

# DOWNSTATE ORTHOPAEDICS

## DISTINCTION IN ORTHOPAEDICS 2020

### IN THIS ISSUE:

- 1 Letter from the Chairman
- 2 Letter from the Program Director
- 3 Retirement - Joyce Hayes
- 4 Residents Didactics
- 5 Graduating Chiefs
- 6 Meet the Residents
- 7 Matched Graduates
- 8 Residents Awards
- 9 National & International Conferences
- 10 Highlighted Articles
- 11 Stanley Gordon Resident Fund
- 12-13 New Faculty
- 14-15 Faculty Research
- 16 AAOS 2020 Podiums
- 17-18 AAOS 2020 Posters
- 19-25 Peer-Reviewed Publications



# LETTER FROM THE CHAIRMAN



To My Colleagues,

It is with great pride that I welcome everyone to our **Annual Alumni AAOS Reception**. This newsletter is a platform to communicate with graduates of **SUNY Downstate Orthopaedic** surgery residency training program, a group that exceeds 200 fine surgeons. This program remains the leading provider of musculoskeletal care in the Brooklyn borough, a preeminent academic facility for orthopaedic education, and a center for cutting-edge musculoskeletal research.

**Downstate Orthopaedics** continues to grow as we have recently added new faculty to the *Hand/Upper Extremity, Sports Medicine, Adult Reconstruction, and Orthopaedic Traumatology* services. One of our posters (P0333) was selected as the **Best Poster in the Spine classification** at the **2020 AAOS** Annual meeting, the 4th time in the past 6 years (AAOS 2019, Spine; AAOS 2017, Hand/Wrist ; and AAOS 2015, Tumor). It was also highlighted for the **Spine ePoster Tour**, as was another poster (P0207) selected for the **Musculoskeletal Oncology ePoster Tour**, both guided by experts in the fields. Our research campaign continues its strong performance, as evidenced by a total of **45 studies** accepted to AAOS 2020, with **15 podium** and **30 poster** presentations. I would personally like to take a moment to thank all of our **Research Staff** and **Collaborators!**

Our objective is for you to stay involved with the academic activities of the program as we grow and continue our efforts at achieving excellence in orthopaedic care. **Please, join me in congratulating the graduating resident chiefs of 2020, who have all matched into their top rated fellowships of their choice.**

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

A handwritten signature in black ink, appearing to read 'William P. Urban'.

William P. Urban, MD

*Associate Professor and Chairman  
Department of Orthopaedic Surgery & Rehabilitation Medicine  
Chief, Sports Medicine  
SUNY Downstate Medical Center*

# LETTER FROM THE PROGRAM DIRECTOR



To My Colleagues,

I would like to welcome everyone to the **Annual Alumni AAOS Reception** at the **Rosen Centre Hotel**, Salon 6, on Friday, **March 27, 2020** at 6:45 PM - 10:00 PM. This year, the program had a strong presence at AAOS with a growing body of research both in quality and quantity. **Downstate Orthopaedics** continues to work closely with **Downstate College of Medicine** to educate and support medical students who are interested in **Orthopaedic Surgery**, and there have been more than 100 medical students over the past 3 years. This year alone, we accommodated **80+** Downstate **medical students**, **20+** additional **medical doctors and undergraduate students**, and **5 high school students**. We have initiated several joint projects with *The University of Texas MD Anderson Cancer Center*, and continued our collaboration with other institutions including *NYU Langone Orthopedic Hospital/HJD*, *Hospital for Special Surgery*, and *Cleveland Clinic*, as well as the *International Spine Study Group (ISSG)* to continue our research productivity. Over the past 5 years, the residency curriculum was simultaneously extensively reorganized, aiming at providing our trainees **substantial academic and research experience**. Dedicated faculty are always available to mentor students and residents while guiding them in their decision-making process.

In the last 2 years, **Downstate Orthopaedics** received **3 AFSH** (American Foundation for Surgery of the Hand) and **1 JRGOS** (J. Robert Gladden Orthopaedic Society) **grants**, built a **gait and motion analysis registry** with the use of our human performance laboratory, **designed and validated the Dubousset Functional Test** (a novel functional assessment with tremendous potential), and initiated discussions to **establish a Basic Science Orthopaedic Laboratory**. Finally, it is my pleasure to share with you that between AAOS 2019 and 2020, our research was presented at **25+ national and international meetings**, with the total podium and poster presentations exceeding **160**. We aim to continue this trend and build on our foundation to advance **Downstate Orthopaedics**. This could not have been and will no be even feasible without the continuous support of our **Alumni Members**, who are still involved in **endorsing Downstate Orthopaedics** and **assisting our trainees in thier future practice**.

A handwritten signature in blue ink, appearing to read 'C. Paulino', written in a cursive style.

Carl B. Paulino, MD

*Program Director  
Department of Orthopaedic Surgery & Rehabilitation Medicine  
Chief, Spine Surgery  
SUNY Downstate Medical Center*

# RETIREMENT JOYCE HAYES

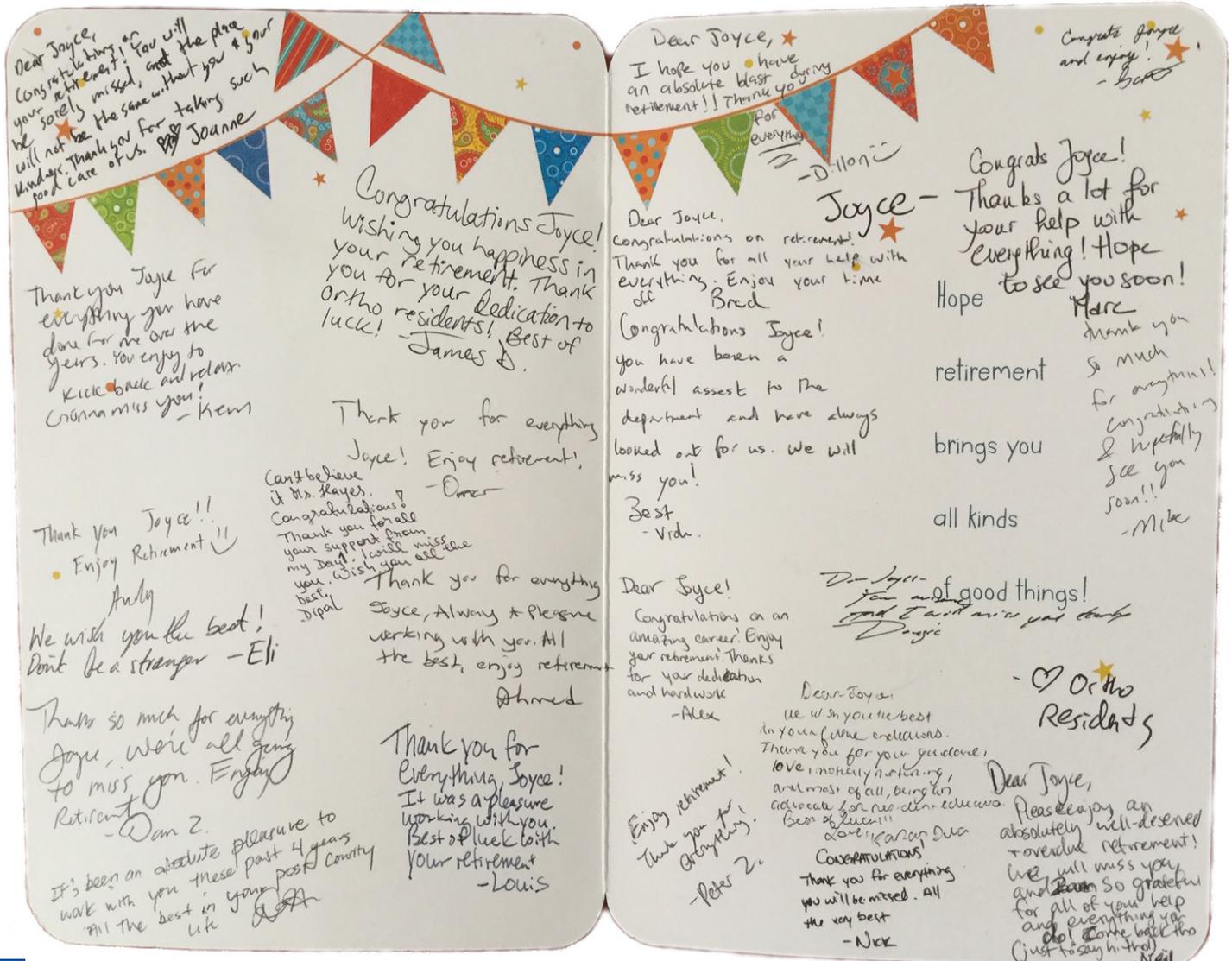


I have worked for New York City Health and Hospitals Corporation (HHC) for the past 32 years, of which 24 were spent in the Department of Orthopaedics until my retirement in December 2019. In 1986, I started as a Clerical Associate in the R (formerly known as the G) Building until 1992, when I got promoted to a Principal Administrative Associate (PAA) position in the Physician Assistant (PA) Program. However, in 1996, Kings County Hospital Center (KCHC) no longer supported the PA Program in supplying administrative or clerical help, and I was hence transferred to the Nursing Administrative Office. A few months later, I applied for a PAA level II position in the Orthopaedic Department and I got accepted. I remained in this position until I retired in 2019.

I have enjoyed my stay in the Orthopaedic Department, working with all of you, in the past and present. I would like to thank everyone, especially Dr. Gordon, who helped me tremendously when I first got on board in the Department. I am also thankful that I had the opportunity to work with Dr. Schwartz, although for a short time only. I will certainly miss everyone. I already miss getting up early and driving to work but, at the same time, I am really enjoying my retirement and getting used to not rushing around. I would gladly like to keep in contact with everyone, my email is joycehayes1@yahoo.com.

Thank you everyone for your kindness, respect, and cooperation.

All the very best,  
Joyce



# 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



**From left to right:** Peter Zhou (PGY2), Daniel Zuchelli (PGY2), Bradley Wham (PGY2), and Robert Pivec (Class of 2019).



**From left to right:** Joanne Dekis (PGY5) teaching the interns Vidushan Nadarajah, Neil Shah, and Evan Horowitz.

## SPECIAL THANKS TO :

Drs. Lee Bloom and Andrew Hayden for helping organize this year's academic curriculum.

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: [Yvonne.Henry@downstate.edu](mailto:Yvonne.Henry@downstate.edu)

# CONGRATULATIONS TO THE CLASS OF 2020



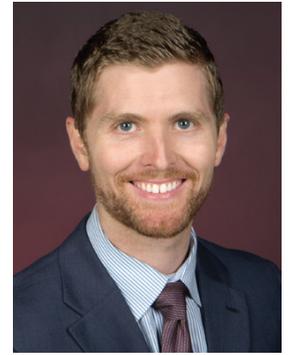
Lee Bloom, MD



Joanne Dekis, MD



James Doran, MD



Andrew Hayden, MD



Kemjika Onuoha, MD



Eli Sayegh, MD



Andrew Yang, MD

## CLASS OF 2020 FELLOWSHIPS

Graduates	Fellowship	Institution
Lee Bloom, MD	Sports Medicine	Lenox Hill
Joanne Dekis, MD	Pediatric Orthopaedics	Children's Hospital of LA
James Doran, MD	Sports Medicine	Rothman Institute
Andrew Hayden, MD	Sports Medicine	Emory University
Eli Sayegh, MD	Sports Medicine	Harvard Brigham and Women's
Andrew Yang, MD	Upper Extremity	Rothman Institute
Kemjika Onuoha, MD	Trauma	Cooper University Healthcare



# MEET THE RISING CHIEFS: CLASS OF 2021



Alexandr Aylyarov, MD  
Sports Fellowship  
UHZ Sports Medicine  
Institute, Miami, FL



Dipal Chatterjee, MD  
Sports Fellowship  
Houston Methodist  
Hospital, Houston, TX



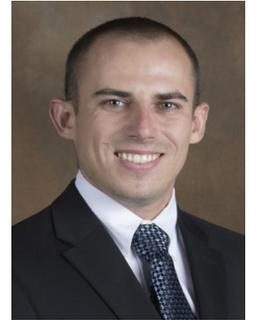
Karan Dua, MD  
Hand Fellowship  
Rush University  
Medical Center,  
Chicago, IL



Douglas Hollern, MD  
Spine Fellowship  
University of  
Southern California,  
Los Angeles, CA



Scott Pascal, MD  
Trauma Fellowship  
Jackson Memorial  
Hospital/University  
of Miami, Miami, FL



Mikhail Tretiakov, MD  
Pediatric Fellowship  
Rady Children's Hospital,  
San Diego, CA

## POSTGRADUATES YEAR 3, 2, AND 1



Louis Day, MD  
PGY 3



Rohan Desai, MD  
PGY 3



Bassel Diebo, MD  
PGY 3



Ahmed Eldib, MD  
PGY 3



Omar Hariri, MD  
PGY 3



Gregory Penny, MD  
PGY 3



Jaydev Mistry, MD  
PGY 2



Jared Newman, MD  
PGY 2



Dillon Sedaghatpour, MD  
PGY 2



Bradley Wham, MD  
PGY 2



Peter Zhou, MD  
PGY 2



Daniel Zuchelli, MD  
PGY 2



Katherine Connors, MD  
PGY 1



Jennifer Etcheson, MD  
PGY 1



Evan Horowitz, MD  
PGY 1



Vidushan Nadarajah, MD  
PGY 1



Neil Shah, MD  
PGY 1



Nicholas Stekas, MD  
PGY 1

# MEET THE INCOMING INTERN: CLASS OF 2025



Jon Berguson, MD  
Wayne State University



George Beyer, MD  
SUNY Downstate  
Medical Center



Steven Burekhovich, MD  
SUNY Downstate  
Medical Center



Joseph Ehiorobo, MD  
American University of Antigua



Scott Liu, MD  
University of Hawaii



Eric Tischler, DO, MPH  
NYIT College of  
Osteopathic Medicine

## CONGRATULATION TO THE CLASS OF 2021

At **Downstate Orthopaedics**, a **critical measure of our achievements** as an institution is our **medical graduates' match success**. We take **special pride in mentoring students** throughout their medical school. While being actively involved in **75+** projects during their medical school, our **matched graduates** (Class of 2021) had a mean of **55.3** research experiences (6.3 articles published and 49 abstracts accepted at International and National meetings) compared to the National Residency Match Program (NRMP) average of 4.9 accepted scholarly work per applicant!



George Beyer, MD  
SUNY Downstate  
Medical Center



Steven Burekhovich, MD  
SUNY Downstate  
Medical Center



BROWN

Patrick Morrissey, MD  
Warren Alpert Medical  
School of Brown University



Barrett Torre, MD  
University of  
Connecticut

**AAOS**

AMERICAN ACADEMY OF  
ORTHOPAEDIC SURGEONS

## American Academy of Orthopaedic Surgeons

### Best Poster: Spine and AAOS Highlights

#### **A Call to "Own the Bone": Osteoporosis is a Predictor for Two-Year Adverse Outcomes in Patients Undergoing Long Cervical Fusion**

Rompala A, Veenema R, Shah N, Beyer G, Celiker P, Islam M, Krol O, Dubner M, Lafage R, Challier V, Passias P, Schwab F, Lafage V, Paulino C, Diebo B

## American Academy of Orthopaedic Surgeons

### Best Poster: Musculoskeletal Oncology and AAOS Highlights

#### **Single-Stage Multiple versus Multi-Staged Multiple Intramedullary Nailing for Patients with Impending and Actual Pathologic Fractures of Long Bones in Metastatic Disease**

Newman JM, Diebo BG, Shah NV, Tretiakov M, Eldib AM, Pivec R, Naziri Q, Wadhwa RP, Maheshwari AV.



## International Society for the Advancement of Spine Surgery

### The Leon L. Wiltse Award for Best Overall Paper

#### **Traumatic Cervical Spinal Cord Injuries with Fracture: An Investigation of Early Versus Delayed Surgery among 6,636 Propensity-Matched Patients.**

Segreto FA, Bortz CA, Horn SR, Vasquez-Montes D, Brown AE, Alas H, Pierce KE, Moawad MA, Diebo BG, Lafage R, Lafage V, Protopsaltis TS, Buckland AJ, Errico TJ, Passias PG

## International Society for the Advancement of Spine Surgery

### The Charles D. Ray Best Clinical Paper

#### **MRI Radiological Predictors of Requiring Microscopic Lumbar Discectomy after Lumbar Disc Herniation.**

Varlotta CG, Stekas ND, Frangella NJ, Ge DH, Steinmetz LM, Manning JH, Vasquez-Montes D, Errico TJ, Bendo JA, Varlotta GP, Stieber JR, Fischer CR, Protopsaltis TS, Passias PG, Buckland AJ.

## Plastic Surgery

### Top 200 (Tier 1) Abstracts

#### **Recent Smoking History is Not Associated with Adverse 30-Day Outcomes Following Replantation or Revascularization Procedures of the Upper Extremity**

Oleru OO, Shah NV, Mistry JB, Hordines JC, Dua K, Ekstein CM, Mithani SK, Koehler SM.



## Brooklyn Orthopaedic Society (BOS)

### Resident Abstract Competition - 2nd Place

#### **Optimal Surgical Approach for the Surgical Fixation of Extra-Articular Humeral Shaft Fractures (EADHFs) to Minimize Iatrogenic Nerve Injury**

Newman JM, Bloom LR, Stroud SG, Diebo BG, Burekhovich SA, Basedow K, Krol O, Shah NV, Illicial EM.

## Brooklyn Orthopaedic Society (BOS)

### Resident Abstract Competition - 3rd Place

#### **Single-Stage Multiple versus Multi-Staged Multiple Intramedullary Nailing for Patients with Impending and Actual Pathologic Fractures of Long Bones in Metastatic Disease**

Newman JM, Diebo BG, Shah NV, Tretiakov M, Eldib AM, Pivec R, Naziri Q, Wadhwa RP, Maheshwari AV.



## American Association of Physicians of Indian Origin (AAPI)

### 1st New York State Young Innovators' Research Competition - 2nd Prize

#### **Is Aspirin Effective at Preventing Venous Thromboembolism (VTE) in Obese (Class 1 and 2) and Severely Obese (Class 3) Patients Undergoing Primary Total Joint Arthroplasty (TJA)?**

Axman R, Shah NV, Beyer GA, Vaynblat A, Xia DQ, Coste M, Abraham R, Naziri Q, Maheshwari AV.

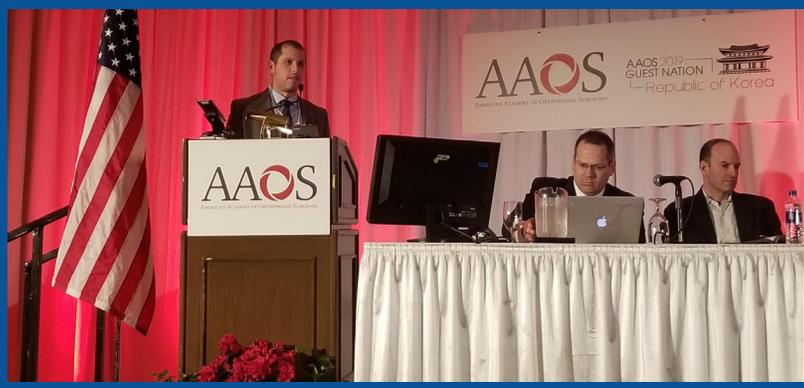
# NATIONAL AND INTERNATIONAL CONFERENCES



**2020 Annual Meeting**  
 March 24 – 28, Orlando, Florida

Between both Academies (AAOS 2019 and AAOS 2020) and with the help of **65 medical students**, Downstate Orthopaedics had **176** abstracts accepted as **podiums or posters** at **International (58)** and **National (118)** meetings. All orthopaedic subspecialties were covered, including:

- Adult Reconstruction
- Foot and Ankle
- General and Academic
- Hand
- Musculoskeletal Oncology
- Pediatrics
- Shoulder and Elbow
- Spine
- Sports
- Trauma



Dr. Jared Newman (PGY2) presenting at the American Academy of Orthopaedic Surgeons (AAOS) 2019 Annual Meeting.



Dr. Neil Shah (PGY1) presenting at the North American Spine Society (NASS) 34th Annual Meeting.

# HIGHLIGHTED ARTICLES

At **Downstate Orthopaedics**, research is extremely diverse and incorporates **biomechanical** studies, **clinical outcomes** studies, **cadaveric/anatomical**, and **animal research**. It encompasses projects from all subspecialties, including *spine, adult reconstruction, hand/upper extremity, shoulder/elbow, orthopaedic oncology, trauma, sports medicine, foot and ankle, and pediatrics*. The **Hip-Spine relationship** is one of the program's major interests and the research team is currently evaluating the impact of spinal sagittal alignment on the outcomes of total hip arthroplasty.

 <p>Up and Walking Test</p>	 <p>Steps Test</p>
 <p>Down and Sitting Test</p>	 <p>Dual Tasking Test</p>

While reinforcing a **collaborative and dynamic work** between multiple departments (Orthopaedic Surgery and Physical Medicine & Rehabilitation) across several institutions (SUNY Downstate, Francheville Clinic, SUNY Upstate, Hospital for Special Surgery, and NYU Langone), Downstate Orthopaedics was the **first to validate and publish** a novel, multi-domain physical function and balance assessment tool, the **Dubouset Functional Test**, in **Clinical Orthopaedics and Related Research (CORR)**. The study was featured on **OrthoSpineNews** (<https://www.orthospinenews.com/>), a platform that provides the latest news, innovations, and opinions from leading experts and industry leaders, and was presented internationally at the **Scoliosis Research Society (SRS) 54th Annual Meeting, 26th International Meeting on Advanced Spinal Techniques (IMAST)**, and **North American Spine Association (NASS) 2020**.

## OrthoSpineNews.

Aiming at testing the Dubouset Functional Test in patients with spinal pathologies, a **prospective, single-center**, two-arm study was conducted at **Downstate Orthopaedics**, and was recently accepted as a **podium** presentation at the **SRS 55th Annual Meeting**. This investigation corroborated the importance of the Dubouset Functional Test as a novel outcome assessment tool in volunteers and patients with spinal pathologies. Studies are currently underway to assess *changes* in the test's variables *after surgery* in spinal patients.



Oxford University Hospitals

Downstate Orthopaedics has always valued **collaboration**, understanding the power of working with **leaders** and **innovators** within the field to advance our understanding of various musculoskeletal problems. Our department has long-recognized the rising prevalence of adult spinal deformity within society, as well as the rapidly expanding and evolving body of evidence pertaining to its diagnosis and management globally. **Spearheaded** by our team, **Downstate Orthopaedics led an intercontinental effort** to synthesize the literature and provide for the global community a comprehensive Seminar review on adult spinal deformity, culminating in our work being published in the **Lancet Journal**. The published Seminar includes surgeons from **SUNY Downstate Medical Center (USA)**, the **FOCOS Hospital (Ghana)**, the **University of Hong Kong (China)**, **Oxford University Hospitals Foundation Trust (United Kingdom)**, and the **Hospital for Special Surgery (USA)**.

## THE LANCET

Lancet 2019; 394: 160-72

Volume 394, Number 10193, Pages 160-72, July 13-19, 2019

www.thelancet.com

### Adult spinal deformity

Bassel G Diebo, Neil V Shah, Oheneba Boachie-Adjei, Feng Zhu, Dominique A Rothenfluh, Carl B Paulino, Frank J Schwab, Virginie Lafage

# 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 **250 orthopaedic residents** who have left to pursue fellowship in all subspecialty areas and subsequently entered practice or academic throughout the country. The Department has produced multiple **three chairmen**, fellowship directors, and Vice Chairmen. The **research productivity** has **increased very substantially** as has the **number and quality of the applicants**. The Department currently provides advanced expertise in *Hand and Microvascular Surgery* including free tissue transplantation and Upper Extremity Surgery, and 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 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.

Alumni donations can be made to:

**Stanley Gordon Resident Fund**  
SUNY Downstate Medical Center  
Department of Orthopaedic Department  
450 Clarkson Ave, Box 30  
Brooklyn NY, 11203

# NEW FACULTY



William Aibinder, MD

**D**r. William R. Aibinder joined our department in October 2019 as an upper extremity surgeon. Dr. Aibinder specializes specifically in shoulder and elbow surgery including primary and revision arthroplasty, complex open reconstruction including tendon transfers and treatment of recurrent instability, shoulder and elbow arthroscopy for numerous conditions, scapulothoracic pathology, and treatment of traumatic injuries.

Dr. Aibinder returns to SUNY Downstate where he completed medical school before embarking on his orthopedic surgery residency at the Mayo Clinic in Rochester, MN, and an upper extremity fellowship at the Roth-McFarlane Hand & Upper Limb Centre in London, ON, Canada. Dr. Aibinder serves as the Director of the Shoulder & Elbow service as well as an associate residency program director.

He has a strong research background with over 30 peer-reviewed publications, and has presented original research at numerous local, regional, national, and international meetings. He continues his research endeavors at Downstate, continuing to collaborate with leaders and pioneers of shoulder and elbow surgery both across North America and internationally. Additionally, he is a reviewer for Injury, Shoulder Elbow, Journal of Shoulder & Elbow Surgery (JSES), and Journal of Bone & Joint Surgery (JBJS).



Christopher Chapman, MD

**D**r. Christopher R. Chapman is an Orthopaedic Surgeon who is fellowship trained in Pediatric Orthopaedic Surgery. He completed his fellowship at the British Columbia Children's Hospital at the University of British Columbia in Vancouver, Canada. His residency training was completed at the University of Alberta, and his medical degree was obtained from the University of British Columbia, in Canada.

Dr. Chapman will be seeing patients at the Bone & Joint Center at SUNY Downstate, with One Brooklyn Health at Brookdale University Hospital Medical Center, and at Richmond University medical Center on Staten Island.



Nishant Suneja, MD

**D**r. Nishant Suneja joined our department in August 2019 as an Orthopaedic Trauma surgeon. Dr. Suneja specializes in all fracture cases including pelvic and acetabular fractures, periarticular and periprosthetic fractures. Dr. Suneja has an interest in limb deformity correction, primary and revision hip arthroplasty, shoulder arthroplasty, malunion and nonunion surgery. Dr. Suneja operates out of Level 1 trauma center Kings county hospital where he takes the role of Director of the Orthopaedic trauma service. He has a strong interest in academic medicine, international medicine and research, with multiple presentations and active submissions to orthopaedic trauma journals.

Dr. Suneja received his undergraduate and medical degree from the State University of New York at Buffalo and completed his residency at Maimonides Medical Center, NY. Following residency, he completed his fellowship in Orthopaedic Trauma surgery at the prestigious Harvard Medical School, MA.

# NEW FACULTY



Steven Andelman, MD

**D**r. Steven M. Andelman joined the SUNY Downstate department in September 2019 as a Sports Medicine surgeon. Dr. Andelman specializes in operative and non-operative management of all aspects of sports medicine, including open and arthroscopic surgery of the shoulder, elbow, hip, and knee. Dr. Andelman has a special interest in complex and revision arthroscopic surgery of the shoulder and knee, cartilage repair and reconstruction, hip arthroscopy, and patellofemoral surgery. He has a strong background in research with over 20 publications and numerous presentations at regional, national, and international meetings and is a reviewer for the American Journal of Sports Medicine.

He brings with him a particular interest in resident teaching and education and will play an integral role in the development and growth of the sports medicine curriculum. Dr. Andelman received his medical degree from Georgetown University and completed his orthopedic residency at Mount Sinai. Following residency, he completed a fellowship in Sports Medicine at the University of Connecticut where he had the opportunity to learn from leaders in the field of sports medicine. He returns to New York excited to tackle complex pathology in Brooklyn.



Qais Naziri, MD, MBA

**D**r. Qais Naziri joined Downstate Orthopaedics in August 2019 as an Adult Joint Reconstruction surgeon. He specializes in surgical and non-surgical management of fractures of the lower extremity, as well as partial and total hip and knee arthroplasties. Dr. Naziri returns to SUNY Downstate where he helped building the Downstate Orthopaedics Research Program while directly overseeing the development of several Post-Doctoral research fellows during his Orthopaedic Surgery residency. He then completed his fellowship in Cleveland Clinic, FL, and currently serves as the Associate Program Director and Assistant Professor of Orthopaedic Surgery at Downstate Orthopaedics.

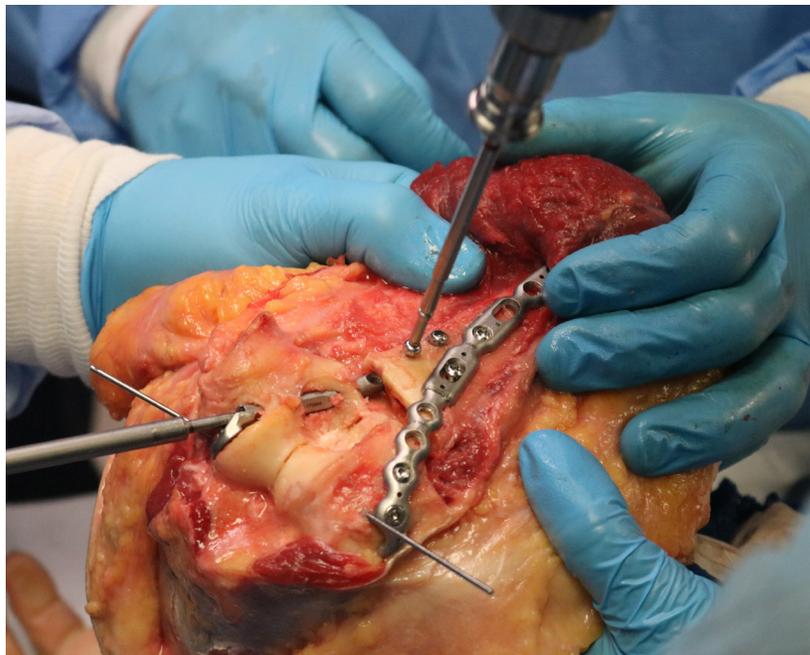
Dr. Naziri has an extensive research background, as evidenced by his 125+ publications originating from a multi-institutional effort, including SUNY Downstate, Northwell Health Lenox Hill Hospital, Cleveland Clinic, Johns Hopkins Medicine, and the Rubin Institute for Advanced Orthopaedics. His research endeavors focus on adult reconstructive surgeries, lower extremity Orthopaedic trauma, and new technology application in Orthopaedic Surgery.



# FACULTY RESEARCH

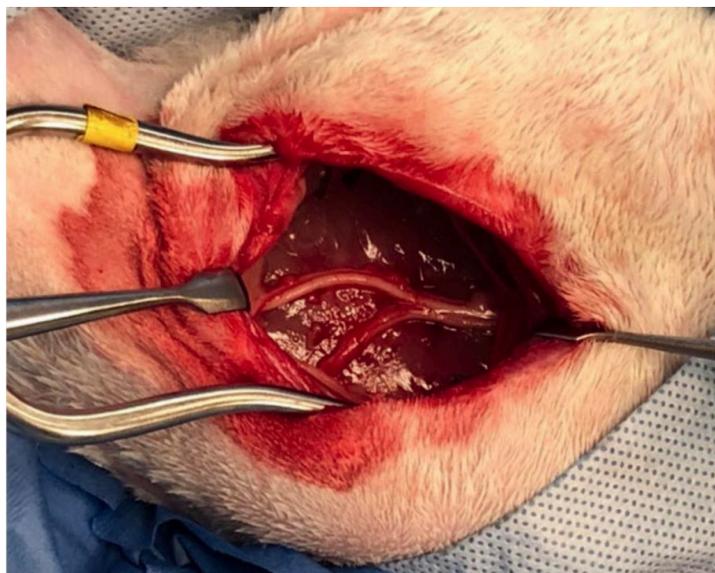
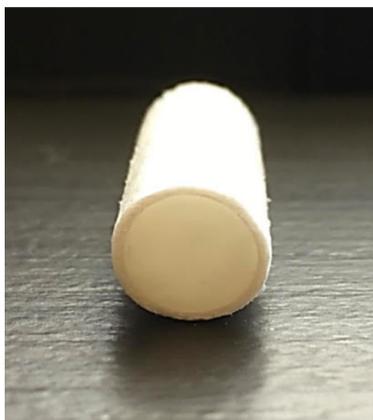
## Primary Trial Site for a Novel Implant

Under the direction of Dr. Steven Koehler, our Hand/Upper Extremity service is currently one of only a few sites in the United States conducting a Phase II test of a novel patient-reported outcome measure for patients with hand/upper extremity pathologies: HAND-Q. The Musculoskeletal Biomechanical Laboratory, a staple laboratory at Downstate, provides the opportunity for novel biomechanical studies. Downstate Orthopaedic is the primary site for a multicenter clinical trial evaluating a novel distal humerus fracture fixation construct, in concert with Massachusetts General Hospital, Duke University, and Athens Hospital in Greece. The Animal Facility and Division of Comparative Medicine are unique resources at Downstate and open to all investigators. Our Hand/Upper Extremity service has several ongoing projects funded by the American Foundation for Surgery of the Hand, with a \$20,000 Basic Science Grant, and two \$5,000 grants where residents serve as the principal investigators. Several studies utilizing decades' worth of data from Downstate and King's County Hospitals are also ongoing, directed by our Adult Reconstruction and Oncology, Sports, Trauma, as well as Foot and Ankle services.



## CUTTING EDGE NERVE REGENERATION PROJECT

It is with great pleasure to announce that our director of hand and microsurgery, **Steven Koehler, MD, FAAOS**, was awarded a basic science grant by the American Foundation for Surgery of the Hand. This is an extremely competitive grant that provides seed funding for R21-style projects. Dr. Koehler's laboratory was funded to conduct a rabbit nerve investigation to 1) compare allogenic nerve grafts and a novel synthetic nerve graft; and 2) examine means to accelerate nerve repair and regeneration. This study is being conducted with collaboration from NYU Tandon School of Engineering. The project has deep significance: nerve healing after injury is an enduring and poorly understood problem. Comprehension of the biology of nerves after injury will support future strategies to improve nerve regeneration and repair.



# HAND-Q ©

## Field-Test Version

In the field of hand surgery, the aim of many surgical interventions is to improve the patient's quality of life, therefore to establish the effectiveness of the interventions, the impact on the patient's quality of life must be measured. A soon-to-be published systematic review recently revealed that there is currently no patient-reported outcome instrument available that can be used for the majority of patients with a hand condition. This satisfies the best practices for development, as defined by the Medical Outcomes Trust and the US FDA.

Following Phase 1 development by Donald Lalonde and the University of Adelaide, SUNY Downstate is one of only a few sites in the United States, and among select institutions worldwide, to be enrolling patients into a Phase 2 Field Test of the HAND-Q, led by Dr. Steven M. Koehler.

## BROOKLYN FIRST COMPLETE UPPER EXTREMITY CENTER

Drs. Steven M. Koehler, Charles M. Ekstein, and William R. Aibinder are excited to announce the launch of the Brooklyn Upper Limb Center (BULC), aiming at providing comprehensive upper extremity care to patients of all age ranges: neonates to elderly. <https://www.brooklynupperlimbcenter.com>



# AAOS 2020 PODIUMS

## Tuesday, March 24 - Podiums

**036 The 5-Factor Modified Frailty Index is Predictive of 30-Day Postoperative Complications and Readmission in Patients with Adult Spinal Deformity.** Shah NV, Beyer GA, Kim DJ, Patel N, Hollern DA, Suarez DE, Monessa D, Baskar S, Zhou PJ, Eldib AM, Passias PG, Schwab FJ, Lafage V, Paulino CB, Diebo BG.

**8:00 AM - 10:00 AM/Room W205B**

**042 Assessing the Five-Year Baseline Prevalence of Metabolic Bone Diseases in the Adult Spinal Deformity Surgical Patient Population: A Call to "Own the Bone"** Beyer GA, Shah NV, Rompala A, Wolfert AJ, Jain I, Eldib AM, Naziri Q, Challier V, Lafage R, Shepherd EM, Passias PG, Schwab FJ, Lafage V, Paulino CB, Diebo BG.

**8:00 AM - 10:00 AM/Room W205B**

**043 The Impact of Metabolic Disorders of Bone Mineralization on Long-Term Outcomes Following Surgery for Adult Spinal Deformity Surgery: A Call to "Own the Bone".** Beyer GA, Rompala A, Wolfert AJ, Shah NV, Malekan M, Morrissey PJ, Burekhovich SA, Liabaud B, Stickevers SM, Agarwal S, Passias PG, Schwab FJ, Lafage V, Paulino CB, Diebo BG.

**8:00 AM - 10:00 AM/Room W205B**

**120 Increases in Fireworks-Related Upper Extremity Injuries Correspond to Increasing Fireworks Sales across 10 Years.** Morrissey PJ, Harris W, Shah, NV, Torre BB, Dua K, Ekstein CM, Koehler SM.

**10:30 AM - 12:30 PM/Room W224E**

**029 Implant Related Complications among Patients with Opioid Use Disorder following Primary Total Hip Arthroplasty: A Matched-Control Analysis.** Vakharia RM, Sabeh K, Sodhi N, Naziri Q, Vakharia A, Mont MA, Roche MW.

**8:00 AM - 10:00 AM/Valencia Ballroom A**

**034 Frailty Severity Impacts Development of Hospital Acquired Conditions in Patients Undergoing Corrective Surgery for Adult Spinal Deformity.** Pierce KE, Bortz CA, Alas H, Brown AE, Vasquez-Montes D, Raman T, Diebo BG, Gerling MC, Passias PG.

**8:00 AM - 10:00 AM/Room W205B**

**098 How has Total Knee Arthroplasty Changed for Females Under Global Budget Revenue?** Mohamed NS, Etcheson JI, Davila Castrodad IM, Remily EA, Wilkie WA, Cherian JJ, Walker A, Roadcloud E, Delanois RE.

**10:30 AM - 12:30 PM/Valencia Ballroom B**

**113 Preoperative Opioid Use in Orthopaedic Hand Surgery Patients.** Aneizi A, Gelmann D, Ventimiglia D, Sajak P, Nadarajah V, Foster M, Akabudike N, Pency R, Henn 3rd RF.

**10:30 AM - 12:30 PM/Room W224E**

## Wednesday, March 25 - Podiums

**382 Does Structural Compromise of the Aorta in Patients with Aortic Pathologies Predict Increased Spinal and Vascular Complications and Reoperations in Patients Undergoing Anterior Approach to the Spine?** Shah NV, Celiker P, Sadeghi C, Zhou PL, Jain I, Islam M, Caetta A, Diebo BG, Paulino CB.

**11:00 AM - 12:30 PM/Valencia Ballroom B**

## Thursday, March 26 - Podiums

**495 Annual Case Volume is a Risk Factor for 30-Day Unplanned Readmission after Open Reduction and Internal Fixation of Acetabular Fractures.** Merrill R, Turvey B, Landfair G, Illical EM.

**11:00 AM - 12:30 PM/Valencia Ballroom B**

**518 Incidence, Trends, and Perioperative Outcomes of Muscular Dystrophy Patients Undergoing Scoliosis Surgery.**

Brown AE, Pierce KE, Bortz CA, Alas H, Segreto FA, Diebo BG, Gerling MC, Passias PG.

**11:00 AM - 12:30 PM/Room W311E**

**576 Ninety-Day Emergency Department Visits following Revision Total Knee Arthroplasty: Causes and Risk Factors.** Sodhi N, Vakharia RM, Anis HK, Ehiorobo JO, Newman JM, Pivec R, Naziri Q, Mont MA, Roche MW.

**3:30 PM - 5:00 PM/Valencia Ballroom A**

## Friday, March 27 - Podiums

**736 Use of a Custom Website by Orthopaedic Sports Medicine Surgical Patients: If You Build It, Will They Come?** Henn 3rd RF, Meredith S, Matuszewski P, Smuda M, Taskoy E, Koenig S, Nadarajah V, Packer J.

**1:30 PM - 3:00 PM/Valencia Ballroom A**

**742 A Call to "Own the Bone": Osteoporosis is a Predictor for Adverse Two-Year Outcomes following Primary Total Knee Arthroplasty.** Celiker P, Islam M, Vaynblat A, Chaudhri M, Panchal A, Thomas J, Shah NV, Diebo BG, Naziri Q.

**1:30 PM - 3:00 PM/Valencia Ballroom B**

## Tuesday, March 24 - Posters

**P0077 Is Once-Daily 325 mg Aspirin an Adequate Thromboprophylaxis for Obese Patients Undergoing Total Joint Arthroplasty?** Axman R, Beyer GA, Shah NV, Abramowitz BR, Basedow K, Murtaugh TS, Grieco PW, Naziri Q, Maheshwari AV.

7:00 AM - 6:00 PM/Academy Hall C

**P0096 Do Residents Impact Opportunity Cost in a Primary Total Knee Arthroplasty? An Analysis of Surgical Timing, Patient Safety, and Functional Outcomes.** Maheshwari AV, Shah NV, Cheng TH, Garnett C, Caetta A, Monessa D, Pivec R, Paulino CB, Naziri Q.

7:00 AM - 6:00 PM/Academy Hall C

**P0107 Is there an Optimal Preoperative Skin Preparation Solution? A Comparison of Three Most Commonly Used Protocols.** Xia DQ, Abramowitz BR, Monessa D, Suarez DE, Shah NV, Zuchelli DM, Pascal SC, Abraham R, Maheshwari AV.

7:00 AM - 6:00 PM/Academy Hall C

**P0169 Wound-Related Complications following Calcaneus Fracture Fixation via Sinus Tarsi Approach at Less than Two Weeks Compared to Three Weeks.**

Pivec R, Desai R, Pascal SC, Shah NV, Kim D, Penny GS, Trovato DA, Wadhwa RP, Freeman BJ, McKean JM, Basu NN, Illical EM, Uribe JA.

7:00 AM - 6:00 PM/Academy Hall C

**P0200 The Impact of Smoking Status on 30-Day Postoperative Adverse Outcomes following Free-Flap Transfers of the Upper Extremity: An Analysis of the National Surgical Quality Improvement Program.** Oleru OO, Shah NV, Sedaghatpour DD, Zhou PJ, Ekstein CM, Mithani SK, Koehler SM.

7:00 AM - 6:00 PM/Academy Hall C

**P0207 Single-Stage Multiple versus Multi-Staged Multiple Intramedullary Nailing for Patients with Impending and Actual Pathologic Fractures of Long Bones in Metastatic Disease.** Newman JM, Diebo BG, Shah NV, Tretiakov M, Eldib AM, Pivec R, Naziri Q, Wadhwa RP, Maheshwari AV.

7:00 AM - 6:00 PM/Academy Hall C

**P0333 A Call to "Own the Bone": Osteoporosis is a Predictor for Two-Year Adverse Outcomes in Patients Undergoing Long Cervical Fusion.** Rompala A, Veenema RJ, Shah NV, Beyer GA, Celiker P, Islam M, Krol O, Dubner MG, Lafage R, Challier V, Passias PG, Schwab FJ, Lafage V, Paulino CB, Diebo BG.

7:00 AM - 5:00 PM/Academy Hall C

**P0371 Cervical Spinal Fusion in the Setting of Systemic Sclerosis: A Retrospective Series with Minimum Two-Year Adverse Outcome Surveillance.** Moattari CR, Lavian JD, Kim D, Patel N, Gold R, Morrin SJ, Baskar S, Islam M, Dar Q-A, Shah NV, Diebo BG, Paulino CB.

7:00 AM - 6:00 PM/Academy Hall C

**P0458 Outcomes of Midshaft Femoral Fractures in Octogenarians.** Pivec R, Messina JC, Conway CA, Ford BT, Kim D, Diebo BG, Naziri Q, Basu NN, Illical EM.

7:00 AM - 6:00 PM/Academy Hall C

**P0007 The Burden of Periprosthetic Joint Infection in Revision Total Hip Arthroplasty.** Mohamed NS, Remily EA, Wilkie WA, Davila Castrodad IM, Etcheson JI, Ehiorobo JO, George NE, Mont MA, Delanois RE.

7:00 AM - 6:00 PM/Academy Hall C

**P0025 Patients with Parkinson's Disease Undergoing Primary Total Hip Arthroplasty have Increased Medical Complications, Implant-Related Complications, Readmission Rates, and Cost of Care: A Matched-Control Analysis.** Vakharia RM, Sodhi N, Anis HK, Ehiorobo JO, Naziri Q, Piuuzzi NS, Mont MA, Roche MW.

7:00 AM - 6:00 PM/Academy Hall C

**P0046 Maryland's Global Budget Revenue Model Associated with Lower Costs and Rates of Readmission in Patients Undergoing Total Hip Arthroplasty.** Davila Castrodad IM, Mohamed NS, Gwam CU, Etcheson JI, Remily EA, Wilkie WA, Pollak A, Mont MA, Delanois RE.

7:00 AM - 6:00 PM/Academy Hall C

**P0050 Cannabis Use Increases 90-Day Readmission Rates and Cost of Care following Primary Total Hip Arthroplasty: A Matched-Control Analysis.** Vakharia RM, Ehiorobo JO, Anis HK, Sodhi N, Newman JM, Warren JA, Piuuzzi NS, Mont MA, Roche MW.

7:00 AM - 6:00 PM/Academy Hall C

**P0093 Increasing National Rate and Incidence of Hospital-Acquired Venous Thromboembolic Disease after Revision Total Knee Arthroplasty.** Etcheson JI, Mohamed NS, Davila Castrodad IM, Remily EA, Wilkie WA, Desmond T, Chatterjee D, Naziri Q, Delanois RE.

7:00 AM - 6:00 PM/Academy Hall C

**P0331 Frequency and Implications of Concurrent Complications following Adult Spinal Deformity Corrective Surgery.** Bortz CA, Pierce KE, Brown AE, Alas H, Vasquez-Montes D, Vira SN, Diebo BG, Gerling MC, Passias PG.

7:00 AM - 6:00 PM/Academy Hall C

**P0347 Depiction of Presenting Comorbidity Profiles in Adolescent Idiopathic Scoliosis Patients with and without Syringomyelia Using Cluster Analytics.** Pierce KE, Brown AE, Bortz CA, Alas H, Diebo BG, Paulino CB, Sciubba DM, Gerling MC, Passias PG.

7:00 AM - 6:00 PM/Academy Hall C

**P0357 Rates of Hospital Acquired Conditions Increase with Frailty Severity: A Modified Frailty Analysis of Surgical Spine Patients.** Pierce KE, Bortz CA, Alas H, Brown AE, Vasquez-Montes D, Diebo BG, Lafage V, Passias PG.  
7:00 AM - 6:00 PM/Academy Hall C

**P0360 The Five-Item Modified Frailty Index is Predictive of 30-Day Postoperative Complications in Patients Undergoing Spine Surgery.** Pierce KE, Bortz CA, Alas H, Brown AE, Vasquez-Montes D, Diebo BG, Gerling MC, Passias PG.  
7:00 AM - 6:00 PM/Academy Hall C

## Thursday, March 26 - Posters

**P0590 Is Aspirin Effective at Preventing Venous Thromboembolism in Obese (Class 1 and 2) and Severely Obese (Class 3) Patients Undergoing Primary Total Joint Arthroplasty?** Axman R, Shah NV, Beyer GA, Vaynblat A, Xia DQ, Coste M, Abraham R, Naziri Q, Maheshwari AV.  
7:00 AM - 5:00 PM/Academy Hall C

**P0707 Critical Analysis of Publication Rates and Changes in Authorship Compared Between the AAOS and Musculoskeletal Tumor Society Annual Meetings from 2013 to 2017.** Nisar A, Cheng TH, Shah NV, Tretiakov MD, Eldib AM, Naziri Q, Maheshwari AV.  
7:00 AM - 5:00 PM/Academy Hall C

**P0756 The Impact of Asymptomatic Human Immunodeficiency Virus-Positive Disease Status on Inpatient Complications following Orthopaedic Surgery: A Propensity Score-Matched Analysis of Spine and Joint Surgery.** Shah NV, Lettieri MJ, Caetta A, Panchal A, Diebo BG, Pivec R, Naziri Q, Maheshwari AV, Paulino CB.  
7:00 AM - 5:00 PM/Academy Hall C

**P0841 The Impact of Preoperative Cannabis Use on Outcomes following Thoracolumbar Spinal Fusion: A Propensity Score-Matched Analysis.** Shah NV, Lavian JD, Moattari CR, Jain I, Tarabichi S, Beyer GA, Wang H, Scollan JP, Lafage R, Passias PG, Lafage V, Schwab FJ, Paulino CB, Diebo BG.  
7:00 AM - 5:00 PM/Academy Hall C

**P0847 A Decade of Adolescent Idiopathic Scoliosis Care Adhering to Scoliosis Research Society Guidelines in an Underserved Population: A Single-Surgeon Registry.** Diebo BG, Shah NV, Kaur H, Wolfert AJ, Caetta A, Kim NS, Suarez DE, Baskar S, Monessa D, Najjar S, Lafage R, Passias PG, Lafage V, Schwab FJ, Paulino CB.  
7:00 AM - 5:00 PM/Academy Hall C

**P0852 A Call to Own the Bone: Metabolic Bone Mineralization Disorders Increase the Two-Year Adverse Outcome Risk following Short Fusion for Degenerative Lumbar Disease.** Wolfert AJ, Rompala A, Tarabichi S, Morrissey PJ, Najjar S, Malekan M, Liabaud B, Stickevers SM, Agarwal S, Lafage R, Passias PG, Schwab FJ, Shah NV, Paulino CB, Diebo BG.  
7:00 AM - 5:00 PM/Academy Hall C

**P0879 Comparing 30-Day Outcomes between Orthopaedic Surgeons and Neurosurgeons following Single-Level Cervical Total Disc Replacement.** Coste M, Beyer GA, Shah NV, Zhang D, Newman JM, Kim D, Panchal A, Passias PG, Lafage R, Kim HJ, Schwab FJ, Lafage V, Post NH, Paulino CB, Diebo BG.  
7:00 AM - 5:00 PM/Academy Hall C

**P0973 Optimal Surgical Approach for the Surgical Fixation of Extra-Articular Humeral Shaft Fractures to Minimize Iatrogenic Nerve Injury.** Newman JM, Bloom LR, Stroud SG, Diebo BG, Burekhovich SA, Basedow K, Krol O, Shah NV, Illical EM.  
7:00 AM - 5:00 PM/Academy Hall C

**P0571 Incidence and Risk Factors for Hospital-Acquired Pulmonary Embolism or Deep Vein Thrombosis after Total Hip Arthroplasty: A Nationwide Analysis Between 2009-2016.** Etcheson JI, Mohamed NS, Davila Castrodad IM, Remily EA, Wilkie WA, Kelemen M, Zuchelli DM, Naziri Q, Delanois RE.  
7:00 AM - 5:00 PM/Academy Hall C

**P0599 Infected Total Knee Arthroplasty: Who Gets a Revision, Arthrodesis, or Amputation?** Mohamed NS, Remily EA, Wilkie WA, Davila Castrodad IM, Etcheson JI, Aitken J, Kelemen M, Mont MA, Delanois RE.  
7:00 AM - 5:00 PM/Academy Hall C

**P0856 Trends in Robotic Spine Surgery: A Six-Year Analysis of Morbidity and Mortality.** Brown AE, Alas H, Pierce KE, Bortz CA, Diebo BG, Buckland AJ, Gerling MC, Passias PG.  
7:00 AM - 5:00 PM/Academy Hall C

**P0862 A Predictive Model of Perioperative Myocardial Infarction in Spine Surgery.** Passias PG, Pierce KE, Alas H, Bortz CA, Brown AE, Oh C, Wang E, Diebo BG, Gerling MC.  
7:00 AM - 5:00 PM / Academy Hall C

**P0965 Management of Ankle Fractures with Syndesmotic Disruption: A Survey of Orthopaedic Surgeons.** Rogero R, Illical EM, Raikin S, Krieg J, Tsai J.  
7:00 AM - 5:00 PM / Academy Hall C

**Plantar Medial Avulsion Fragment Associated With Tongue-Type Calcaneus Fractures.** Adams MR, Koury KL, Mistry JB, Braaksma W, Hwang JS, Firoozabadi R. *Foot Ankle Int.* 2019;40(6):634-40. PMID: 30841752

**Three-Dimensional Analysis of Initial Brace Correction in the Setting of Adolescent Idiopathic Scoliosis.** Almansour H, Pepke W, Bruckner T, Diebo BG, Akbar M. *J Clin Med.* 2019;8(11). PMID: 31661811

**A comparison of peri-operative outcomes between elective and non-elective total hip arthroplasties.** Anis HK, Sodhi N, Coste M, Ehiorobo JO, Newman JM, Garbarino LJ, Gold P, Freund B, Piuze N, Mont MA. *Ann Transl Med.* 2019;7(4):78. PMID: 30963073

**Impact of Intravenous Acetaminophen on Lengths of Stay and Discharge Status after Total Knee Arthroplasty.** Barrington JW, Hansen RN, Lovelace B, Boing EA, Chughtai M, Newman JM, Pham AT, Khlopas A, Sodhi N, Sultan AA, Mont MA. *J Knee Surg.* 2019;32(1):111-6. PMID: 29514362

**Costs and complications of increased length of stay following adolescent idiopathic scoliosis surgery.** Boylan MR, Riesgo AM, Chu A, Paulino CB, Feldman DS. *J Pediatr Orthop B.* 2019;28(1):27-31. PMID: 30256316

**Day of Admission is Associated With Variation in Geriatric Hip Fracture Care.** Boylan MR, Riesgo AM, Paulino CB, Tejwani NC. *J Am Acad Orthop Surg.* 2019;27(1):e33-e40. PMID: 30247307

**A Histologic Analysis of a Retrieved Specimen 24 Years after Hemiresurfacing for Avascular Necrosis.** Chatterjee D, Harb MA, Yiachos C, Tangl S, Vigorita VJ, Tischler HM, Maheshwari AV. *J Long Term Eff Med Implants.* 2019;29(1):19-27. PMID: 31679198

**The Role of Virtual Rehabilitation in Total and Unicompartmental Knee Arthroplasty.** Chughtai M, Kelly JJ, Newman JM, Sultan AA, Khlopas A, Sodhi N, Bhav A, Kolczun MC 2nd, Mont MA. *J Knee Surg.* 2019;32(1):105-10. PMID: 29548061

**Astym((R)) therapy: a systematic review.** Chughtai M, Newman JM, Sultan AA, Samuel LT, Rabin J, Khlopas A, Bhav A, Mont MA. *Ann Transl Med.* 2019;7(4):70. PMID: 30963065

**The role of prehabilitation with a telerehabilitation system prior to total knee arthroplasty.** Chughtai M, Shah NV, Sultan AA, Solow M, Tiberi JV, Mehran N, North T, Moskal JT, Newman JM, Samuel LT, Bhav A, Mont MA. *Ann Transl Med.* 2019;7(4):68. PMID: 30963063

**Postoperative stroke after anterior cervical discectomy and fusion in patients with carotid artery stenosis: a statewide database analysis.** Chughtai M, Sultan AA, Padilla J, Beyer GA, Newman JM, Davidson IU, Ilyas H, Udo-Inyang I Jr, Berger RJ, Samuel LT, Shankar GM, Paulino CB, Pelle D, Savage JW, Steinmetz MP, Mroz TE. *Spine J.* 2019;19(4):597-601. PMID: 30244036

**Radial Nerve Sensory Branch Anatomical Variant: A Case Report and Literature Review.** Day LM, Stroud SG, Shah NV, Pascal SC, Penny GS, Diebo BG, Illical EM. *JBJS Case Connect.* 2019;9(4):e0489. PMID: 31821200

**Weekend versus Weekday Admission in Spinal Cord Injury and Its Effect on Timing of Surgical Intervention.** De la Garza Ramos R, Longo M, Gelfand Y, Echt M, Diebo BG, Shah NV, Kessler RA, Passias PG, Yassari R. *World Neurosurg.* 2019;122:e754-e8. PMID: 30391609

**Influence of the Maryland All-Payer Model on Primary Total Knee Arthroplasties.** Delanois RE, Etcheson JI, Davila Castrodad IM, Mohamed NS, Pollak AN, Mont MA. *JB JS Open Access.* 2019;4(4):e0041. PMID: 32043062

**Procedure-Related Risk Factors May Be More Important in Predicting Length of Stay After Total Knee Arthroplasty: Commentary on an article by the Cleveland Clinic Orthopaedic Arthroplasty Group, "The Main Predictors of Length of Stay After Total Knee Arthroplasty. Patient-Related or Procedure-Related Risk Factors".** Delanois RE, Mistry JB, Etcheson JI, Gwam CU. *J Bone Joint Surg Am.* 2019;101(12):e59. PMID: 31220035

**The Dubousset Functional Test is a Novel Assessment of Physical Function and Balance.** Diebo BG, Challier V, Shah NV, Kim D, Murray DP, Kelly JJ, Lafage R, Paulino CB, Passias PG, Schwab FJ, Lafage V. *Clin Orthop Relat Res.* 2019. PMID: 31135543

**Radiographic Categorization of the Hip-spine Syndrome in the Setting of Hip Osteoarthritis and Sagittal Spinal Malalignment.** Diebo BG, Day LM, Lafage R, Passias PG, Paulino CB, Naziri Q, Mont MA, Errico TJ, Schwab FJ, Lafage V. *J Am Acad Orthop Surg.* 2019;27(17):659-66. PMID: 31442211

**Adolescent Idiopathic Scoliosis Care in an Underserved Inner-City Population: Screening, Bracing, and Patient- and Parent-Reported Outcomes.** Diebo BG, Segreto FA, Solow M, Messina JC, Paltoo K, Burekhovich SA, Bloom LR, Cautela FS, Shah NV, Passias PG, Schwab FJ, Pasha S, Lafage V, Paulino CB. *Spine Deform.* 2019;7(4):559-64. PMID: 31981128

**Adult spinal deformity.** Diebo BG, Shah NV, Boachie-Adjei O, Zhu F, Rothenfluh DA, Paulino CB, Schwab FJ, Lafage V. *Lancet*. 2019;394(10193):160-72. PMID: 31305254

**Periarticular injection and continuous femoral nerve block versus continuous femoral nerve block alone on postoperative opioid consumption and pain control following total knee arthroplasty: Randomized controlled trial.** Dimaculangan D, Chen JF, Borzio RB, Jauregui JJ, Rasquinha VJ, Maheshwari AV. *J Clin Orthop Trauma*. 2019;10(1):81-6. PMID: 30705537

**Outcomes of Anterior Cruciate Ligament Reconstruction in Obese and Overweight Patients: A Systematic Review.** DiSilvestro KJ, Jauregui JJ, Glazier E, Cherkalin D, Bennett CH, Packer JD, Henn RF 3rd. *Clin J Sport Med*. 2019;29(4):257-61. PMID: 31241525

**Ossification of the Proximal and Middle Phalangeal Condyles: Radiographic Aid in Phalangeal Neck Fracture Reduction.** Dua K, O'Hara NN, Shusterman I, Abzug JM. *J Pediatr Orthop*. 2019;39(3):e222-e6. PMID: 30199456

**A pilot study of metabolic fitness effects of weight-supported walking in women with obesity.** Godwin EM, Uglialoro AD, Ali A, Yearwood L, Banerji MA, Kral JG. *PLoS One*. 2019;14(2):e0211529. PMID: 30785891

**Changes in Total Knee Arthroplasty Utilization since the Implementation of ACA: An Analysis of Patient-Hospital Demographics, Costs, and Charges.** Gwam CU, Mohamed NS, Etcheson JI, Davila Castrodad IM, Mistry JB, Recai TM, Delanois RE. *J Knee Surg*. 2019. PMID: 30912105

**Risk Factors for Pseudarthrosis After Surgical Site Infection of the Spine.** Hollern DA, Woods BI, Shah NV, Schroeder GD, Kepler CK, Kurd MF, Millhouse PW, Diebo BG, Paulino CB, Hilibrand AS, Vaccaro AR, Radcliff KE, Int *J Spine Surg*. 2019;13(6):507-14. PMID: 31970045

**Suboptimal Age-Adjusted Lumbo-Pelvic Mismatch Predicts Negative Cervical-Thoracic Compensation in Obese Patients.** Horn SR, Bortz CA, Ramachandran S, Poorman GW, Segreto F, Siow M, Sure A, Vasquez-Montes D, Diebo B, Tishelman J, Moon J, Zhou P1, Beaubrun B, Vira S, Jalai C, Wang C, Shenoy K, Behery O, Errico T, Lafage V, Buckland A, Passias PG. *Int J Spine Surg*. 2019;13(3):252-61. PMID: 31328089

**Predictors of Hospital-Acquired Conditions Are Predominately Similar for Spine Surgery and Other Common Elective Surgical Procedures, With Some Key Exceptions.** Horn SR, Pierce KE, Oh C, Segreto FA, Egers M, Bortz C, Vasquez-Montes D, Lafage R, Lafage V, Vira S, Steinmetz L, Ge DH, Buza JA 3rd, Moon J, Diebo BG, Alas H, Brown AE, Shepard NA, Hassanzadeh H, Passias PG. *Global Spine J*. 2019;9(7):717-23. PMID: 31552152

**Trends in Treatment of Scheuermann Kyphosis: A Study of 1,070 Cases From 2003 to 2012.** Horn SR, Poorman GW, Tishelman JC, Bortz CA, Segreto FA, Moon JY, Zhou PL, Vaynrub M, Vasquez-Montes D, Beaubrun BM, Diebo BG, Vira S, Raad M, Sciubba DM, Lafage V, Schwab FJ, Errico TJ, Passias PG. *Spine Deform*. 2019;7(1):100-6. PMID: 30587300

**Management of symptomatic os acromiale: a survey of the American shoulder and elbow surgeons.** Horton S, Smuda MP, Jauregui JJ, Nadarajah V, Gilotra MN, Henn RF, 3rd, Hasan SA. *Int Orthop*. 2019;43(11):2569-78. PMID: 30607498

**Variation Among Pediatric Orthopaedic Surgeons When Treating Medial Epicondyle Fractures.** Hughes M, Dua K, O'Hara NN, Brighton BK, Ganley TJ, Hennrikus WL, Herman MJ, Hyman JE, Lawrence JT, Mehlman CT, Noonan KJ, Otsuka NY, Schwend RM, Shrader MW, Smith BG, Sponseller PD, Abzug JM. *J Pediatr Orthop*. 2019;39(8):e592-e6. PMID: 31393295

**Spine Injuries in Child Abuse.** Jauregui JJ, Perfetti DC, Cautela FS, Frumberg DB, Naziri Q, Paulino CB. *J Pediatr Orthop*. 2019;39(2):85-9. PMID: 27662382

**Operative Management for Pediatric and Adolescent Scaphoid Nonunions: A Meta-analysis.** Jauregui JJ, Seger EW, Hesham K, Walker SE, Abraham R, Abzug JM. *J Pediatr Orthop*. 2019;39(2):e130-e3. PMID: 29252909  
**Risk Factors for Cerebrospinal Fluid Leak Following Anterior Cervical Discectomy and Fusion.** Kapadia BH, Decker SI, Boylan MR, Shah NV, Paulino CB. *Clin Spine Surg*. 2019;32(2):E86-e90. PMID: 30379657

**Reducing perioperative blood loss with antifibrinolytics and antifibrinolytic-like agents for patients undergoing total hip and total knee arthroplasty.** Kapadia BH, Torre BB, Ullman N, Yang A, Harb MA, Grieco PW, Newman JM, Harwin SF, Maheshwari AV. *J Orthop*. 2019;16(6):513-6. PMID: 31680743

**The Prevalence of Asymptomatic Cervical and Lumbar Facet Arthropathy: A Computed Tomography Study.** Kim JH, Sharan A, Cho W, Emam M, Hagen M, Kim SY. *Asian Spine J*. 2019;13(3):417-22. PMID: 30744307

**2019 WACEM - Academic College of Emergency Experts Consensus Recommendations on Admission Criteria to Pediatric Intensive Care Unit from the Emergency Departments in India.** Lalitha AV, Fassi B, Gist RE, Shah BR, Chawla N, Singh A, Baranawal A, Shamarao S, Vanaki R, Mahajan P, Patel R, Chauhan V, Batra P, Saha A, Galwankar S, Soans S. *J Emerg Trauma Shock*. 2019;12(2):155-62. PMID: 31198285

## **How Much Bone Cement Is Utilized for Component Fixation in Primary Cemented Total Knee Arthroplasty?**

Maheshwari AV, Shah NV. Arch Bone Jt Surg. 2019;7(2):209-10. PMID: 31211201

## **One-Year Patient Outcomes for Robotic-Arm-Assisted versus Manual Total Knee Arthroplasty.**

Marchand RC, Sodhi N, Anis HK, Ehiorobo J, Newman JM, Taylor K, Condrey C, Hepinstall MS, Mont MA. J Knee Surg. 2019;32(11):1063-8. PMID: 30959549

## **Does the Robotic Arm and Preoperative CT Planning Help with 3D Intraoperative Total Knee Arthroplasty Planning?**

Marchand RC, Sodhi N, Bhowmik-Stoker M, Scholl L, Condrey C, Khlopas A, Sultan AA, Newman JM, Mont MA. J Knee Surg. 2019;32(8):742-9. PMID: 30112739

## **Orthopaedic surgery patients who use recreational marijuana have less pre-operative pain.**

Medina SH, Nadarajah V, Jauregui JJ, Smuda MP, Foster M, Meredith SJ, Packer JD, Henn RF 3rd. Int Orthop. 2019;43(2):283-92. PMID: 30135987

## **Preoperative Opioid Use in Knee Surgery Patients.**

Meredith SJ, Nadarajah V, Jauregui JJ, Smuda MP, Medina SH, Bennett CH, Packer JD, Henn RF 3rd. J Knee Surg. 2019;32(7):630-6. PMID: 29991075

## **Evaluation of the PROMIS Physical Function Computer Adaptive Test in Patients Undergoing Knee Surgery.**

Miles M, Nadarajah V, Jauregui JJ, Dubina AG, Smuda MP, Bennett CH, Packer JD, Henn RF 3rd. J Knee Surg. 2019. PMID: 31067591

## **Evaluation of Preoperative Pain Using PROMIS Pain Interference in Knee Surgery Patients.**

Nadarajah V, Glazier E, Miller K, Jauregui JJ, Smuda MP, Bennett CH, Packer JD, Henn RF 3rd. J Knee Surg. 2019. PMID: 31096280

## **Response to letter to the editor concerning "Orthopaedic surgery patients who use recreational marijuana have less pre-operative pain".**

Nadarajah V, Jauregui JJ, Henn RF, 3rd. Int Orthop. 2019;43(8):1999. PMID: 31119316

## **Short-term outcomes after anatomic total shoulder arthroplasty in patients with osteoarthritis versus osteonecrosis.**

Navarro SM, Haeberle HS, Khlopas A, Newman JM, Karnuta JM, Mont MA, Ramkumar PN. Ann Transl Med. 2019;7(3):48. PMID: 30906752

## **The trends in robotic-assisted knee arthroplasty: A statewide database study.**

Naziri Q, Burekhovich SA, Mixa PJ, Pivec R, Newman JM, Shah NV, Patel PD, Sastry A. J Orthop. 2019;16(3):298-301. PMID: 31193224

## **Making the transition from traditional to robotic-arm assisted TKA: What to expect? A single-surgeon comparative-analysis of the first-40 consecutive cases.**

Naziri Q, Cusson BC, Chaudhri M, Shah NV, Sastry A. J Orthop. 2019;16(4):364-8. PMID: 31061567

## **Use of Closed Incisional Negative Pressure Wound Therapy After Revision Total Hip and Knee Arthroplasty in Patients at High Risk for Infection: A Prospective, Randomized Clinical Trial.**

Newman JM, Siqueira MBP, Klika AK, Molloy RM, Barsoum WK, Higuera CA. J Arthroplasty. 2019;34(3):554-9.e1. PMID: 30545653

## **Malnutrition increases the 30-day complication and re-operation rates in hip fracture patients treated with total hip arthroplasty.**

Newman JM, Sodhi N, Khlopas A, Piuze NS, Yakubek GA, Sultan AA, Klika AK, Higuera CA, Mont MA. Hip Int. 2019;1120700019862977. PMID: 31304789

## **Parkinson's disease increases the risk of perioperative complications after total knee arthroplasty: a nationwide database study.**

Newman JM, Sodhi N, Wilhelm AB, Khlopas A, Klika AK, Naziri Q, Kryzak TJ, Higuera CA, Mont MA. Knee Surg Sports Traumatol Arthrosc. 2019;27(7):2189-95. PMID: 29785449

## **What are the Short-Term Outcomes in Multiple Sclerosis Patients after Total Knee Arthroplasty?**

Newman JM, Sultan AA, Khlopas A, Sodhi N, Faour M, Piuze NS, Higuera CA, Mont MA. J Knee Surg. 2019;32(2):165-70. PMID: 29514369

## **Global spinal deformity from the upper cervical perspective. What is "Abnormal" in the upper cervical spine?**

Passias PG, Alas H, Lafage R, Diebo BG, Chern I, Ames CP, Park P, Than KD, Daniels AH, Hamilton DK, Burton DC, Hart RA, Bess S, Line BG, Klineberg EO, Shaffrey CI, Smith JS, Schwab FJ, Lafage V. J Craniovertebr Junction Spine. 2019;10(3):152-9. PMID: 31772427

## **Alcoholism as a predictor for pseudarthrosis in primary spine fusion: An analysis of risk factors and 30-day outcomes for 52,402 patients from 2005 to 2013.**

Passias PG, Bortz C, Alas H, Segreto FA, Horn SR, Ihejirika YU, Vasquez-Montes D, Pierce KE, Brown AE, Shenoy K, DelSole EM, Johnson B, Oh C, Zhou PL, Deflorimonte C, Dhillon ES, Jankowski PP, Diebo BG, Lafage V, Lafage R, Vira SN, Bendo JA, Goldstein JA, Schwab FJ, Gerling MC. J Orthop. 2019;16(1):36-40. PMID: 30662235

**Diminishing Clinical Returns of Multilevel Minimally Invasive Lumbar Interbody Fusion.** Passias PG, Bortz C, Horn SR, Segreto FA, Stekas N, Ge DH, Alas H, Varlotta CG, Frangella NJ, Lafage R, Lafage V, Steinmetz L, Vasquez-Montes D, Diebo B, Janjua MB, Moawad MA, Deflorimonte C, Protosaltis TS, Buckland AJ, Gerling MC. *Spine (Phila Pa 1976)*. 2019;44(20):E1181-e7. PMID: 31589201

**Decreased rates of 30-day perioperative complications following ASD-corrective surgery: A modified Clavien analysis of 3300 patients from 2010 to 2014.** Passias PG, Bortz CA, Pierce KE, Segreto FA, Horn SR, Vasquez-Montes D, Lafage V, Brown AE, Ihejirika Y, Alas H, Varlotta C, Ge DH, Shepard N, Oh C, DelSole EM, Jankowski PP, Hockley A, Diebo BG, Vira SN, Sciubba DM, Raad M, Neuman BJ, Gerling MC. *J Clin Neurosci*. 2019;61:147-52. PMID: 30424970

**Metabolic Syndrome has a Negative Impact on Cost Utility Following Spine Surgery.** Passias PG, Brown AE, Lebovic J, Pierce KE, Ahmad W, Bortz CA, Alas H, Diebo BG, Buckland AJ. *World Neurosurg*. 2019. PMID: 31857269

**Pre-operative planning and rod customization may optimize post-operative alignment and mitigate development of malalignment in multi-segment posterior cervical decompression and fusion patients.** Passias PG, Horn SR, Jalai CM, Poorman GW, Steinmetz L, Segreto FA, Bortz CA, Diebo BG, Lafage V. *J Clin Neurosci*. 2019;59:248-53. PMID: 30279119

**The impact of osteotomy grade and location on regional and global alignment following cervical deformity surgery.** Passias PG, Horn SR, Raman T, Brown AE, Lafage V, Lafage R, Smith JS, Bortz CA, Segreto FA, Pierce KE, Alas H, Line BG, Diebo BG, Daniels AH, Kim HJ, Soroceanu A, Mundis GM, Protosaltis TS, Klineberg EO, Burton DC, Hart RA, Schwab FJ, Bess S, Shaffrey C, Ames CP; International Spine Study Group. *J Craniovertebr Junction Spine*. 2019;10(3):160-6. PMID: 31772428

**Correction to: Prior bariatric surgery lowers complication rates following spine surgery in obese patients.** Passias PG, Horn SR, Vasquez-Montes D, Shepard N, Segreto FA, Bortz CA, Poorman GW, Jalai CM, Wang C, Stekas N, Frangella NJ, Deflorimonte C, Diebo BG, Raad M, Vira S, Horowitz JA, Sciubba DM, Hassanzadeh H, Lafage R, Afthinos J, Lafage V. *Acta Neurochir (Wien)*. 2019;161(12):2443-6. PMID: 31583474

**Effect of Obesity on Radiographic Alignment and Short-Term Complications After Surgical Treatment of Adult Cervical Deformity.** Passias PG, Poorman GW, Horn SR, Jalai CM, Bortz C, Segreto F, Diebo BM, Daniels A, Hamilton DK, Sciubba D, Smith J, Neuman B, Shaffrey C, LaFage V, LaFage R, Schwab F, Bess S, Ames C, Hart R, Soroceanu A, Mundis G, Eastlack R; International Spine Study Group. *World Neurosurg*. 2019;125:e1082-e8. PMID: 30790725

**Recovery kinetics following spinal deformity correction: a comparison of isolated cervical, thoracolumbar, and combined deformity morphometries.** Passias PG, Segreto FA, Lafage R, Lafage V, Smith JS, Line BG, Scheer JK, Mundis GM, Hamilton DK, Kim HJ, Horn SR, Bortz CA, Diebo BG, Vira S, Gupta MC, Klineberg EO, Burton DC, Hart RA, Schwab FJ, Shaffrey C, Ames CP, Bess S; International Spine Study Group. *Spine J*. 2019;19(8):1422-33. PMID: 30930292

**Correction of the spine with magnetically controlled growing rods in early onset scoliosis : A pre-to-post analysis of 21 patients with 1year follow-up.** Pepke W, Almansour H, Diebo BG, Akbar M. *Orthopade*. 2019. PMID: 31506823

**Cervical spine alignment following surgery for adolescent idiopathic scoliosis (AIS): a pre-to-post analysis of 81 patients.** Pepke W, Almansour H, Lafage R, Diebo BG, Wiedenhofer B, Schwab F, Lafage V, Akbar M. *BMC Surg*. 2019;19(1):7. PMID: 30646880

**PROMIS physical health domain scores are related to cervical deformity severity.** Pierce KE, Alas H, Brown AE, Bortz CA, O'Connell B, Vasquez-Montes D, Diebo BG, Lafage R, Lafage V, Buckland AJ, Passias PG. *J Craniovertebr Junction Spine*. 2019;10(3):179-83. PMID: 31772431

**Factors influencing length of stay following cervical spine surgery: A comparison of myelopathy and radiculopathy patients.** Pierce KE, Gerling MC, Bortz CA, Alas H, Brown AE, Woo D, Vasquez-Montes D, Ayres EW, Diebo BG, Maglaras C, Janjua MB, Buckland AJ, Fischer CR, Protosaltis TS, Passias PG. *J Clin Neurosci*. 2019;67:109-13. PMID: 31213384

**The Impact of Adult Thoracolumbar Spinal Deformities on Standing to Sitting Regional and Segmental Reciprocal Alignment.** Pierce KE, Horn SR, Jain D, Segreto FA, Bortz C, Vasquez-Montes D, Zhou PL, Moon J, Steinmetz L, Varlotta CG, Frangella NJ, Stekas N, Ge DH, Hockley A, Diebo BG, Vira S, Alas H, Brown AE, Lafage R, Lafage V, Schwab FJ, Koller H, Buckland AJ, Gerling MC, Passias PG. *Int J Spine Surg*. 2019;13(4):308-16. PMID: 31531280

**What Is the Price and Claimed Efficacy of Platelet-Rich Plasma Injections for the Treatment of Knee Osteoarthritis in the United States?** Piuze NS, Ng M, Kantor A, Ng K, Kha S, Mont MA, Muschler GF. *J Knee Surg.* 2019;32(9):879-85. PMID: 30189436

**Traumatic Fracture of the Pediatric Cervical Spine: Etiology, Epidemiology, Concurrent Injuries, and an Analysis of Perioperative Outcomes Using the Kids' Inpatient Database.** Poorman GW, Segreto FA, Beaubrun BM, Jalai CM, Horn SR, Bortz CA, Diebo BG, Vira S, Bono OJ, DE LA Garza-Ramos R, Moon JY, Wang C, Hirsch BP, Tishelman JC, Zhou PL, Gerling M, Passias PG. *Int J Spine Surg.* 2019;13(1):68-78. PMID: 30805288

**"Is There a Doctor on Board?" The Plight of the In-Flight Orthopaedic Surgeon.** Scollan JP, Lee SY, Shah NV, Diebo BG, Paulino CB, Naziri Q. *JBSJ Rev.* 2019;7(8):e3. PMID: 31389850

**Recovery Kinetics: Comparison of Patients Undergoing Primary or Revision Procedures for Adult Cervical Deformity Using a Novel Area Under the Curve Methodology.** Segreto FA, Lafage V, Lafage R, Smith JS, Line BG, Eastlack RK, Scheer JK, Chou D, Frangella NJ, Horn SR, Bortz CA, Diebo BG, Neuman BJ, Protosaltis TS, Kim HJ, Klineberg EO, Burton DC, Hart RA, Schwab FJ, Bess S, Shaffrey C, Ames CP, Passias PG. *Neurosurgery.* 2019;85(1):E40-e51. PMID: 30272188

**Noncontact sports participation in adolescent idiopathic scoliosis: effects on parent-reported and patient-reported outcomes.** Segreto FA, Messina JC, Doran JP, Walker SE, Aylyarov A, Shah NV, Mixa PJ, Ahmed N, Paltoo K, Opare-Sem K, Kaur H, Day LM, Naziri Q, Paulino CB, Scott CB, Hesham K, Urban WP, Diebo BG. *J Pediatr Orthop B.* 2019;28(4):356-61. PMID: 30489444

**The Influence of Surgical Intervention and Sagittal Alignment on Frailty in Adult Cervical Deformity.** Segreto FA, Passias PG, Brown AE, Horn SR, Bortz CA, Pierce KE, Alas H, Lafage V, Lafage R, Smith JS, Line BG, Diebo BG, Kelly MP, Mundis GM, Protosaltis TS, Soroceanu A, Kim HJ, Klineberg EO, Burton DC, Hart RA, Schwab FJ, Bess S, Shaffrey C, Ames CP. *Oper Neurosurg (Hagerstown).* 2019. PMID: 31701155

**Impact of presenting patient characteristics on surgical complications and morbidity in early onset scoliosis.** Segreto FA, Vasquez-Montes D, Bortz CA, Horn SR, Diebo BG, Vira S, Kelly JJ, Stekas N, Ge DH, Ihejirika YU, Lafage R, Lafage V, Karamitopoulos M, Delsole EM, Hockley A, Petruzzo AM, Buckland AJ, Errico TJ, Gerling MC, Passias PG. *J Clin Neurosci.* 2019;62:105-11. PMID: 30635164

**Spinal Fusion in Parkinson's Disease Patients: A Propensity Score-Matched Analysis With Minimum 2-Year Surveillance.** Shah NV, Beyer GA, Solow M, Liu S, Tarabichi S, Stroud SG, Hollern DA, Bloom LR, Liabaud B, Agarwal S, Passias PG, Paulino CB, Diebo BG. *Spine (Phila Pa 1976).* 2019;44(14):E846-e51. PMID: 30817740

**Comparing Predictors of Complications After Anterior Cervical Discectomy and Fusion, Total Disk Arthroplasty, and Combined Anterior Cervical Discectomy and Fusion-Total Disk Arthroplasty With a Minimum 2-Year Follow-Up.** Shah NV, Jain I, Moattari CR, Beyer GA, Kelly JJ, Hollern DA, Newman JM, Stroud SG, Challier V, Post NH, Lafage R, Passias PG, Schwab FJ, Lafage V, Paulino CB, Diebo BG. *J Am Acad Orthop Surg.* 2019. PMID: 31860582

**Elbow Flexion Reanimation.** Shah NV, Kelly JJ, Patel AM, White CM, Hausman MR, Koehler SM. *JBSJ Rev.* 2019;7(9):e3. PMID: 31503101

**Total hip arthroplasty in Parkinson's disease patients: a propensity score-matched analysis with minimum 2-year surveillance.** Shah NV, Solow M, Lavian JD, Bloom LR, Grieco PW, Stroud SG, Abraham R, Naziri Q, Paulino CB, Maheshwari AV, Diebo BG. *Hip Int.* 2019;1120700019862247. PMID: 31269822

**High-Sensitivity C-Reactive Protein: Retrospective Study of Potential Blood Biomarker of Inflammation in Acute Mild Traumatic Brain Injury.** Shetty T, Cogsil T, Dalal A, Kim E, Halvorsen K, Cummings K, Nguyen JT. *J Head Trauma Rehabil.* 2019;34(3):E28-e36. PMID: 30499931

**A Nationwide Analysis of Preoperative Planning on Operative Times and Postoperative Complications in Total Knee Arthroplasty.** Sodhi N, Anis HK, Coste M, Ehiorobo JO, Chee A, Freund B, Sultan AA, Moskal JT, Scuderi GR, Mont MA. *J Knee Surg.* 2019;32(11):1040-5. PMID: 30786290

**Not all primary total hip arthroplasties are equal-so is there a difference in reimbursement?** Sodhi N, Dalton SE, Garbarino LJ, Gold PA, Piuze NS, Newman JM, Khlopas A, Sultan AA, Chughtai M, Mont MA. *Ann Transl Med.* 2019;7(4):74. PMID: 30963069

**A comparison of relative value units in revision hip versus revision knee arthroplasty.** Sodhi N, Dalton SE, Gold PA, Garbarino LJ, Anis HK, Newman JM, Mahmood B, Khlopas A, Sultan AA, Piuze NS, Mont MA. *J Orthop.* 2019;16(1):45-8. PMID: 30662237

**Comparison of a Posterior versus Anterior Approach for Lumbar Interbody Fusion Surgery Based on Relative Value Units.** Sodhi N, Patel Y, Berger RJ, Newman JM, Anis HK, Ehiorobo JO, Khlopas A, Desai R, Hollern DA, Schwartz JM, Paulino CB, Mont MA. *Surg Technol Int.* 2019;35:363-8. PMID: 31373381

**Patient satisfaction and outcomes of static progressive stretch bracing: a 10-year prospective analysis.** Sodhi N, Yao B, Anis HK, Khlopas A, Sultan AA, Newman JM, Mont MA. *Ann Transl Med.* 2019;7(4):67. PMID: 30963062

**Preoperative Expectations of Patients Undergoing Knee Surgery.** Stevens KN, Nadarajah V, Jauregui JJ, Song X, Medina SH, Smuda MP, Packer JD, Henn RF 3rd. *J Knee Surg.* 2019. PMID: 31639850

**Septic arthritis of the hip and knee treated surgically in pediatric patients: Analysis of the Kids' Inpatient Database.** Tretiakov M, Cautela FS, Walker SE, Dekis JC, Beyer GA, Newman JM, Shah NV, Borrelli J, Shah ST, Gonzales AS 3rd, Cushman JM, Reilly JP, Schwartz JM, Scott CB, Hesham K. *J Orthop.* 2019;16(1):97-100. PMID: 30655655

**Surgical Treatment of Lenke Type 5 Adolescent Idiopathic Scoliosis: A Systematic Review.** Yoshihara H. *Spine (Phila Pa 1976).* 2019;44(13):E788-e99. PMID: 31205175

**Incidence of C5 Palsy: Meta-Analysis and Potential Etiology.** Yoshihara H, Margalit A, Yoneoka D. *World Neurosurg.* 2019;122:e828-e37. PMID: 30391764

**Klippel-Feil: A constellation of diagnoses, a contemporary presentation, and recent national trends.** Zhou PL, Poorman GW, Wang C, Pierce KE, Bortz CA, Alas H, Brown AE, Tishelman JC, Janjua MB, Vasquez-Montes D, Moon J, Horn SR, Segreto F, Ihejirika YU, Diebo BG, Passias PG. *J Craniovertebr Junction Spine.* 2019;10(3):133-8. PMID: 31772424

**Current Concepts in the Treatment of Lateral Condyle Fractures in Children.** Abzug JM, Dua K, Kozin SH, Herman MJ. *J Am Acad Orthop Surg.* 2020;28(1):e9-e19. PMID: 31268870

**Pelvic Compensation in Sagittal Malalignment: How Much Retroversion Can the Pelvis Accommodate?** Beyer G, Khalife M, Lafage R, Yang J, Elysee J, Frangella N, Steinmetz L, Ge D, Varlotta C, Stekas N, Manning J, Protosaltis T, Passias P, Buckland A, Schwab F, Lafage V. *Spine (Phila Pa 1976).* 2020;45(4):E203-e9. PMID: 31513105

**Knee synovial fluid complement C3-beta chain levels correlate with clinical symptoms of knee osteoarthritis.** Cheng TH, Yoon SH, Lee P, Dimaculangan D, Vikram Maheshwari A, Zhang M. *Int J Rheum Dis.* 2020. PMID: 31989759

**Restoration of Global Sagittal Alignment After Surgical Correction of Cervical Hyperlordosis in a Patient with Emery-Dreifuss Muscular Dystrophy: A Case Report.** Diebo BG, Shah NV, Messina JC, Naziri Q, Post NH, Riew KD, Paulino CB. *JBSJ Case Connect.* 2020;10(1):e0003. PMID: 31899720

**Surfing-related head injuries presenting to United States emergency departments.** Kozminski BU, Ahmed N, Cautela FS, Shah NV, Shangquan X, Doran JP, Newman JM, Horowitz EH, Gonzales AS 3rd, Lee CJ, Persaud CS, Urban WP, Stickevers SM. *J Orthop.* 2020;19:184-8. PMID: 32025130

**Clinical characteristics associated with depression or anxiety among patients presenting for knee surgery.** La A, Nadarajah V, Jauregui JJ, Shield WP, 3rd, Medina SH, Dubina AG, Meredith SJ, Packer JD, Henn RF 3rd. *J Clin Orthop Trauma.* 2020;11(Suppl 1):S164-s70. PMID: 31992939

**The Transverse Infrapatellar View: A New Ultrasound Technique to Measure Distal Femoral Cartilage Thickness.** Lee SW, Patel J, Van Dien C, Ayutyanont N, Naguib A, Emam M, Kim S. *J Ultrasound Med.* 2020;39(3):463-70. PMID: 31452247

**Patients undergoing shoulder surgery have high preoperative expectations.** Nadarajah V, Stevens KN, Henry L, Jauregui JJ, Smuda MP, Ventimiglia DJ, Gilotra MN, Hasan SA, Henn RF 3rd. *Knee Surg Sports Traumatol Arthrosc.* 2020. PMID: 31912166

**The top 100 classic papers on adolescent idiopathic scoliosis in the past 25 years: a bibliometric analysis of the orthopaedic literature.** Newman JM, Shah NV, Diebo BG, Goldstein AC, Coste M, Varghese JJ, Murray DP, Naziri Q, Paulino CB. *Spine Deform.* 2020;8(1):5-16. PMID: 31981150

**Survivorship and Functional Outcomes of Cementless versus Cemented Total Knee Arthroplasty: A Meta-Analysis.** Newman JM, Sodhi N, Dekis JC, Khlopas A, Piuze NS, Sultan AA, Levin JM, Mont MA. *J Knee Surg.* 2020;33(3):270-8. PMID: 30736055

# PEER-REVIEWED PUBLICATIONS IN 2019-2020

**Predicting the Occurrence of Postoperative Distal Junctional Kyphosis in Cervical Deformity Patients.** Passias PG, Horn SR, Oh C, Lafage R, Lafage V, Smith JS, Line B, Protopsaltis TS, Yagi M, Bortz CA, Segreto FA, Alas H, Diebo BG, Sciubba DM, Kelly MP, Daniels AH, Klineberg EO, Burton DC, Hart RA, Schwab FJ, Bess S, Shaffrey C, Ames CP. Neurosurgery. 2020;86(1):E38-e46. PMID: 31838540

**Fatty infiltration of the cervical extensor musculature, cervical sagittal balance, and clinical outcomes: An analysis of operative adult cervical deformity patients.** Passias PG, Segreto FA, Horn SR, Lafage V, Lafage R, Smith JS, Naessig S, Bortz C, Klineberg EO, Diebo BG, Sciubba DM, Neuman BJ, Hamilton DK, Burton DC, Hart RA, Schwab FJ, Bess S, Shaffrey C, Nunley P, Ames CP; International Spine Study Group. J Clin Neurosci. 2020;72:134-41. PMID: 31926664

**Operative fusion of patients with metabolic syndrome increases risk for perioperative complications.** Pierce KE, Kapadia BH, Bortz C, Brown A, Alas H, Naessig S, Ahmad W, Vasquez-Montes D, Manning J, Wang E, Maglaras C, Raman T, Protopsaltis TS, Buckland AJ, Passias PG. J Clin Neurosci. 2020;72:142-5. PMID: 31899085

**Incidence of Acute, Progressive, and Delayed Proximal Junctional Kyphosis Over an 8-Year Period in Adult Spinal Deformity Patients.** Segreto FA, Passias PG, Lafage R, Lafage V, Smith JS, Line BG, Mundis GM5, Bortz CA, Stekas ND, Horn SR, Diebo BG, Brown AE, Ihejirika Y, Nunley PD, Daniels AH, Gupta MC, Gum JL, Hamilton DK, Klineberg EO, Burton DC, Hart RA, Schwab FJ, Bess S, Shaffrey C, Ames CP. Oper Neurosurg (Hagerstown). 2020;18(1):75-82. PMID: 31172190

**Treatment of Closed Femoral Shaft Fractures in Children Aged 6 to 10.** Sigrist EJ, George NE, Koder AM, Gwam CU, Etcheson JI, Herman MJ. J Pediatr Orthop. 2020. PMID: 32040064



**AAOS**  
AMERICAN ACADEMY OF  
ORTHOPAEDIC SURGEONS

**2020 Annual Meeting**  
March 24 – 28, Orlando, Florida





---

Department of Orthopaedic Surgery