

Curriculum vitae

Orthopaedic Surgeon

Adult Reconstruction



Brian Matthew Culp
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Education

The Ohio State University, Columbus, OH
B.S in Molecular Genetics with Honors/Magna cum Laude, minor Spanish

Graduation: June 2006

The Ohio State University College of Medicine, Columbus, OH
Doctor of Medicine (MD)

Graduation June 2010

UMDNJ Robert Wood Johnson Univ. Hospital New Brunswick NJ
General Surgery Internship

Graduation June 2011

UMDNJ Robert Wood Johnson Univ. Hospital New Brunswick NJ
Orthopaedic Surgery Residency

Graduation June 2015

Rush University - Midwest Orthopaedic Surgery Chicago IL
Adult Joint Reconstruction Fellowship

Graduation August 2016

Languages

Spanish- Proficiency

Awards

Resident of the Year. Rutgers- Robert Wood Johnson Department of Orthopaedic Surgery. 2012-2013
Resident of the Year. Rutgers- Robert Wood Johnson Department of Orthopaedic Surgery. 2014-2015
Best Poster- Mid America Orthopaedic Association Annual Meeting April 2017. "Antibiotic Impregnated calcium sulfate beads do not improve upon outcomes"

Publications

Chong JL, Wenzel PL, Saenz-Robles MT, Nair V, Ferrey A, Hagan JP, Gomez YM, Sharma N, Chen HZ, Ouseph M, Wang SH, Trkha P, **Culp B**, Mezache L, Winton DJ, Sansom OJ, Chen D, Bremner R, Cantalupo PG, Robinson ML, Pipas JM, Leone G. E2f1-3 switch from activators in progenitor cells to repressors in differentiating cells. Nature. 2009 Dec 17; 462(7275):930.

Culp B, Hurbanek JG, Novak J, McCamey KL, Flanigan DC. Acute Traumatic Sternum Fracture in a Female College Hockey Player. Orthopedics. 2010 Sep 1;33(9):683-685.

Seto A, **Culp BM**, Gatt CJ, Dunn M. Radioprotection provides functional mechanics but delays healing of irradiated tendon allografts after ACL reconstruction of sheep. Cell and Tissue. Jul 11 2013.

Erickson, J., **Culp, B.**, Kayiaros, S., Monica, J. Acute Multiple Flexor Tendon Injury and Carpal Tunnel Syndrome following Open Distal Radius Fracture: A Case Report. Am J Orthopedics. 2015; 44(11):E458-E460

Merriam AR, Patel JM, **Culp BM**, Gatt CJ, Dunn MG Successful Total Meniscus Reconstruction Using a Novel Fiber Reinforced Scaffold: a 16 and 32 Week Study in an Ovine Model. Am J Sports Med. 2015 Oct;43(10):2528-37

Patel JM, Merriam AR, **Culp BM**, Gatt CJ, Dunn MG. One year outcomes of Total Meniscus Reconstruction Using a Novel Fiber Reinforced Scaffold in an Ovine Model. Am J Sports Med. 44(4):898-907

Flierl MA, **Culp BM**, Okroj KT, Springer BD, Levine BR, Della Valle CJ. Poor Outcomes of Irrigation and Debridement in Acute Periprosthetic Joint Infection With Antibiotic-impregnated Calcium Sulfate Beads. J of Arthroplasty Aug 2017 32(8) 2505-2507

Parcells BW, Preston JS, **Culp BM**, Jonna K, Tria AJ. Can Both Cruciate Ligaments be Preserved in knee arthroplasty? 8-9 year follow up of a bicompartamental knee replacement. Journal of Long-Term Effects of Medical Implants 26(4): 321-327. 2016

Rotating Hinge Implants for Complex Primary and Revision Total Knee Arthroplasty. Journal of Arthroplasty Oct 16, 2017 epub ahead of print

Book Chapters

Culp B, Baione W, Tria AJ. "Minimally Invasive Approach to Total Knee Arthroplasty". Chapter 16. Pages 190-198. Knee Surgery. editor Ashok Rajgopal. Jaypee Brothers Medical Publishing. Delhi, India. 2014

Baione W, **Culp B** Tria AJ. "Patellar Resurfacing in Total Knee Arthroplasty". Chapter 12. Pages 144-158. Knee Surgery. Editor Ashok Rajgopal. Jaypee Brothers Medical Publishing. Delhi, India. 2014

Culp B, Sershon R, Levine BR. Femoral bone loss in THA: Tips and Tricks. Surgical Techniques and Infection Control in Hip and Knee Arthroplasty. IGI global. (Ahead of print)

Culp B, Rosenberg AR. Posterior Cruciate Ligament Retention in Total Knee Arthroplasty, Chapter 136: Insall & Scott: SURGERY OF THE KNEE, 6ed

Culp BM, Levine B Hip OA

Presentations

NJ Orthopaedic Society 10/14/2011- Cadaveric Allograft sterilization and effects on graft time zero integrity

NJ Orthopaedic Society 10/19/2012- Radioprotection of allografts in an ovine model

NJ Orthopaedic Society 4/5/2013- Case Report- Dislocation of a distal femoral replacement

Gatt CJ, Patel JM, Merriam AR, **Culp BM**, Dunn MG. "A Load-Sharing Tissue-Engineered Meniscus Scaffold: One-Year Outcome", Scientific Session Presentation, American Orthopaedic Society for Sports Medicine Annual Meeting. Seattle WA. Jul 2014.

Patel JM, Merriam AR, **Culp BM**, Dunn MG, Gatt CJ. "Stiffer Polymer Fiber May Reduce Extrusion and Decrease Peak Contact Stresses Associated With a Fiber-Reinforced Collagen Sponge for Meniscus Replacement", Poster Presentation, Orthopaedic Research Society Annual Meeting. New Orleans LA. Mar 2014.

Peterson K, **Culp BM**, Kearns S, Levine B, Della Valle C, Sporrer S. "A Retrospective Review of Rotating Hinge Knee Arthroplasty Outcomes." Mid America Orthopedic Association- Bonita Springs FL, April 2016

Anderson LA, Culp BM, Della Valle CJ, Gililland JM, Meneghini RM, Brown JA, Springer BD. "Dismal Reconstructive Outcomes of Concomitant Periprosthetic Joint Infection and Extensor Mechanism Disruption. American Association of Hip and Knee Surgeons. Dallas TX Nov 2016

Michael A. Flierl MD, Brian M. Culp MD, Kamil Okroj BA, Bryan D. Springer MD, Brett R. Levine MD, Craig J. Della Valle MD Antibiotic-impregnated Calcium Sulfate Beads Fail to Improve Outcome of Irrigation and Debridement in Acute Periprosthetic Joint Infection AAOS Annual Meeting 2017. San Diego, CA Mar 2017

Culp BM, Flierl M, Levine BR, Springer BM, Della Valle CJ. Antibiotic impregnated calcium sulfate beads do not improve upon outcomes. Mid America Orthopaedic Association, Ameal Island FL Apr 2017 [Top Poster Award]

Culp BM, Park BK, Okroj K, Sporer S, Della Valle CJ. A Comparison of Augments and Jumbo Cups for the Management of Type 3A Acetabular Defects. American Association of Hip and Knee Surgeons Dallas TX Nov 2017

Organizations/roles

American Orthopaedic Association(Emerging Leaders Program)
American Academy of Orthopedic Surgery (AAOS)
American Association of Hip and Knee Surgeons
NJ Orthopaedic Society

Quality Improvement initiatives

Hip Fracture protocol development and implementation
Joint Center of Excellence Member
Out patient joint replacement work group

Educational Courses given

2016 AAOS arthroplasty residents course Rosemont IL- course instructor

Arthroplasty specific interest areas

Minimally invasive Anterior approach hip arthroplasty
Minimally invasive Posterior approach hip arthroplasty
Minimally invasive Unicompartmental knee arthroplasty
Minimally invasive Total knee arthroplasty
Outpatient total joint arthroplasty
Robotic Joint Replacement Surgery
Revision hip arthroplasty (Femoral/Acetabular reconstruction)
Revision total knee arthroplasty
Periprosthetic fracture fixation/revision
Periprosthetic joint infection management
Hip Fractures
Lower Extremity Trauma
Metal Allergies