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| **JRSI Foundation—Peer Reviewed Manuscripts**1. **Small SR, Rogge RB, Malinzak RA, Reyes EM, Cook PL\*, Farley KA\*, Ritter MA.**Micromotion at the Tibial Plateau in Primary and Revision Total Knee Arthroplasty: Fixed Versus Rotating Platform Designs. *Bone & Joint Research; 5(4):122-9, 2016.*[Abstract](http://www.ncbi.nlm.nih.gov/pubmed/27095658)
2. **Tokunaga S\*, Rogge RD, Small SR, Berend ME, Ritter MA.** Factors Influencing Tibial Loading Following Total Knee Arthroplasty: A Finite Element Study of Metal Backing and Tibial Resection Depth in a Composite Tibia. *Journal of Biomechanical Engineering*; 138(4), 2016. [Abstract](http://www.ncbi.nlm.nih.gov/pubmed/26810930)
3. **Gergely R\*, Toohey KT, Jones ME\*, Small SR, Berend ME.** Towards the Optimization of Preparation Procedures of PMMA Bone Cement. *Journal of Orthopaedic Research (In Press), 2016.*[Abstract](http://www.ncbi.nlm.nih.gov/pubmed/26573962/?ncbi_mmode=std)
4. **Pierson JL, Small SR, Rodriguez JA, Kang MN, Glassman AH.**The Effect of Taper Angle and Spline Geometry on the Initial Stability of Tapered, Splined Modular Titanium Stems. *Journal of Arthroplasty*; 30(7):1254-9, 2015. [Abstract](http://www.ncbi.nlm.nih.gov/pubmed/25754255)
5. **Ritter MA, Davis KE, Small SR, Merchun JG\*.**Trabecular Bone Density of the Proximal Tibia as it Relates to Failure of Total Knee Replacement.*The Bone & Joint Journal*; 96-B(11):1503-9, 2014. [Abstract](http://www.ncbi.nlm.nih.gov/pubmed/25371464)
6. **Malinzak RA, Small SR, Rogge RD, Archer DB\*, Oja JW\*, Berend ME, Ritter MA.**The Effect of Rotating Platform TKA on Strain Distribution and Torque Transmission on the Proximal Tibia. *Journal of Arthroplasty*; 29(3):541-7, 2014.[Abstract](http://www.ncbi.nlm.nih.gov/pubmed/24290741)
7. **Small SR, Ritter MA, Merchun JG\*, Davis KE, Rogge RD.** Changes in Tibial Density in Cemented and Uncemented TKA at Ten-year Follow-up. *The Bone & Joint Journal*; 95-B(7):911-6, 2013. [Abstract](http://www.ncbi.nlm.nih.gov/pubmed/23814242)
8. **Small SR, Berend ME, Rogge RD, Archer DB\*, Kingman AL\*, Ritter MA.** Tibial Loading after UKA: Evaluation of Tibial Slope, Resection Depth, Medial Shift and Component Rotation. *Journal of Arthroplasty*; 28(9 Suppl):179-83, 2013.[Abstract](http://www.ncbi.nlm.nih.gov/pubmed/23518429)
9. **Small SR, Berend ME, Howard LA\*, Rogge RD, Buckley CA, Ritter MA**.  High Initial Stability in Porous Titanium Acetabular Cups: A Biomechanical Study. *Journal of Arthroplasty*; 28(3):510-6, 2013. [Abstract](http://www.ncbi.nlm.nih.gov/pubmed/23142455)
10. **Meding JB, Small SR, Jones ME\*, Berend ME, Ritter MA.** Acetabular Cup Design Influences Deformational Response in Total Hip Arthroplasty. *Clinical Orthopaedics and Related Research*; 471(2):403-9, 2013. [Abstract](http://www.ncbi.nlm.nih.gov/pubmed/22948528)
11. **Small SR, Berend ME, Howard LA\*, Tunc D\*, Buckley CA, Ritter MA.** Acetabular Cup Stiffness and Implant Orientation Change Acetabular Loading Patterns in THA. *Journal of Arthroplasty*; 28(2) 359-67, 2013. [Abstract](http://www.ncbi.nlm.nih.gov/pubmed/22854350)
12. **Small SR, Berend ME, Ritter MA, Buckley CA, Rogge RD.** Metal Backing Significantly Reduces Tibial Strain in a Medial Unicompartmental Knee Arthroplasty Model. *Journal of Arthroplasty*; 26(5): 777-82,2011*.* [Abstract](http://www.ncbi.nlm.nih.gov/pubmed/20870385)
13. **Meneghini RM, Stultz AD\*, Watson JS\*, Ziemba-Davis M, Buckley CA.** Does Ischial Screw Fixation Improve Mechanical Stability in Revision Total Hip Arthroplasty?.*Journal of Arthroplasty*; 25(7):1157-61, 2010. [Abstract](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Stultz%20AD%22%5bAuthor%5d&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus)
14. **Small SR, Berend ME, Ritter MA, Buckley CA**. A Comparison in Proximal Tibial Strain Between Metal Backed and All Polyethylene AGC Total Knee Arthroplasty Tibial Components. *Journal of Arthroplasty*; 25(5):820-5, 2010*.*[Abstract](http://www.ncbi.nlm.nih.gov/pubmed/20638615)
15. **Small SR, Berend ME, Ritter MA, Buckley CA.** Bearing Mobility Affects Tibial Strain in Mobile Bearing Unicompartmental Knee Arthroplasty. *Surgical Technology International*;19:185-90, 2010*.* [Abstract](http://www.ncbi.nlm.nih.gov/pubmed/20437363)
16. **Berend ME, Small SR, Ritter MA, Buckley CA.** The Effects of Bone Resection Depth and Malalignment on Strain in the Proximal Tibia Following TKA. *Journal of Arthroplasty*; 25(2):314-8, 2010.   [Abstract](http://www.ncbi.nlm.nih.gov/pubmed/19346099?ordinalpos=2&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)
17. **Berend ME, Small SR, Ritter MA, Buckley CA, Dierking WK\*, Merk JC\*.** Effects of Femoral Component Size on Proximal Tibial Strain with AGC Total Knee Arthroplasty. *Journal of Arthroplasty*; 25(1):58-63, 2010.   [Abstract](http://www.ncbi.nlm.nih.gov/pubmed/19097851?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)
18. **Meneghini RM, Hanssen A, Lewallen D, Buckley CA, Meyer CI\*.** Mechanical Stability of Novel Highly Porous-Metal Acetabular Components in Revision Total Hip Arthroplasty. *Journal of Arthroplasty*; 25(3):337-41, 2010.  [Abstract](http://www.ncbi.nlm.nih.gov/pubmed/19361948?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)
19. **Berend ME, Small SR, Ritter MA, Buckley CA, Dierking WK\*, Merk JC\*.** Effects of Coronal Plane Conformity on Tibial Loading in TKA: A Comparison of AGC Flat versus Conforming Articulations. *Surgical Technology International*; 18:207-12, 2009.  [Abstract](http://www.ncbi.nlm.nih.gov/pubmed/19579207?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)
20. **Giardini SK\*, Cornwell P, Meneghini RM.** Monitoring Femoral Component Installation Using Vibration Testing. *Biomedical Sciences Instrumentation*; 41:13-18, 2005.   [Abstract](http://www.ncbi.nlm.nih.gov/pubmed/15850075?ordinalpos=24&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum)

***Submitted Manuscripts Pending Peer-Review*****Hensley SE\*, Christensen ML\*, Small SR, Archer DB\*, Lakes EH, Rogge RD.** Validation of Digital Image Correlation Techniques for Strain Measurement in Biomechanical Test Models.**Small SR, Hensley SE\*, Cook PL\*, Stevens RA\*, Rogge RD, Meding JB, Berend ME.** The Effect of Stem Length on Strain and Micromotion in the Proximal Femur Following Total Hip Arthroplasty. **Small SR, Meding JB, Oja JW\*, Lakstins KS\*, Gehron DJ\*, Rogge RB, Buckley CA.** Biomechanical Analysis of Cup Deformation in Mobile Bearing THA Acetabular Components.   |

\* Indicates student author