

2023 Annual Report

Stanford University
School of Medicine
Department of Orthopaedic Surgery
Division of Pediatric Orthopaedics
Steven L. Frick, MD
Professor and Chief



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Orthopaedic Surgery



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Children's Health

January 1, 2024

Dear Friends and Colleagues,

After 7 years at Stanford, I am grateful for the more than 100 people who now work with our division to take care of children with orthopaedic problems. As I look back on our journey, I especially appreciate **Bill Maloney**, our department chairman from the Stanford University School of Medicine, and **Denny Lund**, the Chief Medical Officer from Stanford Medicine Children's Health, who provide leadership, direction and resources. Leadership matters, and we are fortunate to have had their support and guidance. **Our highlights from 2023:**

- Record numbers of surgical cases, OR minutes and outpatient visits
- Leading SMCH in outpatient volumes, patient access and patient satisfaction, and OR block time utilization
- Representation of our team on the podium at major national and international orthopaedic meetings – POSNA, SRS, AAOS, AOA, AOSSM, PRISM, EPOS and others
- Continued success of our sports medicine team caring for local high schools and sports clubs, and major research initiatives by Dr. Kraus as part of the Wu Tsai Alliance for Human Performance
- Leadership in national orthopaedics by Drs Shea, Tileston, Imrie, Pun and Vorhies
- Return of our team to Honduras as part of Operation Rainbow
- Recognition of our program by USNWR with a #24 ranking

Last, this year we celebrated the remarkable career of **Larry Rinsky, MD**. For 5 years as a resident and 47 years on faculty, he impressed with his intellect and surgical skills, but mostly with his caring. We will carry on following his example, and are all better for having worked alongside him.

We are honored to have the opportunity every day to help children who have musculoskeletal problems, and we look forward to 2024. This year we did our best, and next year we will do better.

A healthy, happy New Year to all,



Clinical Activities

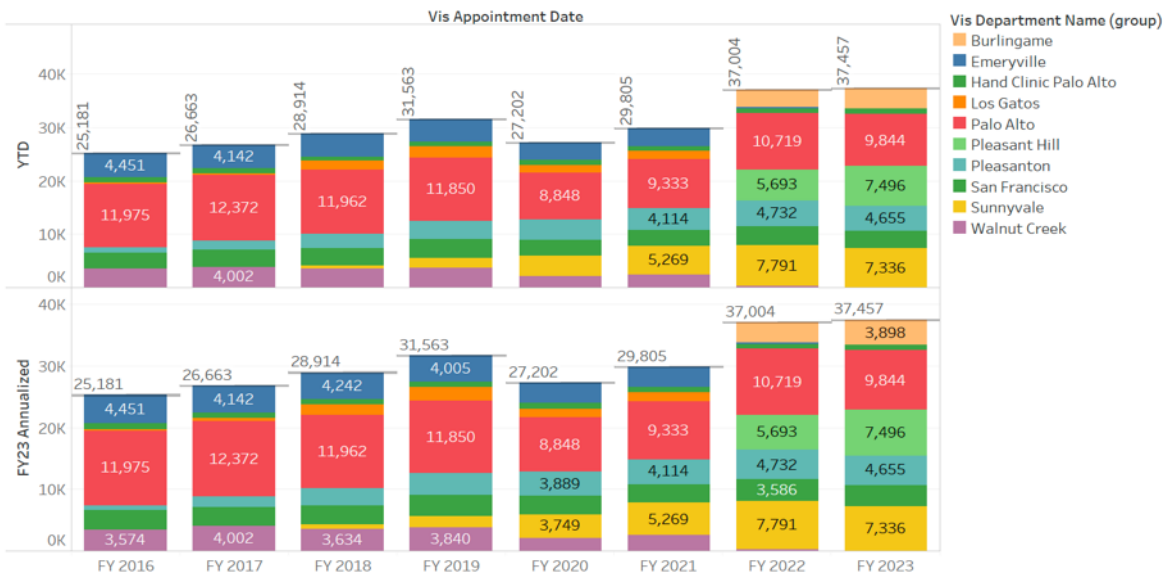
Keith Cook, our Executive Director of the Orthopaedic Service Line for Stanford Children's and Stanford Children's Rehabilitation operations led our clinical team including Operations Manager **Eric Klein** (practice data analysis, call center and surgery scheduling operations), **Laura Fleischer** (Practice Manager), **Keisha Dawson** (Asst Clinic Manager -Pleasant Hill), **Cynthia Guerrero** (Asst Clinic Manager -Palo Alto), **Melissa Sanchez** (Asst Clinic Manager- Sunnyvale) and **Keely Giss** (lead Advanced Practitioner Provider), **Kate Harbachek** (Athletic Training Program Manager) , and **Hiroko Kenner** (IS Service Line leader). In the operating rooms at LPCH, **Celeste Brody RN** and **Ashley Mendoza ST** are our ortho OR leaders, working with Dr. Shea in his role as Asst Surgeon-in-Chief.

We said "so long" to **Madison McSwain** our orthopaedic nurse manager, and **Caitlyn Francis** our APP lead, as they left SMCH to pursue other professional opportunities. Amazing people who will be missed.

The Division of Pediatric Orthopedic Surgery finishes 2023 with 11 pediatric orthopedic surgeons, 4 primary care sports medicine physicians, and 10 advanced practice providers at 6 locations and 4 hospitals in the Bay Area. Our team provides 24/7/365 coverage at the level one trauma center at Stanford, and expert pediatric orthopaedic care at John Muir Medical Center in Walnut Creek, California Pacific Medical Center in San Francisco, and Santa Clara Valley Medical Center in San Jose. In addition to 4 sports surgeons and 4 sports medicine physicians, our pediatric sports medicine team includes certified athletic trainers, with relationships with many local high schools and sports clubs as a part of our Young Athletes Academy program. We also benefit from the clinical expertise of adult faculty with pediatric interests from musculoskeletal oncology (Raffi Avedian, Robert Steffner) and hand surgery (Amy Ladd, Margaret Cooke, James Chang, Paige Fox). Our efficiency, quality, access and patient satisfaction efforts continued to be excellent, with our division leading SMCH in many areas.

FY2023 built on prior success, and was another record year for our division, with highest ever totals for outpatient visits, surgical procedures and OR minutes at LPCH.

Ortho/Hand Surgery Clinic Volume YoY Total Visits

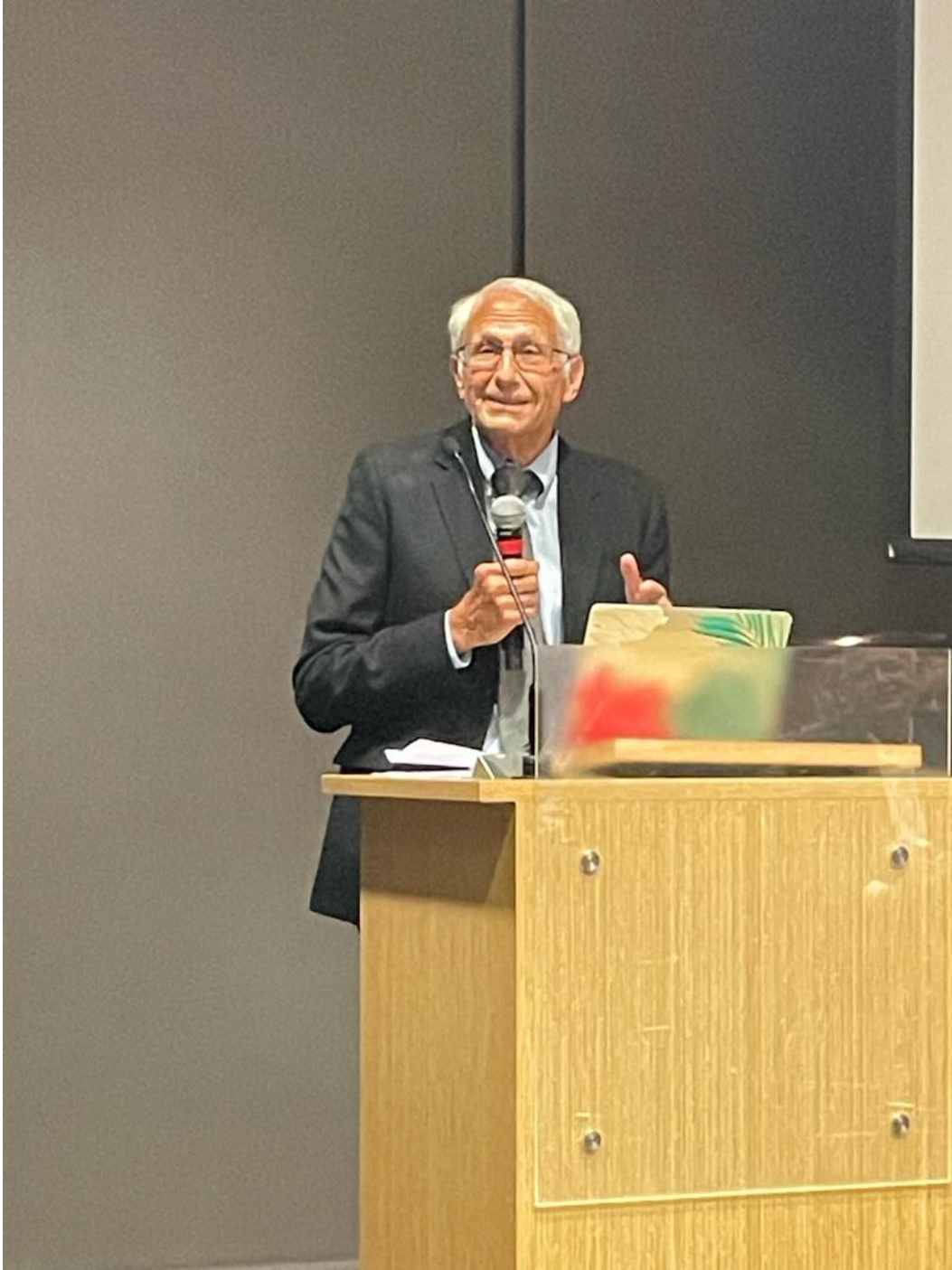


Lawrence A. Rinsky, MD Professor, Chief Emeritus retires in 2023

We honored Dr. Rinsky with a summer picnic celebration, and then a faculty dinner in September. Many former colleagues, residents and friends attended to honor this great man and surgeon after 52 years of service in the Stanford orthopaedic department.



Dr Rinsky, wife Susan and family, cutting an amazing retirement cake created by lead ortho surgical tech Ashley Mendoza at a June picnic celebration in the CAM courtyard.



Dr Rinsky delivering remarks at faculty retirement dinner celebration on Stanford campus in September.

Drs Rinsky and Gamble – last case scrubbed together July 2023.





We are all reminded each day to follow Dr Rinsky's example by a portrait painted by Sam Rodriguez (pediatric anesthesiologist LPCH) that hangs in our CAM building office hallway.

LPCH ORs- where lives are changed every day for the better.



**Dr. Gamble with a
“5 cases by 4 pm” day
in the LPCH OR**



**Drs. Imrie and Rinsky celebrate
a “1 case by 7 pm” day**

SMCH Ortho Operation Rainbow Trip to Honduras- November 2023

Jeff Young, Kali Tileston, John Vorhies- Stanford peds ortho surgeons
Javi Sandino – Ortho Tech aka superman / Spiderman
Vivian Ho – SMCH Ortho Nurse Practitioner
Celeste Brody, Ashley Mendoza, Rick – LPCH OR ortho staff
Rosa Valtanen – Stanford Ortho PGY5 resident
Monte Squiers- Stanford Peds Ortho fellow 2020-2021
Tone Sawyer, Lauren Smith – Stanford peds anesthesiologists
Brad Veach – Orthopediatrics

After a COVID- caused hiatus, the SMCH Ortho team restarted an annual tradition, and travelled again this fall to Honduras as a part of Operation Rainbow, led by Drs. Young, Tileston and Vorhies. A large number of individuals who help us take care of Stanford Medicine Children’s Health patients volunteered to make the trip. A look at the smiles on the faces is all you need to see to know the trip was a great success.







LPCH Operating Room Activities

The pediatric orthopaedic division continues to lead in efforts to improve quality and efficiency of surgical care at LPCH, led by Assistant Surgeon-in-Chief Kevin Shea.

Surgical Process Improvements led by orthopaedic program in past 6 years:

1. First surgical group fully converted to electronic case scheduling
2. Partnership with anesthesiology and OR management to develop a system for scheduling urgent orthopaedic add-on cases
3. Leading participation rates by orthopaedic surgeons in the surgical quality AM huddle for case preparation
4. Consolidation of orthopaedic instrument trays for more efficient OR operations, instrument processing, waste reduction
5. Participation in supply chain evaluation and negotiating processes to optimize pricing for orthopaedic implants
6. Creation of a dedicated complex spine deformity team involving surgeons, anesthesiologists, neuro-monitoring professionals, OR nursing and surgical technicians
7. Revamp of biopsy specimen handling processes to optimize reliability, and integrations with the Pathology EPIC AP Beaker Process
8. Building an outpatient surgery center approach within LPCH launched in 2023 with Ortho as one of the lead participants
9. Ortho department high level performance for OR quality metrics : On Time Starts, Block Utilization, Accuracy of Surgeon Control Time Scheduling, AM Huddle participation

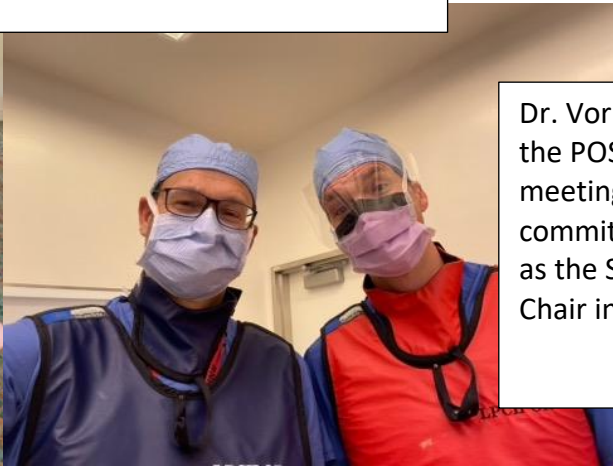
More to come in 2024!

Stanford Children's Orthopaedic Surgery and Sports Medicine National Leadership Positions

Kevin Shea served as Vice President of POSNA this year, and will be President-Elect in 2024-25, and President in 2025-26.



Dr. Shea at the POSNA Annual Meeting in Nashville, TN



Dr. Vorhies is currently on the POSNA annual meeting program committee, and will serve as the Scientific Program Chair in 2026 in Orlando.



Dr. Tileston leads the Pediatric Safe Surgery Program for POSNA, as well as serving on the Pediatric Device Committee. She is seen above as "Captain Marvel" as an instructor at the IPOS meeting in Orlando

In addition, Dr. Imrie leads the POSNA Pediatric Orthopaedic Fellowship Committee, Dr. Pun is a member of ANCHOR and IHDR, hip preservation and dysplasia study groups, and Dr. Frick is a Director for ABOS.

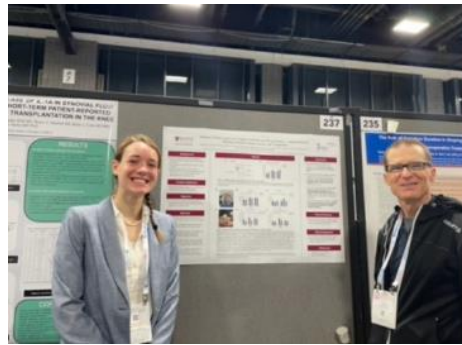
Scholarly Activities 2023

Pediatric Orthopaedic Research Program

Our research program and academic presence in the pediatric orthopedic world continued to grow under the leadership of Dr. Kevin G. Shea, director of research, Christian Klemt and Amishi Jobanputra. Our faculty published 55 peer-reviewed journal articles, participated in national and international orthopaedic meetings presenting original research and lectures, and obtained extramural grant funding. Details about our team's efforts are available at <https://med.stanford.edu/pedsortho/events.html>.



Drs. Kevin Shea and Kali Tileston at the POSNA Podium presenting their QSVI topic: "Safe Surgery Program"



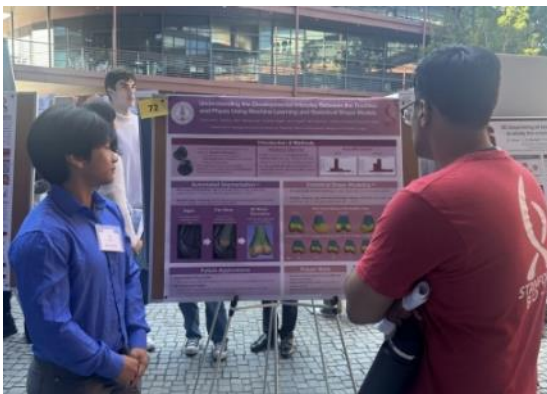
Stanford Medical Student Willemijn van Deursen working with Dr. Shea presenting her poster at AOSSM



Dr. Kevin Shea and Dr. Molly Meadows with Stanford Ortho Remote Summer Research Program students Keinan Agonias, Nick Thomas, and Jonathan Joyner at PRISM



Stanford Resident Stephanie Kha presenting her research study at WOA



Bryan Khoo Stanford student working with Dr. Kevin Shea presenting his research at the Stanford's BioX Symposium. Bryan's poster was appreciated by the judges and selected for an award.

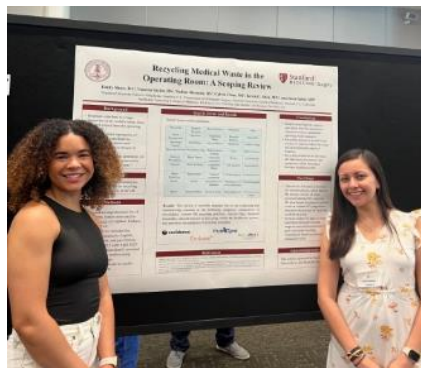


Dr. Stephanie Pun presenting at AAOS Surgical Treatment of the Pre-Arthritic Hip Course

Dr. Emily Kraus talking about her FASTR Program at Wu Tsai Human Performance Alliance meeting.

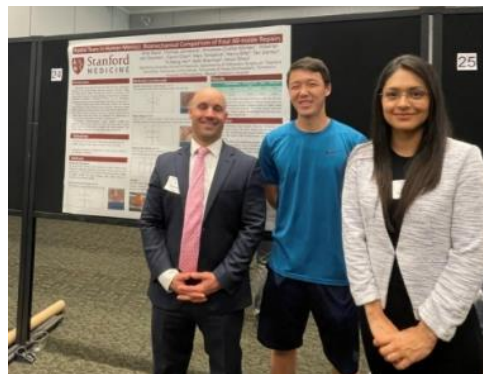


Dr. Charles Chan working with high school baseball on his pilot ultrasound screening project on Elbow OCD



Emily Moya, Stanford student, and Vanessa Taylor, CRC to Dr. Shea, presenting their research poster at Annual Medical Student Research Symposium

Emily and Wills, both won the 38th Annual Medical Student Research Symposium Poster Presentation Award for their research completed under the guidance of Dr. Shea.



Wills Baird, Stanford student presenting his research poster at Annual Medical Student Research Symposium

Since 2017, we have submitted 746 abstracts, presented 321 abstracts, published 272 papers, and have had 15 of 47 grant applications funded. We currently have 90+ active projects across our division. Our faculty participates in more than 10 national and international registries.

| Research Output by Years | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 |
|--------------------------|------|------|------|------|------|------|------|
| Publications | 11 | 45 | 36 | 43 | 32 | 50 | 55 |
| Abstract Submitted | 28 | 103 | 125 | 118 | 118 | 132 | 122 |
| Abstracts Accepted | 9 | 51 | 57 | 58 | 51 | 39 | 56 |
| Grants Submitted | 0 | 3 | 6 | 13 | 3 | 11 | 11 |
| Grants Awarded | 0 | 2 | 4 | 5 | 1 | 1 | 2 |

Following the success of our remote summer research program in 2021 and 2022, we were excited to offer the program in 2023 as well. We welcomed 10 medical students from diverse backgrounds to 2023 summer research program. All students worked on a 10-week research project under faculty mentorship. As part of the summer research program, we organized weekly instructional course lectures and faculty lectures to provide an additional educational component and insight into topics of high interest to the students. Post-program surveys showed excellent student satisfaction, and all students stated that this remote summer research program improved their research skills, interest in orthopaedic surgery, and networking. By the end of the summer research program, most students contributed to either an abstract and/or manuscript. You can find all our lecture recordings and information about our summer research program at <https://med.stanford.edu/pedsortho/news/news-story-2/summer-student-research-lecture-recordings.html>



Dr. Vorhies presenting to the summer research students on innovation and technology in orthopaedics.

Our faculty mentors were also actively involved in mentoring Stanford medical students through the Medical Scholars Research Program. Under faculty supervision of Dr. Pun and Dr. Shea, 2 students were involved in a variety of projects related to Hip surgery, sports medicine, and knee injuries. We are delighted that all students will be able to submit a first author publication based on their research contribution. You can read in detail about our support for Medical Scholar students at <https://med.stanford.edu/pedsortho/news/news-story-3.html#2023-2024>

In the summer of 2023, the ROCK Group (<https://kneeocd.org/>) led by Dr. Shea conducted a pediatric cadaveric dissections' lab at AlloSource (Centennial, CO), a tissue manufacturing and distributing company (<https://www.allosource.org/about-allosource/>). During the lab, more than 45 orthopaedic surgeons, medical students and pre-medical students explored human anatomy and gathered data vital to answering some of the field's most pressing developmental and anatomic questions. The purpose of this lab was to gather data to learn more about pediatric knee anatomy for the improvement of physal respecting reconstruction procedures,

meniscus repair, joint biomechanics, and the understanding of the development and growth patterns of pediatric knees.



Dr. Shea and the team during the cadaveric dissection sessions at AlloSource.



Dr. Charles Chan with Med school students at AlloSource



Dr. Kevin Shea with Past, present and future Stanford Med school students at AlloSource

Congratulations are in order

- ❖ Dr. Kevin Shea - elected Vice President of POSNA
- ❖ Dr. John Vorhies – received an invitation to be part of the coveted Harms Study Group (HSG) – Mentorship program.
- ❖ Dr. Stephanie Pun - selected to lead a team for the Stanford RITE and CELT QSVI programs.
- ❖ Dr. Kali Tileston - invited to present her Study at Orthopaedic Research Society (ORS) in 2024 as her research study ePoster was most viewed at the NASS Annual Meeting in 2023!
- ❖ Dr. Kevin Shea’s project with Stanford Student Thomas Johnstone - Screws or Sutures? A Pediatric Cadaveric Study of Tibial Spine Fracture Repairs – was published as a video abstract by AJSM Link: https://youtu.be/Yn_ZRgLFJfU

Research is not the only thing we do

- ✓ Dr. John Vorhies regularly hosts a Podcast interviewing different SRS members on various topics – check out his fun conversations
<https://podcasts.apple.com/kz/podcast/scoliosis-dialogues-an-srs-podcast/id1531000032>
- ✓ Dr. Kali Tileston and Dr. John Vorhies visited Honduras for a week on a surgical mission as part of Operation Rainbow.
- ✓ Dr. John Vorhies writes a blog on his research projects – to follow visit:
<https://www.tumblr.com/drjohnsvorhies>
- ✓ Dr. Kali Tileston was part of IPOS Top gun educators and PediOrtho West team
- ✓ Dr. Stephanie Pun served as Co-Chair for Hip Subspecialty Day at the 2023 POSNA Annual Meeting
- ✓ Dr. Stephanie Pun was a faculty at the American Academy of Orthopaedic Surgeons (AAOS) Orthopaedic Learning Center in Rosemont, IL teaching a course on the Surgical Treatment of the Pre-Arthritic Hip.

Meet our current team



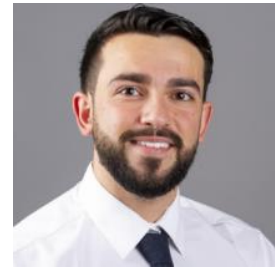
Christian Klemt
Research Program
Manager



Amishi Jobanputra
Clinical Research
Manager



Abby McIntyre
CRCA working with
Dr. Kraus



Amin Alayleh
CRCA to Dr. Shea



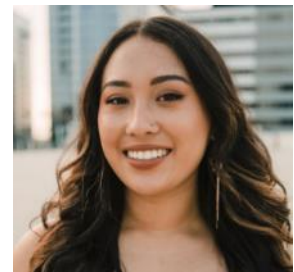
Ellie Diamond
CRCA to Dr. Kraus



Hiba Naz - CRCA to Dr.
Tileston/Dr. Pun



Marleni Albarran
CRCA to Dr. Vorhies



Nicole Segovia Pham
Biostatistician

While we grow from strength to strength, we are happy to see some of our team members moving on to their next steps: Vanessa Taylor, and Xochitl Bryson. We wish them all the best for the future and thank them for their tremendous contributions.



Vanessa Taylor
Graduate School at
University of Southern
California



Xochitl Bryson
Pursuing a new
opportunity with
Northwestern university.

It's not all Work and no Fun at Peds Ortho Research Program



Research Staff at Stanford Stadium Skybox



Riding with Dr. Shea - Right of Passage for med students



Mandatory Plane Selfie



Boba Break with Dr. Chan



Farewell Breakfast



Farewell Dinner – Thank you Dr. Shea!



In house Captain Marvel – Dr. Tileston with the IPOS top gun educators team



Time to unwind after POSNA

2023 Peer Reviewed Publications (55 Total)

1. Carpenter CM, Cooper SB, Wislon PL, Miller SM, Wyatt CW, Johnson BL, Shea KG, Ellis HB. An activity scale for all youth athletes? Clinical considerations for the HSS Pedi-FABS. *Orthop J Sports Med.* 10(12):23259671221143534. doi: 10.1177/23259671221143534.
2. Zhou YJ, Richards A, Schadl K, Ladd A, Rose J. The swing performance index: developing a single-score index of golf swing rotational biomechanics quantified with 3D kinematics. *Front Sports Act Living.* doi: 10.3389/fspor.2022.986281.
3. Tileston K. CORR Insights: Interpersonal interactions and biases in orthopaedic surgery residency: Do experiences differ based on gender? *Clin Orthop Rel Res.* 481(2):379-381. doi: 10.1097/CORR.0000000000002512.
4. The Mars Group, Wright RW, Huston LJ, Haas AK, Pennings JS, Allen CR, Shea KG, Wolf BR, York JJ. Meniscal and articular cartilage predictors of outcome after revision ACL reconstruction: A 6-year follow-up cohort study. *Am J Sports Med.* doi.org/10.1177/03635465231151389
5. Rohde MS, Shea KG, Dawson T, Heyworth BE, Milewski MD, Edmonds EW, Adsit E, Ellis HB. Age, sex and BMI differences related to repairable meniscal tears in pediatric and adolescent patients. doi.org/10.1177/03635465221145939
6. Van Niekerk M, Richey A, Vorhies J, Wong C, Tileston K. Effectiveness of psychosocial interventions for pediatric patients with scoliosis: a systematic review. *World J Pediatr Surg.* doi: 10.1136/wjps-2022-000513
7. Hug NF, Purger DA, Li D, Rinsky L, Hong DS. Neurosurgical management of vertebral lesions in pediatric chronic recurrent multifocal osteomyelitis: patient series. *J Neurosurg Case Lessons.* 5(4):CASE22179. doi: 10.3171/CASE22179.

8. Kajabi AW, Zbyn S, Johnson CP, Tompkins MA, Nelson BJ, Takahashi T, Shea KG, Murette S, Carlson CS, Ellermann JM. A longitudinal 3T MRI T₂ * mapping of Juvenile osteochondritis dissecans (JOCD) lesions differentiates operative from non-operative patients-Pilot study. *J Orthop Res.* 41(1):150-160. doi: 10.1002/jor.25343
9. Chan EM, Halvorsen KC, Pham NS, Kaur J, Bryson XM, Chan CM, Vorhies JS. Opioid prescriptions after ACL reconstruction in adolescents are associated with subsequent opioid use disorder. *J Pediatr Orthop.* 43(4):e273-e277. doi: 10.1097/BPO.0000000000002340.
10. Gupta A, Lee J, Chawla A, Rajagopalan V, Kohler M, Moelling B, McFarlane KH, Sheth KR, Ratliff JK, Hu SS, Wall JK, Shea KG. A Stepwise replicable approach to negotiating value-driven supply chain contracts for Orthobiologics. *J Am Acad Orthop Surg.* doi: 10.5435/JAAOS-D-21-01008
11. Tan T, Gatti AA, Fan B, Shea KG, Sherman SL, Uhrich SD, Hicks JL, Delp SL, Shull PB, Chaudhari AS. A scoping review of portable sensing for out-of-lab anterior cruciate ligament injury prevention and rehabilitation. *NPL Digit Med.* 6(1):46. doi: 10.1038/s41746-023-00782-2.
12. Parker E, Al Anazi M, Hurry JK, Pediatric Spine Study Group, Vorhies J, El-Hawary R. Low radius of curvature growth-friendly rib-based implants increase the risk of developing clinically significant proximal junctional kyphosis. *Spine Deform.* doi: 10.1007/s43390-023-00645-6.
13. Montgomery BK, Joseph G, Segovia N, Koltsov J, Thomas TL, Vorhies J, Tileston KR. The influence of race, income, and sex on treatment and complication rates of common pediatric orthopaedic fractures. *Orthopaedics.* doi: 10.3928/01477447-20230104-06.
14. Kwong JW, Tileston KR, Segovia N, Imrie MN, Rinsky LA, Vorhies JS. Temporary flexible rods for correction of severe pediatric spinal deformity. *Orthopaedics.* doi: 10.3928/01477447-20230207-03.
15. Vuong B, Zhou J, Park M, Patey R, Segovia N, Imrie M, Pun SY. Knowledge and practices related to hip-healthy swaddling for newborns among maternity nurses. *J Obstet Gynecol Neonatal Nurs.* doi: 10.1016/j.jogn.2022.08.004
16. Heyworth BE, Ganley TJ, Liotta ES, Hergott KA, Miller PE, Wall EJ, Myer GD, Nissen CW, Edmonds EW, Lyon RM, Chambers HG, Milewski MD, Green DW, Weiss JM, Wright RW, Polousky JD, Nepple JJ, Carey JL, Kocher MS, Rock Group, Shea KG. Transarticular versus retroarticular drilling of stable osteochondritis dissecans of the knee: A prospective multicenter randomized controlled trial by the Rock Group. *Am J Sports Med.* doi:10.1177/03635465231165290.
17. Li J, Moeinzadeh S, Kim C, Pan CC, Weale G, Kim S, Abrams G, James AW, Choo HR, Chan C, Yang PY. Development and systematic characterization of

GELMA/alginate/PEGDMA/xanthan gum hydrogel bioing system for extrusion bioprinting. *Biomaterials*. doi:10.1016/j.biomaterials.2022.121969.

18. Hollyer I, Johnson TR, Kha ST, Foreman C, Ho V, Klemm C, Chan CK, Vorhies J. Introduction of a novel sequential approach to the Ponte Osteotomy to minimize spinal canal exposure. *Children*. 10(3): 470-475. doi: 10.3390/children10030470
19. Mishreky A, Parent S, Miyani F, Smit K, Murphy J, Bowker R, Al Khatib N, El-Hawary R, Pediatric Spine Study Group, Vorhies J. Body mass index affects outcomes after vertebral body tethering surgery. *Spine Deform*. doi: 10.1007/s43390-021-00455-8.
20. Shaw KA, Welborn MC, Matsumoto H, Parent S, Sachwani N, El-Hawary R, Skaggs D, Newton PO, Blakemore L, Vitale M, Samdani A, Murphy JS, Pediatric Spine Study Group, Vorhies J. To tether or fuse. Significant equipoise remains in treatment recommendations for idiopathic scoliosis. *Spine Deform*. doi: 10.1007/s43390-022-00497-6.
21. Tileston K, van Niekerk M, Vitale M, Cho R, Brighton B, Tippabhatla A, Rohde M, Shea K. QI/PI: POSNA Safe Surgery Program (PSSP) – first year results implementing quality metrics. *J Posna*. <https://doi.org/10.55275/JPOSNA-2023-544>
22. Rohde MS, Trivedi S, Randhawa S, Wright CE, Vuong BB, Pham N, Stavinoha T, Ellis HB, Ganley TJ, Green DW, Fabricant PD, Tompkins M, Shea KG. Pediatric meniscus morphology varies with age: a cadaveric study. *Knee Surg Sports Traumatol Arthrosc*. doi: 10.1007/s00167-023-07447-3.
23. Gamble JG. Dostoevsky, The Brothers Karamazov, and Epilepsy. *Cureus*.15(5):e38602. doi: 10.7759/cureus.38602.
24. Langner JL, Kaur J, Pham NS, Richey A, Hastings K, Mehta S, Bryson X, Vorhies J. Does spinal deformity affect adolescents' quality of life before we tell them it should? *Spine Deform*. doi: 10.1007/s43390-023-00691-0.
25. Fredericson M, Roche M, Barrack MT, Tenforde A, Sainani K, Kraus E, Kussman A, Olson EM, Kim BY, Fahy K, Miller E, Diamond E, Meraz S, Singh S, Nattiv A. Healthy runner project: a 7-year, multisite nutrition education intervention to reduce bone stress injury incidence in collegiate distance runners. *BMJ Open Sport Exerc Med*. 9(2):e001545. doi: 10.1136/bmjsem-2023-001545.
26. Takematsu E, Murphy M, Hou S, Steininger H, Alam A, Ambrosi TH, Chan C. Optimizing delivery of therapeutic growth factors for bone and cartilage regeneration. *Geld*. 9(5):377. doi: 10.3390/gels9050377.
27. Watts RE, Gorbachova T, Fritz RC, Saad SS, Lutz AM, Kim J, Chaudhari AS, Shea K, Sherman SL, Boutin RD. Patellar tracking: an old problem with new insights. *Radiographics*. 43(6):e220177. doi: 10.1148/rg.220177.

28. Seltzer R, Johnson JR, McFralane K, Chawla A, Chamberlain S, Kohler M, Sheth K, Wall JK, Bishop J, Gardner M, Shea K. Optimizing orthopaedic trauma implant pricing through a data-driven and surgeon-integrated approach. *J Orthop Trauma*. 37(6):304. doi: 10.1097/BOT.0000000000002560.
29. Gamble JG, Shirodkar RN, Gamble JG. Knee valgus and patellafemoral instability after pediatric anterior cruciate ligament reconstruction: a case report and review of the literature. *J Med Case Rep*. 17(1):212. doi: 10.1186/s13256-023-03920-2.
30. Gamble JG. Late Presentation of a Retained Wood Foreign Body as an Expanding Soft-Tissue Mass in an Adolescent's Foot: A Case Report. *JBJS Case Connect*. 6;13(2). doi: 10.2106/JBJS.CC.22.00772.
31. Mehta S, Zheng E, Heyworth B, Rizzone K, Halsted M, Brown N, Stinson Z, Nussbaum ED, Gray A, Segovia N, Kraus E. Tarsal navicular bone stress injuries: a multicenter case series investigating clinical presentation, diagnostic approach, treatment, and return to sport in adolescent athletes. *Am J Sports Med*. doi: 10.1177/03635465231170399.
32. Garcia M, Heiderscheit B, Kraus E, Norte GE, Murray AM, Bazett-Jones DM. Preferred temporal-spatial parameters, physical maturation, and sex are related to vertical and braking forces in adolescents long-distance runners. *Sports Biomech*. doi: 10.1080/14763141.2023.2218325
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54. Zbyn S, Ludwig K, Watkins LE, Lagore RL, Nowacki A, Toth F, Shea KG, Nagel AM, Ellermann JM. Changes in tissue sodium concentration and sodium relaxation times during the maturation of human knee cartilage: Ex vivo Na MRI study at 10.5 T. *Mag Reson Med.* doi: 10.1002/mrm.29930.
55. Stavinoha T, Shea KG (December 2023). Physseal sparing approaches for MPFL reconstruction. *Curr Rev Musculoskelet Med.* doi: 10.1007/s12178-023-09864-w.

2023 National and Regional Abstract Presentations (56 Total)

1. M Sanchez, Anshal Gupta, Hunter Storaci, Calvin Chan, Matt Rohde, Seth Sherman, Henry Ellis, Marc Tompkins, Phil Wilson, Dan Green, Ted Ganley, Kevin Shea. (February 2023) Mechanical Properties of Pediatric Knee Ligaments and the Iliotibial Band. Poster presentation at the 10th annual meeting of PRiSM. Denver, CO.
2. Abby McIntyre, Naomi Brown, Nicole Segovia, Mark Halstead, Eric Nussbaum, Danielle Magrini, Katherine Rizzone, Emily Kraus. (February 2023) A descriptive multi-center analysis of adolescent femoral neck bone stress injuries. Podium presentation at the 10th annual meeting of PRiSM. Denver, CO.

3. Anshal Gupta, Mark Sanchez, Hunter W. Storaci, Matthew S. Rohde, Kevin G. Shea, Seth L. Sherman. (February 2023) Biomechanical Forces of the Pediatric Knee Joint Following Complete Meniscectomy and Subsequent Meniscal Transplant. Podium presentation at the 10th annual meeting of PRiSM. Denver, CO.
4. Mark Sanchez, Anshal Gupta, Hunter Storaci, Matt Rohde, Seth Sherman, Henry Ellis, Marc Tompkins, Phil Wilson, Dan Green, Ted Ganley, Kevin Shea. (February 2023) Patellar Bone-Tendon-Periosteum Grafts - A Physseal Sparing Alternative ACL Graft Choice for the Skeletally Immature. Poster presentation at the 10th annual meeting of PRiSM. Denver, CO.
5. Katherine G. Hastings, Derek F. Amanatullah, Michael Gardner, Steven Frick, Kevin Shea. (February 2023) Remote Summer Program to Improve Diversity, Equity, and Inclusion in Primary Care Sports and Orthopaedic Surgery: A Pilot Study. Poster presentation at the 10th annual meeting of PRiSM. Denver, CO.
6. Anshal Gupta, Mark Sanchez, Hunter W. Storaci, Matthew S. Rohde, Seth L. Sherman, Kevin G. Shea. (February 2023) Lateral Knee Compartment Biomechanical Forces Following Posterior Root Tear and Transosseous Suture Repair in Pediatric Cadavers. Poster presentation at the 10th annual meeting of PRiSM. Denver, CO.
7. Kirsten Norrell, Matt Rohde, Nicole Segovia, Sal Ayala, Shital Parikh, Marc Tompkins, Ted Ganley, Henry Ellis, Kevin Shea. (February 2023) Sex Differences in Patellar Anatomy and Development. Poster presentation at the 10th annual meeting of PRiSM. Denver, CO.
8. Anshal Gupta, Mark Sanchez, Hunter W. Storaci, Matthew S. Rohde, Kevin G. Shea, Seth L. Sherman. (February 2023) Biomechanical Forces of the Lateral Knee Joint Following Complete Meniscectomy and Subsequent Meniscal Transplant in Pediatric Cadavers. Poster presentation at the 10th annual meeting of PRiSM. Denver, CO.
9. Stockton Troyer, Eric Strauss, Audrey Rustad, Ted Ganley, Kevin Shea. (February 2023) Meniscus Root Anatomy: Implications for Root Repair and Meniscus Allograft Transplantation in the Skeletally Immature. Poster presentation at the 10th annual meeting of PRiSM. Denver, CO.
10. Jonathan Joyner, Keinan Agonias, Kevin Shea, Matthew Rohde, Molly Meadows, Benton Heyworth, Matthew Milewski, Eric Edmonds, Philip Wilson, Elizabeth Adsit, Gregory Knell, Riley Brayton. (February 2023) Repair of Radial Meniscus Tears in Pediatric Patients: Results from a 16-Institution Multicenter Quality Improvement Registry. Podium presentation at the 10th annual meeting of PRiSM. Denver, CO.
11. Anshal Gupta, James Lee, Amanda Chawla, Vignesh Rajagopalan, Michael Kohler, Brandon Moelling, Kelly H. McFarlane, Kunj R. Sheth, John K. Ratliff, Serena S. Hu, James K. Wall, Kevin G. Shea. (February 2023) A Stepwise Replicable Approach to Negotiating Value-Driven Supply Chain Contracts for Orthobiologics. Poster

presentation at the 10th annual meeting of PRiSM. Denver, CO.

12. Mark Sanchez, Anshal Gupta, Hunter Storaci, Matt Rohde, Seth Sherman, Henry Ellis, Marc Tompkins, Phil Wilson, Dan Green, Ted Ganley, Kevin Shea. (February 2023) Bone-Patellar Tendon-Periosteum Grafts - an Alternative ACL Graft Choice for the Skeletally Immature?. Poster presentation at the 10th annual meeting of PRiSM. Denver, CO.
13. Andrew T. Fithian, Ann E. Richey, Seth L. Sherman, Kevin Shea, Stephanie Y. Pun. (February 2023) Hip Dysplasia is Associated with Patellofemoral Joint Dysplasia. Podium presentation at the 10th annual meeting of PRiSM. Denver, CO.
14. Nicholas Thomas, Matthew Rohde, Nicole Segovia, Kevin Shea. (February 2023) Readability of Online Patient Education Materials for Pediatric ACL Tears: Concerns for Health Literacy and Outcomes. Podium presentation at the 10th annual meeting of PRiSM. Denver, CO.
15. Sofia Hidalgo Perea, Kenneth M. Lin, Tyler J. Uppstrom, Lionel E. Lazaro, Stephen Doty, Craig E. Klinger, Scott A. Rodeo, Kevin G. Shea, Daniel W. Green. (February 2023) The Ultrastructure of the Developing Human Anterior Cruciate Ligament: A Preliminary Analysis using Scanning Electron Microscopy. Poster presentation at the 10th annual meeting of PRiSM. Denver, CO.
16. Mark Sanchez, Anshal Gupta, Hunter Storaci, Matt Rohde, Seth Sherman, Henry Ellis, Marc Tompkins, Phil Wilson, Dan Green, Ted Ganley, Kevin Shea. (February 2023) Mechanical Properties of Pediatric ACL, PCL, and the Quadriceps Tendon Grafts. Poster presentation at the 10th annual meeting of PRiSM. Denver, CO.
17. Anshal Gupta, Mark Sanchez, Hunter W. Storaci, Matthew S. Rohde, Seth L. Sherman, Kevin G. Shea. (February 2023) Transosseous Suture Repair of Lateral Meniscus Posterior Root Tear in Pediatric Cadavers Improves Contact Area Biomechanics at High Degrees of Flexion. Podium presentation at the 10th annual meeting of PRiSM. Denver, CO.
18. Keinan Agonias, Kevin Shea, Jonathan Joyner, Matthew Stephen Rohde, Henry B. Ellis, Molly C. Meadows, Benton Heyworth, Matt Milewski, Eric Edmonds, Philip Wilson, Elizabeth Adsit, Greg Knell, Riley Brayton, SCORE Study Group. (February 2023) Pediatric Meniscus Repair: Safety Profile Based on > 2000 Arthroscopic Meniscus Repairs. Podium presentation at the 10th annual meeting of PRiSM. Denver, CO.
19. Taylor R Johnson MD, Eli M. Cahan BBA, Nicole A. Segovia BS, Japsimran Kaur BS, Charles M. Chan MD, Nadine Javier BS, Xochitl Bryson BA, John S. Vorhies. (March 2023) Incidence and risk factors for opioid use disorder after spinal fusion for idiopathic scoliosis. Oral presentation at the 2023 Annual EPOS meeting. Kraków, Poland.

20. Yousi A. Oquendo, MD, Xochitl Bryson, Joanna L. Langner, Taylor Harris, Christopher Jin, Nadine M. Javier, Ann Richey, Malcolm DeBaun, Anthony Catanzano, Michael J. Gardner, John S. Vorhies. (March 2023) Mobile device based surface topography is a better predictor of spinal deformity than scoliometer. Poster presentation at the 2023 Annual IMAST meeting. Dublin, Ireland.
21. Xochitl Bryson, Nicole Segovia, Lawrence Rinsky, John Vorhies. (March 2023) 3D CT modeling demonstrates the anatomic feasibility of S1AI screw Trajectory for Spinopelvic Fixation in Neuromuscular Scoliosis. Poster presentation at the 2023 Annual IMAST meeting. Dublin, Ireland.
22. Kevin Shea, Carl Nissen, Matthew Milewski, Marc Tompkins, Thomas Johnstone. (April 2023) Which Osteochondritis Dissecans Subjects Will Heal Non-Operatively? An Application of Machine Learning Methods to the ROCK Cohort. Podium presentation at the 2023 Annual POSNA Meeting. Nashville, TN.
23. Jonathan Joyner, Henry Ellis, Keinan Agonias, Kevin Shea, Matthew Rohde, Molly Meadows, Benton Heyworth, Matthew Milewski, Eric Edmonds, Philip Wilson, Elizabeth Adsit, Gregory Knell, Riley Brayton. (April 2023) Repair of Radial Meniscus Tears in Pediatric Patients: Results from a 16-Institution Multicenter Quality Improvement Registry. Podium presentation at the 2023 Annual POSNA Meeting. Nashville, TN.
24. Yousi A. Oquendo, Xochitl Bryson, Taylor Harris, Joanna L. Langner, Nadine M. Javier, Ann Richey, Kali Tileston, Michael J. Gardner, John S. Vorhies. (April 2023) Mobile device based surface topography is a better predictor of spinal deformity than scoliometer. Podium presentation at the 2023 Annual POSNA Meeting. Nashville, TN.
25. Christian Klemt, Stephanie Kha, Hiba Naz, Stephanie Pun. (April 2023) The Effect of Femoral Deformity on Hip Contact Mechanics in Patients with Hip Dysplasia: A Finite Element Analysis Study. Poster presentation at the 2023 Annual POSNA Meeting. Nashville, TN.
26. Taylor R Johnson, Eli M. Cahan, Nicole A. Segovia, Japsimran Kaur, Charles M. Chan, Nadine Javier, Xochitl Bryson, John S. Vorhies. (April 2023) Incidence and risk factors for opioid use disorder after spinal fusion for idiopathic scoliosis. Oral presentation at the 2023 Annual EPOS Meeting. Krakow, Poland.
27. Abby McIntyre, Megan Roche, Emily Kraus. (June 2023) The Female Athlete Science and Translational Research (FASTR) Pilot Study. Podium presentation at the 2023 Annual FAC Meeting. Boston, MA.
28. Julie McCleery, Ellie Diamond, Rory Kelly, Kate Ackerman, Will Adams, Jack Longxi Li, Emily Kraus. (June 2023) Developing a Sports Science Research Agenda Informed by Elite Female Athletes. Main stage presentation at the 2023 Annual FAC Meeting. Boston,

MA.

29. Abby McIntyre, Megan Roche, Carolyn Oliver, Tatum Boyd, Emily Kraus. (June 2023) A Novel Approach To Female Athlete Sports Science Education. Poster presentation at the 2023 Annual ACSM Meeting. Denver, CO.
30. Julie McCleery, Ellie Diamond, Rory Kelly, Kate Ackerman, Will Adams, Jack Longxi Li, Emily Kraus. (June 2023) Developing a Sports Science Research Agenda Informed by Elite Female Athletes. Poster presentation at the 2023 Annual ACSM Meeting. Denver, CO.
31. Willemijn van Deursen, Thomas Johnstone, Annelisse Cuellar-Montes, Wills Baird, Calvin Chan, Matt Rohde, Marc Tompkins, Henry Ellis, Ted Ganley, Yi-Meng Yen, Marc Levenston, Seth Sherman, Kevin Shea. (July 2023) Pediatric Menisco-Tibial Ligament Complex Anatomy and Biomechanics –Implications for Meniscus Repairs. Poster presentation at the 2023 Annual AOSSM Meeting. Washington, DC.
32. Wills Baird, Thomas Johnstone, Annelisse Cuellar-Montes, Willemijn van Deursen, Calvin Chan, Marc Tompkins, Henry Ellis, Ted Ganley, Yi-Meng Yen, Marc Levenston, Seth Sherman, Kevin Shea. (July 2023) Biomechanical Comparison of Four All-inside Repairs to Radial Tears of Human Cadaveric Lateral Meniscus. Poster presentation at the 2023 Annual AOSSM Meeting. Washington, DC.
33. Kevin Shea, Carl Nissen, Matthew Milewski, Marc Tompkins, Thomas Johnstone. (July 2023) Which Osteochondritis Dissecans Subjects Will Heal Non-Operatively? An Application of Machine Learning Methods to the ROCK Cohort. Podium presentation at the 2023 Annual AOSSM Meeting. Washington, DC.
34. Miller, Ryan Coene MS, Marc Tompkins MD, ROCK Study Group, Gregory Myer, Mathew Milewski MD. (July 2023) A Predictive Model for Mobile vs. Immobile Osteochondritis Dissecans Lesions of the Knee. Podium presentation at the 2023 Annual AOSSM Meeting. Washington, DC.
35. Kali Tileston, Hiba Naz, Xochitl Bryson, Meghan Imrie, James Policy, Lawrence Rinsky, John Vorhies. (August 2023) Postoperative Mobility following Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis. Rapid Fire presentation at the 87th Annual WOA Meeting. Coeur d'Alene, ID.
36. Christian Klemm, Stephanie Kha, Jayme Koltsov, Hiba Naz, Stephanie Pun. (August 2023) Femoral Deformity Alters Hip Contact Mechanics in Dysplastic Hips. Rapid Fire presentation at the 87th Annual WOA Meeting. Coeur d'Alene, ID.
37. Shane Forsting, Taylor Johnson, Hiba Naz, Nicole Segovia, Stephanie Pun. (August 2023) Health Disparities are Associated with Worse Hip Preservation Surgery. Rapid Fire presentation at the 87th Annual WOA Meeting. Coeur d'Alene, ID.

38. Xochitl M Bryson, Nicole S Pham, Lawrence A Rinsky, Kali Tileston, John S Vorhies. (August 2023) CT Modeling Demonstrates Feasibility of S1AI Screw Trajectory for Spinopelvic Fixation. Rapid Fire presentation at the 87th Annual WOA Meeting. Coeur d'Alene, ID.
39. Jack Michaud, Christopher A Jin, Josey A Oquendo, Xochitl M Bryson, Michael J Gardner, Kali Tileston, John S Vorhies. (August 2023) Asymmetry Index from Mobile Device 3D Scanning Detects Idiopathic Scoliosis. Rapid Fire presentation at the 87th Annual WOA Meeting. Coeur d'Alene, ID.
40. Yousi A. Oquendo, Xochitl Bryson, Taylor Harris, Joanna L. Langner, Nadine M. Javier, Ann Richey, Kali Tileston, Michael J. Gardner, John S. Vorhies. (September 2023) Mobile device based surface topography is a better predictor of spinal deformity than scoliometer. ePoint presentation at the 2023 Annual SRS Meeting. Seattle, WA.
41. Jack Michaud, Christopher A Jin, Josey A Oquendo, Xochitl M Bryson, Michael J Gardner, Kali Tileston, John S Vorhies. (September 2023) Asymmetry Index from Mobile Device 3D Scanning Detects Idiopathic Scoliosis. Podium presentation at the 2023 Annual SRS Meeting. Seattle, WA.
42. Vanessa Taylor, Hiba Naz, Taylor Johnson, Saima Farook, Grady Hofmann, Kathryn Harbacheck, Karen Chao, Stephanie Smith, Kevin Shea. (September 2023) Retrospective Study of Avascular Necrosis Among Children and Adolescents with Leukemia. Poster presentation at the 2nd Annual Cancer Center Survivorship Research Forum. Palo Alto, CA.
43. Taylor Johnson, Hiba Naz, Vanessa Taylor, Saima Farook, Grady Hofmann, Kathryn Harbacheck, Nicole Pham, Stephanie Smith, Kevin Shea. (September 2023) Incidence and Risk Factors for Steroid Associated Avascular Necrosis in Children and Adolescents: A Systematic Review of the Literature. Poster presentation at the 2nd Annual Cancer Center Survivorship Research Forum. Palo Alto, CA.
44. Maïke van Niekerk, Kathryn Harbacheck, Chiamaka Obilo, Eric Klein, Timothy Liu, Amy Weisman, April Johnson, Sophia Magaña, Karthik Balakrishnan, Keith Cook, Kevin Shea. (October 2023) "Therapy Deserts": A Call to Action to Address Inequitable Access to Therapy Services Among Pediatric Patients. Poster presentation at the 2023 Annual Stanford MCHRI Symposium. Palo Alto, CA.
45. Bryan Khoo, Anthony Gatti, Marissa Lee, Christian Wright, Amin Alayleh, Seth Sherman, Akshay Chaudhari, Kevin Shea. (October 2023) Understanding the Developmental Interplay Between the Trochlea and Pylorus Using Machine Learning and Statistical Shape Models. Poster presentation at the 2023 Annual Stanford MCHRI Symposium. Palo Alto, CA.
46. Thomas Johnstone, Ian Hollyer, Kelly McFarlane, Amin Alayeh, Marc Tompkins, Ted Ganley, Beng Yi-Meng Yen, Henry Ellis, Calvin Chan, Dan Green, Seth Sherman, Kevin

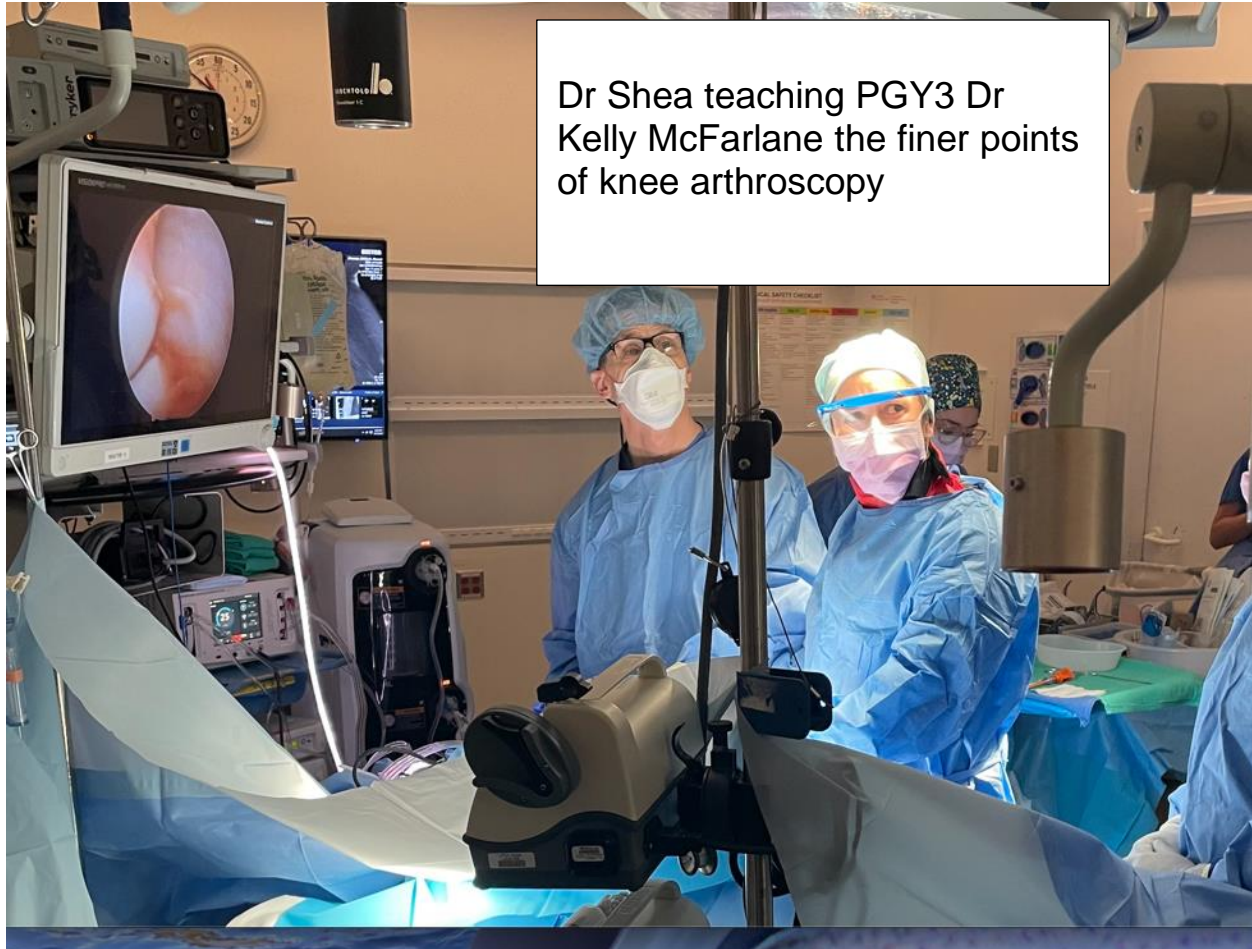
- Shea. (October 2023) Enhancing Tibial Spine Fracture Repair: Suture Plus Diaphyseal Suture Anchors Biomechanically Outperform Sutures and Screws in Pediatric Cadaveric Knees. Poster presentation at the 2023 Annual Stanford MCHRI Symposium. Palo Alto, CA.
47. Ian Hollyer, Kelly McFarlane, Thomas Johnstone, Amin Alayeh, Willemijn vanDeursen, Annelisse Cuellar-Montes, Wills Baird, Calvin Chan, Marc Tompkins, Henry Ellis, Ted Ganley, Yi-Meng Yen, Seth Sherman, Kevin Shea. (October 2023) Suture Anchor Fixation of the Posterior Menisco-Tibial Ligament Complex in the Lateral Meniscus Provides Similar Biomechanical Strength Compared to Native Tissue. Poster presentation at the 2023 Annual Stanford MCHRI Symposium. Palo Alto, CA.
48. Chiamaka Obilo, Amin Alayleh, Charles M. Chan, Kevin Shea. (October 2023) Evaluation of Radius of Curvature of the Humeral Capitellum in Young Athlete Osteochondritis Dissecans Lesion Sites. Poster presentation at the 2023 Annual Stanford MCHRI Symposium. Palo Alto, CA.
49. Hubert Tuyishime, Rebecca Claire, Karthik Balakrishnan, Heidi Chan, Linda Lam, Matt Randolph, Jean Stroud, Kevin Traber1, Kevin Shea. (October 2023) Impact of a Daily Huddle on Safety in Perioperative Services. Poster presentation at the 2023 Annual Stanford MCHRI Symposium. Palo Alto, CA.
50. Marleni Albarran, Xochitl Bryson, Nadine Horneck, Lea Dimling, Vivian Ho, Julie Good, Christina Almgren, Amand Ahollander, Lesley Jones, Mahyar Jahanbakhsh, Stephanie Pan, Sam Rodriguez, Lauren Destino, Sunniya Khanum Basravi, Mohammed Esfahanian, Lawrence Rinsky, Meghan Nemeth Imrie, Kali Tileston, James Policy, John Schoeneman Vorhies. (October 2023) A Multidisciplinary Approach for Enhanced recovery after Pediatric Posterior Spinal Fusion (PSF) for Adolescent Idiopathic Scoliosis (AIS). Poster presentation at the 2023 Annual Stanford MCHRI Symposium. Palo Alto, CA.
51. Kali R. Tileston, Hiba Naz, Xochitl Bryson, Nicole Pham, James F. Policy, John S. Vorhies. (October 2023) Postoperative Mobility following Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis. Poster presentation at the 2023 Annual Stanford MCHRI Symposium. Palo Alto, CA.
52. Yousi A. Oquendo, Xochitl Bryson, Taylor Harris, Joanna L. Langner, Nadine M. Javier, Ann Richey, Kali Tileston, Michael J. Gardner, John S. Vorhies. (October 2023) Mobile device based surface topography is a better predictor of spinal deformity than scoliometer. Podium presentation at the 2023 Annual NASS Meeting. Los Angeles, CA.
53. Kali R. Tileston, Hiba Naz, Xochitl Bryson, Nicole Pham, James F. Policy, John S. Vorhies. (October 2023) Postoperative Mobility following Posterior Spinal Fusion for Adolescent Idiopathic Scoliosis. ePoster presentation at the 2023 Annual NASS Meeting. Los Angeles, CA.

54. Christian Klemt, Stephanie Kha, Jayme Koltsov, Hiba Naz, Stephanie Pun. (October 2023) Femoral Deformity Alters Hip Contact Mechanics in Dysplastic Hips. Podium presentation at the 2023 Annual ISHA Meeting. Cape Town, South Africa.
55. Shane Forsting, Taylor Johnson, Hiba Naz, Nicole Segovia, Stephanie Pun. (October 2023) Health Disparities are Associated with Worse Hip Preservation Surgery. ePoster presentation at the 2023 Annual ISHA Meeting. Cape Town, South Africa.
56. Foreman C, Kha ST, Johnson T, Hollyer I, Klemt C, Vorhies JS. (December 2023) Ponte Osteotomy: Biomechanical Cadaveric Pilot Study of a risk minimizing approach. ePoster presentation at the 2023 Annual IPOS Meeting. Orlando, FL.

Education Activities

Resident Education and Fellowship Program

Our faculty remain committed to educating the next generation of surgeons, with two residents of the Stanford University program on the pediatric rotation at all times throughout the year, as well as consult residents covering the Stanford Pediatric Emergency Room. In addition to Wednesday morning department-wide conferences, residents participate in a Monday morning case presentation conference with the chief, and a journal club led by Dr. Young. Our entire division meets weekly for preoperative -postoperative conference reviews from 9:30 to 11:30 AM each Wednesday.





Current fellow Katie Krenek MD from University of Minnesota residency program, with PGY4 Ian Hollyer and Dr Vorhies cheerfully fixing a broken elbow. Dr. Hollyer will be going into pediatric orthopaedics.



Drs Krenek and Hollyer working together in OR, where our fellow gets an opportunity to develop teaching skills.

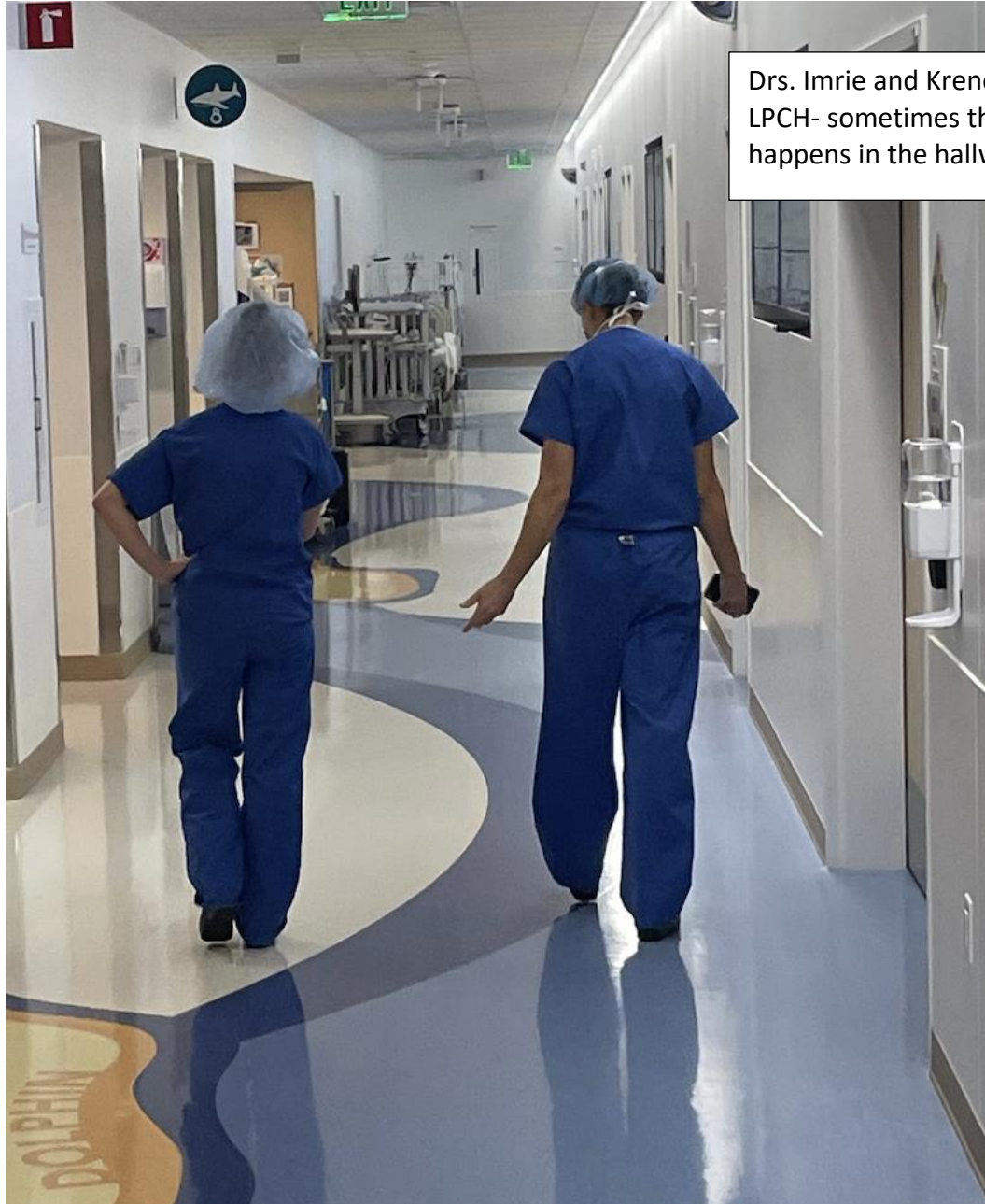


PGY4 Taylor Johnson MD, who also will be going into pediatric orthopaedics, gets back to her Texas roots at the IPOS Top Gun competition with POSNA Past President Jeff Sawyer.



Ian Hollyer and Taylor Johnson, two PGY4 residents who will be going into pediatric orthopaedics, getting some Ponseti method clubfoot casting practice

Dr. Megan Imrie continued in the role of **Fellowship Director** this academic year and is a national leader in pediatric orthopaedic education, chairing the fellowship committee for POSNA and this year named as an Associate Residency Program Director for our residency program.



Drs. Imrie and Krenak in between cases at LPCH- sometimes the most valuable teaching happens in the hallways between cases.

**Stanford Medicine Children's Healthcare
Pediatric Orthopaedic Surgery Clinical Instructors / Fellows**

Shane Forsting, DO from Columbus, OH completed the fellowship in July 2023, and moved a short distance away to Valley Children's Hospital in Modesto, CA. In August 2023 we welcomed as our 10th pediatric orthopaedic fellow, Katie Krenek Battles, MD from the University of Minnesota orthopaedic residency program. Katie grew up in Dallas TX.

Fellowship Graduates and practice locations:

- Kali Tileston, MD – Stanford University
- Eric Fuller, MD – Lurie Children's Hospital, Chicago, IL
- Michelle Sugi, MD – Private practice, Los Angeles, CA
- Sara Van Nortwick, MD – MUSC Children's Hospital, Charleston, SC
- Tyler Stavinoha, MD – Children's Hospital of San Antonio, TX
- Molly Meadows, MD- Stanford University, Pleasant Hill/Walnut Creek, CA
- Monte Squires, MD – Musculoskeletal Oncology Fellow, University of Utah
- Kirsten Norrell, MD – University of Florida, Gainesville, FL
- Shane Forsting, DO – Valley Children's Hospital, Modesto, CA



2022-23 fellow **Shane Forsting DO** with Dr. Imrie at his graduation celebration. He is ready to “captain the ship”.

Eugene Bleck Visiting Professorships- 2022 and 2023

We were fortunate to get back to our pre-pandemic academic tradition, and honor the career and leadership of Eugene Bleck, the first chief of pediatric orthopaedics at Stanford.

Eugene E. Bleck, M.D.



Physician
Surgeon
Investigator
Mentor
Teacher
Philosopher
Author
Friend

In May 2023, we hosted our 2022 Visiting professor Kishore Mulpuri from Vancouver, BC.



Eugene Bleck Visiting Professor

Kishore Mulpuri, MD



Head of the Department of Orthopaedics
University of British Columbia

Local to Global in Orthopaedics

Kishore Mulpuri, MBBS, MS (Ortho), MHSc (Epi), FRCSC

Professor & Chair
Department of Orthopaedics
University of British Columbia
Pediatric Orthopaedic Surgeon
Department of Orthopaedic Surgery
BC Children's Hospital
kishore.mulpuri@ubc.ca





Then in October 2023 we hosted Manoj Ramachandran from London, UK.



Eugene Bleck, M.D Visiting Professorship

Manoj Ramachandran, MD

Chief of Paediatric Orthopaedics
Director of Innovation
Barts Orthopaedics at the Royal London Hospital

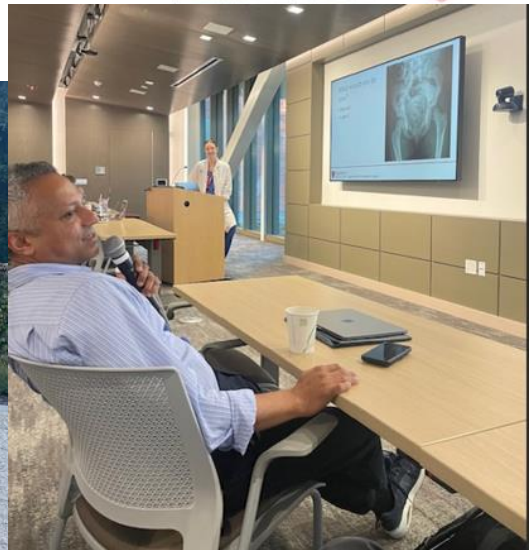


STANFORD
UNIVERSITY
Oct 18, 2023

Eugene E. Bleck, M.D.
Pediatric Orthopaedic Visiting Professorship

- 2008 Robert Hensinger
- 2009 John A Herring
- 2010 Abhin Crawford
- 2011 Michael B Millis
- 2012 Peter Newton
- 2013 David L. Skaggs
- 2014 Matthew Dobbs
- 2015 John Herzenberg
- 2016 Henry Chambers
- 2017 James McCarthy
- 2017 Michael Vitale
- 2018 Lori Karol
- 2019 Lawrence Rinsky, James Gamble
- 2022 Kishore Muluri

2023
Manoj Ramachandran





OUR VISION: alleviate pain and improve function in children and adolescents with musculoskeletal conditions

OUR MISSION: to provide every patient with world-class care

GOAL: be one of the best programs in the country

Expectations:

Commit to excellence.

Do your best today.

Be better tomorrow.

Always Behaviors:

1. Support the Team - **Engage**
2. Listen intently, actively to your colleagues – **Respect**
3. Explain yourself clearly – Start with “The Why” – **Clarity**
4. Assume positive intent from those around you –**Trust**
5. Align Capabilities, then Define Goals, Expectations, and Prioritize - **Focus**
6. Achieve Excellence with Follow-through – **Results**
7. Strive to get better, every day – **Learning**
8. Treat others well - **Kindness**

Stanford Medicine Children’s Orthopaedics and Sports Medicine

Vision aligns with the vision, mission and goals statements of:

1. Stanford Medicine Children’s Health Vision 2025- 1) **advancing academic and clinical excellence**, 2) **expanding our reach**, 3) **creating a value-based system**
2. Stanford Medicine Integrated Strategic Plan- 1) **Value Focused**, 2) **Digitally Driven**, 3) **Uniquely Stanford**
3. Lucile Packard Children’s Hospital Stanford - to nurture both the body and soul of every child with **family-centered care**.



Thanks to our dedicated team members for their commitment to “Access to Excellence”, providing outstanding orthopaedic care to children and adolescents from the Bay Area and beyond.





To close, a special thank you to the leadership team for our division- I could not do this job without your dedicated help. It is much appreciated! Onward and upward in 2024!