

Deepak Chona, M.D.

Department of Orthopaedic Surgery, 300 Pasteur Drive, Edwards Building Rm R144, Stanford, CA 94305
937-903-6345 dchona@stanford.edu

SURGICAL TRAINING

Sports Medicine Fellow, 2022 – 2023
Harvard-Boston Children's Hospital

Resident Physician, 2017 – Present (PGY-5), Class of 2022
Department of Orthopaedic Surgery, Stanford University

EDUCATION

Perelman School of Medicine at the University of Pennsylvania
Doctor of Medicine, 2017

Vanderbilt University
Bachelor of Arts, 2013; Major: Biology, Minor: Chemistry; GPA: 3.9/4.0

PROFESSIONAL EXPERIENCE

SportsMedAnalytics, April 2020 – Present

Founder: Sports media platform providing data-driven injury analysis of professional athletes, with emphasis on game and performance impact. Written, audio, and video content accessible via website (www.sportsmedanalytics.com), social media (12,000 total followers), and smartphone app (launching 2022). Machine learning algorithm to quantitatively predict influence of injury on player performance currently under development. Featured on ESPN Radio (Talking with TD) and quoted in The Athletic (x3).

MEDIA APPEARANCES

ESPN Radio, *Talking with TD*, July 2021
The Athletic, *quoted in 3 NBA articles*, 2020-21

GUEST LECTURESHIP

Artificial Intelligence in Orthopedics, Texas A&M University School of Business. 2021.

PROFESSIONAL SOCIETY MEMBERSHIPS

American Academy of Orthopaedic Surgeons

RESEARCH EXPERIENCE

Journal of Hip Preservation Surgery, May 2020 – Present

Reviewer: Peer-reviewing scientific research for consideration of publication in the Journal of Hip Preservation Surgery.

Department of Orthopaedic Surgery, Stanford University, 2017 – Present

Resident Researcher: Studying sports medicine with emphasis on injuries and outcomes in high-level athletes.

SportsMedAnalytics, April 2020 – Present

Founder: Leading team of orthopedic trainees, statisticians, and programmers to build and study injury databases for professional athletes. Developing machine learning algorithm to prospectively quantify post-injury performance outcomes in NFL players.

Department of Orthopaedic Surgery, University of Pennsylvania, 2013 – 2017

Medical Student Researcher: Studied postoperative outcomes of trauma patients using database software and arthroscopic rotator cuff repair using meta-analysis.

Air Force Research Laboratory, 3D Human Signatures Lab, May-August annually, 2009 – 2012

Summer Researcher: Developed LabVIEW program to automate calibration of 3D motion capture system with 2D video. Studied kinematic patterns associated with gait and tasks. Created smartphone app to securely exchange data with remote server.

HONORS & AWARDS

Western Orthopaedic Association, Research Travel Award, 2019

Awarded for: Timing of Lumbar Spinal Fusion Affects Total Hip Arthroplasty Outcomes

California Orthopaedic Association, Lloyd Taylor Resident Paper Award, 2019

Awarded for: Timing of Lumbar Spinal Fusion Affects Total Hip Arthroplasty Outcomes

Magna Cum Laude, Vanderbilt University, 2013

Cornelius Vanderbilt Scholar, Vanderbilt University, 2009-2013

Air Force Research Laboratory Special Performance Award, 2009

National Merit Scholar, 2009

Bausch & Lomb Honorary Science Award, 2008

PEER-REVIEWED PUBLICATIONS

Chona D, Eriksson K, Young S, Denti M, Sancheti P, Safran M, Sherman S. Time versus Criteria-Based Return to Sport Following Anterior Cruciate Ligament Reconstruction: A Synopsis of the 2020 ISAKOS Symposium. J ISAKOS. 2021.

Chona D, Bonano J, Ayeni O, Safran M. Definitions of Return to Sport after Hip Arthroscopy: Are we speaking the same language and are we measuring the right outcome? Orthop J Sports Med. 2020.

Bala A, **Chona D**, Amanatullah D, Hu S, Wood K, Alamin T, Cheng I. Timing of Lumbar Spinal Fusion Affects Total Hip Arthroplasty Outcomes. J Am Acad Orthop Surg Glob Res Rev. 2019.

Knoll O, Lakomkin N, Shen M, Adebayo M, Kothari P, Dodd A, Attum B, Lee N, **Chona D**, Sethi M. A Predictive Model for Increased Hospital Length of Stay Following Geriatric Hip Fracture. J Clin Orthop Trauma. 2019.

Amanatullah D, Murasko M, **Chona D**, Crijns T, Ring D, Kamal R. Financial Distress and Discussing the Cost of Total Joint Arthroplasty. J Arthroplasty. 2018.

Chona D, Bala A, Huddleston J, Goodman S, Maloney W, Amanatullah D. Effect of Computer Navigation on Complication Rates Following Unicompartmental Knee Arthroplasty. J Arthroplasty. 2018.

Chona D, Lakomkin N, Lott A, Workman A, Henry A, Kuntz A, Huffman R, Glaser D. The Timing of Re-tears after Arthroscopic Rotator Cuff Repair. J Shoulder Elbow Surg. 2017.

Chona D, Lakomkin N, Bulka C, Mousavi I, Kothari P, Dodd A, Shen M, Obremskey W, Sethi M. Predicting the Post-operative Length of Stay for the Orthopaedic Trauma Patient. Int Orthop. 2017.

Chona D, Minetos P, LaPrade C, Cinque M, Abrams G, Sherman S, Safran M. Hip Dislocation and Subluxation Without Fracture in Athletes: A Systematic Review. Accepted to American Journal of Sports Medicine. 2021.

Chona D, Kha S, Minetos P, LaPrade C, Abrams G, Safran M, Sherman S. Biologic Augmentation in the Operative Treatment of Osteochondral Defects of the Knee: A Systematic Review. Accepted to Orthop J Sports Med. 2021.

Submitted Manuscripts

Chona D, Chou L, Clanton T, Amendola N, Lau B. Suture Button Fixation for Treatment of Ligamentous Lisfranc Injury: Systematic Review and Critical Analysis of Clinical and Biomechanical Results. 2021. Submitted to Orthopaedic Journal of Sports Medicine

Chona D, Cinque M, LaPrade C, Wakim J, Sherman S, Abrams G, Safran M. Defining Elite Athletes in Sports Medicine Research: A Survey Study of AOSSM Members. 2021. Submitted to Journal of American Academy of Orthopaedic Surgeons.

LaPrade C, **Chona D**, Cinque M, Sherman S, Abrams G, Safran M. Return to Play in Professional Athletes Following Achilles Tendon Rupture: A Systematic Review. 2021. Submitted to American Journal of Sports Medicine.

Manuscripts in Preparation

Chona D, Oladeji K, Boutin R, Safran M. Radiographic Findings in Adhesive Capsulitis of the Hip.

LaPrade C, **Chona D**, Cinque M, Sherman S, Abrams G, Safran M. Return to Play in Professional Athletes Following Achilles Tendon Rupture: A Systematic Review.

LaPrade C, **Chona D**, Cinque M, Sherman S, Abrams G, Safran M, Freehill M. Performance of Major League Baseball Pitchers Following Revision Ulnar Collateral Ligament Reconstruction.

Cinque M, LaPrade C, **Chona D**, Freehill M, Sherman S, Abrams G, Safran M, Freehill M. Performance of Major League Baseball Pitchers Following Primary Ulnar Collateral Ligament Reconstruction.

PODIUM PRESENTATIONS

Bala A, **Chona D**, Amanatullah D, Hu S, Wood K, Alamin T, Cheng I. Timing of Lumbar Spinal Fusion Affects Total Hip Arthroplasty Outcomes. 2019 American Academy of Orthopaedic Surgeons Annual Meeting.

Chona D, Bala A, Huddleston J, Goodman S, Maloney W, Amanatullah D. Effect of Computer Navigation on Complication Rates Following Unicompartmental Knee Arthroplasty. 2018 Western Orthopaedic Association Annual Meeting.

POSTER PRESENTATIONS

Bala A, **Chona D**, Amanatullah D, Hu S, Wood K, Alamin T, Cheng I. Timing of Lumbar Spinal Fusion Affects Total Hip Arthroplasty Outcomes. 2018 American Association of Hip and Knee Surgeons Annual Meeting.

Zimmer Z, **Chona D**, Kuntz A, Huffman R, Glaser D. Rotator Cuff Repair: An Opportunity for Improved Efficiency, Cost-Effectiveness, and Ultimately, Cost Savings. 2017 American Academy of Orthopaedic Surgeons Annual Meeting.

Zimmer Z, **Chona D**, Kuntz A, Huffman R, Glaser D. Rotator Cuff Repair: An Opportunity for Improved Efficiency, Cost-Effectiveness, and Ultimately, Cost Savings. 2016 American Shoulder and Elbow Surgeons Annual Meeting.

HOBBIES & INTERESTS

Soccer, Basketball, Football, Weightlifting, Sports Biomechanics, Stock Market, Hip-Hop Music, Vanderbilt Commodores, Houston Texans