



Emilie Cheung, MD

Associate Professor of Orthopaedic Surgery at the Stanford University Medical Center

 NIH Biosketch available Online

 Curriculum Vitae available Online

CLINICAL OFFICES

- **Stanford University Dept of Orthopaedic Surgery**

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ACADEMIC CONTACT INFORMATION

- **Academic Administrative Contact**

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Bio

BIO

Dr. Cheung specializes in surgery related to the shoulder and elbow, including shoulder replacement surgery, complex revision surgery, fracture fixation, arthroscopy, rotator cuff repair, ligament reconstruction and repair. She has been in practice at Stanford since 2006. She is a Board-certified orthopedic surgeon, a Fellow of the American Academy of Orthopedic Surgery, Member of the prestigious American Shoulder Elbow Society, Member of the Association of Clinical Elbow and Shoulder Surgeons, Member of the Mayo Elbow Club, and a Board Member of the Northern California Orthopedic Society. She completed her Orthopaedic Surgery residency at Drexel University in Philadelphia, PA. She completed her Fellowship in Shoulder and Elbow Surgery at the Mayo Clinic, in Rochester, MN.

Voted "One of the Top 65 Orthopedic Surgeons" in the country nominated by other orthopedic surgeons in 2017 by Beckers Orthopedic Review.

Voted "One of the Top 70 Female Orthopedic Surgeons to Know" in 2011 by Beckers Orthopedic Review.

Her research has focused on clinical outcomes following revision of total shoulder replacements, revision of total elbow replacements, and treatment of complications following shoulder and elbow reconstruction procedures. Her publications include those in the Journal of Bone and Joint Surgery, Journal of Shoulder and Elbow Surgery, Journal of the American Academy of Orthopedic Surgeons, and Clinical Orthopedics and Related Research. She has presented her work and often lectures at regional and national orthopaedic surgery conferences, and has written numerous textbook chapters in the field of shoulder and elbow surgery.

She helps to train the next generation of orthopedic surgeons at Stanford.

CLINICAL FOCUS

- Shoulder and Elbow Surgery
- Orthopaedic Surgery
- Shoulder replacement
- Rotator cuff repair surgery
- Arthroscopic surgery of shoulder and elbow
- Shoulder / elbow /arm fracture surgery
- Elbow replacement
- Elbow reconstruction
- Shoulder labral repair
- Shoulder SLAP repair
- Shoulder reconstruction

ACADEMIC APPOINTMENTS

- Associate Professor - Med Center Line, Orthopaedic Surgery
- Member, Bio-X

HONORS AND AWARDS

- Founders Day Award, Primary Investigator for Residents, Stanford University Department of Orthopedic Surgery (2012, 2013)
- Research Grant Award, American Shoulder Elbow Society (2010)
- Nominee, American Orthopedic Association Residents Leadership Forum (2009)
- Resident Research Grant, Primary Investigator, Orthopedic Research Education Foundation (2009)
- First Place Award, Residents' Bowl Philadelphia Orthopedic Society (2005)
- Second Place Award, Drexel University Orthopedic Surgery Research Day (2005)
- Third Place Award, Drexel University Orthopedic Surgery Research Day (2004)
- Resident Research Award, Pennsylvania Orthopedic Society (2002)
- Departmental Honors, UCLA (1996)
- Alpha Lambda Delta National Honor Society, UCLA (1993-1996)
- Phi Eta Sigma National Honor Society, UCLA (1993-1996)
- Golden Key National Honor Society, UCLA (1992-1996)
- Deans List, UCLA (1992-1993)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Faculty Shoulder and Elbow Service, Department of Orthopaedic Surgery, Stanford University (2006 - present)
- Achievement Award, American Academy of Orthopedic Surgeons (2015 - present)
- Member of Board of Directors, Northern California Western Orthopedic Association (2009 - 2011)
- Diplomate, American Board of Orthopedic Surgery (2008 - present)
- Active Member, American Shoulder Elbow Society (2012 - present)
- Active Member, Association of Clinical Elbow and Shoulder Surgeons (2007 - present)
- Fellow, American Academy of Orthopedic Surgeons (2009 - present)
- Moderator, American Academy of Orthopedic Surgeons (2009 - present)
- Invited Faculty, International Congress of Joint Replacement, Shoulder (2014 - present)
- Invited Faculty, Orthopedic Learning Center, American Shoulder Elbow Society (2008 - present)
- Course Director, Stanford University Medical Scholars Program (2008 - present)
- Member, Mayo Elbow Club (2006 - present)
- Faculty/Lab Instructor, Mayo Clinic Annual Elbow Meeting (2006 - 2011)

PROFESSIONAL EDUCATION

- Fellowship: Mayo Clinic Upper Extremity Fellowship (Shoulder and Elbow) (2006) MN
- Residency: Drexel University College of Medicine Orthopaedic Surgery Program (2005) PA
- Internship: Drexel University College of Medicine Orthopaedic Surgery Program (2001) PA
- Medical Education: New York Medical College Registrar (2000) NY
- Board Certification: Orthopaedic Surgery, American Board of Orthopaedic Surgery (2008)
- BS, UCLA , Physiological Science

LINKS

- Patient information with post-op protocols: emiliecheungmd.com
- Surgery video of Reverse shoulder replacement 2019 by Dr. Emilie Cheung: <https://youtu.be/tYK6s9g4B1w>
- Patient Information: <http://ortho.stanford.edu/shoulder-and-elbow/emilie-cheung-profile.html>
- Live surgery video of Reverse total shoulder replacement performed by Dr. Emilie Cheung: https://www.youtube.com/watch?v=Jf70_lxXMIQ
- Live surgery video of shoulder replacement (2) performed by Dr. Emilie Cheung: <https://www.youtube.com/watch?v=Mik5ZBblWq4>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Cheung specializes in surgery related to the shoulder and elbow, including fractures, joint replacements, rotator cuff repair, ligament repair, sports injuries and arthroscopic procedures. She is a Board-certified orthopedic surgeon, a Fellow of the American Academy of Orthopedic Surgery, Member of the prestigious American Shoulder Elbow Society, Member of the Association of Clinical Elbow and Shoulder Surgeons, Member of the Mayo Elbow Club, and a Board Member of the Northern California Orthopedic Society. She completed her Orthopaedic Surgery residency at Drexel University in Philadelphia, PA. She completed her Fellowship in Shoulder and Elbow Surgery at the world renowned Mayo Clinic, in Rochester, MN.

Her research has focused on clinical outcomes following revision of total shoulder replacements, revision of total elbow replacements, and treatment of complications following shoulder and elbow reconstruction procedures. Her publications include those in the *Journal of Bone and Joint Surgery*, *Journal of Shoulder and Elbow Surgery*, *Journal of the American Academy of Orthopedic Surgeons*, and *Clinical Orthopedics and Related Research*. She has presented her work and often lectures at regional and national orthopaedic surgery conferences, and has written numerous textbook chapters in the field of shoulder and elbow reconstruction. Her current research topics include localized bone mineral density in the shoulder after arthroplasty and 3-dimensional kinematic study of the shoulder girdle.

Publications

PUBLICATIONS

- **Successful reversal of phrenic nerve blockade following washout of interscalene nerve block as demonstrated by ultrasonographic diaphragmatic excursion.** *Journal of clinical anesthesia*
Ngai, L. K., Ma, W., Costouros, J. G., Cheung, E. V., Horn, J., Tsui, B. C.
2019; 59: 46–48
- **Impact of screw length and screw quantity on reverse total shoulder arthroplasty glenoid fixation for 2 different sizes of glenoid baseplates.** *JSES open access*
Roche, C., DiGeorgio, C., Yegres, J., VanDeven, J., Stroud, N., Flurin, P. H., Wright, T., Cheung, E., Zuckerman, J. D.
2019; 3 (4): 296–303
- **Safety and Efficacy of Intraoperative Computer-Navigated Versus Non-Navigated Shoulder Arthroplasty at a Tertiary Referral** *ORTHOPEDIC CLINICS OF NORTH AMERICA*
Barrett, I., Ramakrishnan, A., Cheung, E.
2019; 50 (1): 95–+
- **Clinical and radiographic comparison of a hybrid cage glenoid to a cemented polyethylene glenoid in anatomic total shoulder arthroplasty.** *Journal of shoulder and elbow surgery*
Friedman, R. J., Cheung, E., Grey, S. G., Flurin, P. H., Wright, T. W., Zuckerman, J. D., Roche, C. P.
2019
- **Instability after reverse total shoulder arthroplasty** *JOURNAL OF SHOULDER AND ELBOW SURGERY*
Cheung, E. V., Sarkissian, E. J., Sox-Harris, A., Comer, G. C., Saleh, J. R., Diaz, R., Costouros, J. G.
2018; 27 (11): 1946–52

- **Instability after reverse total shoulder arthroplasty.** *Journal of shoulder and elbow surgery*
Cheung, E. V., Sarkissian, E. J., Sox-Harris, A., Comer, G. C., Saleh, J. R., Diaz, R., Costouros, J. G.
2018
- **Are Age and Patient Gender Associated With Different Rates and Magnitudes of Clinical Improvement After Reverse Shoulder Arthroplasty?** *Clinical orthopaedics and related research*
Friedman, R. J., Cheung, E. V., Flurin, P., Wright, T., Simovitch, R. W., Bolch, C., Roche, C. P., Zuckerman, J. D.
2018; 476 (6): 1264–73
- **Are Age and Patient Gender Associated With Different Rates and Magnitudes of Clinical Improvement After Reverse Shoulder Arthroplasty?** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Friedman, R. J., Cheung, E. V., Flurin, P., Wright, T., Simovitch, R. W., Bolch, C., Roche, C. P., Zuckerman, J. D.
2018; 476 (6): 1264–73
- **Functionally Graded, Bone- and Tendon-Like Polyurethane for Rotator Cuff Repair** *ADVANCED FUNCTIONAL MATERIALS*
Ker, D., Wang, D., Behn, A., Wang, E., Zhang, X., Zhou, B., Mercado-Pagan, A., Kim, S., Kleimeyer, J., Gharaibeh, B., Shanjani, Y., Nelson, D., Safran, et al
2018; 28 (20)
- **Rate of Improvement in Clinical Outcomes with Anatomic and Reverse Total Shoulder Arthroplasty** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Simovitch, R. W., Friedman, R. J., Cheung, E. V., Flurin, P., Wright, T., Zuckerman, J. D., Roche, C.
2017; 99 (21): 1801–11
- **Revision Total Elbow Arthroplasty** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*
Ramirez, M. A., Cheung, E. V., Murthi, A. M.
2017; 25 (8): E166–E174
- **Treatment of Massive Irreparable Rotator Cuff Tears: A Cost-effectiveness Analysis** *ORTHOPEDICS*
Kang, J. R., Sin, A. T., Cheung, E. V.
2017; 40 (1): E65-E76
- **Hemiarthroplasty for Proximal Humerus Fractures** *TECHNIQUES IN SHOULDER AND ELBOW SURGERY*
Cheung, E. V.
2016; 17 (3): 110–15
- **Shoulder Arthroplasty: Key Steps to Improve Outcomes and Minimize Complications.** *Instructional course lectures*
Cheung, E. V., Diaz, R., Athwal, G. S., Sanchez-Sotelo, J., Sperling, J. W.
2016; 65: 109-126
- **Posterior Glenoid Wear in Total Shoulder Arthroplasty: Eccentric Anterior Reaming Is Superior to Posterior Augment** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Wang, T., Abrams, G. D., Behn, A. W., Lindsey, D., Giori, N., Cheung, E. V.
2015; 473 (12): 3928-3936
- **Complications of Elbow Trauma** *HAND CLINICS*
Cheung, E. V., Sarkissian, E. J.
2015; 31 (4): 683-?
- **Determining Center of Rotation and Scapular Notching in Reverse Total Shoulder Arthroplasty: A Reliability Study** *TECHNIQUES IN SHOULDER AND ELBOW SURGERY*
Bragg, W., Niu, E., Harris, A. S., Nguyen, M., Cheung, E.
2015; 16 (2): 52–58
- **Patient adherence with postoperative restrictions after rotator cuff repair.** *Journal of shoulder and elbow surgery*
Silverio, L. M., Cheung, E. V.
2014; 23 (4): 508-513
- **MRI detection of forearm soft tissue injuries with radial head fractures.** *Hand (New York, N.Y.)*
McGinley, J. C., Gold, G., Cheung, E., Yao, J.
2014; 9 (1): 87-92

- **Biomechanical evaluation of a coracoclavicular and acromioclavicular ligament reconstruction technique utilizing a single continuous intramedullary free tendon graft.** *Journal of shoulder and elbow surgery*
Abrams, G. D., McGarry, M. H., Jain, N. S., Freehill, M. T., Shin, S., Cheung, E. V., Lee, T. Q., Safran, M. R.
2013; 22 (7): 979-985
- **Response to letter to editor regarding "Risk factors for development of heterotopic ossification of the elbow after fracture fixation".** *Journal of shoulder and elbow surgery*
Abrams, G. D., Bellino, M. J., Cheung, E. V.
2013; 22 (7)
- **Risk factors for development of heterotopic ossification of the elbow after fracture fixation** *JOURNAL OF SHOULDER AND ELBOW SURGERY*
Abrams, G. D., Bellino, M. J., Cheung, E. V.
2012; 21 (11): 1550-1554
- **Arthroscopic Rotator Cuff Repair-Traditional Anchor Techniques** *OPERATIVE TECHNIQUES IN SPORTS MEDICINE*
Cheung, E. V., Safran, M. R.
2012; 20 (3): 213-219
- **Postoperative pain associated with orthopedic shoulder and elbow surgery: a prospective study** *JOURNAL OF SHOULDER AND ELBOW SURGERY*
Desai, V. N., Cheung, E. V.
2012; 21 (4): 441-450
- **Arthroscopic Rotator Cuff Repair - Traditional Anchor Techniques** *Operative Techniques in Sports Medicine*
Emilie Cheung, M., Marc Safran, MD
2012; 20 (3): 213-219
- **The "anconeus slide": rotation flap for management of posterior wound complications about the elbow** *JOURNAL OF SHOULDER AND ELBOW SURGERY*
Fleager, K. E., Cheung, E. V.
2011; 20 (8): 1310-1316
- **Complications in Reverse Total Shoulder Arthroplasty** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*
Cheung, E., Willis, M., Walker, M., Clark, R., Frankle, M. A.
2011; 19 (7): 439-449
- **Strategies in Biologic Augmentation of Rotator Cuff Repair: A Review** *CLINICAL ORTHOPAEDICS AND RELATED RESEARCH*
Cheung, E. V., Silverio, L., Sperling, J. W.
2010; 468 (6): 1476-1484
- **Delivered growth factor therapy to improve healing after rotator cuff repair.** *Stem cells and cloning : advances and applications*
Cheung, E. V., Silverio, L., Yao, J.
2010; 3: 135-144
- **Delivered growth factor therapy to improve healing after rotator cuff repair** *STEM CELLS AND CLONING-ADVANCES AND APPLICATIONS*
Cheung, E. V., Silverio, L., Yao, J.
2010; 3: 135-44
- **External Fixation and Centralization Versus External Fixation and Ulnar Osteotomy: The Treatment of Radial Dysplasia Using the Resolved Total Angle of Deformity** *JOURNAL OF PEDIATRIC ORTHOPAEDICS*
McCarthy, J. J., Kozin, S. H., Tuohy, C., Cheung, E., Davidson, R. S., Noonan, K.
2009; 29 (7): 797-803
- **Open distal clavicle resection : isolated or with adjunctive acromioplasty** *ACTA ORTHOPAEDICA BELGICA*
Cheung, E. V., Sperling, J. W., Zarkadas, P. C., Cofield, R. H.
2009; 75 (5): 581-587
- **Surgical Approaches to the Elbow** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*
Cheung, E. V., Steinmann, S. R.
2009; 17 (5): 325-333

- **High revision rate after total elbow arthroplasty with a linked semiconstrained device.** *Orthopedics*
Patil, N., Cheung, E. V., Mow, C. S.
2009; 32 (5): 321-?
- **Monteggia fracture-dislocation associated with proximal and distal radioulnar joint instability. A case report.** *Journal of bone and joint surgery. American volume*
Cheung, E. V., Yao, J.
2009; 91 (4): 950-954
- **Monteggia Fracture-Dislocation Associated with Proximal and Distal Radioulnar Joint Instability A Case Report** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Cheung, E. V., Yao, J.
2009; 91A (4): 950-954
- **Management of Proximal Humeral Nonunions and Malunions** *ORTHOPEDIC CLINICS OF NORTH AMERICA*
Cheung, E. V., Sperling, J. W.
2008; 39 (4): 475-482
- **Locked plating for proximal humeral fractures** *CURRENT ORTHOPAEDIC PRACTICE*
Cheung, E. V.
2008; 19 (5): 535-37
- **Infection associated with hematoma formation after shoulder arthroplasty** *17th Annual Meeting of the Musculoskeletal-Infection-Society*
Cheung, E. V., Sperling, J. W., Cofield, R. H.
SPRINGER.2008: 1363-67
- **Revision shoulder arthroplasty for glenoid component loosening** *JOURNAL OF SHOULDER AND ELBOW SURGERY*
Cheung, E. V., Sperling, J. W., Cofield, R. H.
2008; 17 (3): 371-375
- **Complications of hinged external fixators of the elbow** *JOURNAL OF SHOULDER AND ELBOW SURGERY*
Cheung, E. V., O'Driscoll, S. W., Morrey, B. F.
2008; 17 (3): 447-453
- **Chronic lateral elbow instability** *ORTHOPEDIC CLINICS OF NORTH AMERICA*
Cheung, E. V.
2008; 39 (2): 221-?
- **Treatment of periprosthetic humerus fractures associated with shoulder arthroplasty** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*
Steinmann, S. P., Cheung, E. V.
2008; 16 (4): 199-207
- **Long-term outcome of anterior stabilization of the shoulder** *JOURNAL OF SHOULDER AND ELBOW SURGERY*
Cheung, E. V., Sperling, J. W., Hattrup, S. J., Cofield, R. H.
2008; 17 (2): 265-270
- **Reimplantation of a total elbow prosthesis following resection arthroplasty for infection** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Cheung, E. V., Adams, R. A., Morrey, B. F.
2008; 90A (3): 589-594
- **Reimplantation of a total elbow prosthesis following resection arthroplasty for infection.** *Journal of bone and joint surgery. American volume*
Cheung, E. V., Adams, R. A., Morrey, B. F.
2008; 90 (3): 589-594
- **Primary osteoarthritis of the elbow: Current treatment options** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*
Cheung, E. V., Adams, R., Morrey, B. F.
2008; 16 (2): 77-87
- **Spontaneous regression of postoperative ossification about the elbow: a case report.** *Journal of shoulder and elbow surgery*

Cheung, E. V., O'Driscoll, S. W.
2007; 16 (6): e15-6

- **Fractures of the capitellum** *HAND CLINICS*
Cheung, E. V.
2007; 23 (4): 481-?
- **Polyethylene insert exchange for wear after toad shoulder arthroplasty** *JOURNAL OF SHOULDER AND ELBOW SURGERY*
Cheung, E. V., Sperling, J. W., Cofield, R. H.
2007; 16 (5): 574-578
- **Reimplantation of a glenoid component following component removal and allogenic bone-grafting** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Cheung, E. V., Sperling, J. W., Cofield, R. H.
2007; 89A (8): 1777-1783
- **Total elbow prosthesis loosening caused by ulnar component pistoning** *JOURNAL OF BONE AND JOINT SURGERY-AMERICAN VOLUME*
Cheung, E. V., O'Driscoll, S. W.
2007; 89A (6): 1269-1274
- **Spondylolysis and spondylolisthesis in children and adolescents: II. Surgical management** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*
Cheung, E. V., Herman, M. J., Cavalier, R., Pizzutillo, P. D.
2006; 14 (8): 488-498
- **Spondylolysis and spondylolisthesis in children and adolescents: I. Diagnosis, natural history, and nonsurgical management** *JOURNAL OF THE AMERICAN ACADEMY OF ORTHOPAEDIC SURGEONS*
Cavalier, R., Herman, M. J., Cheung, E. V., Pizzutillo, P. D.
2006; 14 (7): 417-424
- **Immediate range of motion after distal biceps tendon repair** *JOURNAL OF SHOULDER AND ELBOW SURGERY*
Cheung, E. V., Lazarus, M., Taranta, M.
2005; 14 (5): 516-518
- **An undescribed cause of patellar tendon rupture.** *American journal of orthopedics (Belle Mead, N.J.)*
Hosalkar, H. S., Cheung-Moore, E., Atanda, A., Ogilvie, C., Lackman, R. D.
2005; 34 (7): 333-336
- **Administration of the non-steroidal anti-inflammatory drug ibuprofen increases macrophage concentrations but reduces necrosis during modified muscle use** *INFLAMMATION RESEARCH*
Cheung, E. V., Tidball, J. G.
2003; 52 (4): 170-176

PRESENTATIONS

- Advances in shoulder arthroplasty - UC Irvine Department of Orthopedic Surgery (12/8/2014)
- Moderator of Elbow Trauma Section - Association of Clinical Elbow Shoulder Surgeons Annual Meeting
- Biomechanical evaluation of posteriorly augmented glenoid components - Podium presentation at Western Orthopedic Association Annual Meeting
- Moderator of Shoulder Section - California Orthopedic Association Annual Meeting
- Reverse total shoulder arthroplasty complications: new frontiers. - California Orthopedic Association Annual Meeting
- Key steps to improve outcomes and minimize complications in Primary TSA - Shoulder arthroplasty ICL at AAOS Annual Meeting
- Managing complications of elbow arthroplasty. Elbow arthroplasty: lessons learned from the past and new directions for the future - ICL at AAOS Annual Meeting
- Tendon transfers: what is the current role. Hot topics in shoulder surgery symposium - AAOS Annual Meeting
- Cost effective analysis of reverse total shoulder arthroplasty for treatment of massive rotator cuff tears - American Shoulder Elbow Society Annual Meeting
- see CV