Stanford



Derek F. Amanatullah, M.D., Ph.D.

Associate Professor of Orthopaedic Surgery

Curriculum Vitae available Online

CLINICAL OFFICE (PRIMARY)

- **Joint Replacement Center**

  450 Broadway St Pavilion A

  1st Fl MC 6110

  Redwood City, CA 94063

  Tel (650) 723-5643 **Fax** (650) 721-3406

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

  Katrina Souza - Administrative Associate

  Email souzak@stanford.edu

  Tel 650-497-5352

Bio

BIO

Derek F. Amanatullah, M.D., Ph.D., is a board-certified hip and knee replacement surgeon at Stanford who cares for patients with advanced arthritis, and he is frequently sought out by patients whose joint replacements become infected, unstable, or persistently painful. He has been inducted into the Hip Society, the Knee Society, and the International Knee Society, prestigious invitation-only societies for the field's most respected joint replacement surgeons. Each recommendation he makes rests on the evidence and on the skill, preparation, and coordination of the surgical team, an approach to patients with obesity that was featured in The New York Times. He is now editing a book on that approach for Springer Nature, titled "Arthroplasty and Obesity: Expanding Access and Optimizing Outcomes."

His laboratory showed that some joint infections persist in a dormant state that standard tests miss, and that inflammation lingering in the joint after an apparently successful treatment predicts whether the infection will return. Infection also begins with behavior in the operating room. After the Stanford Biodesign Faculty Fellowship, he used computer vision to track the motion of circulating objects during surgery, work that earned his admission as a founder to StartX (the Stanford-affiliated startup accelerator) and the 2023 HLTH Surgical Transformation Award. That same technology now lets him study the motion of people and the behaviors in the operating room that shape the safety and efficiency of surgery.

He has published more than 250 peer-reviewed papers. They have been cited more than 8,500 times. He holds 30 issued U.S. patents. He has received more than 120 honors. They include the 2025 Charles A. Engh, Sr. Excellence in Hip Research Award from Current Concepts in Joint Replacement and the Hip Society, and the 2026 Board of Specialty Societies Research Support Fund Award from the American Academy of Orthopaedic Surgeons.

He co-edits the Journal of Bone and Joint Infection. He also serves as Associate Editor for Infection at The Journal of Bone and Joint Surgery and sits on the American Academy of Orthopaedic Surgeons Committee on Devices, Biologics, and Technology. He has mentored 236 trainees and junior colleagues, taught 12 courses, and given more than 400 lectures and presentations.

He is actively seeing patients at the Stanford Joint Replacement Center in Redwood City.

CLINICAL FOCUS

- Adult Reconstructive Orthopedic Surgery

ACADEMIC APPOINTMENTS

- Associate Prof-Univ Med Line, Orthopaedic Surgery
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance

ADMINISTRATIVE APPOINTMENTS

- Associate Editor, Infection, The Journal of Bone and Joint Surgery, (2026- present)
- Director, Morbidity and Mortality Conference, Stanford University, Department of Orthopaedic Surgery, (2026- present)
- Co-Editor-in-Chief, Journal of Bone and Joint Infection, (2024- present)
- Member, Research Committee, The Knee Society, (2024-2026)
- Member, Committee on Devices, Biologics, and Technology, American Academy of Orthopaedic Surgeons, (2023- present)
- Co-Fellowship Director, Adult Lower Extremity Reconstruction, Stanford University, Department of Orthopaedic Surgery, (2022-2025)
- Founder and Co-Director, Remote Summer Research Program, Stanford University, Department of Orthopaedic Surgery, (2021-2024)
- Associate Editor, Infection, Journal of Orthopaedic Research, (2018-2025)

HONORS AND AWARDS

- Member (invitation only, limited to 100 active members), The Hip Society (September 2026)
- Member (invitation only, limited to 70 members worldwide), International Knee Society (September 2026)
- World’s Top 2% Scientists, Single-Year Impact, Stanford University and Elsevier (September 2025)
- World’s Top 2% Scientists, Single-Year Impact, Stanford University and Elsevier (September 2024)
- Member (invitation only, limited to 105 active members), The Knee Society (September 2023)
- Emerging Leader, American Orthopaedic Association (September 2019)
- AAOS Representative, National Obesity Collaborative Summit (September 2018)
- Emerging Leader, American Orthopaedic Association (September 2018)
- Poster Award, Western Orthopaedics Association (September 2016)
- Young Investigator Award, Western Orthopaedics Association (September 2016)
- AAOS Representative, National Obesity Collaborative Summit (September 2015)
- Emerging Leader, American Orthopaedic Association (September 2015)
- Board of Specialty Societies Research Support Fund Award, American Academy of Orthopaedic Surgeons (October 2026)
- World’s Top 2% Scientists, Single-Year Impact, Stanford University and Elsevier (October 2026)
- Best Poster Award, American Association of Hip and Knee Surgeons (October 2025)
- FARE Grant, American Association of Hip and Knee Surgeons (October 2025)
- World’s Top 2% Scientists, Single-Year Impact, Stanford University and Elsevier (October 2023)
- Emerging Leader, American Orthopaedic Association (October 2022)
- Emerging Leader, American Orthopaedic Association (October 2021)
- StartX Founder (nSight Surgical), Stanford Graduate School of Business (October 2021)
- Emerging Leader, American Orthopaedic Association (October 2020)

- Leadership Institute, Level II, American Academy of Orthopaedic Surgeons (October 2020)
- John N. Insall Traveling Fellowship, The Knee Society (October 2018)
- Presentation Award, International Society for Technology in Arthroplasty (October 2013)
- Clinical Scientist Development Program, American Academy of Orthopaedic Surgeons (October 2010)
- Residents and Fellows Traveling Scholarship, American Society for Surgery of the Hand (October 2010)
- Top 5% Most Cited Clinician, Doximity (November 2026)
- Best Poster Award, American Association of Hip and Knee Surgeons (November 2020)
- Young Investigators Initiative Program, U.S. Bone and Joint Initiative (November 2017)
- Blue Ribbon Award, Orthopedics (November 2016)
- Moore Scholarship, Alpha Epsilon Delta (November 1998)
- New Investigator Workshop, Orthopaedic Research Society (May 2014)
- Traveling Clinical Scientist Program, International Cartilage Research Society-Stryker (May 2012)
- J. Harold LaBriola Resident Award, California Orthopaedic Association (May 2011)
- Valedictorian, Pinewood High School (May 1994)
- CTSA Visiting Scholar, Johns Hopkins University (March 2022)
- Young Investigator Research Symposium, Mayo Clinic (March 2014)
- Fellowship Certification, American Association of Hip and Knee Surgeons (June 2025)
- American-British-Canadian Travelling Fellowship, Alternate, American Orthopaedic Association (June 2024)
- American-British-Canadian Travelling Fellowship, Candidate, American Orthopaedic Association (June 2020)
- Sanford and Darlene Anzel Award, Western Orthopaedic Association (June 2012)
- Cancer Research Training Program, National Cancer Institute (June 1998)
- Cancer Research Training Program, National Cancer Institute (June 1997)
- Cancer Research Training Program, National Cancer Institute (June 1996)
- Research Award, First Place, Western Orthopaedic Association (July 2026)
- Vernon Thompson Award, Western Orthopaedic Association (July 2011)
- Orthopaedic Research Fellowship, Dr. Denny and Jeanene Dickenson (July 2009 – June 2010)
- Medical Scientist Training Program, Albert Einstein College of Medicine (July 1998 – June 2007)
- Academic Honors Award, Phi Kappa Phi (February 1996)
- Charles A. Engh, Sr. Excellence in Hip Research Award, Current Concepts in Joint Replacement (CCJR) (December 2025)
- Top 10% Most Cited Clinician, Doximity (December 2025)
- Top 10% Most Published Clinician, Doximity (December 2025)
- Top 10% Most Cited Clinician, Doximity (December 2024)
- Top 10% Most Published Clinician, Doximity (December 2024)
- Top 10% Most Cited Clinician, Doximity (December 2023)
- Top 10% Most Published Clinician, Doximity (December 2023)
- Stanford Catalyst Award, Stanford University (December 2022)
- Top 10% Most Cited Clinician, Doximity (December 2022)
- Top 10% Most Published Clinician, Doximity (December 2022)
- Top 10% Most Published Clinician, Doximity (December 2021)

- Blue Ribbon Award, Orthopedics (December 2016)
- Foundation Scholarship, Current Concepts in Joint Replacement (December 2013)
- Jeffery M. Nakano Award, Western Orthopaedic Association (August 2022)
- Sanford and Darlene Anzel Award, Western Orthopaedic Association (August 2022)
- Vernon Thompson Award, Western Orthopaedic Association (August 2022)
- William J. Maloney Award, Western Orthopaedic Association (August 2022)
- Basel R. Besh Award, Western Orthopaedic Association (August 2018)
- Robert R. Slater, Jr. Award, Western Orthopaedic Association (August 2018)
- Dean's List, University of Southern California (August 1994 - May 1998)
- Dean's Scholarship, University of Southern California (August 1994 - May 1998)
- Engineering Honor Society, W.V.T. Rusch (August 1994 - May 1998)
- Golden State Scholarship, University of Southern California (August 1994 - May 1998)
- Trojan Alumni Scholarship, University of Southern California Alumni Association (August 1994)
- Research All-Star, Top 1% All Orthopaedic Surgery, Avant-Garde Health (April 2024)
- Lloyd W. Taylor Resident Award, California Orthopaedic Association (April 2012)
- Francis W. Noel Award, University of California – Davis (April 2010)
- J. Harold LaBriola Resident Award, California Orthopaedic Association (April 2010)
- Northern California Chapter, Resident Award, Western Orthopaedic Association (April 2010)
- Academic Excellence in Biomedical Engineering Award, Fred S. Grodins (April 1998)
- Magna Cum Laude, University of Southern California (April 1998)
- Order of the Laurel, University of Southern California (April 1998)
- Order of the Palm, University of Southern California (April 1998)
- Outstanding Achievement in Leadership Award, Engineering Alumni Association (April 1998)
- Traveling Fellowship, The Hip Society Rothman-Ranawat (**March 2016)
- Transplantation and Infection, Stanford Medicine: Institute of Immunity (**June 2017)
- BioDesign Faculty Fellowship, Stanford University (**January 2017)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, International Knee Society (2026 - present)
- Member, The Hip Society (2026 - present)
- Member, The Knee Society (2023 - present)
- Fellow, American Orthopaedic Association (2022 - present)
- Member, Musculoskeletal Infection Society (2020 - present)
- Fellow, American Academy of Orthopaedic Surgeons (2018 - present)
- Fellow, American Association of Hip and Knee Surgeons (2017 - present)
- Member, European Knee Associates (2016 - present)
- Member, ESKA (2016 - present)
- Member, Mayo Clinic Alumni Association (2016 - present)
- Member, Mayo Clinic Orthopaedic Society (2016 - present)
- Member, California Orthopaedic Association (2015 - present)

- Member, Western Orthopaedic Association (2015 - present)
- Member, International Cartilage Research Society (2011 - 2017)
- Resident Member, Western Orthopaedic Association (2011 - 2015)
- Member, Orthopaedic Research Society (2010 - present)
- Candidate Member, American Association of Hip and Knee Surgeons (2010 - 2016)
- Resident Member, California Orthopaedic Association (2008 - 2015)
- Resident Member, American Academy of Orthopaedic Surgery (2007 - 2017)
- Lifetime Member, Phi Kappa Phi All-University National Honor Society (1998 - present)
- Member, University of Southern California, General Alumni Association (1998 - present)
- Member, University of Southern California, Skull and Dagger Society (1998 - present)
- Member, American Medical Association (1998 - 2018)
- Member, Mortar Board National Honor Society (1997 - present)
- Member, Tau Beta Pi Engineering Honor Society (1997 - 2018)

PROFESSIONAL EDUCATION

- Board Recertification, American Board of Orthopaedic Surgery , Orthopaedic Surgery, January 2026 - December 2036 (2026)
- Fellowship: Mayo Clinic Rochester (2014) MN
- Medical Education: Albert Einstein College of Medicine (2007) NY
- Fellowship, Stanford University , BioDesign (2017)
- Board Certification: Orthopaedic Surgery, American Board of Orthopaedic Surgery (2016)
- Residency: University of California Davis Medical Center (2013) CA
- Internship: University of California Davis Medical Center (2008) CA
- Fellowship, Mayo Clinic , Lower Extremity Adult Reconstruction (2014)
- International Fellowship, University Hospitals Coventry and Warwickshire , Lower Extremity Adult Reconstruction (2013)
- Residency, University of California – Davis Medical Center , Orthopaedic Surgery (2013)
- Traveling Fellowship, International Cartilage Repair Society , Cartilage Regeneration (2012)
- Doctor, Albert Einstein College of Medicine of Yeshiva University , Medicine (2007)
- Doctor, Albert Einstein College of Medicine of Yeshiva University , Philosophy in Cell Biology (2007)
- Master of Science, Albert Einstein College of Medicine of Yeshiva University , Developmental and Molecular Biology (2001)
- Bachelor of Science, University of Southern California , Biomedical Engineering (1998)

PATENTS

- Derek Amanatullah. "United States Patent 10,182,830; 10,639,047; 11,344,320; 12,114,871 Modular Total Knee Arthroplasty System", Arthrology Consulting, LLC
- Derek Amanatullah. "United States Patent 10,194,990; 10,806,518; 10,813,700; 11,253,321 Augmenting a Surgical Field with Virtual Guidance and Tracking Deviation from a Surgical Plan", Arthrology Consulting, LLC (exclusive license to Medacta)
- Derek Amanatullah. "United States Patent 11,478,302; 12,023,104 Intraoperative Surgical Guidance Based on Dynamic Ligament Tension", Knimble Designs, Inc.; Arthrology Consulting, LLC
- Derek Amanatullah. "United States Patent 11,583,360; 11,666,409; 12,605,223 Monitoring Object Flow within a Surgical Space", Stanford University
- Derek Amanatullah. "United States Patent 11,786,262; 11,849,960; 12,746,018 Mid-flexion Balancing during Knee Arthroplasty", Knimble Designs, Inc.
- Derek Amanatullah. "United States Patent 11,857,423 Off-center Liner for an Acetabular Cup", Arthrology Consulting, LLC
- Derek Amanatullah. "United States Patent 11,911,050 System for Total Knee Replacement", Knimble Designs, Inc.; Arthrology Consulting, LLC

- Derek Amanatullah. "United States Patent 11,944,544; 12,343,259 Expandable Augment System for an Acetabular Cup", Arthrology Consulting, LLC
- Derek Amanatullah. "United States Patent 12,178,421 Detecting, Characterizing, and Preventing Tissue Damage during a Surgical Procedure", Stanford University
- Derek Amanatullah. "United States Patent 12,636,000; 12,740,776 Performing a Knee Arthroplasty", Knimble Designs, Inc.
- Derek Amanatullah. "United States Patent 12,648,861 Identifying Positions of an Artificial Tibial Component during Total Knee Arthroplasty", Knimble Designs, Inc.
- Derek Amanatullah. "United States Patent 9,320,637; 9,750,631; 10,758,395 Dynamic Hallux Tension Device for Plantar Fasciitis", Arthrology Designs, LLC (DBA PlantarTech)
- Derek Amanatullah. "United States Patent 9,468,570 Cool-cut Cast Saw Blade", Arthrology Consulting, LLC
- Derek Amanatullah. "United States Patent D1,082,015 Foot Splint (design patent)", Arthrology Designs, LLC (DBA PlantarTech)
- Derek Amanatullah. "United States Patent D873,701 Jewelry Piece (design patent)", Arthrology Consulting, LLC

LINKS

- Get a Second Opinion: https://stanfordhealthcare.org/second-opinion/overview.html
- My website: https://derekamanatullah.com/

Research & Scholarship

CLINICAL TRIALS

- Study in Patients Undergoing Debridement, Antibiotics, and Implant Retention (DAIR) for Treatment of a Periprosthetic Joint Infection (PJI) Occurring After Total Knee Arthroplasty (TKA), Not Recruiting

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Muzzammil Ahmadzada

Doctoral (Program)

Jeongyeon Kim

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Adult Reconstruction (Fellowship Program)

Publications

PUBLICATIONS

- **Technology Review: The Hidden Influence of AI in Orthopaedic Surgery.** *Journal of the American Academy of Orthopaedic Surgeons. Global research & reviews*
  Olson, S. N., Ulrich, M. N., Wyles, C. C., Amanatullah, D. F.
  2026; 10 (8)
- **The presence of persistent synovial inflammation after "Eradication" unmasks the "Unseen" dormant state of infection allowing the prediction of infection free survival in total joint replacements.** *Journal of translational medicine*
  Manasherob, R., Warren, S. I., Flanagan, C. M., Arora, P., Heo, L., Moore, C. J., Chow, S. K., Otieno-Ayayo, Z. N., Furukawa, D., Maloney, W. J., Lowenberg, D. W., Goodman, S. B., Amanatullah, et al
  2025; 23 (1): 1392
- **Circulating Bacteriophage DNA Distinguishes Staphylococcal Infection from Commensal Colonization.** *The Journal of arthroplasty*
  Manasherob, R., Furukawa, D., Haddock, N. L., Chang, T. H., Hargil, A., Arora, P., Banaei, N., Maloney, W. J., Bollyky, P. L., Amanatullah, D. F.
  2025

- **Optimized Dosing and Delivery of Bacteriophage Therapy for Chronic Wound Infections**
  Lin, Y., Dharmaraj, T., Chen, Q., Echterhof, A., Zhang, L. J., Chang, T., Pourtois, J., Liuew, C., Li, Z., Hajfathalian, M., Blankenberg, F. G., Amanatullah, D., Chaudhuri, et al
  WILEY.2025

- **The mononuclear phagocyte system obscures the accurate diagnosis of infected joint replacements.** *Journal of translational medicine*
  Manasherob, R., Warren, S. I., Arora, P., Heo, L., Haddock, N. L., Koliesnik, I., Furukawa, D., Otieno-Ayayo, Z. N., Maloney, W. J., Lowenberg, D. W., Goodman, S. B., Amanatullah, D. F.
  2024; 22 (1): 1041

- **Host and Microbial Characteristics Associated with Recurrent Prosthetic Joint Infections.** *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*
  Hampton, J. P., Zhou, J. Y., Kameni, F. N., Espiritu, J. R., Manasherob, R., Cheung, E., Miller, M. D., Huddleston, J. I., Maloney, W. J., Goodman, S. B., Amanatullah, D. F.
  2023

- **Is Operative Time Associated With Obesity-related Outcomes in TKA?** *Clinical orthopaedics and related research*
  Abella, M. K., Angeles, J. P., Finlay, A. K., Amanatullah, D. F.
  2023

- **Selecting a High-dose Antibiotic-laden Cement Knee Spacer.** *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*
  Hollyer, I., Ivanov, D., Kappagoda, S., Lowenberg, D. W., Goodman, S. B., Amanatullah, D. F.
  2023

- **Does Operative Time Modify Obesity-related Outcomes in THA?** *Clinical orthopaedics and related research*
  Abella, M. K., Angeles, J. P., Finlay, A. K., Amanatullah, D. F.
  2023

- **Immune checkpoint upregulation in periprosthetic joint infection.** *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*
  Warren, S. I., Charville, G. W., Manasherob, R., Amanatullah, D. F.
  2022

- **Migration Patterns for Revision Total Knee Arthroplasty in the United States as Reported in the American Joint Replacement Registry.** *The Journal of arthroplasty*
  Lawson, K. A., Chen, A. F., Springer, B. D., Illgen, R. L., Lewallen, D. G., Huddleston, J. I., Amanatullah, D. F.
  2021

- **Tolerant Small-colony Variants Form Prior to Resistance Within a Staphylococcus aureus Biofilm Based on Antibiotic Selective Pressure.** *Clinical orthopaedics and related research*
  Manasherob, R. n., Mooney, J. A., Lowenberg, D. W., Bollyky, P. L., Amanatullah, D. F.
  2021

- **The routine use of synovial alpha-defensin is not necessary.** *The bone & joint journal*
  Amanatullah, D. F., Cheng, R. Z., Huddleston Iii, J. I., Maloney, W. J., Finlay, A. K., Kappagoda, S. n., Suh, G. A., Goodman, S. B.
  2020; 102-B (5): 593–99

- **Surgery Before Subspecialty Referral for Periprosthetic Knee Infection Reduces the Likelihood of Infection Control.** *Clinical orthopaedics and related research*
  Song, S. Y., Goodman, S. B., Suh, G., Finlay, A. K., Huddleston, J. I., Maloney, W. J., Amanatullah, D. F.
  2018

- **Elevated Body Mass Index Is Associated With Early Total Knee Revision for Infection** *JOURNAL OF ARTHROPLASTY*
  Electricwala, A. J., Jethanandani, R. G., Narkbunnam, R., Huddleston, J. I., Maloney, W. J., Goodman, S. B., Amanatullah, D. F.
  2017; 32 (1): 252-255

- **Assessment of Acetabular Component Anteversion Following Total Hip Arthroplasty: Current Imaging Techniques and Limitations.** *The Journal of arthroplasty*
  Edelstein, A., Smitterberg, C. W., Amanatullah, D. F., Chen, A. F., Mont, M. A.
  2026

- **Dosing and delivery of bacteriophage therapy in a murine wound infection model.** *Nature communications*
  Lin, Y. H., Dharmaraj, T., Chen, Q., Echterhof, A., Manasherob, R., Zhang, L. J., Li, Z., de Leeuw, C., Peterson, N. A., Chang, T. H., Stannard, W., Hajfathalian, M., Hargil, et al
  2026; 17 (1)

- **Intraoperative Assessment of Component Loosening in Hip Arthroplasty: An International Delphi Consensus.** *The Journal of arthroplasty*
  Hopman, A. G., Blankevoort, L., Amanatullah, D. F., Lustig, S., Schafroth, M. U., Kievit, A. J., Members Hip Arthroplasty Loosening (HAL)-Study Group, Abdel, M. P., Allende, B. L., Argenson, J. A., Benazzo, F., Boyer, B., Browne, J. A., et al
  2026

- **Periarticular Hardware Retention does not Increase Reoperation Risk in Conversion Total Knee Arthroplasty.** *The Journal of arthroplasty*
  Tantikosol, P., Apinyakul, R., Wong, H. J., Amanatullah, D. F., Huddleston, J. I., Maloney, W. J., Goodman, S. B.
  2026

- **Are Patient-Reported Social Needs and the Social Vulnerability Index Associated With Physical Function in Orthopedic Surgery?** *Orthopedics*
  Young, B., Kemper, S. L., Amanatullah, D. F., Chou, L., Gardner, M. J., Hu, S. S., Safran, M., Kamal, R. N.
  2026: 1-7

- **Performance of large language models as a source of clinical information on bacteriophage therapy** *NPJ VIRUSES*
  Walter, N., Amanatullah, D. F., Debarbieux, L., Doub, J. B., Ferry, T., Gross, J., Miedzybrodzki, R., Mirzaei, M., Deng, L., Racenis, K., Suh, G. A., Que, Y., Gorski, et al
  2026; 4 (1)

- **Technology Review: The Hidden Influence of AI in Orthopaedic Surgery.** *Journal of the American Academy of Orthopaedic Surgeons. Global research & reviews*
  Olson, S. N., Ulrich, M. N., Wyles, C. C., Amanatullah, D. F.
  2026; 10 (8)

- **Creating a "Box View" of Periprosthetic Distal Femur Fractures Using Three-Dimensional Image Processing.** *Hawai'i journal of health & social welfare*
  Fithian, A., Goodnough, L. H., DeBaun, M., Banta, W., Hall, K., Amanatullah, D., Bishop, J., Gardner, M.
  2026; 85 (6): 156-162

- **Diagnosis of aseptic loosening after hip arthroplasty : international Delphi consensus.** *The bone & joint journal*
  Hopman, A. G., Blankevoort, L., Lustig, S., Amanatullah, D. F., Schafroth, M. U., Kievit, A. J., Hip Arthroplasty Loosening (HAL) Study Group, Abdel, M. P., Allende, B. L., Argenson, J. A., Benazzo, F., Boyer, B., Browne, J. A., et al
  2026; 108-B (6): 758-765

- **Fear and the Adoption of Technology in Total Hip Arthroplasty.** *The Journal of arthroplasty*
  Blumenfeld, T. J., Fitzsimmons, L. E., Goodman, S. B., Amanatullah, D. F.
  2026

- **Comorbidities Affect the Racial Disparities in the Incidence of Periprosthetic Joint Infection after Total Knee Arthroplasty.** *The Journal of arthroplasty*
  Furukawa, D., Pike, C. W., Hui, G., Coyle, J., Amanatullah, D. F.
  2026

- **Defining Expanded Episode-Based Surgical Quality Measurement.** *JAMA network open*
  Mott, N. M., Benitez, T. M., Connochie, D. M., Klamerus, M. L., Bernstein, S. J., Kerr, E. A., Ibrahim, A. M., Harris, A. H., Rosen, A. K., Howard, R. A., Meddings, J. A., Klag, E. A., Laidlaw, et al
  2026; 9 (4): e266176

- **Reply to Letter to the Editor on "Patients Who Have Limited English Proficiency Are More Likely to Receive Elective Total Joint Arthroplasty".** *The Journal of arthroplasty*
  Angeles, J. P., Abella, M. K., McGovern, A. G., Espiritu, J. R., Bankston, M. E., Arora, P., Koltsov, J. C., Finlay, A. K., Giori, N. J., Huddleston, J. I., Maloney, W. J., Goodman, S. B., Amanatullah, et al
  2026; 41 (3): e22-e23

- **The Impact of a Lightweight Pneumatic Robotic Knee Wearable on Gait.** *Case reports in orthopedics*
  Lee, J. J., Lyons, S., Arora, P., Morgan, J. J., Chan, S., Amanatullah, D. F.

2026; 2026: 7160005

- **Synovial fluid α-defensin might be false positive in early stages after major total arthroplasty revision surgery.** *Journal of bone and joint infection*
  Mrutyunjaya, S., Banta, W. A., Espiritu, J. R., Amanatullah, D. F.
  2026; 11 (1): 1-4
- **Synovial fluid α-defensin might be false positive in early stages after major total arthroplasty revision surgery** *JOURNAL OF BONE AND JOINT INFECTION*
  Mrutyunjaya, S., Banta, W. A., Espiritu, J. R. B., Amanatullah, D. F.
  2026; 11 (1): 1-4
- **Death after Total Hip Arthroplasty in Patients with Compensated Heart Failure: Retrospective Cohort Study.** *Hawai'i journal of health & social welfare*
  Amin, R., Banta, W., Guilbalt, R., Patel, N., Rao, S., Raad, M., Best, M., Amanatullah, D.
  2026; 85 (6): 149-155
- **Avoiding a Proximal Femoral Replacement During the Management of a Critical-Sized Subtrochanteric Bone Defect** *CASE REPORTS IN ORTHOPEDICS*
  Mrutyunjaya, S., Amanatullah, D. F.
  2026; 2026 (1)
- **Variable Axial Rotation is Needed to Achieve a Balanced Flexion Gap in Total Knee Arthroplasty.** *Journal of surgical orthopaedic advances*
  Hooper, J. M., Lawson, K. A., Amanatullah, D. F., Dipl Ing, C. M., Dipl Ing, L. D., Huddleston, J. I.
  2025; 34 (4): 193-195
- **Modern Plasma Medicine and Orthopaedic Surgery: A Brief History and Outlook** *SURGICAL TECHNOLOGY INTERNATIONAL-INTERNATIONAL DEVELOPMENTS IN SURGERY AND SURGICAL RESEARCH*
  Korth, M., Manasherob, R., Mrutyunjaya, S., Bala, A., Indelli, P. F., Giori, N. J., Amanatullah, D. F.
  2025; 45
- **Socioeconomic Deprivation and Outcomes After Total Joint Arthroplasty: An Analysis of the American Joint Replacement Registry Using the Area Deprivation Index.** *The Journal of arthroplasty*
  Zalikha, L., Amanatullah, D. F., Jahan, M., Donnelly, P., Cohen, E. M., El-Othmani, M. M.
  2025
- **Diagnosing Flexion Laxity after Knee Arthroplasty Using the "Hanging" Clunk Test and the Standard-to-Hanging Lateral Difference.** *The Journal of arthroplasty*
  Blumenfeld, T. J., Bargar, W. L., Amanatullah, D. F.
  2025
- **2025 ICM: Two-Stage.** *The Journal of arthroplasty*
  Elhence, A., Böhler, C., Kolhoff, F., Fraval, A., Sharma, R. K., Belden, K., Aggarwal, V. K., Amanatullah, D., Ascione, T., Atilla, B., Bozhkova, S. A., Daniliyants, A., De Meo, et al
  2025
- **2025 ICM: Risk Factors for Surgical Site Infection (SSI)/Periprosthetic Joint Infection (PJI).** *The Journal of arthroplasty*
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PRESENTATIONS

- Total Hip after Periacetabular Osteotomy - International Congress for Joint Replacement (July 2014)
- Total Knee Arthroplasty after Lower Extremity Amputation - International Congress for Joint Replacement (July 2014)
- Identification of the Landmark Registration Safe Zones during Total Knee Arthroplasty Using an Imageless Navigation System, - International Congress for Joint Replacement (July 2014)
- Total Hip Arthroplasty after Lower Extremity Amputation - International Congress for Joint Replacement (7/14/2014 - 7/14/2014)
- Non-Oncologic Total Femoral Replacement: Retrospective Review - International Congress for Joint Replacement
- Total Hip Arthroplasty for Developmental Dysplasia of the Hip in Down Syndrome - International Congress for Joint Replacement
- The Position of the Joint Line in Relationship to Anatomic Landmarks of the Knee - International Congress for Joint Replacement
- Total Knee Arthroplasty after Lower Extremity Amputation - International Congress for Arthroplasty Registries
- Non-Oncologic Total Femoral Replacement: Retrospective Review - International Congress for Arthroplasty Registries
- Total Hip Arthroplasty for Developmental Dysplasia of the Hip in Down Syndrome - International Congress for Arthroplasty Registries
- Total Hip after Periacetabular Osteotomy - International Congress for Arthroplasty Registries
- Total Hip after Periacetabular Osteotomy - Young Investigator Research Symposium

- Mayo Clinic Total Joint Registry, - University of California, Davis Grand Rounds
- The Position of the Joint Line in Relationship to Anatomic Landmarks of the Knee, - International Society of Technology in Arthroplasty
- Identification of the Landmark Registration Safe Zones during Total Knee Arthroplasty Using an Imageless Navigation System, - International Society of Technology in Arthroplasty
- An Additional Financial Burden On The Orthopedic Trauma Surgery Service at a Level I Trauma Center: When Our County Will Longer Pay for Services Rendered, - Western Orthopaedic Association
- The Position of the Joint Line in Relationship to Anatomic Landmarks of the Knee, - University of California, Davis Graduation Symposium
- Identification of the Landmark Registration Safe Zones during Total Knee Arthroplasty Using an Imageless Navigation System, - Computer Assisted Orthopaedic Surgery
- Management of Fractures with Arthroplasty, - University of California, Davis Grand Rounds
- Identification of the Landmark Registration Safe Zones during Total Knee Arthroplasty Using an Imageless Navigation System - Orthopaedic Research Society
- An Additional Financial Burden On The Orthopedic Trauma Surgery Service at a Level I Trauma Center: When Our County Will Longer Pay for Services Rendered - American Orthopaedic Association
- Identification of the Landmark Registration Safe Zones during Total Knee Arthroplasty Using an Imageless Navigation System, - Western Orthopaedic Association
- The Position of the Joint Line in Relationship to Anatomic Landmarks of the Knee - Orthopaedic Research Society
- Management of Articular Cartilage Defects, - University of California, Davis Grand Rounds
- Metal Wear: Generation, Biology, and Management, - University of California, Davis Grand Rounds
- Sanford and Darlene Anzel Award: Calcium Phosphate Cement and Locking Plate Augmentation for Distal Femoral Defects, - Western Orthopaedic Association
- Identification of the Landmark Registration Safe Zones during Total Knee Arthroplasty Using an Imageless Navigation System - International Congress for Joint Replacement
- Biomechanical Properties of Distal Femoral Defects, - Western Orthopaedic Association
- Traveling Clinical Scientist Program: Monitoring COMP Expression during Articular Chondrocyte Compression, - International Cartilage Repair Society
- Traveling Clinical Scientist Program: Monitoring COMP Expression during Articular Chondrocyte Compression, - International Cartilage Repair Society
- Traveling Clinical Scientist Program: Monitoring COMP Expression during Articular Chondrocyte Compression, - International Cartilage Repair Society
- Lloyd W. Taylor Award: Biomechanical Properties of Distal Femoral Defects, - California Orthopaedic Association
- Differential Gene Expression Patterns in the Surface, Middle, and Deep Zones of Bovine Articular Cartilage, - American Academy of Orthopaedic Surgeons
- Improved Strength with a Divergent Screw Orientation during the Fixation of Vertical Shear Fractures of the Medial Malleolus, - AO North American
- Optimal Fixation for Horizontal Medial Malleolus Fractures, - AO North American
- Calcium Phosphate Cement and Locking Plate Augmentation for Distal Femoral Defects, - AO North American
- Optimal Fixation for Horizontal Medial Malleolus Fractures - Western Orthopaedic Association
- c-MAF Transcription Factor Regulates ADAMTS-12 Expression in Human Chondrocytes - International Cartilage Repair Society
- Identification of the Landmark Registration Safe Zones during Total Knee Arthroplasty Using an Imageless Navigation System - Computer Assisted Orthopaedic Surgery
- Abstract Recognition Award: The Position of the Joint Line in Relationship to Anatomic Landmarks of the Knee - International Congress for Joint Replacement
- Interaction of Televancin with INR Reagents - California Orthopaedic Association
- Identification of the Landmark Registration Safe Zones during Total Knee Arthroplasty Using an Imageless Navigation System - California Orthopaedic Association
- The Position of the Joint Line in Relationship to Anatomic Landmarks of the Knee - California Orthopaedic Association
- Optimal Fixation for Horizontal Medial Malleolus Fractures - California Orthopaedic Association

- Improved Strength with Divergent Screw Orientation during the Fixation of Vertical Shear Fractures of the Medial Malleolus - Orthopaedic Research Society
- Optimal Fixation of Horizontal Medial Malleolus Fractures - Orthopaedic Research Society
- Biomechanical Properties of Distal Femoral Defects, - Connective Tissue Oncology Society – Musculoskeletal Tumor Society
- Calcium Phosphate Cement and Locking Plate Augmentation for Distal Femoral Defects, - Connective Tissue Oncology Society – Musculoskeletal Tumor Society
- Distal Tibio-Fibular Fusion (Langenskiöld Procedure) After Fibular Harvest in Children, - American Association of Pediatrics
- Vernon Thompson Award: Distinct Gene Expression Patterns in the Surface, Middle, and Deep Zones of Bovine Articular Cartilage, - Western Orthopaedic Association
- Monitoring COMP Expression during Articular Chondrocyte Compression, - Western Orthopaedic Association
- Comparison of Surgical Outcomes and Implant Wear between Ceramic-on-Ceramic and Ceramic-on-Polyethylene Bearing Surfaces in Total Hip Arthroplasty, - Western Orthopaedic Association
- Comparison of Surgical Outcomes and Implant Wear between Ceramic-on-Ceramic and Ceramic-on-Polyethylene Bearing Surfaces in Total Hip Arthroplasty, - Southwest Regional OREF/ORS Resident Research Symposium
- The Biomechanical Properties of Hybrid and Volar Locking Plate Fixation in Normal and Osteoporotic Distal Radius Sawbone Models, - Southwest Regional OREF/ORS Resident Research Symposium
- J. Harold LaBriola Award: The Biomechanical Properties of Hybrid and Volar Locking Plate Fixation in Normal and Osteoporotic Distal Radius Sawbone Models, - California Orthopaedic Association
- The Biomechanical Properties of Hybrid and Volar Locking Plate Fixation in Normal and Osteoporotic Distal Radius Sawbone Models, - American Society for Surgery of the Hand
- Interaction of Televancin with INR Reagents - American College of Physicians
- Optimal Fixation of Horizontal Medial Malleolus Fractures - Orthopaedic Trauma Association
- Improved Strength with Divergent Screw Orientation during the Fixation of Vertical Shear Fractures of the Medial Malleolus - Western Orthopaedic Association
- Hybrid and Volar Locking Plate Fixation in Normal and Osteoporotic Distal Radius Models - American Academy of Orthopaedic Surgeons
- Monitoring COMP Expression during Articular Chondrocyte Compression - Orthopaedic Research Society
- Distinct Gene Expression Patterns in the Surface, Middle, and Deep Zones of Bovine Articular Cartilage - Orthopaedic Research Society
- Comparison of Surgical Outcomes and Implant Wear between Ceramic-on-Ceramic and Ceramic-on-Polyethylene Bearing Surfaces in Total Hip Arthroplasty, - American Academy of Hip and Knee Surgeons
- Monitoring Gene Expression in Articular Chondrocytes and Bone Marrow Derived Stem Cells during Dynamic Compression, - University of California, Davis Orthopaedic Research Symposium
- Does screw orientation influence construct stiffness in vertical shear fractures of the medial malleolus? - Orthopaedic Trauma Association
- Biomechanical Consequences of Anterior Femoral Notching in Cruciate Retaining Versus Posterior Stabilized Total Knee Arthroplasty - American Academy of Hip and Knee Surgeons
- J. Harold LaBriola Award: Comparison of Surgical Outcomes and Implant Wear between Ceramic-on-Ceramic and Ceramic-on-Polyethylene Bearing Surfaces in Total Hip Arthroplasty, - California Orthopaedic Association
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- Title of Abstract: Factor Xa Inhibitors Outperform Traditional Anticoagulants in Total Hip Arthroplasty - 1) Western Orthopaedic Association (8/2017)
- Mini-posterior Approach to Total Hip Arthroplasty - American Academy of Orthopaedic Surgeons