



Geoffrey Abrams, MD

Associate Professor of Orthopaedic Surgery

CLINICAL OFFICE (PRIMARY)

- **Stanford Sports Medicine Clinic**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Dr. Abrams is an Associate Professor within the Department of Orthopedic Surgery at Stanford University School of Medicine. He serves as Director of Sports Medicine for Varsity Athletics at Stanford University, Assistant Team Physician for the NFL's San Francisco 49ers, and previous Assistant Team Physician for the NBA's Golden State Warriors. He specializes in Sports Medicine/arthroscopy of the shoulder, knee, and elbow, upper extremity joint replacement, as well as tendon and ligament reconstructive surgery of the shoulder, knee, and elbow. He is Board Certified in Orthopedic Surgery, with a subspecialty certificate in Sports Medicine, and is a member of the American Academy of Orthopedic Surgeons (AAOS), the American Orthopedic Society for Sports Medicine (AOSSM), and the American Shoulder and Elbow Surgeons (ASES), among others. He is actively involved in tendon disease research, focusing on the role of microRNA and tendon-derived stem cells in the pathogenesis of the disease. Dr. Abrams has authored or co-authored over 160 peer-reviewed scientific articles, over 30 book chapters, has given numerous invited presentations as well as presented original research at national and international scientific meetings. Dr. Abrams received his undergraduate degree from Stanford University and his Doctor of Medicine from the University of California - San Diego. He completed his residency in Orthopedic Surgery at Stanford University and went on to a Fellowship in Orthopedic Sports Medicine and Shoulder Surgery at Rush University Medical Center in Chicago, Illinois.

CLINICAL FOCUS

- Sports Medicine
- Orthopaedic Sports Medicine

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Orthopaedic Surgery
- Member, Bio-X
- Member, Wu Tsai Human Performance Alliance

ADMINISTRATIVE APPOINTMENTS

- Medical Director, Lacob Family Sports Medicine Center for Varsity Athletics, (2016- present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Orthopedic Society for Sports Medicine (2013 - present)
- Member, American Shoulder and Elbow Surgeons (2021 - present)
- Member, American Academy of Orthopedic Surgeons (2009 - present)
- Member, California Orthopedic Association (2013 - present)
- Member, Western Orthopedic Association (2013 - present)

PROFESSIONAL EDUCATION

- Board Certification: Orthopaedic Sports Medicine, American Board of Orthopaedic Surgery (2016)
- Medical Education: University of California San Diego School of Medicine (2007) CA
- Internship: Stanford University Dept of General Surgery (2008) CA
- Residency: Stanford University Orthopaedic Surgery Residency (2012) CA
- Fellowship: Rush University Sports Medicine Fellowship (2013) IL
- Board Certification: Orthopaedic Surgery, American Board of Orthopaedic Surgery (2015)

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Abrams' research is focused on elucidating the pathobiology behind tendinopathy and developing new treatment modalities for the disease. Specifically, his team is studying the role of micro-RNA as it relates to chronic inflammation and stem cell differentiation in the development and perpetuation of chronic tendinopathy.

CLINICAL TRIALS

- Pulsed Electromagnetic Field (PEMF) Therapy for Post-operative Pain Following Orthopedic Surgery, Recruiting
- The Effect of Micro Fragmented Adipose Tissue (MFAT) on Shoulder Osteoarthritis, Recruiting
- Efficacy and Safety of TenoMiR in Lateral Epicondylitis, Not Recruiting
- PEMF as Adjunctive Treatment Following Surgical Repair of Full Thickness Rotator Cuff Tears, Not Recruiting
- Safety of Treatment of Shoulder Repair, Not Recruiting

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Jason Thomas

Publications

PUBLICATIONS

- **The Effect of Mild-to-Moderate Preoperative Patellar Tendinopathy in Autografts Used for Anterior Cruciate Ligament Reconstruction on Postoperative Outcomes.** *The Journal of the American Academy of Orthopaedic Surgeons*
Xiao, M., Putko, R., Nguyen, J. N., Sherman, S. L., Safran, M. R., Abrams, G. D.
2025

- **The role of hinged external fixation in the treatment of knee dislocation, subluxation and fracture-dislocation: A systematic review of indications.** *Journal of experimental orthopaedics*
Ayhan, E. M., Levitt, S., Abrams, G. D., Stannard, J. P., Medvecky, M. J.
2025; 12 (2): e70275
- **Tension of the Repair During Rotator Cuff Surgery Appears to Matter More Than Medial-Lateral Footprint Coverage.** *Arthroscopy : the journal of arthroscopic & related surgery : official publication of the Arthroscopy Association of North America and the International Arthroscopy Association*
Xiao, M., Abrams, G. D.
2025
- **Video Analysis of Acute Lower Extremity Injury Mechanisms in Soccer Demonstrates Most Anterior Cruciate Ligament, Achilles, and Muscle Injuries Occur Without Direct Contact: A Systematic Review and Meta-Analysis.** *Arthroscopy : the journal of arthroscopic & related surgery : official publication of the Arthroscopy Association of North America and the International Arthroscopy Association*
Xiao, M., Lee, J. J., Boissiere, J. C., Sherman, S. L., Safran, M. R., Abrams, G. D., Hwang, C. E.
2025
- **Management of Isolated Partial ACL Tears: A Survey of International ACL Surgeons** *ORTHOPAEDIC JOURNAL OF SPORTS MEDICINE*
Frey, C. S., Pierre, K. J., Pham, N. S., Abrams, G. D., Sherman, S. L., Spalding, T., Safran, M. R.
2025; 13 (2): 23259671241311603
- **No Difference in Chondrocyte Viability Using Manual Versus Custom-Cutting Technique for Matrix-Induced Autologous Chondrocyte Implantation.** *Orthopaedic journal of sports medicine*
Chang, W. T., Atzman, R., Vel, M. S., Lin, K. M., Abrams, G. D., Sherman, S. L.
2025; 13 (2): 23259671241308855
- **Acromioclavicular Joint Injuries: Multi-center Expert Consensus Study using the Delphi Method.** *Journal of shoulder and elbow surgery*
Barnes, L., Shi, L. L., Walters, T., Abrams, G., ASES AC Joint Study Group, Abrams, G., Barnes, L., Budge, M., Cohen, S., Creighton, A., Freehill, M., Lobao Goncalves, M. H., Gregory, J., et al
2025
- **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
- **Surgical Excision of a Cyclops Lesion After ACL Reconstruction in an Elite College Athlete.** *Video journal of sports medicine*
Money, A. J., Pullen, W. M., Safran, M. R., Abrams, G. D., Sherman, S. L.
2024; 4 (6): 26350254241293462
- **Effect of Anatomic Variations in the Anterior Tibial Artery on Risk of Injury During Orthopaedic Knee Surgeries.** *Orthopaedic journal of sports medicine*
Frey, C., Bugarinovic, G., Zhou, J., Sherman, S., Abrams, G., Segovia, N., Cheah, J. W.
2024; 12 (12): 23259671241301461
- **Health Numeracy Is Associated With a Patient's Ability to Interpret Patient-Reported Outcome Measures Data.** *Orthopedics*
Schultz, E. A., Eppler, S. L., Gardner, M., Hu, S. S., Chou, L., Safran, M., Amanatullah, D. F., Abrams, G. D., Shapiro, L. M., Kamal, R. N.
2024: 1-6
- **Glenoid Structural Bone Grafting in Reverse Total Shoulder Arthroplasty: Clinical and Radiographic Outcomes.** *Journal of shoulder and elbow surgery*
Sholtis, C., Kha, S. T., Ramakrishnan, A., Abrams, G. D., Freehill, M. T., Cheung, E. V.
2024
- **Acromioclavicular Joint Reconstruction with Double-Bundle Constructs Provide Improved Maintenance of Reduction but Comparable Clinical Outcomes Versus Single-Bundle Constructs.** *Arthroscopy : the journal of arthroscopic & related surgery : official publication of the Arthroscopy Association of North America and the International Arthroscopy Association*
Xiao, M., Abrams, G. D.
2024
- **High Accuracy of Intra-articular Needle Position during Anterior Landmark Guided Glenohumeral Injections.** *Journal of ISAKOS : joint disorders & orthopaedic sports medicine*
Bartels, D., Pullen, W. M., Curtis, D., Sherman, S. L., Abrams, G. D., Cheung, E. V., Freehill, M. T., Wang, T.

2024

- **Knee MRI: Meniscus Roots, Ramps, Repairs, and Repercussions.** *Radiographics : a review publication of the Radiological Society of North America, Inc*
Tomsan, H., Gorbachova, T., Fritz, R. C., Abrams, G. D., Sherman, S. L., Shea, K. G., Boutin, R. D.
2023; 43 (7): e220208
- **No significant difference in risk of prolonged opioid use following outpatient versus inpatient total shoulder arthroplasty: A propensity matched analysis.** *Shoulder & elbow*
Xiao, M., Curtis, D. M., Cheung, E. V., Freehill, M. T., Abrams, G. D.
2023; 15 (3): 292-299
- **The Use of Biologics in NFL Athletes: An Expert Consensus of NFL Team Physicians.** *Orthopaedic journal of sports medicine*
Murray, I. R., McAdams, T. R., Hammond, K. E., Haddad, F. S., Rodeo, S. A., Abrams, G. D., Bankston, L., Bedi, A., Boublik, M., Bowen, M., Bradley, J. P., Cooper, D. E., Craythorne, et al
2023; 11 (2): 23259671221143778
- **Assessment of a Synergistic Effect of Platelet-Rich Plasma and Stem Cell-Seeded Hydrogel for Healing of Rat Chronic Rotator Cuff Injuries.** *Cell transplantation*
Oda, H., Kaizawa, Y., Franklin, A., Sanchez Rangel, U., Storaci, H., Min, J. G., Wang, Z., Abrams, G. D., Chang, J., Fox, P. M.
2023; 32: 9636897231190174
- **Development and systematic characterization of GelMA/alginate/PEGDMA/xanthan gum hydrogel bioink system for extrusion bioprinting.** *Biomaterials*
Li, J., Moeinzadeh, S., Kim, C., Pan, C. C., Weale, G., Kim, S., Abrams, G., James, A. W., Choo, H., Chan, C., Yang, Y. P.
2022; 293: 121969
- **Biomechanical, Histologic, and Micro-Computed Tomography Characterization of Partial-Width Full-Thickness Supraspinatus Tendon Injury in Rats.** *The Journal of hand surgery*
Oda, H., Kaizawa, Y., Franklin, A., Rangel, U. S., Min, J. G., Akerman, J., Storaci, H., Wang, Z., Abrams, G. D., Chang, J., Fox, P. M.
2022
- **Growth and Differentiation Factor-7 Immobilized, Mechanically Strong Quadrol-Hexamethylene Diisocyanate-Methacrylic Anhydride Polyurethane Polymer for Tendon Repair and Regeneration.** *Acta biomaterialia*
Wang, D., Zhang, X., Ng, K. W., Rao, Y., Wang, C., Gharaibeh, B., Lin, S., Abrams, G., Safran, M., Cheung, E., Campbell, P., Weiss, L., Ker, et al
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
- **Single-Stage Surgical Treatment of Multi-ligament Knee Injuries Results in Lower Cost and Fewer Complications and Unplanned Reoperations Compared With Staged Treatment.** *Arthroscopy, sports medicine, and rehabilitation*
Lau, B. C., Varsheya, K., Morriss, N., Wickman, J., Kirkendall, D., Abrams, G.
2022; 4 (5): e1659-e1666
- **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
- **A Genome-Wide Association Study Reveals Two Genetic Markers for Chondromalacia.** *Cartilage*
Kim, S. K., Kahn, C., Abrams, G. D.
2022; 13 (3): 19476035221121790
- **Limited Biomechanical Evidence Behind Single Row Versus Double Row Repair of Subscapularis Tears: A Systematic Review.** *Arthroscopy, sports medicine, and rehabilitation*
Xiao, M., Cohen, S. A., Cheung, E. V., Sherman, S. L., Abrams, G. D., Freehill, M. T.
2022; 4 (3): e1193-e1201

- **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
- **Ulnar Collateral Ligament Reconstruction Does Not Decrease Spin Rate or Performance in Major League Pitchers.** *The American journal of sports medicine*
Cinque, M. E., LaPrade, C. M., Abrams, G. D., Sherman, S. L., Safran, M. R., Freehill, M. T.
2022: 3635465221097421
- **Editorial Commentary: Soaking Anterior Cruciate Ligament Grafts in Vancomycin Solution Lowers Infection Rates Without Lowering Functional Outcomes.** *Arthroscopy : the journal of arthroscopic & related surgery : official publication of the Arthroscopy Association of North America and the International Arthroscopy Association*
Xiao, M., Abrams, G. D., Editorial Board
2022; 38 (5): 1535-1536
- **Patient-Specific Risk Factors Exist for Hip Fractures After Arthroscopic Femoroacetabular Impingement Surgery, But Not for Dislocation-An Analysis of More Than 25,000 Hip Arthroscopies.** *Arthroscopy, sports medicine, and rehabilitation*
Varshneya, K., Abrams, G. D., Sherman, S. L., Safran, M. R.
2022; 4 (2): e519-e525
- **Revision Ulnar Collateral Ligament Reconstruction in Major League Baseball Pitchers: Effects of Fastball Velocity and Usage.** *Journal of shoulder and elbow surgery*
LaPrade, C. M., Cinque, M. E., Chona, D. V., Sciascia, A. D., Abrams, G. D., Sherman, S. L., Safran, M. R., Freehill, M. T.
2022
- **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
- **Return-to-play and performance after operative treatment of Achilles tendon rupture in elite male athletes: a scoping review.** *British journal of sports medicine*
LaPrade, C. M., Chona, D. V., Cinque, M. E., Freehill, M. T., McAdams, T. R., Abrams, G. D., Sherman, S. L., Safran, M. R.
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
- **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
- **Biologic Augmentation for the Operative Treatment of Osteochondral Defects of the Knee: A Systematic Review** *ORTHOPAEDIC JOURNAL OF SPORTS MEDICINE*
Chona, D., Kha, S. T., Minetos, P. D., LaPrade, C. M., Chu, C. R., Abrams, G. D., Safran, M. R., Sherman, S. L.
2021; 9 (11)
- **Tendency of Driving to the Basket Is Associated With Increased Risk of Anterior Cruciate Ligament Tears in National Basketball Association Players: A Cohort Study.** *Orthopaedic journal of sports medicine*
Schultz, B. J., Thomas, K. A., Cinque, M., Harris, J. D., Maloney, W. J., Abrams, G. D.
2021; 9 (11): 23259671211052953
- **Tendency of Driving to the Basket Is Associated With Increased Risk of Anterior Cruciate Ligament Tears in National Basketball Association Players: A Cohort Study** *ORTHOPAEDIC JOURNAL OF SPORTS MEDICINE*
Schultz, B. J., Thomas, K. A., Cinque, M., Harris, J. D., Maloney, W. J., Abrams, G. D.
2021; 9 (11)
- **Biologic Augmentation for the Operative Treatment of Osteochondral Defects of the Knee: A Systematic Review.** *Orthopaedic journal of sports medicine*

- Chona, D. V., Kha, S. T., Minetos, P. D., LaPrade, C. M., Chu, C. R., Abrams, G. D., Safran, M. R., Sherman, S. L.
2021; 9 (11): 23259671211049756
- **Tendon-Derived Progenitor Cells With Multilineage Potential Are Present Within Human Patellar Tendon.** *Orthopaedic journal of sports medicine*
Leonardi, E. A., Xiao, M., Murray, I. R., Robinson, W. H., Abrams, G. D.
2021; 9 (8): 23259671211023452
 - **Biologics in professional and Olympic sport: a scoping review.** *The bone & joint journal*
Murray, I. R., Makaram, N. S., Rodeo, S. A., Safran, M. R., Sherman, S. L., McAdams, T. R., Murray, A. D., Haddad, F. S., Abrams, G. D.
2021; 103-B (7): 1189-1196
 - **Biologics in professional and Olympic sport: a scoping review** *BONE & JOINT JOURNAL*
Murray, I. R., Makaram, N. S., Rodeo, S. A., Safran, M. R., Sherman, S. L., McAdams, T. R., Murray, A. D., Haddad, F. S., Abrams, G. D.
2021; 103B (7): 1189-1196
 - **Infographic: Biologics in professional and Olympic sport: a scoping review.** *The bone & joint journal*
Murray, I. R., Makaram, N. S., Rodeo, S. A., Safran, M. R., Sherman, S. L., McAdams, T. R., Murray, A. D., Haddad, F. S., Abrams, G. D.
2021; 103-B (7): 1187-1188
 - **Three genes associated with anterior and posterior cruciate ligament injury A GENOME-WIDE ASSOCIATION ANALYSIS** *BONE & JOINT OPEN*
Kim, S. K., Nguyen, C., Avins, A. L., Abrams, G. D.
2021; 2 (6): 414-421
 - **Three genes associated with anterior and posterior cruciate ligament injury : a genome-wide association analysis.** *Bone & joint open*
Kim, S. K., Nguyen, C., Avins, A. L., Abrams, G. D.
2021; 2 (6): 414-421
 - **Association of COA1 with Patellar Tendonitis: A Genome-wide Association Analysis.** *Medicine and science in sports and exercise*
Kim, S. K., Nguyen, C., Horton, B. H., Avins, A. L., Abrams, G. D.
2021
 - **Arthroscopic Single and Double Row Repair of Isolated and Combined Subscapularis Tears Result in Similar Improvements in Outcomes: A Systematic Review.** *Arthroscopy : the journal of arthroscopic & related surgery : official publication of the Arthroscopy Association of North America and the International Arthroscopy Association*
Xiao, M., Cohen, S. A., Cheung, E. V., Abrams, G. D., Freehill, M. T.
2021
 - **Concomitant Osteotomy Reduces Risk of Reoperation Following Cartilage Restoration Procedures of the Knee: A Matched Cohort Analysis.** *Cartilage*
Calcei, J. G., Varshneya, K., Sochacki, K. R., Safran, M. R., Abrams, G. D., Sherman, S. L.
2021: 19476035211011515
 - **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
 - **Uvular Necrosis After Shoulder Surgery: A Report of Three Cases** *CUREUS*
Xiao, M., Kaufman, D., Abrams, G. D.
2021; 13 (3)
 - **Uvular Necrosis After Shoulder Surgery: A Report of Three Cases.** *Cureus*
Xiao, M., Kaufman, D. I., Abrams, G. D.
2021; 13 (3): e14233
 - **Tendinopathy.** *Nature reviews. Disease primers*
Millar, N. L., Silbernagel, K. G., Thorborg, K. n., Kirwan, P. D., Galatz, L. M., Abrams, G. D., Murrell, G. A., McInnes, I. B., Rodeo, S. A.
2021; 7 (1): 1

- **Outcomes After Resection Arthroplasty Versus Permanent Antibiotic Spacer for Salvage Treatment of Shoulder Periprosthetic Joint Infections: A Systematic Review and Meta-Analysis.** *Journal of shoulder and elbow surgery*
Xiao, M., Money, A., Pullen, W. M., Cheung, E. V., Abrams, G. D., Freehill, M. T.
2021
- **Hip Dislocation and Subluxation in Athletes: A Systematic Review.** *The American journal of sports medicine*
Chona, D. V., Minetos, P. D., LaPrade, C. M., Cinque, M. E., Abrams, G. D., Sherman, S. L., Safran, M. R.
2021: 3635465211036104
- **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
- **Pain Management in Shoulder Arthroplasty: A Systematic Review and Network Meta-Analysis of Randomized Controlled Trials.** *Journal of shoulder and elbow surgery*
Xiao, M., Cohen, S. A., Cheung, E. V., Freehill, M. T., Abrams, G. D.
2021
- **Author Correction: Tendinopathy.** *Nature reviews. Disease primers*
Millar, N. L., Silbernagel, K. G., Thorborg, K. n., Kirwan, P. D., Galatz, L. M., Abrams, G. D., Murrell, G. A., McInnes, I. B., Rodeo, S. A.
2021; 7 (1): 10
- **Identification of Three Loci Associated with Achilles Tendon Injury Risk from a Genome-wide Association Study.** *Medicine and science in sports and exercise*
Kim, S. K., Nguyen, C. n., Avins, A. L., Abrams, G. D.
2021
- **Autologous Bone Grafting** *OPERATIVE TECHNIQUES IN SPORTS MEDICINE*
Robinson, P. G., Abrams, G. D., Sherman, S. L., Safran, M. R., Murray, I. R.
2020; 28 (4)
- **Superior Capsular Reconstruction: A Systematic Review of Surgical Techniques and Clinical Outcomes.** *Arthroscopy : the journal of arthroscopic & related surgery : official publication of the Arthroscopy Association of North America and the International Arthroscopy Association*
Gao, I., Sochacki, K. R., Freehill, M. T., Sherman, S. L., Abrams, G. D.
2020
- **The use of biologics in professional and Olympic sport: a scoping review protocol.** *Bone & joint open*
Makaram, N. S., Murray, I. R., Rodeo, S. A., Sherman, S. L., Murray, A. D., Haddad, F. S., McAdams, T. R., Abrams, G. D.
2020; 1 (11): 715–19
- **Platelet-Rich Plasma Augmentation for Isolated Arthroscopic Meniscal Repairs Leads to Significantly Lower Failure Rates: A Systematic Review of Comparative Studies.** *Orthopaedic journal of sports medicine*
Sochacki, K. R., Safran, M. R., Abrams, G. D., Donahue, J., Chu, C., Sherman, S. L.
2020; 8 (11): 2325967120964534
- **Comparison of Autologous Chondrocyte Implantation and Osteochondral Allograft Transplantation of the Knee in a Large Insurance Database: Reoperation Rate, Complications, and Cost Analysis.** *Cartilage*
Sochacki, K. R., Varshneya, K., Calcei, J. G., Safran, M. R., Abrams, G. D., Donahue, J., Chu, C., Sherman, S. L.
2020: 1947603520967065
- **Can upstream patient education improve fracture care in a digital world? Use of a decision aid for the treatment of displaced diaphyseal clavicle fractures.** *Journal of orthopaedic trauma*
Lai, C. H., DeBaun, M. R., Van Rysselberghe, N., Abrams, G. D., Kamal, R. N., Bishop, J. A., Gardner, M. J.
2020
- **A Genome-wide Association Study for Concussion Risk.** *Medicine and science in sports and exercise*
Kim, S. K., Roche, M. D., Fredericson, M., Dragoo, J. L., Horton, B. H., Avins, A. L., Belanger, H. G., Ioannidis, J. P., Abrams, G. D.
2020

- **Preoperative Fatty Infiltration of the Teres Minor Negatively Affects Postoperative Outcomes in Patients With Rotator Cuff Pathology.** *Orthopaedic journal of sports medicine*
Sarkissian, E. J., Xiao, M., Abrams, G. D.
2020; 8 (10): 2325967120960107
- **Delayed Union of a Diaphyseal Forearm Fracture Associated With Impaired Osteogenic Differentiation of Prospectively Isolated Human Skeletal Stem Cells.** *JBMR plus*
Goodnough, L. H., Ambrosi, T. H., Steininger, H., DeBaun, M. R., Abrams, G. D., McAdams, T. R., Gardner, M. J., Chan, C. K., Bishop, J. A.
2020; 4 (10): e10398
- **Surgeon practice patterns for pre-soaking ACL tendon grafts in vancomycin: a survey of the ACL study group.** *Knee surgery, sports traumatology, arthroscopy : official journal of the ESSKA*
Xiao, M., Sherman, S. L., Safran, M. R., Abrams, G. D.
2020
- **Rationale for the Use of Orthobiologics in Sports Medicine** *OPERATIVE TECHNIQUES IN SPORTS MEDICINE*
Makaram, N. S., Safran, M. R., Abrams, G. D., Sherman, S. L., Murray, I. R.
2020; 28 (3)
- **Costs, Complications, and Reoperations Associated With Primary Arthroscopic Rotator Cuff Repair With or Without Acromioplasty and/or Biceps Tenodesis.** *Arthroscopy, sports medicine, and rehabilitation*
Varshneya, K., Safran, M. R., Sherman, S. L., Abrams, G. D.
2020; 2 (4): e369–e376
- **Editorial Commentary: Please Don't Call It a Mesenchymal Stem Cell.** *Arthroscopy : the journal of arthroscopic & related surgery : official publication of the Arthroscopy Association of North America and the International Arthroscopy Association*
Abrams, G. D., Murray, I. R.
2020; 36 (8): 2134–36
- **Reoperation Rates following Meniscus Transplantation using the Truven Database.** *Arthroscopy : the journal of arthroscopic & related surgery : official publication of the Arthroscopy Association of North America and the International Arthroscopy Association*
Sochacki, K. R., Varshneya, K. n., Safran, M. R., Abrams, G. D., Donahue, J. n., Wang, T. n., Sherman, S. L.
2020
- **Risk of Subsequent Knee Arthroplasty After Sports Medicine Procedures.** *Journal of the American Academy of Orthopaedic Surgeons. Global research & reviews*
Enweze, L. C., Varshneya, K. n., Sherman, S. L., Safran, M. R., Abrams, G. D.
2020; 4 (8): e2000125
- **Relationship of the Medial Patellofemoral Ligament Origin on the Distal Femur to the Distal Femoral Physis: A Systematic Review.** *The American journal of sports medicine*
Sochacki, K. R., Shea, K. G., Varshneya, K. n., Safran, M. R., Abrams, G. D., Donahue, J. n., Sherman, S. L.
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