



DOWNSTATE ORTHOPAEDIC SURGERY



Orthopaedic Annual Research Report



LETTER FROM THE CHAIRMAN



To My Colleagues,

It is with great pride that I welcome everyone to our Annual Alumni Reception at the AAOS Annual Meeting. The SUNY Downstate Orthopaedic Surgery Residency Program family comprises over 200 graduates. This program remains the leading provider of musculoskeletal care in Brooklyn, a preeminent academic facility for orthopaedic education, and a center for cutting-edge musculoskeletal research.

Downstate Orthopaedics continues to grow as we are adding faculty, including in sports medicine. Recently, the program expanded to include rotations at New York City Health + Hospitals/Lincoln, a busy Level-1 trauma center located in the Bronx.

SUNY Downstate Orthopaedics is well-represented at this year's meeting including podium and poster presentations. I would personally like to take a moment to thank all of our Research Staff and Collaborators!

It is a pleasure to finally have the opportunity to meet again, in-person. The alumni leave a lasting legacy on the department, and we want to remain engaged with you as the department continues to grow. Please join me in congratulating the graduating chief residents, who have all matched into top-rated fellowships.

Thank you all for joining us again this year and welcome to the Alumni Reception.



William P. Urban, MD

*Associate Professor and Chairman
Department of Orthopaedic Surgery & Rehabilitation Medicine
Chief, Sports Medicine
SUNY Downstate Health Sciences University*

LETTER FROM THE PROGRAM DIRECTOR

To My Colleagues,



Welcome to the annual Downstate Orthopaedics Alumni Reception! The program continues to have a strong presence at AAOS with a growing body of research both in quality and quantity. Downstate Orthopaedics continues to work closely with the College of Medicine to educate and support medical students who are interested in Orthopaedic Surgery. This academic year alone, we have 90+ Downstate medical students, involved in research not including those from other medical schools and undergraduate universities.

Over the years, the residency curriculum has evolved to provide trainees a wide breadth of academic, clinical, and research experience. Our dedicated faculty remain available to mentor students and residents while guiding them in their decision-making process.

Our research productivity and successful fellowship match is a testament to the department's steadfast dedication to the success of our program and graduates. We aim to continue this trend and build on our foundation to advance Downstate Orthopaedics. This could not have been and possible without the continuous support of our Alumni Members, who are still involved in endorsing Downstate Orthopaedics and assisting our trainees in their future practice.

A stylized, handwritten signature in black ink, consisting of a large 'C' followed by several loops and a final flourish.

Carl B. Paulino, MD

*Program Director
Department of Orthopaedic Surgery & Rehabilitation Medicine
Chief, Spine Surgery
SUNY Downstate Health Sciences University*

MEDICAL STUDENT OUTREACH

Despite its competitiveness, orthopaedic surgery remains a popular specialty choice for residency training among medical students. SUNY Downstate Health Sciences University Department of Orthopaedic Surgery & Rehabilitation Medicine has a long history of providing students and resident physicians with opportunities to engage in research projects. With the goal of providing not only the best opportunities, but also the best training for students, we kicked off the year by providing a three-day intensive research tutorial presented by the research coordinator, David Mai, and class of 2027 resident physician (and prior tutorial attendee), Adam Wolfert. Introduced for the first time at the beginning of the Academic Year 2021-2022, the tutorial emphasizes best practices for the lifecycle of research projects, starting from idea conception through scholarly publication. Aside from the obvious goal of providing students with a strong foundation to engage in research, the tutorial also aims to help the future generation of leaders cultivate the skills to understand and appraise medical literature. In turn, these skills also help students review and enrich their knowledge of high-yield topics from the United States Medical Licensing Exams (USMLE). The tutorials were well-attended by students and College of Medicine faculty.



It is our mission to welcome students seeking to engage in research activities regardless of specialty interest. As a testament to this welcoming environment, the Department of Orthopaedic Surgery and Rehabilitation Medicine has established a partnership with the SUNY Downstate Health Sciences University School of Public Health to help students gain research experience for educational credit and to fulfill graduation requirements. In the inaugural year (2021-2022) of this partnership, our team mentored a student on their capstone research project, which supported their successful candidacy in earning a Master of Public Health degree.

Additionally, we enhanced our summer enrichment program for first-year medical students by building on the momentum of new initiatives introduced to the research space during the prior year. In particular, our students had new opportunities to gain invaluable clinical experience and networking opportunities by shadowing attending physicians and participating in didactic lectures about important topics in orthopaedic surgery. Additionally, students gained problem-solving skills in research methods through small group and one-on-one mentorship.



RESIDENTS DIDACTICS

The program core didactics is continuously revamped to help residents become equipped with the clinical knowledge and surgical experience required to become qualified orthopaedic surgeons. Conferences are held on a daily basis to ensure adequate exposure, planning, and criticism of cases. This approach is crucial for talent acquisition and accurate decision making.

Also, all residents are enrolled in the Orthobullets PASS program. This consists of daily study guides and emails, access to all questions and practice exams available on the Orthobullets website. The latter allows residency programs to track daily learning activity, both formally and informally, to ensure trainees are progressing appropriately.

Days	Lectures
Monday	Fracture Conference Kings County Hospital Core Academic Lecture Series; Orthopaedic In-Training Examination (OITE) preparation; Monthly Journal Club
Tuesday	Fracture Conference Kings County Hospital Fracture Indications Conference Kings County Hospital
Wednesday	Fracture Conference Kings County Hospital
Thursday	Case Presentation by Service Grand Rounds at Downstate
Friday	Fracture Conference

SAWBONES SKILLS LAB



SPECIAL THANKS TO :

Drs. Katherine Connors and Evan Horowitz for helping organize this year's academic curriculum and developing a newly designed academic curriculum

Dr. Neil Shah for helping organize Grand Rounds.

Dr. Stanley Gordon for organizing and leading the Journal of Bone and Joint Surgery Journal Club, where the latest advancement and current techniques are discussed.

Interested in coming back to give a Grand Rounds or Academic Lecture? - Email: nina.jalowayski@downstate.edu

CONGRATULATIONS TO THE CLASS OF 2023



Jaydev Mistry, MD
PGY 5



Jared Newman, MD
PGY 5



Dillon Sedaghatpour, MD
PGY 5



Bradley Wham, MD
PGY 5



Peter Zhou, MD
PGY 5



Daniel Zuchelli, MD
PGY 5

CLASS OF 2023 FELLOWSHIPS

Graduates	Fellowship	Institution
Jaydev Mistry, MD	Adult Reconstruction	Rubin Institute - Sinai Hospital
Jared Newman, MD	Trauma	University of Rochester
Dillon Sedaghatpour, MD	Sports Medicine	Northwell Lenox Hill
Bradley Wham, MD	Sports Medicine	Andrews Research and Education Foundation
Peter Zhou, MD	Spine	University of Pennsylvania
Daniel Zuchelli, MD	Sports Medicine	New England Baptist Hospital



MEET THE RISING CHIEFS: CLASS OF 2024



Katherine Connors, MD
PGY 4



Jennifer Etcheson, MD
PGY 4



Evan Horowitz, MD
PGY 4



Vidushan Nadarajah, MD
PGY 4



Neil Shah, MD
PGY 4



Nicholas Stekas, MD
PGY 4

POSTGRADUATES YEAR 3, 2, AND 1



Jon Berguson, MD
PGY 3



George Beyer, MD
PGY 3



Steven Burekhovich, MD
PGY 3



Joseph Ehirobo, MD
PGY 3



Scott Liu, MD
PGY 3



Eric Tischler, DO
PGY 3



Brody Dawkins, MD
PGY 2



Chibuokem Ikwuazom, MD
PGY 2



David Kim, MD
PGY 2



Declan Tozzi, MD
PGY 2



Eric Windsor, MD
PGY 2



Jack Zhou, MD
PGY 2



Nolan Condron, MD
PGY 1



Max Detweiler, MD
PGY 1



David Kim, MD
PGY 1



Peter Twining, MD
PGY 1



Ryne Veenema, MD
PGY 1



Adam Wolfert, MD
PGY 1

STANLEY GORDON RESIDENT FUND



The current structure of SUNY Downstate **Orthopaedic Surgery Department** was established in the early 1980's. At that time, Orthopaedic Surgery was removed from the Surgery Department and merged with the Department of Rehabilitation Medicine to form a new combined program. Shortly thereafter, a separate free-standing **Orthopaedic Program** at the Brookdale Hospital was folded into the new Department. Since that time, the residency program has graduated nearly **200+** orthopaedic residents who have left to pursue fellowship in all subspecialty areas and subsequently entered private or academic practice throughout the country. The Department has produced **three chairmen**, multiple fellowship directors, and multiple Vice Chairmen. The **research productivity** has **increased very substantially** as has the number and quality of the residency program applicants. The Department currently has a group that provides advanced expertise in *Hand and Microvascular Surgery* and an extensive *Sports Medicine* program. We continue to serve as Brooklyn's sole center for *Orthopaedic Oncology*,

treating primary and metastatic disease. Our *Adult Reconstruction* program specializes in primary, complex primary, and revision joint replacement, not to mention our *Shoulder and Elbow Surgery*, *Pediatric Orthopaedics*, and finally, our comprehensive *Spine* program, treating deformity and degenerative diseases of the spinal column. Faculty members now have a major presence in most of the teaching hospitals of Brooklyn and Staten Island, and the research, teaching, and service commitments continue to grow.

Founded in 1982 by Stanley L. Gordon, MD, as the only academic musculoskeletal group in Brooklyn, the SUNY Downstate Health Sciences University Department of Orthopaedic Surgery and Rehabilitation Medicine is the leading provider of musculoskeletal care in the borough, the preeminent academic facility for musculoskeletal education, and a center for cutting-edge musculoskeletal research.

Your support makes it possible for Downstate to host important networking activities including the annual reception at AAOS and the Downstate lecture, and to fund requests from the residents for needs such as travel grants to present papers at national conferences.



Class of 1994 - **From Left to Right:** Dr. Kevin Kunkle, Dr. Ron Chase, Dr. Susan Scherl, Dr. William Urban, Dr. Joseph Dryer, Dr. Howard Baum, and Dr. Robert Nu.

Please keep in touch!

Thank you for staying involved with and generously supporting the Downstate Orthopaedics Residency Program!

AWARDS

New York State Society of Orthopaedic Surgeons Annual Meeting and Symposium:
2nd Place Podium

New York Society for Surgery of the Hand:
2nd Place Poster

SUNY Downstate Health Sciences University Annual Research Colloquium:
2nd Place Poster

Medical Student Orthopaedic Society:
2nd Place Poster

JBJS Robert Bucholz Resident Journal Club Grant Program:
Recipient

Graduation with Distinction in Research:
2 Students

Robert F. Furchgott Medical Student Award:
2nd Place

Alpha Omega Alpha Honor Society:
Faculty (1) and Resident (1)



NATIONAL AND INTERNATIONAL CONFERENCES



AAOS 2023 ANNUAL MEETING

Tuesday, March 7 - Paper I

Spine I Papers

Impact of Iron Deficiency Anemia on Postoperative Outcomes of Thoracolumbar Spinal Fusion (>2-level) on Patients with Adult Spinal Deformity with Minimum 2-Year Follow-Up Surveillance

3539 - Spine: Tuesday, March 7, 1:30 PM - 3:00 PM

Individual Presentation Time: 1:30 PM - 1:35 PM

Paper Number: 029

Tuesday, March 7 - Posters I

Adult Reconstruction Knee Poster Session 1

Impact of Chronic Kidney Disease on Postoperative Outcomes Among Total Knee Arthroplasty Patients

4321 - Adult Reconstruction Knee Poster Session 1

Tuesday, March 7, 7:00 AM - 5:00 PM, **P0083**

Adult Reconstruction Knee Poster Session 1

Effect of Ventricular Septal Defect on Postoperative Outcomes of Total Knee Arthroplasty Patients

4294 - Tuesday, March 7, 7:00 AM - 5:00 PM, **P0119**

Adult Reconstruction Knee Poster Session 1

Impact of Congestive Heart Failure on Postoperative Outcomes of Primary Total Knee Arthroplasty: A NSQIP Analysis between 2008 and 2016

4666 - Tuesday, March 7, 7:00 AM - 5:00 PM, **P0122**

Adult Reconstruction Knee Poster Session 1

The Impact of Pancreatitis on Postoperative Outcomes in Total Knee Arthroplasty with Minimum Two-Year Surveillance

4686 - Tuesday, March 7, 7:00 AM - 5:00 PM, **P0089**

Adult Reconstruction Knee Poster Session 1

The Impact of Acquired Immunodeficiency Syndrome (AIDS) on Outcomes and Complications Following Total Hip Arthroplasty: A Propensity Score-Match Analysis

4346 - Tuesday, March 7, 7:00 AM - 5:00 PM, **P0090**

Adult Reconstruction Knee Poster Session 1

The Impact of Thyrotoxicosis on Outcomes and Complications Following Total Knee Arthroplasty with Minimum 2-Year Surveillance

4703 - Tuesday, March 7, 7:00 AM - 5:00 PM, **P0093**

Musculoskeletal Oncology Poster Session 1

Single-stage versus Multi-stage Intramedullary Nailing for Multiple Synchronous Long Bone Impending and Pathologic Fractures in Metastatic Bone Disease and Multiple Myeloma

9879 - Tuesday, March 7, 7:00 AM - 5:00 PM, **P0187**

Practice Management/Rehabilitation Poster Session 1

Evaluating the Safety Profile and Outcomes of Antibiotic-Loaded Synthetic Calcium Sulfate Beads: A Level 1 Trauma Center Hospital Experience

3647 - Tuesday, March 7, 7:00 AM - 5:00 PM, **P0252**

Practice Management/Rehabilitation Poster Session 1

Rates of Future Osteonecrosis are Higher among HIV+ Patients Treated with HAART Therapy

4998 - Tuesday, March 7, 7:00 AM - 5:00 PM, **P0253**

Practice Management/Rehabilitation Poster Session 1

The Learning Curve of Robotic-Arm Assisted Total Joint Arthroplasties: A Systematic Review

4376 - Tuesday, March 7, 7:00 AM - 5:00 PM, **P0258**

Practice Management/Rehabilitation Poster Session 1

Impact of Smoking on Postoperative Outcomes of Syndesmotic Fixations: An ACS NSQIP Analysis 2008-2016

3885 - Tuesday, March 7, 7:00 AM - 5:00 PM, **P0260**

Spine Poster Session 1

Evaluating the Impact of Multiple Sclerosis on 2-Year Postoperative Outcomes Following Long Fusion for Adult Spinal Deformity: A Propensity Score-Matched Analysis

9775 - Tuesday, March 7, 7:00 AM - 5:00 PM, **P0334**

Spine Poster Session 1

Not Only Biased by Mental State: What Patients Tell Us Via PROMs Only Represent Up to 33% of Their Functional Status

7120 - Tuesday, March 7, 7:00 AM - 5:00 PM, **P0340**

Spine Poster Session 1

Effects of Having Acquired Immunodeficiency Syndrome on Post-Operative Outcomes of Adult Laminectomy Patients

9573 - Tuesday, March 7, 7:00 AM - 5:00 PM, **P0384**

Wednesday, March 8 - Paper II

Adult Reconstruction Hip II Papers

Comparison of Anesthetic Types in the Setting of Total Hip Arthroplasty: A NSQIP Analysis between 2008 and 2016

4646 - Wednesday, March 8, 1:35 PM - 1:40 PM, **130**

Thursday, March 9 - Posters II

Adult Reconstruction Hip Poster Session 2

The Impact of Congestive Heart Failure on Outcomes and Complications Following Total Hip Arthroplasty With Minimum 2-Year Surveillance

5107 - Thursday, March 9, 7:00 AM - 5:00 PM, **P0517**

Adult Reconstruction Hip Poster Session 2

The Impact of Visual Disturbance on Total Hip Arthroplasty Outcomes and Postoperative Fractures

5001 - Thursday, March 9, 7:00 AM - 5:00 PM **P0566**

PEER-REVIEWED PUBLICATIONS (2022-2023)

Thursday, March 9 - Posters II

Adult Reconstruction Hip Poster Session 2

The Impact of Pancreatitis on Postoperative Outcomes in Total Hip Arthroplasty with Minimum Two-Year Surveillance

4664 - March 9, 7:00 AM - 5:00 PM P0512

Adult Reconstruction Knee Poster Session 2

Type 2 Diabetic Patients with Neuropathy Face Increased Risk of Adverse Complications after Total Knee Arthroplasty

9930 - Thursday, March 9, 7:00 AM - 5:00 PM P0590

Adult Reconstruction Knee Poster Session 2

Assessing the Five-Year Baseline Prevalence of Metabolic Bone Diseases in the Total Knee Arthroplasty Patient Population

5006 - Thursday, March 9 7:00 AM - 5:00 PM P0573

Sports Medicine Poster Session 2

Application Title: The Impact of Medical Comorbidities on the Development of Complications after Hip Arthroscopy

6764 - Thursday, March 9, 7:00 AM - 5:00 PM P0906

Sports Medicine Poster Session 2

The 5-Factor Modified Frailty Index (mFI-5) Predicts Adverse Outcomes After Arthroscopic Meniscectomy

6607 - Thursday, March 9, 7:00 AM - 5:00 PM P0934

Trauma Poster Session 2

Regional Versus General Anesthesia in Intertrochanteric Fracture Surgeries: An ACS-NSQIP 2008-2016 Study

4288 - Thursday, March 9, 7:00 AM - 5:00 PM P0984

Trauma Poster Session 2

General Anesthesia Versus Spinal Anesthesia in Intertrochanteric Femur Fracture Treatments: An ACS NSQIP Analysis 2008-2016

7305 - Thursday, March 9, 7:00 AM - 5:00 PM P0967

Thursday, March 9 - Paper III

Adult Reconstruction Knee IV Papers

Comparison of Anesthetic Types in the Setting of Total Knee Arthroplasty: A NSQIP Analysis between 2008 and 2016

4677 - Thursday, March 9, 11:05 AM - 11:10 AM, 267

Hand and Wrist III Papers

The Impact of Osteoporosis on Outcomes After Open Reduction Internal Fixation for Distal Radius Fractures

2570 - Thursday, March 9, 1:55 PM - 2:00 PM, 347

Friday, March 10 - Paper IV

Adult Reconstruction Hip VI Papers

Impact of Congestive Heart Failure on Postoperative Outcomes of Primary Total Hip Arthroplasty: A NSQIP Analysis between 2008 and 2016

4660 - Friday, March 10, 2:00 PM - 2:05 PM, 425

Manuscripts 2022 - 2023

Vakharia RM, Ehiorobo JO, Sodhi N, Mannino A, Mont MA, Roche MW. **Reasons and Risk Factors for Emergency Department Visits After Primary Total Knee Arthroplasty: An Analysis of 1.3 Million Patients.** J Arthroplasty. 2021 Jul;36(7):2313-2318.e2. doi: 10.1016/j.arth.2021.02.077. Epub 2021 Mar 5. PMID: 33745799.

Morrissey PJ, Scheer RC, Shah NV, Penny GS, Avoricani A, Koehler SM. **Increases in Firework-Related Upper Extremity Injuries Correspond to Increasing Firework Sales: An Analysis of 41,195 Injuries Across 10 Years.** J Am Acad Orthop Surg. 2021 Jul 1;29(13):e667-e674. doi: 10.5435/JAAOS-D-20-00201. PMID: 34135296.

DarQA, AvoricaniA, RompalaA, LevyKH, ShahNV, Choueka D, White CM, Koehler SM. **WALANT Hand Surgery Does Not Require Postoperative Opioid Pain Management.** Plast Reconstr Surg. 2021 Jul 1;148(1):121-130. doi: 10.1097/PRS.00000000000008053. PMID: 34181608.

Huddleston HP, Kurtzman JS, Levy KH, Connors KM, Hayes WT, Koehler SM. **Radiocarpal Contact Pressures Are Not Altered after Scapholunate Ligament Tears.** J Wrist Surg. 2021 Jul 14;11(3):250-256. doi: 10.1055/s-0041-1731817. PMID: 35845237; PMCID: PMC9276067.

Pierce KE, Naessig S, Kummer N, Larsen K, Ahmad W, Passfall L, Krol O, Bortz C, Alas H, Brown A, Diebo B, Schoenfeld A, Raad M, Gerling M, Vira S, Passias PG. **The Five-item Modified Frailty Index is Predictive of 30-day Postoperative Complications in Patients Undergoing Spine Surgery.** Spine (Phila Pa 1976). 2021 Jul 15;46(14):939-943. doi: 10.1097/BRS.00000000000003936. PMID: 34160372.

Pierce KE, Kapadia BH, Bortz C, Alas H, Brown AE, Diebo BG, Raman T, Jain D, Lebovic J, Passias PG. **Frailty Severity Impacts Development of Hospital-acquired Conditions in Patients Undergoing Corrective Surgery for Adult Spinal Deformity.** Clin Spine Surg. 2021 Aug 1;34(7):E377-E381. doi: 10.1097/BSD.0000000000001219. PMID: 34121072.

Bortz C, Dinizo M, Kummer N, Brown A, Alas H, Pierce KE, Janjua MB, Park P, Wang C, Jankowski P, Hockley A, Soroceanu A, De la Garza Ramos R, Sciubba DM, Frempong-Boadu A, Vasquez-Montes D, Diebo BG, Gerling MC, Passias PG. **Same Day Surgical Intervention Dramatically Minimizes Complication Occurrence and Optimizes Perioperative Outcomes for Central Cord Syndrome.** Clin Spine Surg. 2021 Oct 1;34(8):308-311. doi: 10.1097/BSD.0000000000001234. PMID: 34292197.

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Hollern DA, Shah NV, Moattari CR, Lavian JD, Akil S, Beyer GA, Najjar S, Desai R, Zuchelli DM, Schroeder GD, Passias PG, Hilibrand AS, Vaccaro AR, Schwab FJ, Lafage V, Paulino CB, Diebo BG. **Outcomes of Patients With Parkinson Disease Undergoing Cervical Spine Surgery for Radiculopathy and Myelopathy With Minimum 2-Year Follow-up.** Clin Spine Surg. 2021 Oct 1;34(8):E432-E438. doi: 10.1097/BSD.0000000000001233. PMID: 34292198.

Passias PG, Bortz C, Pierce KE, Kummer NA, Lafage R, Diebo BG, Line BG, Lafage V, Burton DC, Klineberg EO, Kim HJ, Daniels AH, Mundis GM, Protopsaltis TS, Eastlack RK, Sciubba DM, Bess S, Schwab FJ, Shaffrey CI, Smith JS, Ames CP; International Spine Study Group (ISSG). **Appropriate Risk Stratification and Accounting for Age-Adjusted Reciprocal Changes in the Thoracolumbar Spine Reduces the Incidence and Magnitude of Distal Junctional Kyphosis in Cervical Deformity Surgery.** Spine (Phila Pa 1976). 2021 Nov 1;46(21):1437-1447. doi: 10.1097/BRS.0000000000004033. PMID: 33710114.

Bortz C, Pierce KE, Brown A, Alas H, Passfall L, Krol O, Kummer NA, Wang E, O'Connell B, Wang C, Vasquez-Montes D, Diebo BG, Neuman BJ, Gerling MC, Passias PG. **Frequency and Implications of Concurrent Complications Following Adult Spinal Deformity Corrective Surgery.** Spine (Phila Pa 1976). 2021 Nov 1;46(21):E1155-E1160. doi: 10.1097/BRS.0000000000004064. PMID: 34618707.

Yoshihara H, Nadarajah V, Horowitz E. **Prevalence and characteristics of thoracic diffuse idiopathic skeletal hyperostosis in 3299 black patients.** Sci Rep. 2021 Nov 12;11(1):22181. doi: 10.1038/s41598-021-01092-x. PMID: 34772962; PMCID: PMC8590013.

Passias PG, Pierce KE, Passfall L, Adenwalla A, Naessig S, Ahmad W, Krol O, Kummer NA, O'Malley N, Maglaras C, O'Connell B, Vira S, Schwab FJ, Errico TJ, Diebo BG, Janjua B, Raman T, Buckland AJ, Lafage R, Protopsaltis T, Lafage V. **Not Frail and Elderly: How Invasive Can We Go in This Different Type of Adult Spinal Deformity Patient?** Spine (Phila Pa 1976). 2021 Nov 15;46(22):1559-1563. doi: 10.1097/BRS.0000000000004148. PMID: 34132235.

Dar QA, Avoricani A, Hayes WT, Levy KH, Wang H Jr, Koehler SM. **Biomechanical Comparison of 3 Thumb Ulnar Collateral Ligament Repair Methods.** J Hand Surg Am. 2023 Jan;48(1):89.e1-89.e9. doi: 10.1016/j.jhsa.2021.09.028. Epub 2021 Nov 22. PMID: 34823921.

Tsai SHL, Tai WC, Fu TS, Tischler EH, Rahman R, Lim YK, Yu YH, Su CY. **Does Surgical Repair Benefit Pipkin Type I Femoral Head Fractures?: A Systematic Review and Meta-Analysis.** Life (Basel). 2022 Jan 5;12(1):71. doi: 10.3390/life12010071. PMID: 35054465; PMCID: PMC8780341.

Passias PG, Naessig S, Kummer N, Passfall L, Lafage R, Lafage V, Line B, Diebo BG, Protopsaltis T, Kim HJ, Eastlack R, Soroceanu A, Klineberg EO, Hart RA, Burton D, Bess S, Schwab F, Shaffrey CI, Smith JS, Ames CP. **Predicting development of severe clinically relevant distal junctional kyphosis following adult cervical deformity surgery, with further distinction from mild asymptomatic episodes.** J Neurosurg Spine. 2021 Dec 17;1-8. doi: 10.3171/2021.8.SPINE21533. Epub ahead of print. PMID: 34920417.

Marder RS, Shah NV, Naziri Q, Maheshwari AV. **The impact of surgical trainee involvement in total knee arthroplasty: a systematic review of surgical efficacy, patient safety, and outcomes.** Eur J Orthop Surg Traumatol. 2023 Feb;33(2):255-298. doi: 10.1007/s00590-021-03179-7. Epub 2022 Jan 13. PMID: 35022881.

Passias PG, Moattari K, Pierce KE, Passfall L, Krol O, Naessig S, Ahmad W, Schoenfeld AJ, Ahmad S, Singh V, Joujon-Roche R, Williamson TK, Imbo B, Tretiakov P, Vira S, Diebo B, Lafage R, Lafage V. **Performance of the Modified Adult Spinal Deformity Frailty Index in Preoperative Risk Assessment.** Spine (Phila Pa 1976). 2022 Oct 15;47(20):1463-1469. doi: 10.1097/BRS.0000000000004342. Epub 2022 Feb 4. PMID: 35125455.

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Morrissey PJ, Shah NV, Hayden AJ, Zhou JJ, Bloom LR, Aylaroy A, Chatterjee D, Newman JM, Hariri OK, McCarthy MT, Hesham K, Urban WP Jr. **Male Youth Ice Hockey Concussion Incidence in a USA Hockey Membership-Adjusted Population: A Peak in 2011 and the Impact of Major Rule Changes.** Clin J Sport Med. 2022 Mar 1;32(2):122-127. doi: 10.1097/JSM.0000000000000893. PMID: 34009791.

Passias PG, Bortz C, Pierce KE, Passfall L, Kummer NA, Krol O, Lafage R, Diebo BG, Lafage V, Ames CP, Burton DC, Gupta MC, Sciubba DM, Schoenfeld AJ, Bess S, Hostin R, Shaffrey CI, Line BG, Klineberg EO, Smith JS, Schwab FJ; International Spine Study Group. **Comparing and Contrasting the Clinical Utility of Sagittal Spine Alignment Classification Frameworks: Roussouly Versus SRS-Schwab.** Spine (Phila Pa 1976). 2022 Mar 15;47(6):455-462. doi: 10.1097/BRS.0000000000004300. PMID: 34812196.

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Passfall L, Williamson TK, Krol O, Lebovic J, Imbo B, Joujon-Roche R, Tretiakov P, Dangas K, Owusu-Sarpong S, Koller H, Schoenfeld AJ, Diebo BG, Vira S, Lafage R, Lafage V, Passias PG. **Do the newly proposed realignment targets for C2 and T1 slope bridge the gap between radiographic and clinical success in corrective surgery for adult cervical deformity?** J Neurosurg Spine. 2022 Apr 15;1-8. doi: 10.3171/2022.2.SPINE211576. Epub ahead of print. PMID: 35426823.

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