



Michael Gardner

Professor of Orthopaedic Surgery at the Stanford University Medical Center

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Orthopaedic Specialists**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Dr. Gardner specializes in orthopaedic trauma surgery, and treating all aspects of fractures of the upper extremity (except the hand), lower extremity, and pelvis, as well as nonunions and malunions. He joined the faculty at Stanford in 2016, and is currently Chief of the Orthopaedic Trauma Service and Vice Chair of Clinical Operations. Prior to coming to Stanford, Dr. Gardner was an orthopaedic trauma surgeon at Washington University in St. Louis for the previous 7 years. He completed his residency training at the renowned Hospital for Special Surgery in New York. During that time, he also completed a one year research fellowship in the HSS Biomechanics Laboratory. He then completed an Orthopaedic Trauma fellowship at Harborview Medical Center in Seattle, WA, where he honed his expertise in treating patients with complex fractures.

His contributions and recognition in the field of orthopaedic surgery have culminated in invitation and participation in many national and international activities. He has been a grant reviewer for the Department of Defense, is on the editorial board of Journal of Orthopaedic Trauma, and is a reviewer for multiple other major orthopaedic journals. He has also been actively involved in the Orthopaedic Trauma Association, where he has served on the Annual Meeting Program Committee, the Research Committee, and the Publications Committee. He has been a Visiting Professor at many institutions around the country and around the world, presenting on cutting edge concepts and techniques for treating various fractures. He has published over 180 scientific articles publications, 38 book chapters, and edited 5 textbooks on mastering advanced surgical techniques in fracture surgery. The current focus of his research and practice is optimizing functional outcomes after sustaining a fracture. During his career, he has trained over 100 young surgeons in the art and science of orthopaedic surgery.

CLINICAL FOCUS

- Orthopaedic Surgery
- Fractures of the extremities and pelvis
- Fracture healing problems and infections

ACADEMIC APPOINTMENTS

- Professor - Med Center Line, Orthopaedic Surgery

ADMINISTRATIVE APPOINTMENTS

- Physician Improvement Leader for Improvement Capability Project, Department of Orthopaedic Surgery, (2017- present)
- Chief, Orthopaedic Trauma Service, Department of Orthopaedic Surgery, (2016- present)
- Vice Chairman, Clinical Operations, Department of Orthopaedic Surgery, (2016- present)
- Professor, Orthopaedic Surgery, (2016- present)

HONORS AND AWARDS

- 2015 Excellence in Teaching Award, Washington University, Department of Orthopaedic Surgery (June 2015)
- Lee T. Ford Award for Academic Achievement, Washington University, Department of Orthopaedic Surgery (June 2015)
- Best Doctors in America, St. Louis Magazine (2015)
- Best Doctors in America, St. Louis Magazine (2014)
- Best Doctors in American, St. Louis Magazine (2013)
- A Comparison Of More And Less Aggressive Bone Debridement Protocols....., OTA Highlight Paper (2012)
- Barnes-Jewish Hospital Award Winner, Orthopedics Multidisciplinary Communications Process (2012)
- Best Doctors in America, St. Louis Magazine (2011)
- Best Poster Award, Trauma, American Academy of Orthopaedic Surgeons Annual Meeting (2010)
- Excellence in Teaching Award, Washington University, Department of Orthopaedic Surgery (2009)
- Lewis Clark Wagner Award for Excellence in Research, Hospital for Special Surgery (2007)
- Winner, Highlight Paper, Orthopaedic Trauma Association (2007)
- Best Poster Award, American Academy of Orthopaedic Surgeons (2006)
- Distinguished House Staff Award, Department of Orthopaedic Surgery, Hospital for Special Surgery (2006)
- AAOS/OREF Clinician Scientist Development Program, American Academy of Orthopaedic Surgeons (2005)
- AO Jack McDaniel Memorial Fellowship Award Recipient, American Orthopaedics (2005)
- Resident Fracture Course Scholarship Award, Orthopaedic Trauma Association (2005)
- Resident Research Grant Recipient, OREF (2005)
- Resident Research Award, Eastern Orthopaedic Association (EOA) (2004)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Diplomate, American Board of Orthopaedic Surgery (ABOS) (2016 - present)
- Member, American Orthopaedic Association (AOA) (2015 - present)
- Faculty, AO North America (2008 - present)
- Member, Orthopaedic Research Society (2008 - present)
- Member, Foundation for Orthopaedic Trauma, (2008 - present)
- Member, AO Trauma (2006 - present)
- Member, Orthopaedic Trauma Association (OTA) (2005 - present)
- Member, American Academy of Orthopaedic Surgeons (AAOS) (2002 - present)

PROFESSIONAL EDUCATION

- Residency: Hospital For Special Surgery Hand Surgery Fellowship (2007) NY
- Medical Education: Drexel University College of Medicine Orthopaedic Surgery Program (2001) PA
- Board Certification: Orthopaedic Surgery, American Board of Orthopaedic Surgery (2010)

- Fellowship, Harborview Medical Center, Seattle, WA , Orthopaedic Trauma Surgery (2008)
- Residency, Hospital for Special Surgery, New York , Orthopaedics (2007)
- Fellowship, AO Jack McDaniel Memorial Hannover, Germany (2006)
- Fellowship, Hospital for Special Surgery, New York , Biomechanical Research (2005)
- Internship: New York - Presbyterian Hospital / Weill Cornell Medical College (2002) NY
- MD, Drexel University School of Medicine, Philadelphia, PA. , Medicine (2001)
- BA, Williams College, Williamstown, MA , Chemistry (1996)

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Gardner's investigative program during his academic career has involved a two-pronged approach, including both clinical and basic research. Prior to joining the Orthopaedic Department at Stanford, he was the Director of the Orthopaedic Trauma Research Program at Washington University School of Medicine in St. Louis, MO. During his tenure as Director, he organized a highly productive and efficient research program. This resulted in publication of many scientific manuscripts, and numerous ongoing multicenter and single center trials that remain active.

Throughout his career, he has published over 100 peer-reviewed original scientific manuscripts, in addition to over 50 invited manuscripts, brief reports, and review papers. He has edited two published text books, is currently editing two more books, and has co-authored over 30 book chapters. His goals include continuing to be highly active in both clinical and basic research, and to continue attaining grant funding to support this work.

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Cara Lai, Josey Oquendo

Postdoctoral Faculty Sponsor

Noelle Van Rysselberghe

Postdoctoral Research Mentor

Noelle Van Rysselberghe

Publications

PUBLICATIONS

- **Low profile fragment specific plate fixation of lateral tibial plateau fractures - A technical note.** *Injury*
Chen, M. J., Frey, C. S., Salazar, B. P., Gardner, M. J., Bishop, J. A.
2021
- **Gluteus Minimus Debridement During Acetabular Fracture Surgery Does Not Prevent Heterotopic Ossification - A Comparative Study.** *Journal of orthopaedic trauma*
Chen, M. J., Tigchelaar, S. S., Wadhwa, H., Frey, C. S., Bishop, J. A., Gardner, M. J., Bellino, M. J.
2021

- **Management of the posterior wall fracture in associated both column fractures of the acetabulum.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
Chen, M. J., Hollyer, I., Wadhwa, H., Tigchelaar, S. S., Van Rysselberghe, N. L., Bishop, J. A., Bellino, M. J., Gardner, M. J.
2021
- **Deltoid Ligament Injuries Associated With Ankle Fractures: Arguments For and Against Direct Repair.** *The Journal of the American Academy of Orthopaedic Surgeons*
Doty, J. F., Dunlap, B. D., Panchbhavi, V. K., Gardner, M. J.
2021; Publish Ahead of Print
- **Artificial Neural Networks Predict 30-Day Mortality After Hip Fracture: Insights From Machine Learning.** *The Journal of the American Academy of Orthopaedic Surgeons*
DeBaun, M. R., Chavez, G., Fithian, A., Oladeji, K., Van Rysselberghe, N., Goodnough, L. H., Bishop, J. A., Gardner, M. J.
2020
- **Does a Question Prompt List Improve Perceived Involvement in Care in Orthopaedic Surgery Compared with the AskShareKnow Questions? A Pragmatic Randomized Controlled Trial.** *Clinical orthopaedics and related research*
Mariano, D. J., Liu, A., Eppler, S. L., Gardner, M. J., Hu, S., Safran, M., Chou, L., Amanatullah, D. F., Kamal, R. N.
2020
- **Deltopectoral Approach for Arthroplasty After Early Failed Proximal Humerus Fixation Via Deltoid Split Heals Uneventfully: A Case Report.** *JBJS case connector*
DeBaun, M. R., Goodnough, L. H., Gatewood, C., Gardner, M. J., Abrams, G. D.
; 10 (3): e2000148
- **Lateral Distractor Use During Internal Fixation of Tibial Plateau Fractures Has Minimal Risk of Iatrogenic Peroneal Nerve Palsy.** *Journal of orthopaedic trauma*
Chen, M. J., Salazar, B. P., Tigchelaar, S. S., Frey, C. S., DeBaun, M. R., Goodnough, L. H., Bellino, M. J., Bishop, J. A., Gardner, M. J.
2020
- **Can upstream patient education improve fracture care in a digital world? Use of a decision aid for the treatment of displaced diaphyseal clavicle fractures.** *Journal of orthopaedic trauma*
Lai, C. H., DeBaun, M. R., Van Rysselberghe, N., Abrams, G. D., Kamal, R. N., Bishop, J. A., Gardner, M. J.
2020
- **Delayed Union of a Diaphyseal Forearm Fracture Associated With Impaired Osteogenic Differentiation of Prospectively Isolated Human Skeletal Stem Cells.** *JBMR plus*
Goodnough, L. H., Ambrosi, T. H., Steining, H., DeBaun, M. R., Abrams, G. D., McAdams, T. R., Gardner, M. J., Chan, C. K., Bishop, J. A.
2020; 4 (10): e10398
- **A Simple Goal Elicitation Tool Improves Shared Decision Making in Outpatient Orthopedic Surgery: A Randomized Controlled Trial.** *Medical decision making : an international journal of the Society for Medical Decision Making*
Mertz, K., Shah, R. F., Eppler, S. L., Yao, J., Safran, M., Palanca, A., Hu, S. S., Gardner, M., Amanatullah, D. F., Kamal, R. N.
2020: 272989X20943520
- **Subacute Minimally Invasive Decompression of L5 and S1 Nerve Roots for Neurologic Deficit After Fixation of Unstable Pelvic Fracture: A Case Report and Review of the Literature.** *JBJS case connector*
Warren, S., Gardner, M., Alamin, T.
2020; 10 (3): e1900638
- **Surgical and Nonoperative Management of Olecranon Fractures in the Elderly: A Systematic Review and Meta-Analysis.** *Journal of orthopaedic trauma*
Chen, M. J., Campbell, S. T., Finlay, A. K., Duckworth, A. D., Bishop, J. A., Gardner, M. J.
2020
- **Distal Femur Replacement versus Surgical Fixation for the Treatment of Geriatric Distal Femur Fractures: A Systematic Review.** *Journal of orthopaedic trauma*
Salazar, B. P., Babian, A. R., DeBaun, M. R., Githens, M. F., Chavez, G. A., Goodnough, H., Gardner, M. J., Bishop, J. A.
2020
- **Geriatric fragility fractures are associated with a human skeletal stem cell defect.** *Aging cell*

- Ambrosi, T. H., Goodnough, L. H., Steining, H. M., Hoover, M. Y., Kim, E., Koepke, L. S., Marecic, O., Zhao, L., Seita, J., Bishop, J. A., Gardner, M. J., Chan, C. K.
2020; e13164
- **Cost-Minimization Analysis and Treatment Trends of Surgical and Nonsurgical Treatment of Proximal Humerus Fractures.** *The Journal of hand surgery*
Wu, E. J., Zhang, S. E., Truntzer, J. N., Gardner, M. J., Kamal, R. N.
2020
 - **Complication Rates after Lateral Plate Fixation of Periprosthetic Distal Femur Fractures: A Multicenter Study.** *Injury*
Campbell, S. T., Lim, P. K., Kantor, A. H., Gausden, E. B., Goodnough, L. H., Park, A. Y., Bishop, J. A., Achor, T. S., Scolaro, J. A., Gardner, M. J.
2020
 - **ATRAID regulates the action of nitrogen-containing bisphosphonates on bone.** *Science translational medicine*
Surface, L. E., Burrow, D. T., Li, J., Park, J., Kumar, S., Lyu, C., Song, N., Yu, Z., Rajagopal, A., Bae, Y., Lee, B. H., Mumm, S., Gu, et al
2020; 12 (544)
 - **How do pilon fractures heal? An analysis of dual plating and bridging callus formation.** *Injury*
Campbell, S. T., Goodnough, L. H., Salazar, B., Lucas, J. F., Bishop, J. A., Gardner, M. J.
2020
 - **Controversies in Fracture Healing: Early Versus Late Dynamization** *ORTHOPEDICS*
Schultz, B. J., Koval, K., Salehi, P. P., Gardner, M. J., Cerynik, D. L.
2020; 43 (3): E125–E133
 - **Contouring Plates in Fracture Surgery: Indications and Pitfalls.** *The Journal of the American Academy of Orthopaedic Surgeons*
Bishop, J. A., Campbell, S. T., Graves, M. L., Gardner, M. J.
2020
 - **Hook versus locking plate fixation for Neer type-II and type-V distal clavicle fractures: a retrospective cohort study.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
Chen, M. J., DeBaun, M. R., Salazar, B. P., Lai, C., Bishop, J. A., Gardner, M. J.
2020
 - **Anterolateral tibial intraarticular osteotomy for reduction of central lateral plateau impaction in medial tibial plateau fracture dislocations: A case report** *CURRENT ORTHOPAEDIC PRACTICE*
Chen, M. J., Githens, T., Gardner, M. J.
2020; 31 (2): 201–6
 - **Translational medicine: Challenges and new orthopaedic vision (Mediouni-Model)** *CURRENT ORTHOPAEDIC PRACTICE*
Mediouni, M., Madiouni, R., Gardner, M., Vaughan, N.
2020; 31 (2): 196–200
 - **Variability in opioid prescribing following fracture fixation: A retrospective cohort analysis** *CURRENT ORTHOPAEDIC PRACTICE*
Fithian, A., Nathan, K., Campbell, S. T., Finlay, A., Bishop, J., Gardner, M. J.
2020; 31 (2): 101–4
 - **Safety and efficacy of using 2.4/2.4mm and 2.0/2.4mm dual mini-fragment plate combinations for fixation of displaced diaphyseal clavicle fractures.** *Injury*
Chen, M. J., DeBaun, M. R., Salazar, B. P., Lai, C., Bishop, J. A., Gardner, M. J.
2020
 - **Metaphyseal callus formation in pilon fractures is associated with loss of alignment: Is stiffer better?** *Injury*
Van Rysselberghe, N. L., Campbell, S. T., Goodnough, L. H., Salazar, B. P., Bishop, J. A., Bellino, M. J., Lucas, J. F., Gardner, M. J.
2020
 - **Patient-Reported Outcome Measures (PROMs): Influence of Motor Tasks and Psychosocial Factors on FAAM Scores in Foot and Ankle Trauma Patients.** *The Journal of foot and ankle surgery : official publication of the American College of Foot and Ankle Surgeons*
Schultz, B. J., Tanner, N., Shapiro, L. M., Segovia, N. A., Kamal, R. N., Bishop, J. A., Gardner, M. J.
2020
 - **Drilling Energy Correlates With Screw Insertion Torque, Screw Compression, and Pullout Strength: A Cadaver Study.** *The Journal of the American Academy of Orthopaedic Surgeons*

- Chen, M. J., DeBaun, M. R., Thio, T., Storaci, H., Gardner, M. J.
2020
- **Trochanteric fixation nail advanced with helical blade and cement augmentation: early experience with a retrospective cohort.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
Goodnough, L. H., Wadhwa, H., Tigchelaar, S. S., DeBaun, M. R., Chen, M. J., Bishop, J. A., Gardner, M. J.
2020
 - **Trochanteric osteotomy for acetabular fracture fixation: a case series and literature review.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
Chen, M. J., Wadhwa, H., Tigchelaar, S. S., Frey, C. S., Gardner, M. J., Bellino, M. J.
2020
 - **Outcomes after locking plate fixation of distal clavicle fractures with and without coracoclavicular ligament augmentation.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
Salazar, B. P., Chen, M. J., Bishop, J. A., Gardner, M. J.
2020
 - **Assessment of a deep-learning system for fracture detection in musculoskeletal radiographs.** *NPJ digital medicine*
Jones, R. M., Sharma, A., Hotchkiss, R., Sperling, J. W., Hamburger, J., Ledig, C., O'Toole, R., Gardner, M., Venkatesh, S., Roberts, M. M., Sauvestre, R., Shatkhin, M., Gupta, et al
2020; 3: 144
 - **How are peri-implant fractures below short versus long cephalomedullary nails different?** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
Goodnough, L. H., Salazar, B. P., Furness, J., Feng, J. E., DeBaun, M. R., Campbell, S. T., Lucas, J. F., Cross, W. W., Leucht, P., Grant, K. D., Gardner, M. J., Bishop, J. A.
2020
 - **Is percutaneous screw fixation really superior to non-operative management after valgus-impacted femoral neck fracture: a retrospective cohort study.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
Goodnough, L. H., Wadhwa, H., Fithian, A. T., DeBaun, M. R., Campbell, S. T., Gardner, M. J., Bishop, J. A.
2020
 - **Assessment of a deep-learning system for fracture detection in musculoskeletal radiographs.** *NPJ digital medicine*
Jones, R. M., Sharma, A., Hotchkiss, R., Sperling, J. W., Hamburger, J., Ledig, C., O'Toole, R., Gardner, M., Venkatesh, S., Roberts, M. M., Sauvestre, R., Shatkhin, M., Gupta, et al
2020; 3 (1): 144
 - **The Impact of Subspecialty Fellows on Orthopaedic Resident Surgical Experience: A Multicenter Study of 51,111 Cases.** *The Journal of the American Academy of Orthopaedic Surgeons*
Jiang, S. Y., Carlock, K. D., Campbell, S. T., Vorhies, J. S., Gardner, M. J., Leucht, P., Bishop, J. A.
2020
 - **Contouring Plates in Fracture Surgery: Indications and Pitfalls.** *The Journal of the American Academy of Orthopaedic Surgeons*
Bishop, J. A., Campbell, S. T., Graves, M. L., Gardner, M. J.
2020; 28 (14): 585–95
 - **Early Postoperative Radiographs Have No Effect on Orthopaedic Trauma Patient's Satisfaction With Their Clinic Visit.** *The Journal of the American Academy of Orthopaedic Surgeons*
Schultz, B. J., Bishop, J. A., Hall, K., Finlay, A., Gardner, M. J.
2020; 28 (3): e125–e130
 - **Dual Mini-Fragment Plating is Comparable to Precontoured Small Fragment Plating for Operative Diaphyseal Clavicle Fractures: A Retrospective Cohort Study.** *Journal of orthopaedic trauma*
DeBaun, M. R., Chen, M. J., Campbell, S. T., Goodnough, L. H., Lai, C., Salazar, B. P., Bishop, J. A., Gardner, M. J.
2019
 - **Pilot study of a novel serum mRNA gene panel for diagnosis of acute septic arthritis.** *World journal of orthopedics*
Schultz, B. J., Sweeney, T., DeBaun, M. R., Rimmel, M., Midic, U., Khatri, P., Gardner, M. J.
2019; 10 (12): 424–33

- **Intramedullary Cage Fixation for Proximal Humerus Fractures Has Low Reoperation Rates at One Year: Results of a Multi-Center Study.** *Journal of orthopaedic trauma*
Goodnough, L. H., Campbell, S. T., Githens, T. C., DeBaun, M. R., Bishop, J. A., Gardner, M. J.
2019
- **Biomechanical comparison of bone-screw-fasteners versus traditional locked screws in plating female geriatric bone.** *Injury*
DeBaun, M. R., Swinford, S. T., Chen, M. J., Thio, T., Behn, A. A., Lucas, J. F., Bishop, J. A., Gardner, M. J.
2019
- **Fixation of Anterior Pelvic Ring Injuries** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*
Wojahn, R. D., Gardner, M. J.
2019; 27 (18): 667–76
- **The Usability and Feasibility of Conjoint Analysis to Elicit Preferences for Distal Radius Fractures in Patients 55 Years and Older.** *The Journal of hand surgery*
Shapiro, L. M., Eppler, S. L., Baker, L. C., Harris, A. S., Gardner, M. J., Kamal, R. N.
2019
- **Orthopedic Surgeons Have Inadequate Knowledge of the Cost of Trauma-Related Imaging Studies** *ORTHOPEDECS*
Schultz, B., Fogel, N., Finlay, A., Collinge, C., Githens, M. F., Higgins, T., Mehta, S., O'Toole, R., Summers, H., Bishop, J. A., Gardner, M. J.
2019; 42 (5): E454–E459
- **Bridge Plating of Proximal Tibial Metaphyseal Fracture by Limited Open Technique.** *Journal of orthopaedic trauma*
Pulley, B. R., Gardner, M. J.
2019; 33 Suppl 1: S34–S35
- **Opioid use after ankle fracture surgery: current trends in the United States** *CURRENT ORTHOPAEDIC PRACTICE*
Chen, M. J., Zhang, S., DeBaun, M., Fogel, N., Bishop, J. A., Gardner, M. J.
2019; 30 (4): 332–35
- **Rates of Perioperative Complications Among Patients Undergoing Orthopedic Trauma Surgery Despite Having Positive Results for Methamphetamine** *ORTHOPEDECS*
Githens, T., DeBaun, M. R., Campbell, S. T., Wu, E. J., Goodnough, L., Lichstein, P., Painter, C., Krygier, J. E., Bishop, J., Gardner, M. J.
2019; 42 (4): 192–96
- **Changing practice patterns: flexed versus semi-extended positioning for tibial nailing** *CURRENT ORTHOPAEDIC PRACTICE*
Goodnough, L., Campbell, S. T., Githens, M. F., Gardner, M. J., Bishop, J. A.
2019; 30 (4): 356–60
- **Geriatric olecranon fractures treated with plate fixation have low complication rates** *CURRENT ORTHOPAEDIC PRACTICE*
Campbell, S. T., DeBaun, M. R., Goodnough, L., Bishop, J. A., Gardner, M. J.
2019; 30 (4): 353–55
- **The Association of Financial Distress With Disability in Orthopaedic Surgery.** *The Journal of the American Academy of Orthopaedic Surgeons*
Mertz, K., Eppler, S. L., Thomas, K., Alokozai, A., Yao, J., Amanatullah, D. F., Chou, L., Wood, K. B., Safran, M., Steffner, R., Gardner, M., Kamal, R. N.
2019; 27 (11): e522–e528
- **Optimizing the Orthopaedic Medical Student Rotation: Keys to Success for Students, Faculty, and Residency Programs.** *The Journal of the American Academy of Orthopaedic Surgeons*
Campbell, S. T., Chan, J. Y., Gardner, M. J., Bishop, J. A.
2019
- **Distal Femur Locking Plates Fit Poorly Before and After Total Knee Arthroplasty** *JOURNAL OF ORTHOPAEDIC TRAUMA*
Campbell, S. T., Bosch, L. C., Swinford, S., Amanatullah, D. F., Bishop, J. A., Gardner, M. J.
2019; 33 (5): 239–43
- **Clinical Practice Guidelines in Action: Differences in Femoral Neck Fracture Management by Trauma and Arthroplasty Training** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*
Stambough, J. B., Nunley, R. M., Spraggs-Hughes, A. G., Gardner, M. J., Ricci, W. M., McAndrew, C. M.
2019; 27 (8): 287–94

- **Fixation of Anterior Pelvic Ring Injuries.** *The Journal of the American Academy of Orthopaedic Surgeons*
Wojahn, R. D., Gardner, M. J.
2019
- **Vascular Anatomy of the Medial Femoral Neck and Implications for Surface Plate Fixation** *JOURNAL OF ORTHOPAEDIC TRAUMA*
Putnam, S. M., Collinge, C. A., Gardner, M. J., Ricci, W. M., McAndrew, C. M.
2019; 33 (3): 111–15
- **Orthopaedic Trauma Quality Measures for Value-Based Health Care Delivery: A Systematic Review** *JOURNAL OF ORTHOPAEDIC TRAUMA*
DeBaun, M. R., Chen, M. J., Bishop, J. A., Gardner, M. J., Kamal, R. N.
2019; 33 (2): 104–10
- **Orthopaedic Trauma Quality Measures for Value Based Healthcare Delivery: A Systematic Review.** *Journal of orthopaedic trauma*
DeBaun, M. R., Chen, M. J., Bishop, J. A., Gardner, M. J., Kamal, R. N.
2019
- **Distal Femur Locking Plates Fit Poorly Before and After Total Knee Arthroplasty.** *Journal of orthopaedic trauma*
Campbell, S. T., Bosch, L. C., Swinford, S., Amanatullah, D. F., Bishop, J. A., Gardner, M. J.
2019
- **Early Postoperative Radiographs Have No Effect on Orthopaedic Trauma Patient's Satisfaction With Their Clinic Visit.** *The Journal of the American Academy of Orthopaedic Surgeons*
J Schultz, B., Bishop, J. A., Hall, K., Finlay, A., Gardner, M. J.
2019
- **Meta-Analysis of Comparative Trials Evaluating a Single-Use Closed-Incision Negative-Pressure Therapy System** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Singh, D. P., Gabriel, A., Parvizi, J., Gardner, M. J., D'Agostino, R.
2019; 143 (1): 41S–46S
- **Understanding the Radiographic Anatomy of the Proximal Ulna and Avoiding Inadvertent Intraarticular Screw Placement.** *Journal of orthopaedic trauma*
Githens, T. C., Campbell, S. T., Salazar, B., Goodnough, L. H., DeBaun, M. R., Bishop, J. A., Gardner, M. J.
2019
- **Patient Preferences for Shared Decision Making: Not All Decisions Should Be Shared.** *The Journal of the American Academy of Orthopaedic Surgeons*
E Lindsay, S., Alokzai, A., Eppler, S. L., Fox, P., Curtin, C., Gardner, M., Avedian, R., Palanca, A., Abrams, G. D., Cheng, I., Kamal, R. N.
2019
- **Meta-Analysis of Comparative Trials Evaluating a Single-Use Closed-Incision Negative-Pressure Therapy System.** *Plastic and reconstructive surgery*
Singh, D. P., Gabriel, A., Parvizi, J., Gardner, M. J., D'Agostino, R. J.
2019; 143 (1S Management of Surgical Incisions Utilizing Closed-Incision Negative-Pressure Therapy): 41S–46S
- **Activation of hedgehog signaling by systemic agonist improves fracture healing in aged mice.** *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*
McKenzie, J. A., Maschhoff, C., Liu, X., Migotsky, N., Silva, M. J., Gardner, M. J.
2019; 37 (1): 51–59
- **Posttraumatic Avascular Necrosis After Proximal Femur, Proximal Humerus, Talar Neck, and Scaphoid Fractures.** *The Journal of the American Academy of Orthopaedic Surgeons*
Large, T. M., Adams, M. R., Loeffler, B. J., Gardner, M. J.
2019
- **Activation of hedgehog signaling by systemic agonist improves fracture healing in aged mice** *JOURNAL OF ORTHOPAEDIC RESEARCH*
McKenzie, J. A., Maschhoff, C., Liu, X., Migotsky, N., Silva, M. J., Gardner, M. J.
2019; 37 (1): 51–59
- **Preclinical induced membrane model to evaluate synthetic implants for healing critical bone defects without autograft** *JOURNAL OF ORTHOPAEDIC RESEARCH*
DeBaun, M. R., Stahl, A. M., Daoud, A. I., Pan, C., Bishop, J. A., Gardner, M. J., Yang, Y. P.
2019; 37 (1): 60–68

- **Assessment of Open Syndesmosis Reduction Techniques in an Unbroken Fibula Model: Visualization Versus Palpation** *JOURNAL OF ORTHOPAEDIC TRAUMA*
Pang, E., Coughlan, M., Bonaretti, S., Finlay, A., Bellino, M., Bishop, J. A., Gardner, M. J.
2019; 33 (1): E14–E18
- **A Structured Review Instrument Improves the Quality of Orthopaedic Journal Club** *JOURNAL OF SURGICAL EDUCATION*
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