Stanford



Calvin Hwang

Clinical Assistant Professor, Orthopaedic Surgery

CLINICAL OFFICE (PRIMARY)

• Arrillaga Sports Medicine Center

341 Galvez St MC 6150

Stanford, CA 94305

Tel (650) 725-8202

Fax (650) 725-2607

ACADEMIC CONTACT INFORMATION

Alternate Contact

Elizabeth Medina - Administrative Associate

Email elizabethmedina@stanford.edu

Tel 650-721-1446

Bio

CLINICAL FOCUS

• Orthopaedic Sports Medicine

PATIENT CARE

Dr. Hwang specializes in Non-Operative Sports Medicine. He is Board Certified in Emergency Medicine, with a subspecialty certificate in Sports Medicine, and is a member of the American College of Emergency Physicians (ACEP), American Academy of Emergency Medicine (AAEM) and the American Medical Society for Sports Medicine (AMSSM). Dr. Hwang received his undergraduate degree from Stanford University and his Doctor of Medicine from Case Western Reserve University. He completed his residency in Emergency Medicine at the Stanford/Kaiser Emergency Medicine Residency and went on to a Fellowship in Primary Care/Non-Operative Sports Medicine at Stanford University. He serves as assistant Fellowship Director for the Stanford Non-operative Sports Medicine Fellowship as well as team physician for Stanford athletics, working with Stanford football, women's soccer, men's/women's water polo, among others. He is also a team physician for the Golden State Warriors.

ACADEMIC APPOINTMENTS

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

ADMINISTRATIVE APPOINTMENTS

- Team Physician, Golden State Warriors, (2016-2019)
- Team Physician, Stanford Athletics, (2016- present)
- Assistant Fellowship Director, Primary Care Sports Medicine Fellowship, (2016-present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Councilor, American College of Emergency Physicians, Sports Medicine Section (2020 present)
- Fellowship Committee, American Medical Society for Sports Medicine (2020 present)
- Alternate Councilor, American College of Emergency Physicians, Sports Medicine Section (2018 2020)

- Fellow, American College of Emergency Physicians (2017 present)
- Member, American Medical Society for Sports Medicine (2016 present)
- Fellow, American Academy of Emergency Medicine (2014 present)
- Member, American College of Emergency Physicians (2011 present)
- Member, American Academy of Emergency Medicine (2011 present)

PROFESSIONAL EDUCATION

- Board Certification: Orthopaedic Sports Medicine, American Board of Emergency Medicine (2015)
- Residency: Stanford University Emergency Medicine Residency (2014) CA
- Board Certification: Emergency Medicine, American Board of Emergency Medicine (2015)
- Fellowship: Stanford Hospital and Clinics Dept of Orthopaedics (2015) CA
- MD, Case Western Reserve University School of Medicine (2011)
- BS, Stanford University, Biological Sciences with Honors (2007)

Teaching

COURSES

2023-24

• Sport, Exercise, and Health: Exploring Sports Medicine: ORTHO 97Q (Win, Spr)

2022-23

• Sport, Exercise, and Health: Exploring Sports Medicine: ORTHO 97Q (Win, Spr)

2021-22

• Sport, Exercise, and Health: Exploring Sports Medicine: ORTHO 97Q (Win, Spr)

2020-21

• Sport, Exercise, and Health: Exploring Sports Medicine: ORTHO 97Q (Win, Spr)

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

• Sports Medicine (Fellowship Program)

Publications

PUBLICATIONS

• Emergency Facial Injuries in Athletics. Clinics in sports medicine

Tsao, J., Hwang, C. E. 2023; 42 (3): 463-471

American Medical Society of Sports Medicine Position Statement: Mononucleosis and Athletic Participation. Clinical journal of sport medicine: official
journal of the Canadian Academy of Sport Medicine

Putukian, M., McGrew, C. A., Benjamin, H. J., Hammell, M. K., Hwang, C. E., Ray, J. W., Statuta, S. M., Sylvester, J., Wilson, K. 2023

• Premature ventricular contractions (PVCs) in young athletes. Progress in cardiovascular diseases

Gomez, S. E., Hwang, C. E., Kim, D. S., Froelicher, V. F., Wheeler, M. T., Perez, M. V. 2022

 Prevalence of Positive Rapid Antigen Tests After 7-Day Isolation Following SARS-CoV-2 Infection in College Athletes During Omicron Variant Predominance. JAMA network open

Tsao, J., Kussman, A., Segovia, N. A., Abrams, G. D., Boehm, A. B., Hwang, C. E.

2022; 5 (10): e2237149

Use of Monospot Testing in the Diagnosis of Infectious Mononucleosis in the Collegiate Student-Athlete Population. Clinical journal of sport medicine:
 official journal of the Canadian Academy of Sport Medicine

Wang, E. X., Kussman, A., Hwang, C. E.

2022; 32 (5): 467-470

• Increased Risk of ACL Injury for Female but Not Male Soccer Players on Artificial Turf Versus Natural Grass: A Systematic Review and Meta-Analysis. Orthopaedic journal of sports medicine

Xiao, M., Lemos, J. L., Hwang, C. E., Sherman, S. L., Safran, M. R., Abrams, G. D.

2022; 10 (8): 23259671221114353

Wastewater-Based Detection of Two Influenza Outbreaks ENVIRONMENTAL SCIENCE & TECHNOLOGY LETTERS

Wolfe, M. K., Duong, D., Bakker, K. M., Ammerman, M., Mortenson, L., Hughes, B., Arts, P., Lauring, A. S., Fitzsimmons, W. J., Bendall, E., Hwang, C. E., Martin, E. T., White, et al

2022

 Accuracy of Rapid Antigen vs Reverse Transcriptase-Polymerase Chain Reaction Testing for SARS-CoV-2 Infection in College Athletes During Prevalence of the Omicron Variant. JAMA network open

Tsao, J., Kussman, A. L., Costales, C., Pinsky, B. A., Abrams, G. D., Hwang, C. E. 2022; 5 (6): e2217234

Comparison of SARS-CoV-2 Test Positivity in NCAA Division I Student Athletes vs Nonathletes at 12 Institutions. JAMA network open

Schultz, E. A., Kussman, A., Jerome, A., Abrams, G. D., Hwang, C. E.

2022; 5 (2): e2147805

Patients Who Return to Sport After Primary Anterior Cruciate Ligament Reconstruction Have Significantly Higher Psychological Readiness: A
 Systematic Review and Meta-analysis of 3744 Patients Am J Sports Med

Xiao, M., van Niekerk, M., Trivedi, N., Hwang, C., Sherman, S., Safran, M., Abrams, G. 2022

• Factors Associated With a Prolonged Time to Return to Play After a Concussion. The American journal of sports medicine

Wang, E. X., Hwang, C. E., Nguyen, J. N., Segovia, N. A., Abrams, G. D., Kussman, A.

2022: 3635465221083646

• Use of Platelet-Poor Plasma in Acute Quadriceps Muscle Strain in a Division I Football Placekicker: A Case Report. Current sports medicine reports

Kasitinon, D., Dragoo, J. L., Hwang, C. E.

2021; 20 (11): 572-574

• Splenomegaly from Recurrent Infectious Mononucleosis in an NCAA Division I Athlete. Current sports medicine reports

Bakal, D. R., Kasitinon, D., Kussman, A. L., Hwang, C. E.

2021; 20 (10): 511-513

Splenomegaly from Recurrent Infectious Mononucleosis in an NCAA Division I Athlete CURRENT SPORTS MEDICINE REPORTS

Bakal, D. R., Kasitinon, D., Kussman, A. L., Hwang, C. E.

2021; 20 (10): 511-513

• Findings From Cardiovascular Evaluation of National Collegiate Athletic Association Division I Collegiate Student-Athletes After Asymptomatic or Mildly Symptomatic SARS-CoV-2 Infection. Clinical journal of sport medicine: official journal of the Canadian Academy of Sport Medicine

Hwang, C. E., Kussman, A., Christle, J. W., Froelicher, V., Wheeler, M. T., Moneghetti, K. J.

2021

 High Specialization among Female Youth Soccer Players Is Associated with an Increased Likelihood of Serious Injury. Medicine and science in sports and exercise

Xiao, M., Lemos, J. L., Hwang, C. E., Sherman, S. L., Safran, M. R., Abrams, G. D. 2021

 Adenovirus Infection and Rhabdomyolysis as a Cause of Acute Liver Failure in a Healthy Collegiate Football Athlete: A Case Report and Proposed Return to Play Protocol for Rhabdomyolysis CUREUS

Hwang, C. E., Matheson, G., Baine, J.

2021; 13 (4)

 Adenovirus Infection and Rhabdomyolysis as a Cause of Acute Liver Failure in a Healthy Collegiate Football Athlete: A Case Report and Proposed Return to Play Protocol for Rhabdomyolysis. Cureus

Hwang, C. E., Matheson, G., Baine, J.

2021; 13 (4): e14510

Recommended Musculoskeletal and Sports Medicine Model Curriculum for Emergency Medicine Residency Training. Current sports medicine reports

Chow, Y. C., Waterbrook, A. L., Suffoletto, H. N., Dolbec, K. n., Myers, R. A., Denq, W. n., Hwang, C. E., Kiel, J. M., Monseau, A. J., Balcik, B. J., Santelli, J. A., Oshlag, B. L., Hudson, et al

2021; 20 (1): 31-46

• Increased Lower Extremity Injury Risk Associated With Player Load and Distance in Collegiate Women's Soccer. Orthopaedic journal of sports medicine

Xiao, M., Nguyen, J. N., Hwang, C. E., Abrams, G. D.

2021; 9 (10): 23259671211048248

• Calculated decisions: Ottawa ankle rule. Emergency medicine practice

Hwang, C.

2020; 22 (Suppl 8): CD9-CD10

• Calculated decisions: Ottawa Knee Rule. Emergency medicine practice

Hwang, C.

2020; 22 (Suppl 8): CD11-CD12

 Comparison of Cardiovascular Screening in College Athletes by History and Physical Examination with and without an Electrocardiogram: Efficacy and Cost. Heart rhythm

Harmon, K. G., Suchsland, M. Z., Prutkin, J. M., Owens, D. S., Aukerman, D. F., Hwang, C. E., Lancaster, S. C., Petron, D. J., Poddar, S. K., Porter, D. E., Petek, B. J., Malik, A. n., Drezner, et al

2020

• Calculated Decisions: Kocher criteria for septic arthritis Pediatric emergency medicine practice

Hwang, C.

2019; 16 (12): CD1-CD2

• Calculated Decisions: HAS-BLED Score for Major Bleeding Risk Emergency medicine practice

Hwang, C.

2019; 21 (8): CD3-CD4

• Calculated Decisions: Ottawa Knee Rule Pediatric emergency medicine practice

Hwang, C.

2018; 14 (Suppl 9): 3-5

• Calculated Decisions: Ottawa Ankle Rule Pediatric emergency medicine practice

Hwang, C.

2018; 14 (Suppl 9): 1-3

• Current Concepts in Concussion: A Review. Journal of the California Dental Association

Ray, J. W., Hwang, C., Baine, J., Fredericson, M., Keane, G. P.

2017; 45 (6): 285-89

• Calculated decisions: LRINEC Score for necrotizing soft-tissue infection Emergency medicine practice

Hwang, C. n.

2017: 5-6

• Improved insulin sensitivity after exercise training is linked to reduced plasma C14:0 ceramide in obesity and type 2 diabetes OBESITY

Kasumov, T., Solomon, T. P., Hwang, C., Huang, H., Haus, J. M., Zhang, R., Kirwan, J. P.

2015; 23 (7): 1414-1421

• Effect of an emergency department fast track on press-ganey patient satisfaction scores. The western journal of emergency medicine

Hwang, C. E., Lipman, G. S., Kane, M.

2015; 16 (1): 34-38

• ECG diagnosis: ST-elevation myocardial infarction. The Permanente journal Hwang, C., Levis, J. T. 2014; 18 (2)

• Hippocampal-dependent learning requires a functional circadian system PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA

Ruby, N. F., Hwang, C. E., Wessells, C., Fernandez, F., Zhang, P., Sapolsky, R., Heller, H. C. 2008; 105 (40): 15593-15598

• blue cheese mutations define a novel, conserved gene involved in progressive neural degeneration *JOURNAL OF NEUROSCIENCE*Finley, K. D., Edeen, P. T., Cumming, R. C., Mardahl-Dumesnil, M. D., Taylor, B. J., RODRIGUEZ, M. H., Hwang, C. E., Benedetti, M., McKeown, M. 2003; 23 (4): 1254-1264