



Eugene Y. Roh, MD

Clinical Professor, Orthopaedic Surgery

CLINICAL OFFICE (PRIMARY)

- **Stanford University Dept of Orthopaedic Surgery**
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ACADEMIC CONTACT INFORMATION

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Bio

BIO

Dr. Eugene Roh is a physician-scientist at Stanford University with dual training in Internal Medicine and PM&R, and subspecialty expertise in Sports Medicine.

He pioneered the orthobiologics program at Stanford and now serves as the Director of the Orthobiologics Clinic, where he leads clinical care and research.

Dr. Roh has been instrumental in translating emerging technologies—such as AI-based therapy for knee oa and regenerative treatments—into clinical applications, including investigator-initiated studies and FDA-regulated trials. He also played a key role in introducing musculoskeletal ultrasound practice to his department.

In addition to his academic leadership, Dr. Roh served as a team physician for Team USA at the 2018 Olympic Games, the Golden State Warriors, and currently works with the San Francisco 49ers and Stanford varsity athletics, aligning high-performance sports medicine with cutting-edge innovation.

CLINICAL FOCUS

- Platelet-Rich Plasma
- Non operative sports injury treatment
- Shoulder Osteoarthritis
- Knee Osteoarthritis
- Sports Medicine
- Pickleball Medicine
- Sports and Musculoskeletal Ultrasound

- Digital Health
- Stem Cell Research

ACADEMIC APPOINTMENTS

- Clinical Professor, Orthopaedic Surgery
- Member, Wu Tsai Human Performance Alliance

ADMINISTRATIVE APPOINTMENTS

- Co-Director, Stanford Orthobiologics Clinic, (2022- present)
- Director, Stanford Musculoskeletal Sports Ultrasound Medicine Service, (2011- present)
- SF 49ers, Team physician in Sports ultrasound and Orthobiologics treatment, Stanford University Sports Medicine, (2013- present)
- Team Physician, Stanford Athletic Department, (2013- present)
- Golden State Warriors, Consultant in Sports ultrasound and Orthobiologics treatment, Stanford University Sports Medicine, (2014-2019)
- Team USA Physician, USOC(United States Olympic Committee) Team USA for 2018 Olympic games, (2017-2018)
- Site Director, Residency Program PM&R, Stanford, (2015- present)
- Member and Venue Medical Officer, 2018 Winter Olympic Organizing Committee, Medical division, (2016- present)

HONORS AND AWARDS

- PI, Best Resident Research Award, PM&R Residency Program, Stanford University (2023)
- PI, Best Resident Research Award, PM&R Residency Program, Stanford University (2022)
- Best Faculty Teaching Award, PM&R Residency Program, Stanford University (2016)
- Arbor Free Clinic Chief Resident Award, Stanford University, Physical Medicine and Rehabilitation (2010)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Director, Stanford Orthobiologics Clinic (2022 - present)
- Faculty and Mentor, Stanford ACGME PM&R Sports Medicine Fellowship (2011 - present)
- Committee Member, Stanford Hospital Point of Ultrasound Care (2020 - present)
- Primary team physician, Stanford Athletics (2011 - present)
- Committee Member, Stanford PM&R Education committee (2011 - present)
- Didactics organizer, Stanford PM&R Resident Musculoskeletal (2011 - present)
- Reviewer, Journal of Ultrasound Medicine (2014 - present)
- Member, American Registry For Diagnostic Medical Sonography (2011 - present)
- Member, Association of Academic Physiatrists (2011 - present)
- Member, American Medical Society for Sports Medicine (2011 - present)
- Member, American Board of Physical Medicine & Rehabilitation (2011 - present)
- Member, American Association of Physical Medicine & Rehabilitation (2011 - present)
- Member, American Association of Pain Management in Ultrasound (2011 - present)
- Member, American Board of Internal Medicine (2011 - present)
- Member, American Institute of Ultrasound in Medicine (2011 - present)

PROFESSIONAL EDUCATION

- Board Certification: Internal Medicine, American Board of Internal Medicine (2025)

- Board Certification: Sports Medicine, American Board of Physical Medicine and Rehabilitation (2012)
- Board Certification: Physical Medicine and Rehab, American Board of Physical Medicine and Rehabilitation (2011)
- Residency: MetroWest Medical Center Transitional Year (2007) MA
- Residency: Stanford Hospital and Clinics (2010) CA
- Fellowship: Harvard Medical School MGH - Spaulding Rehabilitation Hospital (2011) MA
- Medical Education: Yonsei University College Of Medicine (1999) South Korea
- Board Certification, Sports Medicine , American Board of PM&R, ABFM (2012)
- Board Certification, Musculoskeletal Ultrasound , ARDMS (American Registry for Diagnostic Medical Sonography) (2012)

COMMUNITY AND INTERNATIONAL WORK

- 2018 Winter Olympic games
- 2018 Winter Olympic Organization, South Korea

LINKS

- <http://med.stanford.edu/news/all-news/2018/02/5-questions-eugene-roh-on-serving-as-team-usa-physician.html>: <http://med.stanford.edu/news/all-news/2018/02/5-questions-eugene-roh-on-serving-as-team-usa-physician.html>
- Research gate: Eugene Roh on ResearchGate

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Therapeutic Efficacy of biologic treatments(Platelet Rich Plasma, adipose, mfat, bone marrow, stem cell) in OA and tendonitis

Application of musculoskeletal ultrasound for sports medicine and other musculoskeletal disease.

AI-based musculoskeletal diagnosis and treatment in sports, OA and tendinitis

CLINICAL TRIALS

- The Effect of Micro Fragmented Adipose Tissue (MFAT) on Shoulder Osteoarthritis, Recruiting
- Comparative Effectiveness of Particulate Versus Nonparticulate Steroid Injections for Musculoskeletal Conditions, Not Recruiting
- Microfragmented Adipose Tissue Compared to Corticosteroid Injection for the Treatment of Knee Osteoarthritis, Not Recruiting
- The Effect of Micro Fragmented Adipose Tissue (MFAT) on Knee Osteoarthritis, Not Recruiting
- Validity of AI in Treatment of the Musculoskeletal Conditions by Vifive, Not Recruiting
- Treatment of Tendinosis Using the TenJet Hydroresection System, Not Specified

Teaching

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- PM& R Sports Medicine (Fellowship Program)

Publications

PUBLICATIONS

- **Can a Clinician Accurately Diagnose Iliopsoas Tendinitis on a Physical Examination?** *The American journal of sports medicine*
Johnstone, T., Pierre, K., Roh, E., Fredericson, M., Safran, M. R.
2026: 3635465261428681
- **American Medical Society for Sports Medicine Orthobiologics Toolkit for Sports Medicine Fellowships.** *Clinical journal of sport medicine : official journal of the Canadian Academy of Sport Medicine*

- Poindexter, L. K., Mautner, K. R., Nye, N. S., Romero, J. M., Olufade, O. A., Roh, E., Johnson, S. E., Denq, W., Colbenson, K., Kruse, R., Shapiro, S. A., Borg-Stein, J.
2026
- **Minimally invasive needle tenotomy vs. platelet rich plasma injection in the treatment of chronic elbow epicondylitis.** *JSES international*
Nguyen, C. T., Lee, M. H., Kaufman, M. W., Meng, Y., Koduri, J. A., Abrams, G., Cheung, E. V., Freehill, M. T., Roh, E. Y.
2025; 9 (1): 231-236
 - **Advanced Visualization of Musculoskeletal Pathologies Using MV-Flow Ultrasound: A Case Series.** *Cureus*
Clark, H. Y., Walker, C., Roh, E. Y.
2024; 16 (11): e73453
 - **Accuracy of ultrasound-guided iliopsoas tendon injection after total hip arthroplasty: a retrospective observational study.** *Journal of ultrasound*
Kaufman, M. W., Nguyen, C., Meng, Y., Roh, E.
2024
 - **Posterior intra-articular hip injections: a pilot study investigating a new approach.** *Journal of ultrasound*
Kaufman, M. W., Nguyen, C., Meng, Y., Roh, E.
2024
 - **Neurogenic Thoracic Outlet Syndrome in Division 1 Collegiate Athletes: Presentation, Diagnosis, and Treatment.** *Clinical journal of sport medicine : official journal of the Canadian Academy of Sport Medicine*
Olson, E. M., Dyrek, P., Harris, T., Fereydooni, A., Lee, J. T., Kussman, A., Roh, E.
2023
 - **Team's Average Acute:Chronic Workload Ratio Correlates with Injury Risk in NCAA Men's Soccer Team.** *PM & R : the journal of injury, function, and rehabilitation*
Bakal, D. R., Friedrich, T. R., Keane, G., White, B., Roh, E. Y.
2022
 - **Impact of Scalene Muscle Botulinum Toxin Injection With and Without Surgery in Neurogenic Thoracic Outlet Syndrome.** *Clinical journal of sport medicine : official journal of the Canadian Academy of Sport Medicine*
Fereydooni, A., Ho, V. T., Olson, E. M., Dyrek, P., Harris, T., Kussman, A., Roh, E., Lee, J. T.
2022
 - **Orthobiologic Injectables in the Ankle Joint: a Narrative Review** *MLTJ-MUSCLES LIGAMENTS AND TENDONS JOURNAL*
Roh, E. Y., Rana, M. S., McInnis, K. C., Bakal, D. R., Borgstrom, H., Borg-Stein, J.
2022; 12 (4): 453-477
 - **Impact of Scalene Muscle Botulinum Toxin Injection with and without Surgery in Neurogenic Thoracic Outlet Syndrome**
Fereydooni, A., Ho, V. T., Olson, E., Dyrek, P., Harris, T., Kussman, A., Roh, E. Y., Lee, J. T.
MOSBY-ELSEVIER.2021: E410
 - **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
 - **Predictors Of Relief Following Botulinum Injection For Thoracic Outlet Syndrome**
Olson, E., Dyrek, P., Fereydooni, A., Harris, T., Lee, J. T., Kussman, A., Roh, E. Y.
LIPPINCOTT WILLIAMS & WILKINS.2021: 377
 - **Predicting Return To Play In NCAA Division 1 Athletes With Neurogenic Thoracic Outlet Syndrome**
Dyrek, P., Olson, E., Fereydooni, A., Harris, T., Kussman, A., Roh, E., Lee, J. T., Segovia, N.
LIPPINCOTT WILLIAMS & WILKINS.2021: 390
 - **Finger Pain In A Professional Dog Groomer**
Mullins, K., Roh, E.
LIPPINCOTT WILLIAMS & WILKINS.2020: 538-39

- **Effectiveness of Ultrasound-Guided Pulsed Radiofrequency Treatment in Patients with Refractory Chronic Cervical Radicular Pain.** *Pain physician*
Lee, S. H., Choi, H. H., Roh, E. Y., Chang, M. C.
2020; 23 (3): E265–E272
- **Effectiveness of Ultrasound-Guided Pulsed Radiofrequency Treatment in Patients with Refractory Chronic Cervical Radicular Pain** *PAIN PHYSICIAN*
Lee, S., Choi, H., Roh, E., Chang, M.
2020; 23 (3): E265–E271
- **Sigma-1 receptor PET/MRI for identifying nociceptive sources of radiating low back pain**
Yoon, D., Cipriano, P., Carroll, I., Curtin, C., Roh, E., Wilson, T., Biswal, S.
SOC NUCLEAR MEDICINE INC.2020
- **Orthobiologics for the Hip Region: A Narrative Review.** *PM & R : the journal of injury, function, and rehabilitation*
McInnis, K. C., Chen, E. T., Finnoff, J. T., Roh, E. Y., Borg Stein, J.
2020
- **Ultrasonographic measurement of the cross-sectional area of the axillary nerve** *MUSCLE & NERVE*
Yoon, J., Park, J., Levin, J., Roh, E. Y., Park, H., Won, S.
2019; 60 (1): 95–98
- **ULTRASONOGRAPHIC MEASUREMENT OF THE CROSS-SECTIONAL AREA OF THE AXILLARY NERVE.** *Muscle & nerve*
Yoon, J. S., Park, J. H., Levin, J., Roh, E. Y., Park, H. J., Won, S. J.
2019
- **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
- **Use of F-18-sodium fluoride bone PET for disability evaluation in ankle trauma: a pilot study** *BMC MEDICAL IMAGING*
Jeon, T., Kim, S., Park, J., Park, J., Roh, E. Y.
2018; 18: 34
- **Poster 156 Synovial Osteochondromatosis as a Rare Cause of Hip Pain: A Case Report.** *PM & R : the journal of injury, function, and rehabilitation*
Pun, M., Roh, E. Y.
2016; 8 (9S): S213-?
- **Comparison of Muscle Onset Activation Sequences between a Golf or Tennis Swing and Common Training Exercises Using Surface Electromyography: A Pilot Study.** *Journal of sports medicine (Hindawi Publishing Corporation)*
Vasudevan, J. M., Logan, A., Shultz, R., Koval, J. J., Roh, E. Y., Fredericson, M.
2016; 2016: 3987486-?
- **Atlas of Ultrasound-Guided Musculoskeletal Injections**
Malanga, G., Mautner, K., Roh, E. Y., et al
McGraw Hill Education.2013
- **The Relationship between Golf Swing Trunk Rotation Biomechanics and Low Back Pain in Golfers** *Spine*
Said, M., Johnson, E., Roh, E.
2013; Sep Oct: 21-26
- **Preseason Training for Golfers with Low Back Pain** *Spine*
Roh Eugene Y, Geraci M, Smuck M
2012; Jan Feb: 17-21

- **Basic Appearance of Ultrasound Structures and Pitfalls** *PHYSICAL MEDICINE AND REHABILITATION CLINICS OF NORTH AMERICA*
McDonald, S., Fredericson, M., Roh, E. Y., Smuck, M.
2010; 21 (3): 461-?

PRESENTATIONS

- Golf Swing Analysis - North America Spine Society(NASS) (10/10/2013 - 10/11/2013)
- Short Course on MSK Ultrasound - 2014 Walter Reed PM&R Annual Short Course (9/16/2014 - 9/19/2014)
- Introduction to Sports Medicine - Wonju Yonsei University (4/1/2014)
- Rehabilitation of Golfers with Low Back Pain - 2014 AAPM&R Annual Assembly (11/12/2014 - 11/15/2014)
- Medical Issues in Sports Medicine - MASS General Hospital Sports Medicine
- Advanced Therapeutic Exercises and Ultrasound-Guided Procedures for Iliotibial Band Syndrome - 2014 AAPM&R Annual Assembly (11/12/2014 - 11/15/2014)
- Ultrasound Evaluation of Carpal Tunnel Syndrome - 2014 AAPM&R Annual Assembly (11/12/2014 - 11/15/2014)