



Michael J. Gardner, MD

Hatim and Durriya Tyabji Endowed Professor

Orthopaedic Surgery

 Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Orthopaedic Specialists**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

Tammy Brown - Admin Assistant for Dr. Gardner

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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

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

ACADEMIC APPOINTMENTS

- Professor - University Medical 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 Orthopaedic Surgery Residency (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.

CLINICAL TRIALS

- DIFFIR - Geriatric Distal Femur Fixation Versus Replacement, Recruiting
- Evaluation of a New Strategy for Protocolized Antibiotic Care for Severe Open Fractures: SEXTANT, Recruiting
- Topical Antibiotic Therapy to Reduce Infection After Operative Treatment of Fractures At High Risk of Infection: TOBRA, Recruiting
- Treatment for Sleep Disturbance in Orthopaedic Trauma Patients, Not Recruiting

Publications

PUBLICATIONS

- **Mobile device-based 3D scanning is superior to scoliometer in assessment of adolescent idiopathic scoliosis.** *Spine deformity*
Oquendo, Y., Hollyer, I., Maschhoff, C., Calderon, C., DeBaun, M., Langner, J., Javier, N., Bryson, X., Richey, A., Naz, H., Tileston, K., Gardner, M., Vorhies, et al
2024
- **Does Discussing Patient-reported Outcome Measures Increase Pain Self-efficacy at an Orthopaedic Visit? A Prospective, Sequential, Comparative Series.** *Clinical orthopaedics and related research*
Schultz, E. A., Gomez, G. I., Gardner, M. J., Hu, S. S., Safran, M., Amanatullah, D. F., Shapiro, L. M., Kamal, R. N.
2024
- **Preoperative and Postoperative Therapeutic Anticoagulation in Orthopaedic Surgery Increases the Risk of Bleeding: A Systematic Review and Meta-Analysis.** *The Journal of the American Academy of Orthopaedic Surgeons*
Wadhwa, H., Rohde, M. S., Xiao, M., Maschhoff, C., Bishop, J. A., Gardner, M. J., Goodnough, L. H.
2024
- **Current Use of Patient-Reported Outcome Measures Ignores Functional Demand.** *The Journal of the American Academy of Orthopaedic Surgeons*

Kamal, R. N., Gomez, G., Chakraborty, A., Leversedge, C., Amanatullah, D. F., Chou, L., Gardner, M. J., Hu, S. S., Safran, M., Zhuang, T., Shapiro, L. M.
2024

- **Treatment Failure After Repair of Displaced Femoral Neck Fractures in Patients Compared by "Decade of Life": An Analysis of 565 Cases in Adults Less Than 60 years of Age.** *Journal of orthopaedic trauma*
Collinge, C. A., Giga, K., Roser, T., Lebus, G. F., Beltran, M. J., Crist, B., Sems, S. A., Gardner, M. J., Sagi, H. C., Archdeacon, M. T., Mir, H. R., Rodriguez-Buitrago, A., Mitchell, et al
2024; 38 (8): 418-425
- **Femoral Neck Fractures With Associated Ipsilateral Femoral Shaft Fractures in Young Adults <50 Years Old: A Multicenter Comparison of 80 Cases Versus Isolated Femoral Neck Fractures.** *Journal of orthopaedic trauma*
Rechter, G. R., Collinge, C. A., Rechter, A. J., Gardner, M. J., Sagi, H. C., Archdeacon, M. T., Mir, H. R., Rodriguez-Buitrago, A., Mitchell, P., Beltran, M. T., Young Femoral Neck Fracture Working Group, Streufert, B., Robinette, P., et al
2024; 38 (8): 410-417
- **Optimal Fixation Strategies for Displaced Femoral Neck Fractures in Patients 18-59 Years of Age: An Analysis of 565 Cases Treated at 26 Level 1 Trauma Centers.** *Journal of orthopaedic trauma*
Roser, T., Collinge, C. A., Giga, K., Lebus, G. F., Beltran, M. J., Crist, B., Sems, S. A., Gardner, M. J., Sagi, H. C., Archdeacon, M. T., Mir, H. R., Rodriguez-Buitrago, A., Mitchell, et al
2024; 38 (8): 403-409
- **Health Numeracy Is Associated With a Patient's Ability to Interpret Patient-Reported Outcome Measures Data.** *Orthopedics*
Schultz, E. A., Eppler, S. L., Gardner, M., Hu, S. S., Chou, L., Safran, M., Amanatullah, D. F., Abrams, G. D., Shapiro, L. M., Kamal, R. N.
2024: 1-6
- **Integrated Dual Lag Screws Have Higher Reoperation Rates for Fixation Failure Than Single Lag Component Cephalomedullary Nails: A Retrospective Study of 2,130 Patients with Intertrochanteric Femoral Fractures.** *The Journal of bone and joint surgery. American volume*
Gonzalez, C. A., Van Rysselberghe, N. L., Whittaker, M. J., Ngo, D., Michaud, J. B., Gardner, M. J.
2024
- **Remote Summer Research Program to Improve Opportunity and Mentorship for Underrepresented Students With Interest in Orthopaedic Surgery: 3-Year Experiences.** *The Journal of the American Academy of Orthopaedic Surgeons*
Klemt, C., Amanatullah, D. F., Gardner, M. J., Frick, S., Jobanputra, A., Shea, K.
2024
- **Pain Self-Efficacy Can Improve During a Visit With an Orthopedic Surgeon** *ORTHOPEDICS*
Lemos, J. L., Gomez, G. I., Tewari, P., Amanatullah, D. F., Chou, L., Gardner, M. J., Hu, S., Safran, M., Kamal, R. N.
2024; 47 (4): e197-e203
- **Outcomes of isolated medial tibial plateau fractures by fracture morphology.** *Injury*
Cruz, J. P., Michaud, J. B., Van Rysselberghe, N. L., Walsh, D., Svetgoff, R., Bailey, R., Pirkle, S. B., Megerian, M. F., Harbison, G. J., Becerra, J. A., Sakka, B., Vega, A., Bohlen, et al
2024; 55 (8): 111662
- **Association between operative duration and adverse outcomes after hip fracture surgery: A NSQIP matched cohort study.** *Injury*
Harris, T., Segovia, N., Koltsov, J., Gardner, M.
2024; 55 (8): 111635
- **The Bioburden Associated with Severe Open Tibial Fracture Wounds at the Time of Definitive Closure or Coverage The BIOBURDEN Study** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Bosse, M. J., Joshi, M., Carlini, A. R., Firoozabadi, R., Murray, C. K., Manson, T., Yun, H. C., Gary, J. L., Wenke, J. C., Castillo, R. C., Carroll, E. A., Goodman, J., Holden, et al
2024; 106 (10): 858-868
- **Historic indications for fixation of posterior malleolus fractures- where did they come from and where are we now?** *Injury*
Hunt, A. A., Maschhoff, C., Van Rysselberghe, N., Gonzalez, C. A., Goodnough, H., Gardner, M., Bishop, J. A.
2024; 55 (6): 111537
- **Outcomes of Patients with Preoperative Thrombocytosis After Hip Fracture Surgery.** *Journal of the American Academy of Orthopaedic Surgeons. Global research & reviews*
Gonzalez, C. A., Van Rysselberghe, N. L., Maschhoff, C., Gardner, M. J.

2024; 8 (4)

- **3D Topographical Scanning for the Detection of Osteoporosis.** *Journal of frailty, sarcopenia and falls*
Maschhoff, C. W., Oquendo, Y., Michaud, J. B., Carey, D., Jamero, C., Bishop, J. A., Jin, C., DeBaun, M., Gardner, M. J.
2024; 9 (1): 4-9
- **The use of hinged elbow orthosis following surgical management of terrible triad injuries of the elbow.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
Cruz, J. P., Salazar, B., van Niekerk, M., Finlay, A. K., Van Rysselberghe, N. L., Goodnough, L. H., Bishop, J. A., Gardner, M. J.
2024
- **Range of motion measurements do not correlate with patient reported outcome measures in the early post-operative period following ankle fracture.** *Injury*
Calderon, C., Oquendo, Y. A., Van Rysselberghe, N., Finlay, A. K., Hunt, A. A., San Agustin, M. J., Gardner, M. J.
2024; 55 (4): 111419
- **Using machine-learning to decode postoperative hip mortality Trends: Actionable insights from an extensive clinical dataset.** *Injury*
Lin, C. Q., Jin, C. A., Ivanov, D., Gonzalez, C. A., Gardner, M. J.
2024; 55 (3): 111334
- **Does Discussing Patient-reported Outcome Measures Increase Pain Self-efficacy at an Orthopaedic Visit? A Prospective, Sequential, Comparative Series** *Does Discussing Patient-reported Outcome Measures Increase Pain Self-efficacy at an Orthopaedic Visit? A Prospective, Sequential, Comparative Series*
Schultz, E. A., Gomez, G. I., Gardner, M., Hu, S., Safran, M., Amanatullah, D., Shapiro, L. M., Kamal, R. N.
2024
- **Outcomes of Humerus Nonunion Surgery in Patients with Initial Operative Fracture Fixation.** *Journal of orthopaedic trauma*
Harrison, N., Hysong, A., Posey, S., Yu, Z., Chen, A. T., Pallitto, P., Gardner, M., Dumpe, J., Mir, H., Babcock, S., Natoli, R. M., Adams, J. D., Zura, et al
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
- **Incisional negative pressure wound therapy may not protect against post-operative surgical site complications in bicondylar tibial plateau fractures.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
Johnson, T. R., Oquendo, Y. A., Seltzer, R., Van Rysselberghe, N. L., Bishop, J. A., Gardner, M. J.
2023
- **Retrograde Intramedullary Nailing Versus Locked Plating for Extreme Distal Periprosthetic Femur Fractures: A Multicenter Retrospective Cohort Study.** *Journal of orthopaedic trauma*
Van Rysselberghe, N. L., Seltzer, R., Lawson, T. A., Kuether, J., White, P., Grisdela, P., Daniell, H., Amirhekmat, A., Merchan, N., Seaver, T., Samineni, A., Saiz, A., Ngo, et al
2023
- **A Real-World Review of the Use of Romosozumab for Fracture Risk Reduction and Bone Optimization in an Orthopaedic-Based Fracture Liaison Service**
Gardner, M., Fox, A.
OXFORD UNIV PRESS.2023: 358
- **Biomechanics of sacroiliac joint fixation using lag screws: a cadaveric study.** *Journal of orthopaedic surgery and research*
Chatain, G. P., Oldham, A., Uribe, J., Duhon, B., Gardner, M. J., Witt, J. P., Yerby, S., Kelly, B. P.
2023; 18 (1): 807
- **Interaction of preoperative chemoprophylaxis and tranexamic acid use does not affect transfusion in acetabular fracture surgery.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
Wadhwa, H., Rohde, M., Oquendo, Y., Chen, M. J., Tigchelaar, S. S., Bellino, M., Bishop, J., Gardner, M. J.
2023

- **Limb position affects intraoperative assessment of condylar width.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
Tucker, D. W., Chen, M. J., Reddy, A., Carney, J. J., Gardner, M. J., Marecek, G. S.
2023
- **Commentary on: Dual plate fixation for proximal humerus fractures with unstable medial column in patients with osteoporosis: A case-control study.** *Journal of orthopaedic trauma*
Gardner, M. J.
2023
- **An osteoinductive and biodegradable intramedullary implant accelerates bone healing and mitigates complications of bone transport in male rats.** *Nature communications*
Lin, S., Maekawa, H., Moeinzadeh, S., Lui, E., Alizadeh, H. V., Li, J., Kim, S., Poland, M., Gadomski, B. C., Easley, J. T., Young, J., Gardner, M., Mohler, et al
2023; 14 (1): 4455
- **Supplemental fixation of distal femur fractures: a review of biomechanical and clinical evidence** *CURRENT ORTHOPAEDIC PRACTICE*
Wadhwa, H., Goodnough, L., Sharma, J., Maschhoff, C. W., Van Rysselberghe, N. L., Bishop, J. A., Gardner, M. J.
2023; 34 (4): 201-207
- **Purification and functional characterization of novel human skeletal stem cell lineages.** *Nature protocols*
Hoover, M. Y., Ambrosi, T. H., Steininger, H. M., Koepke, L. S., Wang, Y., Zhao, L., Murphy, M. P., Alam, A. A., Arouge, E. J., Butler, M. G., Takematsu, E., Stavitsky, S. P., Hu, et al
2023
- **Syndesmotic Suture Button Fixation Results in Higher Tegner Activity Scale Scores When Compared to Screw Fixation: A Multicenter Investigation.** *Foot & ankle specialist*
Obey, M. R., Schafer, K., Matheny, L. M., McAndrew, C. M., Gardner, M. J., Ricci, W. M., Clanton, T. O., Backus, J. D.
2023: 19386400231174829
- **Postoperative sepsis and septic shock after hip fracture surgery.** *Injury*
Gonzalez, C. A., O'Mara, A., Cruz, J. P., Roth, D., Van Rysselberghe, N. L., Gardner, M. J.
2023: 110833
- **Arthroplasty for femoral neck fractures is at risk for under restoration of lateral femoral offset.** *Hip international : the journal of clinical and experimental research on hip pathology and therapy*
Shah, H. N., Barrett, A. A., Finlay, A. K., Arora, P., Bellino, M. J., Bishop, J. A., Gardner, M. J., Miller, M. D., Huddleston, J. I., Maloney, W. J., Goodman, S. B., Amanatullah, D. F.
2023: 11207000231169914
- **Biomechanical Analysis of Combined Medial Calcar and Lateral Locked Plating Versus Isolated Lateral Locked Plating of Proximal Humerus Fractures.** *Journal of orthopaedic trauma*
Kotler, J. A., Zuppke, J. N., Abraham, V. M., Sanville, J. A., Nabet, A. C., Carofino, B., Gardner, M. J., Smith, C. S.
2023
- **Olecranon fractures : current treatment concepts.** *The bone & joint journal*
Duckworth, A. D., Carter, T. H., Chen, M. J., Gardner, M. J., Watts, A. C.
2023; 105-B (2): 112-123
- **External Fixator Usage and Delayed MRI Scans: A National Survey Study.** *The Journal of the American Academy of Orthopaedic Surgeons*
Van Rysselberghe, N. L., Fithian, A. T., Kim, H. B., Sung, J. C., Chou, B. B., Bishop, J. A., Gardner, M. J., Lucas, J. F., Hecht, G. G.
2023
- **Effects of Technical Errors on the Outcomes of Operatively Managed Femoral Neck Fractures in Adults Less than 50 Years of Age.** *Journal of orthopaedic trauma*
Collinge, C. A., Finlay, A., Harris, P., Rodriguez-Buitrago, A., Fuente, G. d., Beltran, M., Mitchell, P., Archdeacon, M., Tornetta, P. 3., Mir, H., Gardner, M., Sagi, H. C., LeBus, et al
2023
- **Optimizing Orthopaedic Trauma Implant Pricing Through a Data-Driven and Surgeon-Integrated Approach.** *Journal of orthopaedic trauma*
Seltzer, R., Johnson, J. R., McFarlane, K., Chawla, A., Chamberlain, S., Kohler, M., Sheth, K., Wall, J. K., Bishop, J., Gardner, M., Shea, K. G.

2022

- **Effectiveness of melatonin treatment for sleep disturbance in orthopaedic trauma patients: A prospective, randomized control trial.** *Injury*
Tanner, N., Schultz, B., Calderon, C., Fithian, A., Segovia, N., Bishop, J., Gardner, M.
2022; 53 (12): 3945-3949
- **Do superficial infections increase the risk of deep infections in tibial plateau and plafond fractures?** *EUROPEAN JOURNAL OF ORTHOPAEDIC SURGERY AND TRAUMATOLOGY*
Patterson, J. T., O'Hara, N. N., Scharfstein, D. O., Castillo, R. C., O'Toole, R., Firoozabadi, R., METRC
2022
- **Cost minimization analysis of the treatment of olecranon fracture in elderly patients: a retrospective analysis** *CURRENT ORTHOPAEDIC PRACTICE*
Welch, J. M., Zhuang, T., Shapiro, L. M., Gardner, M., Xiao, M., Kamal, R. N.
2022; 33 (6): 559-564
- **A Pilot Program: Remote Summer Program to Improve Opportunity and Mentorship Among Underrepresented Students Pursuing Orthopaedic Surgery.** *JB & JS open access*
Hastings, K. G., Freiman, H. D., Amanatullah, D. F., Gardner, M. J., Frick, S., Shea, K. G.
2022; 7 (4)
- **Cost minimization analysis of the treatment of olecranon fracture in elderly patients: a retrospective analysis.** *Current orthopaedic practice*
Welch, J. M., Zhuang, T., Shapiro, L. M., Gardner, M. J., Xiao, M., Kamal, R. N.
2022; 33 (6): 559-564
- **Evaluation of Systemwide Improvement Programs to Optimize Time to Surgery for Patients With Hip Fractures: A Systematic Review.** *JAMA network open*
Tewari, P., Sweeney, B. F., Lemos, J. L., Shapiro, L., Gardner, M. J., Morris, A. M., Baker, L. C., Harris, A. S., Kamal, R. N.
2022; 5 (9): e2231911
- **Negative Pressure Wound Therapy for Extremity Open Wound Management: A Review of the Literature.** *Journal of orthopaedic trauma*
Van Rysselberghe, N. L., Gonzalez, C. A., Calderon, C., Mansour, A., Oquendo, Y. A., Gardner, M. J.
2022; 36 (Suppl 4): S6-S11
- **Invited Commentary** *JOURNAL OF ORTHOPAEDIC TRAUMA*
Gardner, M. J.
2022; 36 (9)
- **Locked Lateral Plating vs. Retrograde Nailing for Distal Femur Fractures: A Prospective Multicenter Randomized Trial.** *Journal of orthopaedic trauma*
Dunbar, R. P., Egol, K. A., Jones, C. B., Ertl, J. P., Mullis, B., Perez, E., Collinge, C. A., Ostrum, R., Humphrey, C., Gardner, M. J., Ricci, W. M., Phieffer, L. S., Teague, et al
2022
- **Gait Analysis in Orthopaedic Surgery: History, Limitations, and Future Directions.** *The Journal of the American Academy of Orthopaedic Surgeons*
Hecht, G. G., Van Rysselberghe, N. L., Young, J. L., Gardner, M. J.
2022
- **Is the timing of fixation associated with fracture-related infection among tibial plateau fracture patients with compartment syndrome? A multicenter retrospective cohort study of 729 patients.** *Injury*
Dubina, A. G., Morcos, G., O'Hara, N. N., Manzano, G. W., Vallier, H. A., Farooq, H., Natoli, R. M., Adams, D., Obremsky, W. T., Wilkinson, B. G., Hogue, M., Haller, J. M., Marchand, et al
2022
- **Clostridium difficile colitis portends poor outcomes in lower extremity orthopaedic trauma surgery.** *Injury*
Gonzalez, C. A., Van Rysselberghe, N. L., Maschhoff, C., Gardner, M. J.
2022
- **Effect of Supplemental Perioperative Oxygen on SSI Among Adults with Lower-Extremity Fractures at Increased Risk for Infection A Randomized Clinical Trial** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*

- O'Toole, R., Joshi, M. G., Carlini, A. R., Huang, Y., Murray, C. K., Bosse, M. J., Scharfstein, D. O., Frca, A., Gary, J. L., Karunakar, M. A., Weaver, M. J., Obremskey, W., McKinley, et al
2022; 104 (14): 1236-1243
- **Analysis of 101 Mechanical Failures in Distal Femur Fractures Treated With 3 Generations of Precontoured Locking Plates.** *Journal of orthopaedic trauma*
Reeb, A. F., Collinge, C. A., Rodriguez-Buitrago, A. F., Archdeacon, M. T., Beltran, M. J., Gardner, M. J., Jeray, K. J., Miller, A. N., Crist, B. D., Sems, S. A., Shah, N. S., Fogel, N., Tibbo, et al
2022
 - **Drilling the cement mantle in well-fixed periprosthetic femur fractures is not associated with arthroplasty-related complications.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
Van Rysselberghe, N. L., DeBaun, M. R., Sanchez, M., Wadhwa, H., Pfaff, K. E., Bellino, M. J., Gardner, M. J., Bishop, J. A.
2022
 - **Modern External Ring Fixation Versus Internal Fixation for Treatment of Severe Open Tibial Fractures A Randomized Clinical Trial (FIXIT Study)** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
O'Toole, R., Reider, L., Gary, J. L., Quinlan, S. M., Hutson, J. J., Huang, Y., McKinley, T. O., Reid, J., Castillo, R. C., Bosse, M. J., MacKenzie, E. J., Altman, D. T., Westrick, et al
2022; 104 (12): 1061-1067
 - **"My Surgical Success": Feasibility and Impact of a Single-Session Digital Behavioral Pain Medicine Intervention on Pain Intensity, Pain Catastrophizing, and Time to Opioid Cessation After Orthopedic Trauma Surgery-A Randomized Trial.** *Anesthesia and analgesia*
Ziadni, M. S., You, D. S., Keane, R., Salazar, B., Jaros, S., Ram, J., Roy, A., Tanner, N., Salmasi, V., Gardner, M., Darnall, B. D.
2022
 - **Treatment Failure in Femoral Neck Fractures in Adults Less Than 50 Years of Age: Analysis of 492 Patients Repaired at 26 North American Trauma Centers.** *Journal of orthopaedic trauma*
Collinge, C. A., Finlay, A., Rodriguez-Buitrago, A., Beltran, M. J., Mitchell, P. M., Mir, H. R., Gardner, M. J., Archdeacon, M. T., Tornetta, P. 3., Young Femoral Neck Working Group
2022; 36 (6): 271-279
 - **Reverse Total Shoulder Arthroplasty Is the Most Cost-effective Treatment Strategy for Proximal Humerus Fractures in Older Adults: A Cost-utility Analysis.** *Clinical orthopaedics and related research*
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