLE SURGERY*
Kunas, G. C., Probasco, W., Haleem, A. M., Burket, J. C., Williamson, E. C., Ellis, S. J.
2018; 24 (6): 495–500
-

- **Risk-Based Hospital and Surgeon-Volume Categories for Total Hip Arthroplasty** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Koltsov, J. B., Marx, R. G., Bachner, E., McLawhorn, A. S., Lyman, S.
2018; 100 (14): 1203–8
- **The Root-Ely Modified Test of Rectus Femoris Spasticity Has Reliability in Individuals with Cerebral Palsy.** *HSS journal : the musculoskeletal journal of Hospital for Special Surgery*
Drefus, L. C., Clarke, S., Resnik, K., Koltsov, J., Dodwell, E. R., Scher, D. M.
2018; 14 (2): 143–47
- **Lumbar Epidural Steroid Injections for Herniation and Stenosis: Incidence and Risk Factors of Subsequent Surgery.** *The spine journal : official journal of the North American Spine Society*
Koltsov, J. C., Smuck, M. W., Zagel, A., Alamin, T. F., Wood, K. B., Cheng, I., Hu, S. S.
2018
- **Feasibility, Validity, and Reliability of the 10-item Patient Reported Outcomes Measurement Information System Global Health Short Form in Outpatients with Systemic Lupus Erythematosus** *JOURNAL OF RHEUMATOLOGY*
Kasturi, S., Szymonifka, J., Burket, J. C., Berman, J. R., Kirou, K. A., Levine, A. B., Sammaritano, L. R., Mandl, L. A.
2018; 45 (3): 397–404
- **Men and Women Differ in the Biochemical Composition of Platelet-Rich Plasma** *AMERICAN JOURNAL OF SPORTS MEDICINE*
Xiong, G., Lingampalli, N., Koltsov, J. B., Leung, L. L., Bhutani, N., Robinson, W. H., Chu, C. R.
2018; 46 (2): 409–19
- **Tarsometatarsal joint communication during fluoroscopy-guided therapeutic joint injections and relationship with patient age and degree of osteoarthritis** *SKELETAL RADIOLOGY*
Endo, Y., Nwawka, O., Smith, S., Burket, J. C.
2018; 47 (2): 271–77
- **Influence of Diagnosis and Other Factors on Patients' Expectations of Foot and Ankle Surgery.** *Foot & ankle international*
Cody, E. A., Do, H. T., Koltsov, J. C., Mancuso, C. A., Ellis, S. J.
2018; 39 (6): 641–48
- **Preoperative Physical Therapy Education Reduces Time to Meet Functional Milestones After Total Joint Arthroplasty** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Soeters, R., White, P. B., Murray-Weir, M., Koltsov, J. B., Alexiades, M. M., Ranawat, A. S., Hip Knee Surgeons Writing Comm
2018; 476 (1): 40–48
- **Neurologic adverse event avoidance in lateral lumbar interbody fusion: technical considerations using muscle relaxants.** *Journal of spine surgery (Hong Kong)*
Fogel, G. R., Rosen, L. n., Koltsov, J. C., Cheng, I. n.
2018; 4 (2): 247–53
- **Total hip arthroplasty in young patients with post-traumatic arthritis of the hip** *HIP INTERNATIONAL*
Swarup, I., Sutherland, R., Burket, J. C., Figgie, M. P.
2017; 27 (6): 546–50
- **Validity and Reliability of Patient Reported Outcomes Measurement Information System Computerized Adaptive Tests in Systemic Lupus Erythematosus** *JOURNAL OF RHEUMATOLOGY*
Kasturi, S., Szymonifka, J., Burket, J. C., Berman, J. R., Kirou, K. A., Levine, A. B., Sammaritano, L. R., Mandl, L. A.
2017; 44 (7): 1024–31
- **Retrieval Analysis of Neck-Stem Coupling in Modular Hip Prostheses** *JOURNAL OF ARTHROPLASTY*
Su, S. L., Koch, C. N., Nguyen, T. M., Burket, J. C., Wright, T. M., Westrich, G. H.
2017; 32 (7): 2301–6
- **Outcomes after total hip arthroplasty in young patients with osteonecrosis of the hip** *HIP INTERNATIONAL*
Swarup, I., Shields, M., Mayer, E. N., Hendow, C. J., Burket, J. C., Figgie, M. P.
2017; 27 (3): 286–92
- **Single-Level Lateral Lumbar Interbody Fusion for the Treatment of Adjacent Segment Disease** *SPINE*
Aichmair, A., Alimi, M., Hughes, A. P., Sama, A. A., Du, J. Y., Hartl, R., Burket, J. C., Lampe, L. P., Cammisia, F. P., Girardi, F. P.

2017; 42 (9): E515–E522

- **Patient Factors Associated With Higher Expectations From Foot and Ankle Surgery** *FOOT & ANKLE INTERNATIONAL*
Cody, E. A., Mancuso, C. A., Burket, J. C., Marinescu, A., MacMahon, A., Ellis, S. J., HSS Orthopaedic Foot Ankle Surg
2017; 38 (5): 472–78
- **Fretting and Corrosion at the Backside of Modular Cobalt Chromium Acetabular Inserts: A Retrieval Analysis** *JOURNAL OF ARTHROPLASTY*
Tarity, T., Koch, C. N., Burket, J. C., Wright, T. M., Westrich, G. H.
2017; 32 (3): 1033–39
- **Validation of Patient-Reported Outcomes Measurement Information System Computerized Adaptive Tests Against the Foot and Ankle Outcome Score for 6 Common Foot and Ankle Pathologies.** *Foot & ankle international*
Koltsov, J. C., Greenfield, S. T., Soukup, D. n., Do, H. T., Ellis, S. J.
2017; 38 (8): 870–78
- **Crosslink Density Is Reduced and Oxidation Is Increased in Retrieved Highly Crosslinked Polyethylene TKA Tibial Inserts**
Liu, T., Esposito, C. I., Burket, J. C., Wright, T. M.
LIPPINCOTT WILLIAMS & WILKINS.2017: 128–36
- **Development of an Expectations Survey for Patients Undergoing Foot and Ankle Surgery** *FOOT & ANKLE INTERNATIONAL*
Cody, E. A., Mancuso, C. A., MacMahon, A., Marinescu, A., Burket, J. C., Drakos, M. C., Roberts, M. M., Ellis, S. J.
2016; 37 (12): 1277–84
- **Microbiologic profile of infections in presumed aseptic revision spine surgery** *EUROPEAN SPINE JOURNAL*
Shifflett, G. D., Bjerke-Kroll, B. T., Nwachukwu, B. U., Kueper, J., Burket, J., Sama, A. A., Girardi, F. P., Cammisa, F. P., Hughes, A. P.
2016; 25 (12): 3902–7
- **The Quality of Open-Access Video-Based Orthopaedic Instructional Content for the Shoulder Physical Exam is Inconsistent.** *HSS journal : the musculoskeletal journal of Hospital for Special Surgery*
Urch, E., Taylor, S. A., Cody, E., Fabricant, P. D., Burket, J. C., O'Brien, S. J., Dines, D. M., Dines, J. S.
2016; 12 (3): 209–15
- **Effects on the Tarsal Tunnel Following Malerba Z-type Osteotomy Compared to Standard Lateralizing Calcaneal Osteotomy** *FOOT & ANKLE INTERNATIONAL*
Cody, E. A., Greditzer, H. G., MacMahon, A., Burket, J. C., Sofka, C. M., Ellis, S. J.
2016; 37 (9): 1017–22
- **Correlation of Talar Anatomy and Subtalar Joint Alignment on Weightbearing Computed Tomography With Radiographic Flatfoot Parameters** *FOOT & ANKLE INTERNATIONAL*
Cody, E. A., Williamson, E. R., Burket, J. C., Deland, J. T., Ellis, S. J.
2016; 37 (8): 874–81
- **Return to Sports and Physical Activities After Primary Partial Arthrodesis for Lisfranc Injuries in Young Patients** *FOOT & ANKLE INTERNATIONAL*
MacMahon, A., Kim, P., Levine, D. S., Burket, J., Roberts, M. M., Drakos, M. C., Deland, J. T., Elliott, A. J., Ellis, S. J.
2016; 37 (4): 355–62
- **Return to Sports and Physical Activities After the Modified Lapidus Procedure for Hallux Valgus in Young Patients** *FOOT & ANKLE INTERNATIONAL*
MacMahon, A., Karbassi, J., Burket, J. C., Elliott, A. J., Levine, D. S., Roberts, M. M., Deland, J. T., O'Malley, M. J., Yu, J., Mancuso, C. A., Ellis, S. J.
2016; 37 (4): 378–85
- **Evaluation of Physical Examination Tests for Thumb Basal Joint Osteoarthritis.** *Hand (New York, N.Y.)*
Model, Z., Liu, A. Y., Kang, L., Wolfe, S. W., Burket, J. C., Lee, S. K.
2016; 11 (1): 108–12
- **Altered distributions of bone tissue mineral and collagen properties in women with fragility fractures** *BONE*
Wang, Z., Lloyd, A. A., Burket, J. C., Gourion-Arsiquaud, S., Donnelly, E.
2016; 84: 237–44
- **Effect of Obesity on Clinical and Radiographic Outcomes Following Reconstruction of Stage II Adult Acquired Flatfoot Deformity** *FOOT & ANKLE INTERNATIONAL*
Soukup, D. S., MacMahon, A., Burket, J. C., Yu, J. M., Ellis, S. J., Deland, J. T.

2016; 37 (3): 245–54

- **Otto Aufranc Award: Large Heads Do Not Increase Damage at the Head-neck Taper of Metal-on-polyethylene Total Hip Arthroplasties** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Triantafyllopoulos, G. K., Elpers, M. E., Burket, J. C., Esposito, C. I., Padgett, D. E., Wright, T. M.
2016; 474 (2): 330–38
- **The value of intraoperative Gram stain in revision spine surgery** *SPINE JOURNAL*
Shifflett, G. D., Nwachukwu, B. U., Bjerke-Kroll, B. T., Kueper, J., Koltsov, J. B., Sama, A. A., Girardi, F. P., Cammisa, F. P., Hughes, A. P.
2015; 15 (10): 2198–2205
- **Intermittent Parathyroid Hormone Enhances Cancellous Osseointegration of a Novel Murine Tibial Implant** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Yang, X., Ricciardi, B. F., Dvorzhinskiy, A., Brial, C., Lane, Z., Bhimani, S., Burket, J. C., Hu, B., Sarkisian, A. M., Ross, F., van der Meulen, M. H., Bostrom, M. G.
2015; 97A (13): 1074–83
- **Risk for Complication after Total Joint Arthroplasty at a Center of Excellence: The Impact of Patient Travel Distance** *JOURNAL OF ARTHROPLASTY*
Nwachukwu, B. U., Dy, C. J., Burket, J. C., Padgett, D. E., Lyman, S.
2015; 30 (6): 1058–61
- **New Radiographic Parameter Assessing Hindfoot Alignment in Stage II Adult-Acquired Flatfoot Deformity** *FOOT & ANKLE INTERNATIONAL*
Williamson, E. R., Chan, J. Y., Burket, J. C., Deland, J. T., Ellis, S. J.
2015; 36 (4): 417–423
- **Ankle Fracture Spur Sign Is Pathognomonic for a Variant Ankle Fracture** *FOOT & ANKLE INTERNATIONAL*
Hinds, R. M., Garner, M. R., Lazaro, L. E., Warner, S. J., Loftus, M. L., Birnbaum, J. F., Burket, J. C., Lorch, D. G.
2015; 36 (2): 159–64
- **Psoriatic Arthritis is Associated with Heterotopic Ossification after Total Hip Arthroplasty.**
Cedillo, M., Fein, A., Goodman, S. M., Zhu, R., Figgie, M. P., Alexiades, M., Burket, J. C., Mandl, L. A.
WILEY-BLACKWELL.2014: S1298
- **Revision Arthroplasty in Rheumatoid and Osteoarthritis: Does Methotrexate Decrease Radiographic Lucency in RA Patients?**
Wei, M., Mintz, D. N., Mandl, L. A., Fein, A., Burket, J. C., Lee, Y., Huang, W., Byrker, V. P., Figgie, M. P., DiCarlo, E. F., Cronstein, B. N., Goodman, S. M.
WILEY-BLACKWELL.2014: S79
- **Microdiscectomy for the treatment of lumbar disc herniation: an evaluation of reoperations and long-term outcomes.** *Evidence-based spine-care journal*
Aichmair, A., Du, J. Y., Shue, J., Evangelisti, G., Sama, A. A., Hughes, A. P., Lebl, D. R., Burket, J. C., Cammisa, F. P., Girardi, F. P.
2014; 5 (2): 77–86
- **Risk Factors for Posttraumatic Synostosis and Outcomes Following Operative Treatment of Ankle Fractures** *FOOT & ANKLE INTERNATIONAL*
Hinds, R. M., Lazaro, L. E., Burket, J. C., Lorch, D. G.
2014; 35 (2): 141–47
- **Variations in nanomechanical properties and tissue composition within trabeculae from an ovine model of osteoporosis and treatment** *BONE*
Burket, J. C., Brooks, D. J., MacLeay, J. M., Baker, S. P., Boskey, A. L., van der Meulen, M. H.
2013; 52 (1): 326–36
- **Microstructure and nanomechanical properties in osteons relate to tissue and animal age** *JOURNAL OF BIOMECHANICS*
Burket, J., Gourion-Arsiquaud, S., Havill, L. M., Baker, S. P., Boskey, A. L., van der Meulen, M. H.
2011; 44 (2): 277–84
- **Spatial Variation in Osteonal Bone Properties Relative to Tissue and Animal Age** *JOURNAL OF BONE AND MINERAL RESEARCH*
Gourion-Arsiquaud, S., Burket, J. C., Havill, L. M., DiCarlo, E., Doty, S. B., Mendelsohn, R., van der Meulen, M. H., Boskey, A. L.
2009; 24 (7): 1271–81