




Amy Ladd, MD

Elsbach-Richards Professor of Surgery, Emerita

Orthopaedic Surgery

 NIH Biosketch available Online

CLINICAL OFFICE (PRIMARY)

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ACADEMIC CONTACT INFORMATION

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Bio

BIO

Dr. Ladd is a fellowship-trained orthopaedic surgeon with board certification in hand surgery and orthopaedic surgery. She is the Chief of Stanford's Chase Hand & Upper Limb Center and Chief of the Children's Hand Clinic at Lucile Salter Packard Children's Hospital at Stanford.

Dr. Ladd is also the Elsbach-Richards Professor of Surgery and Professor, by courtesy, of Medicine (Immunology & Rheumatology) and Surgery (Plastic and Reconstructive Surgery), at Stanford University Medical Center.

As an experienced specialist in hand and upper extremity surgery, Dr. Ladd treats a wide range of conditions, including arthritis, carpal tunnel syndrome, Dupuytren's disease, trigger finger, fractures, sports-related injuries, and more.

Research interests of Dr. Ladd include arthritis, musculoskeletal biomechanics, and improving patient outcomes, as well as sex/gender differences in musculoskeletal conditions. She is internationally renowned for her research on base of thumb (carpometacarpal - CMC) joint osteoarthritis, a common and debilitating disease endemic in post-menopausal women. In addition, she has developed instruments for evaluating 3D upper limb kinematics, including the golf swing.

Dr. Ladd has authored or co-authored more than 175 articles throughout the spectrum of hand surgery; biomechanics of elite performance, coordinated motion, and osteoarthritis; and general orthopaedic topics. Her work has appeared in the Journal of Hand Surgery, Journal of Bone and Joint Surgery, Clinical Orthopaedics & Related Research, Hand, Journal of the American Academy of Orthopaedic Surgeons, and many more publications. In addition, she holds over 30 patents, patent applications, and trademarks for technological innovations and advances related to hand surgery, arthritis, fractures, the golf swing, and musculoskeletal health.

Among her many honors and awards, Dr. Ladd's peers named her one of the Best Doctors in America for 2 decades. She has won the Andrew Weiland award, the highest research honor for a hand surgeon, and the Emanuel B. Kaplan Excellence in Anatomy Award, both from the American Society for

Surgery of the Hand. She has also won the Nicolas Andry Award for “significant contribution to musculoskeletal research” from the Association of Bone and Joint Surgeons, and the Distinguished Clinician Educator award from the American Orthopaedic Association.

Dr. Ladd is a former board member of the American Academy of Orthopedic Surgeons and Chair of the academy’s Board of Specialties, and is the president-elect of the Association of Bone and Joint Surgeons. As part of an initiative of the US Department of the Interior, she has provided volunteer services to the population of the Navajo Nation in Chinle, AZ. She also has delivered volunteer surgical care for children with hand conditions in Vietnam.

CLINICAL FOCUS

- Hand Surgery
- Hand and Upper Extremity Surgery
- Orthopedic Surgery
- Pediatric & congenital hand surgery

ACADEMIC APPOINTMENTS

- Emeritus (Active) Professor, Orthopaedic Surgery
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Chief, Hand and Upper Extremity Section, Department of Surgery, Palo Alto VA Medical Center, Palo Alto, CA, (1990-1998)
- Head of Outreach, SUMMIT (Stanford University Medical Media Information Technologies), (2001-2004)
- Chief of the Children’s Hand Clinic, Lucile Salter Packard Children’s Hospital at Stanford, (1991- present)
- Chief of Chase Hand & Upper Limb Center, Stanford University School of Medicine, (2005- present)
- Professor - Med Center Line (by courtesy), Plastic/Reconstructive Surgery, (2005- present)
- Assistant Dean for Student Advising, Stanford University School of Medicine, (2013- present)
- Vice-Chair, Academic Affairs, Department of Orthopaedic Surgery, (2014- present)

HONORS AND AWARDS

- Distinguished Clinician Educator Award, American Orthopaedic Association (2023)
- Andrew J. Weiland Medal, American Society for Surgery of the Hand (2017)
- Nicolas Andry Award: "significant contribution to musculoskeletal research", Association of Bone and Joint Surgeons (2014)
- Compere Award, Outstanding Scientific Paper, Twentieth Century Orthopaedic Association (2012)
- Emanuel B. Kaplan Excellence in Anatomy Award, American Society for Surgery of the Hand (2012)
- Career Development Award, OREF/RJOS/DePuy (2010)
- Dean’s Award for Distinguished Teaching, Stanford University (2010)
- Best Doctors in America database, Selected by peers (2007-2013)
- Iris Litt Fund, Institute for Women & Gender at Stanford (2004)
- Poster Exhibit Award, Best Scientific Content Honorable Mention, American Society for Surgery of the Hand Annual Meeting (2003)
- Sterling Bunnell Traveling Fellowship, American Society for Surgery of the Hand (2000-2001)
- Outstanding Faculty Physician Award, Cowell Student Health Center, Stanford University (1998)

- Woman of Achievements award, San Jose Mercury News & Women's Fund (1997)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Board member, American Academy of Orthopedic Surgeons (2016 - present)
- Chair, Board of Specialties, American Academy of Orthopedic Surgeons (2018 - present)
- Secretary, Board of Specialties, American Academy of Orthopedic Surgeons (2016 - 2017)
- Chair-elect, Board of Specialties, American Academy of Orthopedic Surgeons (2017 - 2018)
- President, Ruth Jackson Orthopaedic Society (2013 - 2014)
- Board Member, Perry Outreach Initiative (2013 - present)
- Board Member, California Orthopaedic Association (2009 - 2013)

PROFESSIONAL EDUCATION

- Fellowship: Brigham and Women's Hospital Orthopaedic Surgery Programs (1990) MA
- Residency: University of Rochester Medical Center (1989) NY
- Internship: Pacific Medical Center Seattle (1986) WA
- Board Certification: Hand Surgery, American Board of Orthopaedic Surgery (1994)
- Board Certification: Orthopaedic Surgery, American Board of Orthopaedic Surgery (1992)
- Medical Education: SUNY Upstate Medical University (1984) NY
- AB, Dartmouth College , History (1980)
- MD, SUNY Upstate Medical University , Medicine (1984)

COMMUNITY AND INTERNATIONAL WORK

- Chinle Navajo Reservation, Chinle, AZ
- Interplast, Vietnam

PATENTS

- APC Weiss, AL Ladd, R Fiebiger, GB Hulme, JJ Christian. "United States Patent US2017/0231674 A1 Wedge Shaped Fracture Fixation Devices and Methods for Using the Same", Stryker, Inc, Aug 17, 2017
- J Rose, DW Meister, AL Ladd, KM Steele. "United States Patent 2014/0257538 Methods for analyzing and providing feedback for improved power generation in a golf swing", Leland Stanford Junior University, Apr 1, 2017
- Amy Ladd. "United States Patent Registered Trademark No. 5,129,413, Serial number 86270352, Int. CI 14, 25, 35,36 Design of Looped Ribbon for bone health awareness", Amy Ladd, Jan 24, 2017
- Amy Ladd. "United States Patent TM 86/270,352 Bone Ribbon Graphic, bone health awareness", Amy Ladd, Dec 9, 2014
- Amy Ladd. "United States Patent 20130211522 Wedge Shaped Fracture Fixation Devices and Methods for Using the Same", APC Weiss, AL Ladd, R Fiebiger, GB Hulme, JJ Christian, Aug 15, 2013
- J Rose, DW Meister, AL Ladd, KM Steele. "United States Patent 8696450 Methods for analyzing and providing feedback for improved power generation in a golf swing", Leland Stanford Junior University, Jul 27, 2012
- AL Ladd, APC Weiss, GB Hulme, M Thompson, JJ Christian. "United States Patent 20120035666 Reduced Bone Fracture Fixation Device", AL Ladd, APC Weiss, GB Hulme, M Thompson, JJ Christian, Feb 9, 2011
- Amy Ladd. "United States Patent 20100217391 Tensioning Bone Implant Device", Amy Ladd, Nov 1, 2009

LINKS

- Stanford Hand Surgery: <http://handsurgery.stanford.edu/>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

1. The kinematics and forces associated with thumb carpometacarpal (CMC) function and pathology: current RO1 NIH grant evaluating the thumb position for normal functional tasks as determined with CT scans. The study evaluates normal subjects, and subjects with early arthritis over a 3 year period. Several related studies are underway.
2. The anatomy, microstructure, and immunofluorescent characteristics of the thumb CMC joint: The ligaments of the thumb CMC joint are purportedly looser in women, and wear out in arthritis. Our studies to date do not fully support this concept, and we approach further study through a variety of quantitative techniques. These include anatomical dissection, histomorphometric analysis, immunofluorescent staining to determine proprioceptive mechanoreceptors, and the histology and micro-CT analysis of trabecular wear.
3. Pathomechanics of CMC arthritis: biomechanical wear, injury, genetic, and environmental causes: A variety of studies, including biomechanical testing, demographic analysis, and co-institutional study is underway.
4. Biomechanics of the golf swing: deciphering and "indexing" coordinated, elite performance related to the golf swing and putting stroke, with a goal of remote monitoring with IMUs (inertial measurement units). Understanding coordinated movement informs understanding movement disorders such as arthritis and spasticity. An ultimate goal is applying remote sensing to remote patient monitoring (RPM) as a tool for rehabilitation.
5. Archiving, vitalizing, and innovating medical and surgical knowledge, most recently with innovative iBook monographs: a thumb CMC arthritis iBook and Anatomy iBook for patient education will be published in 2013, and the next iBook planned is congenital anomalies of the hand.

CLINICAL TRIALS

- Pain Relief After Trapeziectomy: Ibuprofen & Acetaminophen Versus Oxycodone, Recruiting

PROJECTS

- Thumb carpometacarpal (CMC) Arthritis

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Huy Dinh, Max Durtschi, Yemisi Joseph, Brenda Yu

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Hand Surgery (Fellowship Program)

Publications

PUBLICATIONS

- **National Surgical Incidence and Sociodemographic Differences for Pediatric Polydactyly of the Hand.** *Hand (New York, N.Y.)*
Young, B., Smith, G. B., Titan, A. L., Kenney, D. E., Ladd, A. L.
2026: 15589447261437827

- **Patient Perceptions Regarding Opioid Use: Factors Influencing Participation in a Postoperative Pain Management Randomized Controlled Trial after Carpometacarpal Arthroplasty.** *Hand (New York, N.Y.)*
Smith, G. B., Titan, A. L., Kenney, D. E., Reitz, R., Pham, N. S., Yao, J., Ladd, A. L.
2026: 15589447261437834
- **Outcomes After Proximal Humerus Surgery: Does Regional Anesthesia Usage Matter?** *Journal of hand surgery global online*
Young, B., Ladd, A. L.
2026; 8 (2): 100920
- **Outcomes After Proximal Humerus Surgery: Does Regional Anesthesia Usage Matter?** *Journal of Hand Surgery Global Online*
Young, B., Ladd, A. L.
2026; 8 (2)
- **Clinical Efficacy of Pulsed Electromagnetic Field Therapy on Thumb Carpometacarpal Joint Pain: A Double-Blind, Randomized, Controlled Trial.** *Hand (New York, N.Y.)*
Durtschi, M. S., Rajakumar, V., Kenney, D. E., Pham, N. S., Ladd, A. L., Chou, R. C.
2025: 15589447251371088
- **Incidence and Risk Factors for Soft Tissue Hand and Wrist Conditions in Pregnancy and Postpartum.** *Journal of hand surgery global online*
Smith, G. B., Young, B., Titan, A. L., Kenney, D. E., Ladd, A. L.
2025; 7 (5): 100778
- **Osteoarthritis Progression, Pain, and Function in Early Carpometacarpal Osteoarthritis: A Six-Year Longitudinal Study.** *Journal of hand surgery global online*
Ajayi, P. T., Morton, A. M., Ladd, A. L., Weiss, A. C., Crisco, J. J.
2025; 7 (5): 100795
- **Proof of Concept and Validation of Single-Camera AI-Assisted Live Thumb Motion Capture.** *Sensors (Basel, Switzerland)*
Dinh, H. G., Zhou, J. Y., Benmira, A., Kenney, D. E., Ladd, A. L.
2025; 25 (15)
- **Outcomes of thumb metacarpophalangeal arthrodesis using intramedullary locking screws.** *The Journal of hand surgery, European volume*
Wise, C. E., Kenney, D. E., Ladd, A. L.
2025: 17531934251340239
- **Hand Osteoarthritis: Molecular Mechanisms, Randomized Controlled Trials, and the Future of Targeted Treatment.** *International journal of molecular sciences*
Joseph, Y. D., Ladd, A. L., Bhutani, N.
2025; 26 (10)
- **Development of International Quality Measures Targeting Low-Value Care in Hand Surgery.** *The Journal of hand surgery*
Schultz, E. A., Kamal, R. N., Shapiro, L. M.
2025
- **Morphological changes to peripheral joints supporting thumb trapezial metacarpal osteoarthritis.** *Journal of biomechanics*
Kerkhof, F. D., Schneider, M. T., Shelby, T., Weiss, A. C., Moore, D. C., Crisco, J. J., Ladd, A. L.
2025; 180: 112519
- **The multidirectional roles of the anterior oblique ligament and dorsoradial ligament of the thumb carpometacarpal joint.** *Journal of orthopaedic research : official publication of the Orthopaedic Research Society*
Kalshoven, J. M., Badida, R., Morton, A. M., Molino, J., Weiss, A. C., Ladd, A. L., Crisco, J. J.
2024
- **Strengthening the Pipeline: Promoting Diversity into Orthopedic Surgery.** *Clinics in sports medicine*
van Niekerk, M., O'Mara, A., Kha, S., Zhou, J., McAdams, T. A., Ladd, A., Shea, K., Frick, S., Maloney, W. J., Chu, C. R.
2024; 43 (2): 253-270
- **Opportunistic hand radiographs to screen for low forearm bone mineral density: a prospective and retrospective cohort study.** *BMC musculoskeletal disorders*
O'Mara, A., Kerkhof, F., Kenney, D., Segovia, N., Asbell, P., Ladd, A. L.

2024; 25 (1): 159

- **Validation of Inertial Measurement Units for Analyzing Golf Swing Rotational Biomechanics.** *Sensors (Basel, Switzerland)*
Kim, S. E., Burket Koltsov, J. C., Richards, A. W., Zhou, J., Schadl, K., Ladd, A. L., Rose, J.
2023; 23 (20)
- **Reply to Letter to the Editor: Increased Prevalence of Breast and All-cause Cancer in Female Orthopaedic Surgeons.** *Journal of the American Academy of Orthopaedic Surgeons. Global research & reviews*
Chou, L. B., Johnson, B., Shapiro, L. M., Pun, S., Cannada, L. K., Chen, A. F., Valone, L. C., Van Nortwick, S. S., Ladd, A. L., Finlay, A. K.
2023; 7 (9)
- **A review of wear debris in thumb base joint implants.** *European journal of orthopaedic surgery & traumatology : orthopedie traumatologie*
Mangan, F., Spece, H., Weiss, A. C., Ladd, A. L., Stockmans, F., Kurtz, S. M.
2023
- **Dorsal Subluxation of the First Metacarpal During Thumb Flexion is an Indicator of Carpometacarpal Osteoarthritis Progression.** *Clinical orthopaedics and related research*
Morton, A. M., Moore, D. C., Ladd, A. L., Weiss, A. C., Molino, J., Crisco, J. J.
2023
- **Helping Surgeons' Hands: A Biomechanical Evaluation of Ergonomic Instruments.** *The Journal of hand surgery*
Putnam, J. G., Kerkhof, F. D., Shah, K., Richards, A. W., Ladd, A.
2023
- **Potential biomechanical risk factors on developing lead knee osteoarthritis in the golf swing.** *Scientific reports*
Kim, S. E., Pham, N. S., Park, J. H., Ladd, A., Lee, J.
2022; 12 (1): 22653
- **The swing performance Index: Developing a single-score index of golf swing rotational biomechanics quantified with 3D kinematics.** *Frontiers in sports and active living*
Zhou, J. Y., Richards, A., Schadl, K., Ladd, A., Rose, J.
2022; 4: 986281
- **The biomechanics of osteoarthritis in the hand: Implications and prospects for hand therapy.** *Journal of hand therapy : official journal of the American Society of Hand Therapists*
Kerkhof, F., Kenney, D., Ogle, M., Shelby, T., Ladd, A.
2022
- **Using a finite element model of the thumb to study Trapeziometacarpal joint contact during lateral pinch.** *Clinical biomechanics (Bristol, Avon)*
Dong, M., Kerkhof, F., Deleu, G., Vereecke, E., Ladd, A.
2022; 101: 105852
- **The Environmental Impact of Orthopaedic Surgery.** *The Journal of bone and joint surgery. American volume*
Saleh, J. R., Mitchell, A., Kha, S. T., Outterson, R., Choi, A., Allen, L., Chang, T., Ladd, A. L., Goodman, S. B., Fox, P., Chou, L.
2022
- **Bone morphological changes of the trapezium and first metacarpal with early thumb osteoarthritis progression.** *Clinical biomechanics (Bristol, Avon)*
Morton, A. M., Peipert, L. J., Moore, D. C., Ladd, A. L., Weiss, A. C., Molino, J., Crisco, J. J.
2022; 100: 105791
- **The Role of the Flexor Carpi Radialis Groove in Trapeziometacarpal Osteoarthritis.** *Hand (New York, N.Y.)*
Mitchell, A. R., Kerkhof, F. D., Wadhwa, H., Ladd, A. L.
2022: 15589447221120844
- **A Shared Genetic Architecture Between Adhesive Capsulitis and Dupuytren's Disease.** *Journal of shoulder and elbow surgery*
Kim, S. K., Khan, C., Ladd, A. L., Tashjian, R. Z.
2022
- **Characterization of Trapezial Pommel in Relation to Radiographic and Wear Patterns in Carpometacarpal Osteoarthritis.** *Hand (New York, N.Y.)*

- Bourdillon, A. T., Shapiro, L., Kerkhof, F. D., Segovia, N. A., Weiss, A. P., Ladd, A. L.
2022: 15589447221093670
- **Evaluation of the PROMIS Upper Extremity Against Validated Patient-Reported Outcomes in Patients with Early Carpometacarpal Osteoarthritis.** *The Journal of hand surgery*
Garcia-Lopez, E., Moore, D. C., Kenney, D. E., Ladd, A. L., Weiss, A. C., Crisco, J. J.
2022
 - **Increased Prevalence of Breast and All-cause Cancer in Female Orthopaedic Surgeons** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS GLOBAL RESEARCH AND REVIEWS*
Chou, L. B., Johnson, B., Shapiro, L. M., Pun, S., Cannada, L. K., Chen, A. F., Valone, L. C., Van Nortwick, S. S., Ladd, A. L., Finlay, A. K.
2022; 6 (5)
 - **Increased Prevalence of Breast and All-cause Cancer in Female Orthopaedic Surgeons.** *Journal of the American Academy of Orthopaedic Surgeons. Global research & reviews*
Chou, L. B., Johnson, B., Shapiro, L. M., Pun, S., Cannada, L. K., Chen, A. F., Valone, L. C., Van Nortwick, S. S., Ladd, A. L., Finlay, A. K.
2022; 6 (5)
 - **Adhesive Taping Shows Better Cosmetic Outcomes Than Tissue Adhesives for Sutured Upper Extremity Incisions: A Single-Blind Prospective Randomized Controlled Trial** *ORTHOPEDICS*
Mcquillan, T. J., Vora, M., Hawkins, J., Kenney, D., Diaz, R., Ladd, A. L.
2022; 45 (1): E42-E46
 - **Ultrasound of Thumb Muscles and Grasp Strength in Early Thumb Carpometacarpal Osteoarthritis.** *The Journal of hand surgery*
Lai, C., Kenney, D., Kerkhof, F., Finlay, A., Ladd, A., Roh, E.
2021
 - **Representation of Male and Female Orthopedic Surgeons in Specialty Societies** *ORTHOPEDICS*
Attia, A. C., Brown, S. M., Ladd, A. L., Mulcahey, M. K.
2021; 44 (5): 289+
 - **Musculoskeletal Education in Medical Schools: a Survey in California and Review of Literature.** *Medical science educator*
Wang, T., Xiong, G., Lu, L., Bernstein, J., Ladd, A.
2021; 31 (1): 131-136
 - **Musculoskeletal Education in Medical Schools: a Survey in California and Review of Literature** *MEDICAL SCIENCE EDUCATOR*
Wang, T., Xiong, G., Lu, L., Bernstein, J., Ladd, A.
2021; 31 (1): 131-36
 - **ASSH 75 Years: An Update of Progress Over the Past 25 Years.** *The Journal of hand surgery*
Abzug, J. M., Bednar, J. M., Ezaki, M., Hammert, W., Jain, S. A., Kozin, S. H., Ladd, A. L., Nagle, D. J.
2020; 45 (11): 1070-81
 - **Radiographic Progression of Thumb CMC Osteoarthritis: A Systematic Review.** *Journal of hand surgery global online*
Shapiro, L. M., McQuillan, T. J., Kerkhof, F. D., Ladd, A.
2020; 2 (6): 343-348
 - **Letter to the Editor: Art in Science: The 'Pygmy' Chair and the Tenodesis Effect.** *Clinical orthopaedics and related research*
Kwong, J. W., Ladd, A. L.
2020
 - **Rotational stability of scaphoid waist non-union bone graft and fixation techniques.** *The Journal of hand surgery*
Gire, J. D., Thio, T., Behn, A. W., Kamal, R. N., Ladd, A. L.
2020
 - **Single Assessment Numeric Evaluation (SANE) in Hand Surgery: Does a One-Question Outcome Instrument Compare Favorably?** *The Journal of hand surgery*
Gire, J. D., Koltsov, J. C., Segovia, N. A., Kenney, D. E., Yao, J., Ladd, A. L.
2020
 - **An Anatomical Evaluation of the Trapezium and Its Relationship to Basilar Joint Osteophytic Change.** *Hand (New York, N.Y.)*

- Flanagan, C. D., Tamer, P. n., Cooperman, D. R., Crisco, J. J., Ladd, A. L., Liu, R. W.
2020: 1558944720946490
- **The Association of AUSCAN and PRWHE Patient-reported Outcome Measures With Radiographic Progression of Early Thumb Carpometacarpal Arthritis at 36-Month Follow-up Is Limited to Subtle Changes in the Pain Subscale.** *Hand (New York, N.Y.)*
Gil, J. A., Kleiner, J. n., McQuillan, T. J., Kenney, D. n., Ladd, A. L., Weiss, A. C., Crisco, J. J.
2020: 1558944720928489
 - **Patient Willingness to Pay for Faster Return to Work or Smaller Incisions.** *Hand (New York, N.Y.)*
Alokozai, A., Lindsay, S. E., Eppler, S. L., Fox, P. M., Ladd, A. L., Kamal, R. N.
2019: 1558944719890039
 - **Automatic segmentation of the thumb trapeziometacarpal joint using parametric statistical shape modelling and random forest regression voting.** *Computer methods in biomechanics and biomedical engineering. Imaging & visualization*
Schneider, M. T., Zhang, J., Crisco, J. J., Weiss, A. C., Ladd, A. L., Nielsen, P. M., Besier, T.
2019; 7 (3): 297-301
 - **Osteophyte Growth in Early Thumb Carpometacarpal Osteoarthritis.** *Osteoarthritis and cartilage*
Crisco, J. J., Morton, A. M., Moore, D. C., Kahan, L. G., Ladd, A. L., Weiss, A. C.
2019
 - **Histopathological analysis of the synovium in trapeziometacarpal osteoarthritis.** *The Journal of hand surgery, European volume*
Rein, S., Okogbaa, J., Hagert, E., Manthey, S., Ladd, A.
2019: 1753193419848600
 - **The Orthopaedic Workforce Is Not as Diverse as the Population It Serves: Where Are the Minorities and the Women? AOA Critical Issues Symposium** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Harrington, M. A., Rankin, E., Ladd, A. L., Mason, B. S.
2019; 101 (8)
 - **Automatic segmentation of the thumb trapeziometacarpal joint using parametric statistical shape modelling and random forest regression voting** *COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING-IMAGING AND VISUALIZATION*
Schneider, M. T. Y., Zhang, J., Crisco, J. J., Weiss, A. C., Ladd, A. L., Nielsen, P. M. F., Besier, T.
2019; 7 (3): 297-301
 - **Golf Swing Rotational Velocity: The Essential Follow-Through** *ANNALS OF REHABILITATION MEDICINE-ARM*
Steele, K. M., Roh, E. Y., Mahtani, G., Meister, D. W., Ladd, A. L., Rose, J.
2018; 42 (5): 713-21
 - **Golf Swing Rotational Velocity: The Essential Follow-Through.** *Annals of rehabilitation medicine*
Steele, K. M., Roh, E. Y., Mahtani, G., Meister, D. W., Ladd, A. L., Rose, J.
2018; 42 (5): 713-21
 - **Bennett Fractures: A Biomechanical Model and Relevant Ligamentous Anatomy.** *The Journal of hand surgery*
Kang, J. R., Behn, A. W., Messina, J., Ladd, A. L.
2018
 - **Therapy Concepts for the Proximal Interphalangeal Joint** *HAND CLINICS*
Douglass, N. P., Ladd, A. L.
2018; 34 (2): 289+
 - **The Teleology of the Thumb: On Purpose and Design** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*
Ladd, A. L.
2018; 43 (3): 248-59
 - **Polydactyly of the Hand.** *The Journal of the American Academy of Orthopaedic Surgeons*
Comer, G. C., Potter, M., Ladd, A. L.
2018; 26 (3): 75-82
 - **Polydactyly of the Hand** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*
Comer, G. C., Potter, M., Ladd, A. L.

2018; 26 (3): 75–82

- **Trapeziometacarpal joint contact varies between men and women during three isometric functional tasks** *MEDICAL ENGINEERING & PHYSICS*
Schneider, M. T. Y., Zhang, J., Crisco, J. J., Weiss, A. C., Ladd, A. L., Mithraratne, K., Nielsen, P., Besier, T.
2017; 50: 43–49
- **CORR Insights (R): What Demographic and Clinical Characteristics Correlate With Expectations With Trapeziometacarpal Arthritis?** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Ladd, A. L.
2017; 475 (11): 2712–15
- **Candidate Quality Measures for Hand Surgery** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*
Kamal, R. N., Akelman, E., Ruch, D. S., Richard, M. J., Ladd, A., Got, C., Blazar, P., Yao, J., Kakar, S., Harris, A. H. S., Ring, D., Hand Surg Quality Consortium
2017; 42 (11): 859+
- **Incidence of Acute Complications Following Surgery for Syndactyly and Polydactyly: An Analysis of the National Surgical Quality Improvement Program Database from 2012 to 2014** *JOURNAL OF HAND SURGERY-AMERICAN VOLUME*
McQuillan, T. J., Hawkins, J. E., Ladd, A. L.
2017; 42 (9)
- **Integrating Musculoskeletal Education and Patient Care at Medical Student-Run Free Clinics.** *PM & R : the journal of injury, function, and rehabilitation*
McQuillan, T., Wilcox-Fogel, N., Kraus, E., Ladd, A., Fredericson, M.
2017
- **Reduction in Cylindrical Grasp Strength Is Associated With Early Thumb Carpometacarpal Osteoarthritis** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Coughlan, M. J., Bourdillon, A., Crisco, J. J., Kenney, D., Weiss, A., Ladd, A. L.
2017; 475 (2): 522-528
- **Incidence of Acute Complications Following Surgery for Syndactyly and Polydactyly: An Analysis of the National Surgical Quality Improvement Program Database from 2012 to 2014.** *The Journal of hand surgery*
McQuillan, T. J., Hawkins, J. E., Ladd, A. L.
2017; 42 (9): 749.e1–749.e7
- **The AUSCAN and PRWHE Demonstrate Comparable Internal Consistency and Validity in Patients With Early Thumb Carpometacarpal Osteoarthritis.** *Hand (New York, N.Y.)*
McQuillan, T. J., Vora, M. M., Kenney, D. E., Crisco, J. J., Weiss, A. C., Ebert, K. A., Snelgrove, K. E., Sarnowski, A. n., Ladd, A. L.
2017: 1558944717729217
- **Changes in Local Bone Density in Early Thumb Carpometacarpal Joint Osteoarthritis.** *The Journal of hand surgery*
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