



# Annual Alumni Newsletter

## AAOS - 2019

SUNY  
DOWNSTATE  
ORTHOPAEDIC SURGERY

### Annual Update 2019

- 1 Welcome
- 2 Annual Summary
- 3 Graduates
- 4 Awards
- 6 Medical Students
- 7 Education
- 8 New Faculty
- 9 Featured Work
- 12 AAOS Podiums
- 14 AAOS Posters
- 16 Publications
- 25 Department News

### Contact US

**William P. Urban, MD**  
Chairman

William.Urban@downstate.edu

**Carl B. Paulino, MD**  
Program Director

Carl.Paulino@downstate.edu

**Yvonne Henny**  
Residency Coordinator  
Yvonne.Henny@downstate.edu

**Neil V. Shah, MD, MS**  
Research Coordinator  
Neil.Shah@downstate.edu

### Letter from the Chairman: **William P. Urban, MD**



It is my pleasure to welcome everyone to our Annual Alumni AAOS Reception. This newsletter became a platform to communicate with graduates of the Downstate Orthopaedic Surgery residency program, a group that exceeds 200 fine surgeons. Our objective is for you to stay involved with the academic activities of the program as we grow and continue our efforts to achieve excellence in orthopaedic care. Our graduates of 2019 have all matched into their top choices for fellowships, and I would like to take this opportunity to congratulate them. The department 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 (P0359) was selected as the **Best Poster in the Spine classification at the 2019 AAOS Annual Meeting**, the 3rd time in the past 5 years (AAOS 2015, Tumor; AAOS 2017, Hand/Wrist). Our research campaign continues its strong performance, as we have **26 studies accepted to AAOS 2019 as podium presentations (11), poster presentations (14), and a scientific exhibit (1)**! Thank you for joining us again this year and welcome to the alumni reception.

### Message from the Program Director: **Carl B. Paulino, MD**



I would like to welcome everyone to the **Annual Alumni AAOS Reception** at the **The Venetian**, Room 1002 on **March 15, 2019 at 6:45 PM**. This year, the program had a strong presence at AAOS with a growing body of research both in quality and quantity. The department 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 75 medical students over the past 2 years. This year alone, the Downstate Orthopaedic Research Laboratory accommodated **70+ Downstate Medical students**, 20+ additional MD and undergrad students, and 5 high school students. We have continued our collaboration with 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. Our goal is to continue this trend and build on our foundation to advance research coming out of Downstate. In the last year, we received 2 AFSH grants, started building a gait and motion analysis registry with the use of our human performance laboratory, and designed and validated the **Dubousset Functional Test**, a novel functional assessment with tremendous potential; read about it soon in *CORR*. Finally, it is my pleasure to share with you that between the two Academies (AAOS 2018 and AAOS 2019), our research has been presented at **more than 25 national and international meetings, with the total podium and poster presentations exceeding 145!** See where our research has been presented:

[illegible]

**USJ** Saint Joseph University  
of Beirut



## Orthopaedic Surgery Graduates: 2019



**Roby Abraham, MD**

Adult Reconstruction  
*Cleveland Clinic Florida*  
Weston, FL



**Neel Pancholi, MD**

Sports Medicine  
*University of Texas at Houston*  
Houston, TX



**Preston W. Grieco, MD**

Adult Reconstruction  
*Cleveland Clinic Florida*  
Weston, FL



**Robert Pivec, MD**

Adult Reconstruction  
*Rothman Institute*  
Philadelphia, PA



**Matthew A. Harb, MD**

Adult Reconstruction  
*University of Virginia*  
Charlottesville, VA



**Sarah E. Walker, MD**

Pediatric Orthopaedics  
*Children's Hospital of Los Angeles*  
Los Angeles, CA



The orthopaedic surgery program had another fantastic fellowship match!

## AAOS 2018 to AAOS 2019: Another *Successful* Year of Research



### Best Poster in Spine

Complications following Thoracolumbar Spinal Surgery for Adult Spinal Deformity in the Setting of Rheumatoid Arthritis with Minimum 2-Year Surveillance

Beyer GA, Shah NV, Scollan JP, Hollern DA, Bloom LR, Passias PG, Paulino CB, Lafage V, Diebo BG

### 2nd Place, Best Poster

Single Versus Multi-Staged Intramedullary Nailing For Synchronous Multiple Long Bone Involvement In Metastatic Bone Disease

Newman JM, Diebo BG, Shah NV, Tretiakov M, Grieco PW, Eldib A, Pivec R, Naziri Q, Maheshwari AV



### Nominee & Top 5 Finalist, John H. Moe Award for Best Basic Science E-Poster

Should Decision Making for Lower Instrumented Vertebra (LIV) Go Beyond Traditional Assessment of Adolescent Idiopathic Scoliosis (AIS) Classification? A Dynamic 3D Gait Assessment of AIS

Diebo BG, Varghese JJ, Shah NV, Kelly JJ, Assi A, Lafage V, Schwab FJ, Paulino CB

### Nominee & Top 5 Finalist, Hibbs Clinical Research Award

The Use of Tranexamic Acid in Adult Spinal Deformity: Is There an Optimal Dosing Strategy?

Raman T, Zhou PL, Vasquez-Montes D, Moon J, Buckland AJ, Errico TJ



*Brooklyn Orthopaedic Society*

### 1st Place

Eliminating Opioid Use for Postoperative Pain Management following Soft Tissue Surgery Produces Acceptable Outcomes When Performed Using Wide Awake Local Anesthesia No Tourniquet (WALANT)

Choueka D, Shah NV, Cautela FS, Newman JM, Koehler SM

### 3rd Place

Comparing Complications after Adult Spinal Deformity Surgery between patients Based on Opioid Dependency Pre- and Postoperatively

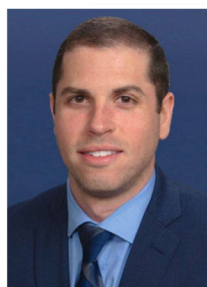
Diebo BG, Beyer GA, Shah NV, Murray DP, Newman JM, Passias PG, Lafage V, Schwab FJ, Paulino CB



## AAOS 2018 to AAOS 2019: Another **Successful** Year of Research



### 2018 Blue Ribbon Article Award Winners



Jared  
Newman



Roby  
Abraham



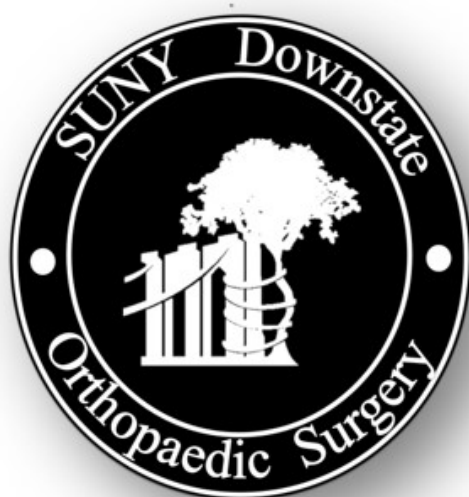
Jason  
Oh

Drs. Newman, Abraham, and Oh were named winners of one of the journal's prestigious honors in 2018, the **Blue Ribbon Article Award**. Their article was published in the September/October 2018 issue of *ORTHOPEDICS*:

#### ***Cementless Total Knee Arthroplasty: A Comprehensive Review of the Literature***

*Jared M. Newman, MD; Nipun Sodhi, BA; Anton Khlopas, MD; Assem A. Sultan, MD; Morad Chughtai, MD; Roby Abraham, MD; Jason Oh, MD; Robert M. Molloy, MD; Steven F. Harwin, MD, FACS; Michael A. Mont, MD*

About *Orthopedics*: For over 40 years, *Orthopedics* has been the preferred choice of orthopaedic surgeons for clinically relevant information, offering clinically valuable, original articles covering all aspects of adult and pediatric orthopaedic surgery and treatment.



## SUNY Downstate College of Medicine and Orthopaedic Surgery

In the 2018-2019 academic year, here are some of our medical students' achievements:

- More than **70 Downstate COM** medical students are on the team, with over 85 overall medical students!
- Over **75 podiums & posters** at recognized orthopaedic meetings!
- **6 first-author publications** and **29 overall publications!**
- **Presented at Orthopaedic Meetings**
  - *Eastern Orthopaedic Association (EOA) 2018, Amelia Island, Florida*
    - George A. Beyer, MS III
    - David Choueka, MS I
  - *Société Internationale de Chirurgie Orthopédique et de Traumatologie (SICOT) 39th Orthopaedic World Congress, Montréal, Canada*
    - Sarah G. Stroud, MS IV
    - Frank S. Cautela, MS IV



Congratulations to our outgoing senior medical students from the Class of 2019 for matching into the following **Orthopaedic Surgery** residency programs:



**James C. Messina**



**Sarah G. Stroud**



**Frank S. Cautela**



**J. Patrick Connors**



**Joseph P. Scollan**



**Vidushan Nadarajah**





## Resident's Didactics: Academics, Labs, Journal Clubs

Monday	Tuesday	Wednesday	Thursday	Friday
<b>June 18</b> 9 AM – 5 PM Downstate Orientation (Main lobby of the Basic Sciences Building)  <b>Module 3: Microsurgical Suturing Technique (Koehler)</b> Sponsor: <b>synovis</b>	<b>June 19</b> 9 AM – 5 PM Downstate Orientation (Main lobby of the Basic Sciences Building)  <b>Module 6: Traction Techniques</b> Supervision: PGY-4s <b>Time/Location: 5 PM, Research Lab (Room 3-7), Basic Science Building</b>	<b>June 20</b> 9 AM – 11 AM SIUH Orientation (Regina McGinn Center - Diabetes Room)  <b>Module 1: Sterile Technique and Orthopaedic Room Set Up (KCHC)</b> <b>Module 9: Fluoroscopic Knowledge and Skills (KCHC)</b> Supervision: PGY-5s <b>Time/Location: TBD, KCHC OR 8</b>	<b>June 21</b> 7:30 AM Downstate Ortho Department Orientation (Stanley Gordon Library)- wear a suit for photo  <b>Module 15: Basic Arthroplasty Skills (TKA &amp; THA)</b> Supervision: PGY-5s <b>Time/Location: TBD, KCHC Ortho Conference Room</b>	<b>June 22</b> TBD: Maybe Arthromotor Introduction? Maybe Dr. Koehler's Modules 10 and 4?
<b>June 25</b> Brooklyn VA Orientation 8AM – 2 PM (Surgery Conference room, 4-221, 4 East Surgery Corridors)  <b>Module 5: Casting and Splinting: Splints, Casts, and Removal (Hesham)</b> Supervision: All available residents <b>Time/Location: 4:30-7:30 PM, KCHC Casting Room (Ground Floor, C-building)</b>	<b>June 26</b> <b>Module 11: Techniques Basic to Internal Fixation of Fractures</b> <b>Module 12: Principles and Techniques of Fracture Reduction</b> <b>Module 13: Basic Techniques in External Fixation</b> Supervision: Illicit (and any available residents) <b>Time/Location: TBD, At KCHC</b> Sponsor: <b>stryker</b>	<b>June 27</b> <b>Module 10: K-Wire Techniques (Koehler)</b> <b>Module 4: Soft Tissue Handling and Dissection (PGY-5s)</b> Sponsor: maybe <b>stryker</b> <b>Module 2: Suturing and Knot Tying (Paulino)</b> Residents: Any available residents <b>Time/Location: TBD</b>	<b>June 28</b> AM <b>Module 8: Bone Handling Techniques - Osteotomy (Hesham)</b> Sponsor: <b>OrthoPediatrics</b> PM <b>Module 7: Compartment Syndrome: Diagnosis and Treatment (Tsai)</b> <b>stryker</b> Residents: Any available residents <b>Time/Location: TBD</b>	<b>June 29</b> Fluoro Training Certificate 10 AM – 12 PM at KCHC (C Building, 3 <sup>rd</sup> floor, Rm C-3120) Quadramed Training 2 PM – 5 PM at KCHC (T Building, 3 <sup>rd</sup> floor, Rm T-302)

This year, the program re-invigorated its dedication to hands-on education for junior residents, instituting the **American Board of Orthopaedic Surgery (ABOS) Surgical Skills Modules** during orientation for PGY-1 interns. This was a great opportunity for senior residents to guide junior and incoming residents through all 17 skills modules! Thank you to the sponsors for donating equipment & supplies, and a special thanks to **our faculty** and the **current PGY-5 class** for running these modules, and thank you to **Dr. Newman (PGY-1)** for helping coordinate and schedule the modules!



### Sawbones Skills Lab

Residents practicing cephalomedullary nail technique, led by trauma attendings & senior residents

### Traction Pinning Lab

Drs. Pivec (PGY5) and Hayden (PGY4) going over traction pinning techniques with the intern class

### Casting Lab

Drs. Bloom and Dekis (PGY4) demonstrating their technique to Drs. Chatterjee (PGY3), Diebo (PGY2), and Day (PGY2)

## Special thanks to:

- **Dr. Robert Pivec** 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 advancements and current techniques are discussed.
- **Faculty, alumni, and staff** from various departments for their contributions.
- Interested in coming back to give a Grand Rounds or Academic Lecture?  
Email: [Yvonne.Henry@downstate.edu](mailto:Yvonne.Henry@downstate.edu)

## Charles Ekstein, MD



Dr. Charles Ekstein is the latest orthopaedic surgeon to join our team. Dr. Ekstein is a fellowship-trained specialist in hand, upper extremity and microsurgery and joined in September 2018. He treats all types of upper extremity musculoskeletal diseases and injuries from the fingertips to the shoulder. A major focus of his practice is upper extremity trauma.

Dr. Ekstein completed his medical degree at Boston University and his orthopaedic surgery residency at Northwell Health – Long Island Jewish Medical Center. Following residency, he completed a fellowship in hand and upper extremity surgery at New York's Hospital for Special Surgery. He specializes in the evaluation and treatment of all conditions related to the fingers, hand, wrist, forearm, elbow, and shoulder. This includes sports- and work-related injuries, degenerative and rheumatoid arthritis conditions, nerve compression syndromes, and traumatic reconstruction. He cares for upper extremity issues in patients of all ages, and has multiple publications to his name. He was also the recipient of the Stanley E. Asnis MD Clinical Excellence Award.

## Colin Y.L. Woon, MD



Dr. Colin Y.L. Woon joined our department in September 2018 as an Adult Reconstruction and Joint Replacement surgeon. Dr. Woon specializes in all aspects of adult reconstruction, including primary total hip and knee arthroplasty, revision and complex joint reconstructive procedures, fracture management, and periprosthetic joint complications. Dr. Woon arrives with a strong background in research, with his current efforts focused on novel solutions to common arthroplasty-related problems, arthroplasty complications, and orthopaedic implant and device development. He has over 45 peer-reviewed publications, countless orthopaedic meeting presentations, several musculoskeletal-related patents, and is a peer-reviewer for Journal of Arthroplasty and 8 more journals. He has multiple ongoing clinical and basic science

research studies. Dr. Woon received his medical degree from the National University of Singapore, followed by his residency in orthopaedic surgery at the University of Illinois at Chicago. Following residency, he completed his fellowship in Adult Reconstruction and Joint Replacement at New York's prestigious Hospital for Special Surgery.

## Downstate Faculty in the News - Steven Koehler, MD

Dr. Koehler is now performing **Wide Awake Local Anesthetic No Tourniquet (WALANT)** procedures in the E-building. He is the only reconstructive microsurgeon in Brooklyn and one of the few brachial plexus surgeons in the Tri-State Area. He performs Targeted Muscle Reinnervation for amputees and is one of the few surgeons on the East Coast performing toe-to-hand transplantation.

"A new speedy, surgical hand surgery is being compared to a trip to the dentist." At NYC Health+Hospitals/Kings County, Dr. Steven M. Koehler performs the procedure while the patient was wide awake.





## SUNY Downstate is Leading the Way Towards **Dynamic Functional Assessment**

The Dubousset Functional Test (DFT),  
proposed by Dr. Jean Dubousset



### Clinical Orthopaedics and Related Research®

Balance is an active process that requires harmony between posture and motion, and this is imperfectly represented by static radiographs alone. Our current understanding of how surgical deformity correction impacts functional mobility and daily activities of our patients is incomplete; it is only assessed through quality-of-life measures without a more objective and quantified tool. Building on our work in *gait analysis*, **SUNY Downstate** is the **first center** to establish normative reference data in asymptomatic subjects for a novel, multi-domain physical function and balance assessment, the **Dubousset Functional Test (DFT)**. Demonstrating its feasibility and safety, this work was recently accepted to *Clinical Orthopaedics and Related Research (CORR)*, and multi-center validation in a population of spine pathology patients is under way at SUNY Downstate, Hospital for Special Surgery, and Clinique Francheville in Périgueux.

FROM STATIC SPINAL ALIGNMENT TO  
DYNAMIC BODY BALANCE: UTILIZING MOTION  
ANALYSIS IN SPINAL DEFORMITY SURGERY



Bassel G. Diebo, MD  
Neil V. Shah, MD, MS  
Robert Pivec, MD  
Qais Naziri, MD, MBA  
Ashish Patel, MD  
Nicholas H. Post, MD  
Ayman Assi, PhD  
Ellen M. Godwin, PT, PhD, PCS  
Virginie Lafage, PhD  
Frank J. Schwab, MD  
Carl B. Paulino, MD

Investigation performed at the  
Department of Orthopaedic Surgery  
and Rehabilitation Medicine, State  
University of New York (SUNY)  
Downstate Medical Center,  
Brooklyn, New York

## Two Years, Two **American Foundation for Surgery of the Hand (AFSH)** Fast Track Grants



### Karan Dua, MD (PGY3)

2017 Grant Recipient

*A Pilot Study: Does Nerve Wrapping Prevent Neural Adhesions and Permit Nerve Gliding?*

*We sought to determine the efficacy of various anti-adhesive techniques via a peak force model to quantify nerve gliding and adhesion to surrounding tissue. The proposed project tests our hypothesis that nerve wraps decrease the adhesiveness of nerves to surrounding tissue through decreased contact and reduced fibroblast collagen formation after transection and repair.*



### Daniel M. Zuchelli, MD (PGY1)

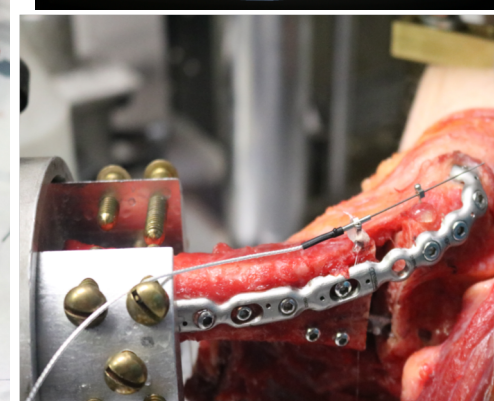
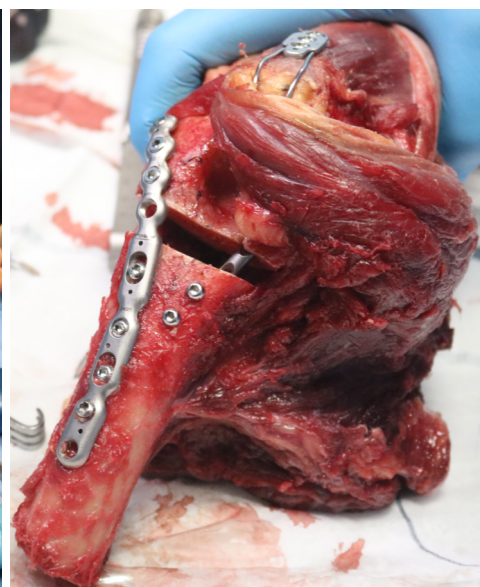
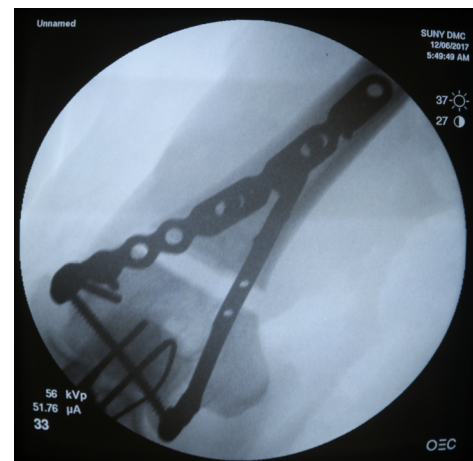
2018 Grant Recipient

*Does Compressive Neuropathy Lead to an Increase in Fracture Risk?*

*This study proposes to assess the effects of compressive neuropathy on bone. Using a rabbit sciatic nerve model, our research team will aim to examine the downstream macroscopic and microscopic changes in the bony architecture.*

## Downstate Orthopaedics is the **Primary Trial Site for a Novel Implant**

*Dr. Steven M. Koehler* is leading two studies that evaluate a new implant for distal humerus fracture fixation. **SUNY Downstate** was selected as the sole testing facility for the biomechanical validation/testing and will also serve as the lead site in a multi-center clinical trial in concert with **Duke University, Massachusetts General Hospital**, and the **Hellenic Airforce General Hospital** in **Athens, Greece**.



## **Developing the HAND-Q:** SUNY Downstate One of a Few USA Phase II Sites

# 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 (PRO) 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*.







## Tuesday, March 12th

### Pelvic Incidence Affects Age-Adjusted Alignment Outcomes in a Population of Adult Spinal Deformity

Passias, Bortz, Segreto, Horn, Diebo, Paulino, Ihejirika, Gerling, Errico

**Paper 053: 8:54AM, Room: 4303**

### Recovery Kinetics following Spinal Deformity Correction: A Comparison of Isolated Cervical, Thoracolumbar, and Combined Deformity Morphometries

Passias, Segreto, R. Lafage, V. Lafage, Smith, Line, Scheer, Bortz, Horn, Mundis, Hamilton, Kim, Diebo, Gupta, Klineberg, Burton, Hart, Schwab, Shaffrey, Ames, Bess, International Spine Study Group (ISSG)

**Paper 056: 9:18 AM, Room: 4303**

### Comparing Predictors of Complications following Anterior Cervical Discectomy and Fusion (ACDF), Total Disc Replacement (TDR), and Combined ACDF-TDR with Minimum Two-Year Follow-Up

Shah, Jain, Moattari, Connors, Beyer, Kelly, Stroud, Newman, Hollern, Challier, Post, R. Lafage, Passias, Schwab, V. Lafage, Diebo, Paulino

**Paper 230: 4:30 PM, Room: Palazzo Ballroom J**

## Wednesday, March 13th

### Complication Risk in Primary and Revision Minimally Invasive Lumbar Interbody Fusion: A Comparable

Bortz, Horn, Segreto, Morton, Diebo, R. Lafage, V. Lafage, Gerling, Passias

**Paper 329: 11:06 AM, Palazzo Ballroom J**

### Diminishing Clinical Returns of Multilevel Minimally Invasive Lumbar Interbody Fusion

Passias, Bortz, Horn, Segreto, Shenoy, Diebo, R. Lafage, Buckland, Gerling

**Paper 336: 12:00 PM, Palazzo Ballroom J**

### A Comparison of Relative Value Units in Revision Hip versus Revision Knee Arthroplasty

Sodhi, Gold, Garbarino, Dalton, Mahmood, Newman, Sultan, Piuizzi, Mont

**Paper 373: 3:06 PM, Room 4401**





## Thursday, March 14th

**Hospital-Acquired Conditions Occur More Frequently in Elective Spine Surgery than for other Common Elective Surgical Procedures**

Passias, Horn, Segreto, Bortz, Shepard, Vira, Diebo, R. Lafage, V. Lafage

**Paper 547: 8:48 AM, Room 4303**

**Changes in Health Related Quality of Life Measures Associated with Degree of Proximal Junctional Kyphosis**

Passias, Frangella, R. Lafage, V. Lafage, Smith, Diebo, Line, Hamilton, Soroceanu, Nunley, Gupta, Kebaish, Segreto, Bortz, Horn, Burton, Hart, Ames, Bess, Shaffrey, Schwab, International Spine Study Group (ISSG)

**Paper 619: 1:30 PM, Palazzo Ballroom J**

**Reciprocal Changes of Mild and Severe Cases of Proximal Junctional Kyphosis After Lumbo-pelvic Spinal Fusions**

Passias, Frangella, R. Lafage, V. Lafage, Smith, Line, Hamilton, Diebo, Kebaish, Segreto, Horn, Bortz, Soroceanu, Gum, Gupta, Klineberg, Burton, Hart, Ames, Bess, Shaffrey, Schwab, International Spine Study Group (ISSG)

**Paper 628: 2:42 PM, Palazzo Ballroom J**

**Is Frailty responsive to Surgical Correction of Adult Spinal Deformity? An Investigation of Sagittal Re-alignment and Component Drivers of Postoperative Frailty Status**

Passias, Segreto, R. Lafage, Smith, Line, Uribe, Diebo, Hamilton, Bortz, Horn, Eastlack, Gum, Gupta, Klineberg, Burton, Hart, Bess, Shaffrey, Ames, V. Lafage, International Spine Study Group (ISSG)

**Paper 633: 3:18 PM, Palazzo Ballroom J**

## Friday, March 15th

**Complications following Thoracolumbar Spinal Surgery for Adult Spinal Deformity in the Setting of Rheumatoid Arthritis with Minimum 2-Year Surveillance**

Beyer, Shah, Scollan, Hollern, Bloom, Passias, V. Lafage, Diebo, Paulino

**Best Poster, Spine Category: 7:00 AM, Academy Hall, Venetian Ballroom**

**Can Aspirin be Safely Used as a Venous Thromboembolism (VTE) Prophylaxis in Sickle Cell Patients Who Undergo Total Hip and Knee Arthroplasties?**

Newman, Chee, Barnett, Shah, Grieco, Harb, Murtaugh, Rathod, Maheshwari

**Paper 701: 8:54 AM, Palazzo Ballroom J**



**AAOS 2019 Annual Meeting**  
March 12 – 16, Las Vegas, Nevada

**AAOS**  
AMERICAN ACADEMY OF  
ORTHOPAEDIC SURGEONS

## AAOS Poster Session I: Tue-Wed

Operative Time, Length of Stay, Short-Term Readmission, and Complications after Hinged Primary Total Knee Arthroplasty: A Propensity Score Matched Analysis

Sodhi, George, Anis, Sultan, Newman, Khlopa, Moskal, Higuera, Mont

P 0077

Characterizing the Preoperative Profile and Short-Term Outcomes of Pediatric Patients Undergoing Surgical Correction for Congenital Hand Disorders: A Pediatric National Analysis from 2012-2016

Shah, Connors, Coste, Parmar, White, Newman, Davidson, Koehler

P 0180

Complications following Thoracolumbar Spinal Surgery for Adult Spinal Deformity in the Setting of Rheumatoid Arthritis with Minimum 2-Year Surveillance

Beyer, Shah, Scollan, Hollern, Bloom, Passias, Diebo, Paulino, Lafage

**Best Poster, Spine Category: Fri 7:00 AM, Academy Hall, Venetian Ballroom**

P 0359

Quantitative Age-Adjusted Targets for Ideal Cervicothoracic Sagittal Alignment in Asymptomatic Adults

Passias, Bortz, Vasquez-Montes, Segreto, Horn, Moses, Paulino, Diebo, Errico

**Poster Tour: Wed 3/13, 8:30 to 9:30 AM**

P 0378

Malnutrition Increases the 30-Day Postoperative Complications after Proximal Humerus Fracture Surgical Fixation

Newman, Cautela, Coste, Beyer, Khlopa, Kurowicki, Hayden, Pivec, Illical

P 0499

## AAOS Poster Session II: Thu-Sat

Simultaneous Bilateral versus Unilateral Total Knee Arthroplasty: An Analysis of the American College of Surgeons National Surgical Quality Improvement Program from 2008 to 2016

Newman, Grieco, Abraham, Naziri, Sodhi, Desai, Maheshwari, Higuera, Mont

P 0611

Increased Knee Range of Motion and Postoperative Function with Metal-on-Polyethylene Relative to All-Cement Molded Articulating Spacers

George, Gwam, Etcheson, Mohamed, Castrodad, Tarazi, Mistry, Nace, Delanois

P 0644

Malnutrition Increases the Thirty-Day Postoperative Complications after Distal Radius Fracture Surgical Fixation

Yang, Newman, Cautela, Chee, Coste, Khlopa, Shah, Dua, Koehler

P 0685

Results of Total Femoral Replacement in Primary vs. Revision Reconstruction; A Multicenter Study Investigating Survivorship, Clinical Outcomes, and Complications

Sultan, Yakoub, Newman, Piuze, Samuel, Krebs, Molloy, Malkani, Buttar, Delanois, Boland, Healey, Mont

P 0705

Predictive Patient Factors for Developing Postoperative Dysphagia following Anterior Cervical Discectomy and Fusion

Diebo, Shah, Beyer, Kelly, Cautela, Newman, Messina, Hollern, Lafage, Post, Schwab, Lafage, Paulino

P 0862



## AAOS Poster Session II: Thu-Sat

### Is Chronic Kidney Disease Associated with Postoperative Complications after Spinal Fusion Surgery?

Beyer, Weng, Shah, Newman, Cautela, Bustamante, Hariri, Pascal, Lafage, Schwab, Lafage, Diebo, Paulino

**P 0863**

### The Impact of Preoperative Cannabis Use on Outcomes Following Cervical Spinal Fusion: A Propensity Score-Matched Analysis

Shah, Moattari, Lavian, Beyer, Passias, Lafage, Kim, Paulino, Schwab, Diebo, Lafage

**P 0869**

### Comparing Short-Term Complications Between Anterior Cervical Discectomy and Fusion and Cervical Total Disc Replacement: A National Analysis from 2011 to 2016

Shah, Connors, Coste, Murray, Newman, Naziri, Chughtai, Hollern, Passias, Diebo, Paulino

**P 0881**

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

Segreto, Bortz, Horn, Baker, Kuprys, Gotlin, Diebo, Paulino, Passias

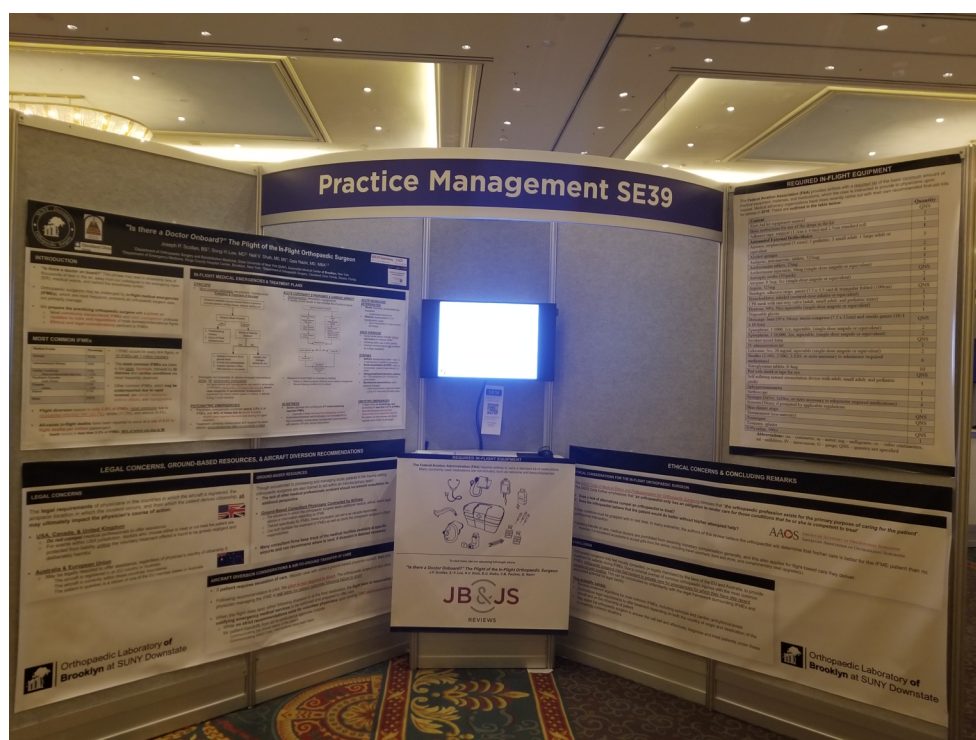
**P 0999**

## AAOS Scientific Exhibit

### "Is there a Doctor Onboard?" The Plight of the In-Flight Orthopaedic Surgeon

Scollan, Lee, Shah, Naziri

**SE 39**



## 2019 to Present

[The Dubousset Functional Test: A Baseline Analysis of a Novel, Multi-Domain 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  
Accepted, In Production

[Elbow Flexion Reanimation.](#)

Shah NV, Kelly JJ, Patel AM, White CM, Hausman MR, Koehler SM.  
JBJS Rev  
Accepted, In Production.

[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  
Accepted, In Production

["Is there a Doctor Onboard?" The Plight of the In-Flight Orthopaedic Surgeon.](#)

Scollan JP, Lee S-Y, Shah NV, Diebo BG, Paulino CB, Naziri Q.  
JBJS Rev  
Accepted, In Production

[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  
Accepted, In Production

[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 Feb 6.  
PMID: 30817740

[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 Feb;122:e754-e758.  
PMID: 30391609

[Survivorship and Functional Outcomes of Cementless vs. 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. 2019 Feb 8.  
PMID: 30736055

[Septic Arthritis of the Hip and Knee 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, Cushman JM, Reilly JP, Schwartz JM, Scott CB, Hesham K.  
J Orthop. 2019 Jan 4;16(1):97-100.  
PMID: 30655655

[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 Jan;59:248-253.  
PMID: 30279119

[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 Jan;7(1):100-106.  
PMID: 30587300

[Day of Admission is Associated With Variation in Geriatric Hip Fracture Care.](#)

Boylan MR, Riesgo AM, Paulino CB, Tejawani NC.  
J Am Acad Orthop Surg. 2019 Jan 1;27(1):e33-e40  
PMID: 30247307

[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, Petrizzo AM, Buckland AJ, Errico TJ, Gerling MC, Passias PG.  
J Clin Neurosci. 2019 Jan 8. pii: S0967-5868(18)31340-7.  
PMID: 30635164



## 2019 to Present

[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, Wiedenhöfer B, Schwab F, Lafage V, Akbar M.

BMC Surg. 2019 Jan 15;19(1):7.

PMID: 30646880

[Measurement of Spinopelvic Angles on Prone Intraoperative Long-Cassette Lateral Radiographs Predicts Postoperative Standing Global Alignment in Adult Spinal Deformity Surgery.](#)

Oren JH, Tishelman JC, Day LM, Baker JF, Foster N, Ramchandran S, Jalai C, Poorman G, Cassilly R, Buckland A, Passias PG, Bess S, Errico TJ, Protopsaltis TS.

Spine Deform. 2019 Mar;7(2):325-330.

PMID: 30660229

[Use of Gabapentin in Posterior Spinal Fusion is Associated With Decreased Postoperative Pain and Opioid Use in Children and Adolescents.](#)

Trzcinski S, Rosenberg RE, Vasquez Montes D, Sure A, Zhou P, Tishelman J, Mansky R, McLeod L, Tracy J, Buckland AJ, Errico TJ.

Clin Spine Surg. 2019 Jan 25.

PMID: 30688677

[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 Feb 22;13(1):68-78.

PMID: 30805288

[Impact 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 CI, Lafage V, Lafage R, Schwab F, Bess S, Ames C, Hart R, Soroceanu A, Mundis G, Eastlack R; International Spine Study Group (ISSG).

World Neurosurg. 2019 Feb 18. pii: S1878-8750(19)30364-X.

PMID: 30790725

## 2018

[From Static Spinal Alignment to Dynamic Body Balance: Utilizing Motion Analysis in Spinal Deformity Surgery.](#)

Diebo BG, Shah NV, Pivec R, Naziri Q, Patel A, Post NH, Assi A, Godwin EM, Lafage V, Schwab FJ, Paulino CB.

JBJS Rev. 2018 Jul 10.

PMID: 29994800

[Realignment surgery in adult spinal deformity: Prevalence and risk factors for proximal junctional kyphosis.](#)

Diebo BG, Shah NV, Stroud SG, Paulino CB, Schwab FJ, Lafage V.

Orthopäde. 2018 Apr;47(4):301-309.

PMID: 29445843

[Treatment of Adolescent Idiopathic Scoliosis and Evaluation of the Adolescent Patient.](#)

Kelly JJ, Shah NV, Freetly TJ, Dekis JC, Hariri OK, Walker SE, Borrelli J, Post NH, Diebo BG, Urban WP, Paulino CB.

Current Orthopaedic Practice: Sep/Oct 2018; 29(5): 424-9.

doi: 10.1097/BCO.0000000000000675.

[Adult Cervical Deformity: Radiographic and Osteotomy Classifications.](#)

Diebo BG, Shah NV, Solow M, Challier V, Paulino CB, Passias PG, Lafage R, Schwab FJ, Kim HJ, Lafage V.

Orthopäde. 2018 Jun 7.

PMID: 29881915

[Motion Analysis in the Axial Plane after Realignment Surgery for Adolescent Idiopathic Scoliosis.](#)

Patel A, Pivec R, Shah NV, Leven D, Margalit A, Day LM, Godwin E, Lafage V, Post NH, Yoshihara H, Diebo BG, Paulino CB.

Gait Posture. 2018 Oct;66:181-188.

PMID: 30195821

[Complications in Patients Undergoing Spinal Fusion Surgery After THA.](#)

Diebo BG, Beyer GA, Grieco P, Liu S, Day LM, Abraham R, Naziri Q, Passias PG, Maheshwari AV, Paulino CB.

Clin Orthop Relat Res. 2018 Feb;476(2):412-417.

PMID: 29389793

## 2018

### Demographics and Rates of Surgical Arthroscopy and Postoperative Rehabilitative Preferences of Arthroscopists from the Arthroscopy Association of North America (AANA).

Shah NV, Solow M, Kelly JJ, Aylyarov A, Doran JP, Bloom LR, Akil S, Siddiqui B, Chatterjee D, Pancholi N, Dixit A, Newman JM, Kavousi B, Barbash SE, Urban WP, Neuman DT.  
J Orthop. 2018 May 7;15(2):591-595.  
PMID: 29881200

### The Impact of Comorbid Mental Health Disorders on Complications Following Adult Spinal Deformity Surgery with Minimum 2-Year Surveillance.

Diebo BG, Lavian JD, Murray DP, Liu S, Shah NV, Beyer GA, Segreto FA, Bloom L, Vasquez-Montes D, Day LM, Hollern DA, Horn SR, Naziri Q, Cukor D, Passias PG, Paulino CB.  
Spine (Phila Pa 1976). 2018 Sep 1;43(17):1176-1183.  
PMID: 29419714

### The Impact of Comorbid Mental Health Disorders on Complications Following Cervical Spine Surgery with Minimum 2-Year Surveillance.

Diebo BG, Lavian JD, Liu S, Shah NV, Murray DP, Beyer GA, Segreto FA, Maffucci F, Poorman GW, Cherkalin D, Torre B, Vasquez-Montes D, Yoshihara H, Cukor D, Naziri Q, Passias PG, Paulino CB.  
Spine (Phila Pa 1976). 2018 Mar 23.  
PMID: 29579013

### The Outcomes of Posterior Arthrodesis for Atlantoaxial Subluxation in Down Syndrome Patients: A Meta-Analysis.

Scollan JP, Alhammoud A, Tretiakov M, Hollern DA, Bloom L, Shah NV, Naziri Q, Diebo BG, Yoshihara H, Scott CB, Hesham K, Paulino CB.  
Clin Spine Surg. 2018 May 25.  
PMID: 29847415

### Bilateral painful foot masses. Bilateral hypertrophy of extensor digitorum brevis (EDB).

Shah NV, Ahmed N, Baghel P, Kolla SR, Maheshwari AV.  
Skeletal Radiol. 2018 Oct;47(10):1419-1421, 1461-2.  
PMID: 29717328

### The Risks of Hepatitis C in Association with Cervical Spinal Surgery: Analysis of Radiculopathy and Myelopathy Patients.

Lavian JD, Murray DP, Hollern DA, Bloom L, Shah NV, Gewolb D, Segreto FA, Powell S, Messina J, Naziri Q, Yoshihara H, Paulino CB, Diebo BG.  
Clin Spine Surg. 2018 Mar;31(2):86-92.  
PMID: 29293101

### Comparing Psychological Burden of Orthopaedic Diseases Against Medical Conditions: Investigation on Hospital Course of Hip, Knee, and Spine Surgery Patients.

Diebo BG, Cherkalin D, Jalai CM, Shah NV, Poorman GW, Beyer GA, Segreto F, Lafage V, Naziri Q, Newman JM, Urban WP, Errico TJ, Schwab FJ, Paulino CB, Passias PG.  
J Orthop. 2018 Feb 21;15(2):297-301.  
PMID: 29556113

### Noncontact sports participation in adolescent idiopathic scoliosis: effects on parent-reported and patient-reported outcomes.

Segreto FA, Messina J, 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. 2018 Nov 26.  
PMID: 30489444

### Cytogenetic Single-Institution Analysis: 101 Consecutive Cases of Soft-Tissue Tumors of the Extremities.

Maheshwari AV, Shah NV, Newman JM, Freetly TJ, Henshaw RM.  
J Long Term Eff Med Implants. 2018;28(2):87-99.  
PMID: 30317958

### Trends of Snowboarding-Related Fractures that Presented to Emergency Departments in the United States, 2010 to 2016.

Seleznev A, Shah NV, Desai R, Le C, Cleary P, Naziri Q, Basu NN, Freeman BJ, Urban WP, Newman JM.  
Ann Transl Med. 2018 Jun;6(11):200.  
PMID: 30023363

### Biologic Therapies as Adjunctive Treatments in Rotator Cuff Repair.

Mistry J, Henn RF, Etcheson JI, Gwam CU, George NE, Delanois RE.  
JBJS Rev. 2018 Jul 5.  
PMID: 29979232



## 2018

### [Blood conservation techniques in scoliosis surgery.](#)

Chevinsky J, Yoshihara H.

Current Orthopaedic Practice. Sept/Oct 2018. 29(5):449-51.

doi: 10.1097/BCO.0000000000000670.

### [Intrasubstance Anterior Cruciate Ligament Injuries in the Pediatric Population.](#)

Aylyarov A, Tretiakov M, Walker SE, Scott CB, Hesham K, Maheshwari AV.

Indian J Orthop. 2018 Sep-Oct;52(5):513-521.

PMID: 30237609

### [The Influence of BMI on Achieving Age Adjusted Alignment Goals in Adult Spinal Deformity Corrective Surgery with Full Body Analysis at 1 Year.](#)

Horn SR, Segreto FA, Ramchandran S, Poorman GR, Sure A, Marascalachi B, Bortz CA, Varlotta CG, Tishelman J, Vasquez-Montes D, Ihejirika Y, Zhou P, Moon J, Lafage R, Diebo BG, Vira S, Jalai CM, Wang C, Shenoy K, Errico T, Lafage V, Buckland A, Passias PG.

World Neurosurg. 2018 Aug 27. pii: S1878-8750(18)31906-5.

PMID: 30165222

### [The Safety and Benefits of the Semisterile Technique for Closed Reduction and Percutaneous Pinning of Pediatric Upper Extremity Fractures.](#)

Dua K, Blevins CJ, O'Hara NN, Abzug JM.

Hand (N Y). 2018 Jul 1;1558944718787310

PMID: 29998759

### [Value proposition of robotic total knee arthroplasty: what can robotic technology deliver in 2018 and beyond?](#)

Mont MA, Khlopas A, Chughtai M, Newman JM, Deren M, Sultan AA.

Expert Rev Med Devices. 2018 Aug 22.

PMID: 30134738

### [Bilateral Spontaneous Quadriceps Tendon Ruptures after Staged Bilateral Total Knee Arthroplasties: A Case Report.](#)

Coste M, Newman JM, Shah NV, Eldib AM, Grieco PW, Maheshwari AV.

J Long Term Eff Med Implants. 2018;28(1):63-71.

PMID: 29772995

### [\[Normal sagittal profile of the cervical spine - must the cervical spine always be lordotic?\].](#)

Akbar M, Almansour H, Diebo B, Adler D, Pepke W, Richter M.

Orthopäde. 2018 May 30.

PMID: 29846744

### [A Comparison of Relative Value Units in Primary Versus Revision Total Knee Arthroplasty.](#)

Peterson J, Sodhi N, Khlopas A, Piuze NS, Newman JM, Sultan AA, Stearns KL, Mont MA.

J Arthroplasty. 2018 Jul;33(7S):S39-S42.

PMID: 29276122

### [A Systematic Review and Meta-Analysis of Procalcitonin as a Marker of Postoperative Orthopedic Infections.](#)

Ingber RB, Alhamoud A, Murray DP, Abraham R, Dixit A, Naziri Q, Ahmed G, Paulino CB, Urban WP, Craig C, Maheshwari AV, Diebo BG.

Orthopedics. 2018 May 1;41(3):e303-e309.

PMID: 29658977

### [A Systematic Review of All Smart Phone Applications Specifically Aimed for Use As a Scoliosis Screening Tool.](#)

Naziri Q, Detolla J, Hayes W, Burekhovich S, Merola A, Akamnanu C, Paulino CB.

J Long Term Eff Med Implants. 2018;28(1):25-30.

PMID: 29772989

### [Adverse Outcomes and Prediction of Cardiopulmonary Complications in Elective Spine Surgery.](#)

Passias PG, Poorman GW, Delsole E, Zhou PL, Horn SR, Jalai CM, Vira S, Diebo B, Lafage V.

Global Spine J. 2018 May;8(3):218-223.

PMID: 29796368

### [After 9 Years of 3-Column Osteotomies, Are We Doing Better? Performance Curve Analysis of 573 Surgeries With 2-Year Follow-up.](#)

Diebo BG, Lafage V, Varghese JJ, Gupta M, Kim HJ, Ames C, Kebaish K, Shaffrey C, Hostin R, Obeid I, Burton D, Hart RA, Lafage R, Schwab FJ.

Neurosurgery. 2018 Jul 1;83(1):69-75.

PMID: 28973410

### [Anatomical Modifications during the Lateral Transpsoas Approach to the Lumbar Spine. The Impact of Vertebral Rotation.](#)

Patel A, Oh J, Leven D, Cautela FS, Chatterjee D, Naziri Q, Langella F, Diebo BG, Paulino CB.

Int J Spine Surg. 2018 Mar 30;12(1):8-14.

PMID: 30280077

### [Are Allogeneic Transfusions Decreasing in Total Knee Arthroplasty Patients? National Inpatient Sample 2009 to 2013.](#)

Mistry JB, Gwam CU, Naziri Q, Pivec R, Abraham R, Mont MA, Delanois RE.

J Arthroplasty. 2018 Jun;33(6):1705-1712.

PMID: 29352682

## 2018

### [Changes in Antibiotic Susceptibility of Staphylococcus aureus between the Stages of Two Stage Revision Arthroplasty.](#)

George J, Newman JM, Klika AK, Miller EM, Tan TL, Parvizi J, Higuera CA.

J Arthroplasty. 2018 Jun;33(6):1844-1849.

PMID: 29502963

### [Characterizing Adult Cervical Deformity and Disability Based on Existing Cervical and Adult Deformity Classification Schemes at Presentation and Following Correction.](#)

Passias PG, Jalai CM, Smith JS, Lafage V, Diebo BG, Protopsaltis T, Poorman G, Ramchandran S, Bess S, Shaffrey CI, Ames CP, Schwab F.

Neurosurgery. 2018 Feb 1;82(2):192-201.

PMID: 28575457

### [Clinically Significant Thromboembolic Disease in Adult Spinal Deformity Surgery: Incidence and Risk Factors in 737 Patients.](#)

Kim HJ, Iyer S, Diebo BG, Kelly MP, Sciubba D, Schwab F, Lafage V, Mundis GM, Shaffrey CI, Smith JS, Hart R, Burton D, Bess S, Klineberg EO; International Spine Study Group (ISSG).

Global Spine J. 2018 May;8(3):224-230.

PMID: 29796369

### [Cluster analysis describes constellations of cardiac anomalies presenting in spinal anomaly patients.](#)

Passias PG, Poorman GW, Vasquez-Montes D, Wang C, Jalai C, Horn SR, Steinmetz LM, Bortz CA, Segreto FA, Moon J, Zhou PL, Diebo BG, Vira S.

Acta Neurochir (Wien). 2018 Jun 28.

PMID: 29956035

### [Combined Labeled Leukocyte and Technetium 99 Sulfur Colloid Bone Marrow Imaging: Differentiating Primary Pyomyositis Pseudotumor from Osteomyelitis and Multiple Bone Infarcts.](#)

Perdue PW, Spitzer AB, Chatterjee D, Kolla S, Maheshwari AV.

J Long Term Eff Med Implants. 2018;28(1):17-24.

PMID: 29772988

### [Developments in the treatment of Chiari type 1 malformations over the past decade.](#)

Passias PG, Pyne A, Horn SR, Poorman GW, Janjua MB, Vasquez-Montes D, Bortz CA, Segreto FA, Frangella NJ, Siow MY, Sure A, Zhou PL, Moon JY, Diebo BG, Vira SN.

J Spine Surg. 2018 Mar;4(1):45-54.

PMID: 29732422

### [Differences in primary and revision deformity surgeries: following 1,063 primary thoracolumbar adult spinal deformity fusions over time.](#)

Poorman GW, Zhou PL, Vasquez-Montes D, Horn S, Bortz C, Segreto F, Auerbach J, Moon JY, Tishelman JC, Gerling MC, Diebo BG, De La Garza-Ramos R, Paul JC, Passias PG.

J Spine Surg. 2018 Jun;4(2):203-210.

PMID: 30069508

### [Full-Body Analysis of Adult Spinal Deformity Patients' Age-Adjusted Alignment at 1 Year.](#)

Passias PG, Horn SR, Frangella NJ, Poorman GW, Vasquez-Montes D, Diebo BG, Bortz CA, Segreto FA, Moon JY, Zhou PL, Vira S, Sure A, Beaubrun B, Tishelman JC,

Ramchandran S, Jalai CM, Bronson W, Wang C, Lafage V, Buckland AJ, Errico TJ.

World Neurosurg. 2018 Jun;114:e775-e784.

PMID: 29555609

### [Guiding Device for the Patellar Cut in Total Knee Arthroplasty: Design and Validation.](#)

Rex EL, Gaudelli C, Illicic EM, Person J, Arlt KCT, Wylant B, Anglin C.

Bioengineering (Basel). 2018 May 10;5(2). pii: E38.

PMID: 29747465

### [Hematologic Malignancies Are Associated with Adverse Perioperative Outcomes following Total Knee Arthroplasty.](#)

Newman JM, Wagner TC, Naziri Q, North WT, Navale SM, Klika AK, Barsoum WK, Higuera CA.

J Knee Surg. 2018 Apr;31(4):291-301.

PMID: 28561155

### [Impact of Intravenous Acetaminophen on Lengths of Stay and Discharge Status after Total Knee Arthroplasty.](#)

Barrington JW, Hansen RN, Lovelace B, Böing EA, Chughtai M, Newman JM, Pham AT, Khlopas A, Sodhi N, Sultan AA, Mont MA.

J Knee Surg. 2018 Mar 7.

PMID: 29514362

### [Improvement in Sleep Quality After Carpal Tunnel Release.](#)

Trouw AG, Patel A, Yang A, Jauregui J, Caligiuri D, Choueka J.

J Long Term Eff Med Implants. 2018;28(1):55-61.

PMID: 29772994

### [Limb Salvage Versus Amputation in Conventional Appendicular Osteosarcoma: a Systematic Review.](#)

Jauregui JJ, Nadarajah V, Munn J, Pivec R, Kapadia BH, Lerman DM, Maheshwari AV.

Indian J Surg Oncol. 2018 Jun;9(2):232-240.

PMID: 29887707



## 2018

**Lumbosacral stress and age may contribute to increased pelvic incidence: an analysis of 1625 adults.**

Bao H, Liabaud B, Varghese J, Lafage R, Diebo BG, Jalai C, Ramchandran S, Poorman G, Errico T, Zhu F, Protopsaltis T, Passias P, Buckland A, Schwab F, Lafage V.

Eur Spine J. 2018 Feb;27(2):482-488.

PMID: 29027007

**Mortality Following Periprosthetic Proximal Femoral Fractures Versus Native Hip Fractures.**

Boylan MR, Riesgo AM, Paulino CB, Slover JD, Zuckerman JD, Ego KA.

J Bone Joint Surg Am. 2018 Apr 4;100(7):578-585.

PMID: 29613927

**Epidemiology and Trends of Weightlifting-Related Sprains and Strains that Presented to Emergency Departments in the United States.**

Burekhovich SA, Newman JM, Shah NV, Onuoha KO, Le C, Persaud CS, Naziri Q, Sodhi N, Chaudhri M, Joseph NS, Basu NN, Urban WP, Zikria BA.

J Long Term Eff Med Implants. 2018;28(2):111-117.

PMID: 30317960

**Outcomes of Revision Joint Arthroplasty Due to Metal Allergy and Hypersensitivity: A Systematic Review.**

Jauregui JJ, Desai SJ, Hodges V, Hariharan A, Newman JM, Adib F, Maheshwari AV.

Surg Technol Int. 2018 Jul 5;33. pii: sti33/1008.

PMID: 29985516

**Trends and Epidemiologic Factors Contributing to Soccer-Related Fractures that Presented to Emergency Departments in the United States.**

Kuczinski A, Newman JM, Piuze NS, Sodhi N, Doran JP, Khlopas A, Beyer GA, Paulino CB, Mont MA.

Sports Health. 2018 Sep 24;1941738118798629.

PMID: 30247999

**Neural perforasomes of the Upper Extremity.**

Koehler SM, Matson AP, Ruch DS, Mithani SK.

Plast Reconstr Surg. 2018 Dec;142(6):1539-1546.

PMID: 30188469

**Cementless Total Knee Arthroplasty: A Comprehensive Review of the Most Current Literature.**

Newman JM, Sodhi N, Khlopas A, Sultan AA, Chughtai M, Abraham R, Oh J, Molloy RM, Harwin SF, Mont MA.

Orthopedics. 2018 Aug 17;1-11.

PMID: 30125035

**ORIF versus arthroplasty for open proximal humerus fractures: Nationwide Inpatient Sample data between 1998 and 2013.**

Dixit A, Cautela FS, Cooper C, Beyer GA, Messina J, Mait JE, Shah NV, Diebo BG, Paulino CB, Urban WP.

J Orthop Traumatol. 2018 Aug 22;19(1):12.

PMID: 30132086

**Vertebral Osteomyelitis: A Comparison of Associated Outcomes in Early versus Delayed Surgical Treatment.**

Segreto FA, Beyer GA, Grieco P, Horn SR, Bortz CA, Jalai CM, Passias PG, Paulino CB, Diebo BG.

Int J Spine Surg. 2018 Dec 21;12(6):703-712.

PMID: 30619674

**Baseline Mental Status Predicts Happy Patients After Operative or Non-Operative Treatment of Adult Spinal Deformity.**

Diebo BG, Segreto FA, Jalai CM, Vasquez-Montes D, Bortz CA, Horn SR, Frangella NJ, Egers MI, Klineberg E, Lafage R, Lafage V, Schwab F, Passias PG, ISSG.

J Spine Surg. 2018 Dec;4(4):687-695.

PMID: 30713999

**Knee dislocation with popliteal artery disruption: A nationwide analysis from 2005 to 2013.**

Naziri Q, Beyer GA, Shah NV, Solow M, Hayden AJ, Nadarajah V, Ho D, Newman JM, Boylan MR, Basu NN, Zikria BA, Urban WP.

J Orthop. 2018 Aug 16;15(3):837-841.

PMID: 30140130

**Are Adverse Outcome Rates Higher in Multiple Sclerosis Patients after Total Hip Arthroplasty?**

Newman JM, Khlopas A, Sodhi N, Curtis GL, Sultan AA, George J, Higuera CA, Mont MA.

Bone Joint J. 2018 Jul;100-B(7):875-881.

PMID: 29954205

**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. 2018 Oct 30.

PMID: 30379657

**Impact of Perioperative HbA1c on Reimbursements in Diabetes Mellitus Patients Undergoing Total Hip Arthroplasty: A Nationwide Analysis.**

Kurowicki J, Rosas S, Khlopas A, Newman JM, Law TY, Roche MW, Higuera CA, Mont MA.

J Arthroplasty. 2018 Jul;33(7):2038-2042.

PMID: 29891083

## 2018

[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. 2018 Nov 17. pii: S0883-5403(18)31144-6.

PMID: 30545653

[Comparison of Implant Survivability in Primary 1 to 2-Level Lumbar Fusion Amongst Opioid Abusers and Non-Opioid Abusers.](#)

Vakharia RM, Donnally CJ, Rush AJ, Vakharia AM, Berglund DD, Shah NV, Wang MY.

J Spine Surg. 2018 Sep;4(3):568-574.

PMID: 30547120

[In-Hospital Outcomes of Patients With Advanced Chronic Kidney Disease, Dialysis, and Kidney Transplant Undergoing Spinal Fusion: Analysis of a Nationwide Database.](#)

Yoshihara H, Yoneoka D.

Clin Spine Surg. 2018 Jul 17.

PMID: 30024446

[Identifying Thoracic Compensation and Predicting Reciprocal Thoracic Kyphosis and PJK in Adult Spinal Deformity Surgery.](#)

Protopsaltis TS, Diebo BG, Lafage R, Henry JK, Smith JS, Scheer JK, Sciubba DM, Passias PG, Kim HJ, Hamilton DK, Soroceanu A, Klineberg EO, Ames CP, Shaffrey CI, Bess S, Hart RA, Schwab FJ, Lafage V; and International Spine Study Group (ISSG).

Spine (Phila Pa 1976). 2018 Aug 9

PMID: 30096125

[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. 2018 Aug 15.

PMID: 30112739

[Interpretation of Spinal Radiographic Parameters in Patients With Transitional Lumbosacral Vertebrae.](#)

Zhou PL, Moon JY, Tishelman JC, Errico TJ, Protopsaltis TS, Passias PG, Buckland AJ.

Spine Deform. 2018 Sep - Oct;6(5):587-592.

PMID: 30122395

[Sagittal alignment of the cervical spine in the setting of adolescent idiopathic scoliosis.](#)

Akbar M, Almansour H, Lafage R, Diebo BG, Wiedenhöfer B, Schwab F, Lafage V, Pepke W.

J Neurosurg Spine. 2018 Aug 24:1-9.

PMID: 30141764

[Operative Time, Length of Stay, Short-Term Readmission, and Complications after Hinged Primary Total Knee Arthroplasty: A Propensity Score Matched Analysis.](#)

Sodhi N, Patel YH, George J, Sultan AA, Anis HK, Newman JM, Kryzak TJ, Khlopas A, Moskal JT, Mont MA.

J Knee Surg. 2018 Nov;31(10):940-945.

PMID: 30157530

[Incidence, trends, and associated risks of developmental hip dysplasia in patients with Early Onset and Adolescent Idiopathic Scoliosis.](#)

Segreto FA, Vasquez-Montes D, Brown AE, Bortz C, Horn SR, Diebo BG, Zhou PL, Vira S, Baker JF, Petrizzo AM, Lafage R, Lafage V, Errico TJ, Passias PG.

J Orthop. 2018 Aug 15;15(3):874-877

PMID: 30166802

[The Influence of Body Mass Index on Achieving Age-Adjusted Alignment Goals in Adult Spinal Deformity Corrective Surgery with Full-Body Analysis at 1 Year.](#)

Horn SR, Segreto FA, Ramchandran S, Poorman GR, Sure A, Marascalachi B, Bortz CA, Varlotta CG, Tishelman J, Vasquez-Montes D, Ihejirika Y, Zhou P, Moon J, Lafage R, Diebo BG, Vira S, Jalai CM, Wang C, Shenoy K, Errico T, Lafage V, Buckland A, Passias PG.

World Neurosurg. 2018 Dec;120:e533-e545.

PMID: 30165222

[Total knee arthroplasty in the face of a previous tuberculosis infection of the knee: what do we know in 2018?](#)

Sultan AA, Cantrell WA, Rose E, Surace P, Samuel LT, Chughtai M, Khlopas A, Newman JM, Moskal JT, Mont MA.

Expert Rev Med Devices. 2018 Sep 11.

PMID: 30203999

[Current Concepts in Talar Neck Fracture Management.](#)

Whitaker C, Turvey B, Illic EM.

Curr Rev Musculoskelet Med. 2018 Sep;11(3):456-474.

PMID: 29974334

## 2018

### 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. 2018 Sep 20. pii: S1529-9430(18)31141-0.

PMID: 30244036

### Epidemiology and national trends in prevalence and surgical management of metastatic spinal disease.

Horn SR, Dhillon ES, Poorman GW, Tishelman JC, Segreto FA, Bortz CA, Moon JY, Behery O, Shepard N, Diebo BG, Vira S, Passias PG.

J Clin Neurosci. 2018 Jul;53:183-187.

PMID: 29681425

### Linear Wear Rates of a Highly Cross-Linked Polyethylene Hip Liner.

Sodhi N, Khlopas A, Sultan AA, Newman JM, Jaggard C, Mont MA, Kolisek F.

Surg Technol Int. 2018 Oct 1;33. pii: sti33/1023.

PMID: 30276781

### Rates of Mortality in Cervical Spine Surgical Procedures and Factors Associated With Its Occurrence Over a 10-Year Period: A Study of 342 477 Patients on the Nationwide Inpatient Sample.

Poorman GW, Moon JY, Horn SR, Jalai C, Zhou PL, Bono O, Passias PG.

Int J Spine Surg. 2018 Aug 3;12(2):276-284.

PMID: 30276085

### 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 CI, Ames CP, Passias PG; International Spine Study Group (ISSG).

Neurosurgery. 2018 Sep 28.

PMID: 30272188

### The impact of mental health on patient-reported outcomes in cervical radiculopathy or myelopathy surgery.

Diebo BG, Tishelman JC, Horn S, Poorman GW, Jalai C, Segreto FA, Bortz CA, Gerling MC, Lafage V, White AP, Mok JM, Cha TD, Eastlack RK, Radcliff KE, Paulino CB, Passias PG.

J Clin Neurosci. 2018 Aug;54:102-108.

PMID: 29907392

### Fatty Infiltration of Cervical Spine Extensor Musculature: Is there a Relationship With Cervical Sagittal Balance?

Passias PG, Segreto FA, Bortz CA, Horn SR, Frangella NJ, Diebo BG, Hockley A, Wang C, Shepard N, Lafage R, Lafage V.

Clin Spine Surg. 2018 Oct 26.

PMID: 30371601

### Arm Pain Versus Neck Pain: A Novel Ratio as a Predictor of Post-Operative Clinical Outcomes in Cervical Radiculopathy Patients.

Passias PG, Hasan S, Radcliff K, Isaacs R, Bianco K, Jalai CM, Poorman GW, Worley NJ, Horn SR, Boniello A, Zhou PL, Arnold PM, Hsieh P, Vaccaro AR, Gerling MC.

Int J Spine Surg. 2018 Oct 15;12(5):629-637.

PMID: 30364823

### 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). 2018 Nov 8.

PMID: 30406870

### Clinical and radiographic presentation and treatment of patients with cervical deformity secondary to thoracolumbar proximal junctional kyphosis are distinct despite achieving similar outcomes: Analysis of 123 prospective CD cases.

Passias PG, Horn SR, Poorman GW, Daniels AH, Hamilton DK, Kim HJ, Diebo BG, Steinmetz L, Bortz CA, Segreto FA, Sciubba DM, Smith JS, Neuman BJ, Shaffrey CI, Lafage R, Lafage V, Ames C, Hart R, Mundis G, Eastlack RK, Schwab FJ, International Spine Study Group (ISSG).

J Clin Neurosci. 2018 Oct;56:121-126.

PMID: 30042069

### Normal values for sagittal spinal alignment: a study of Brazilian subjects.

Pratali RR, Nasreddine MA, Diebo B, Oliveira CEAS, Lafage V.

Clinics (Sao Paulo). 2018 Dec 3;73:e647.

PMID: 30517304



## 2018

[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. 2018 Nov 10. pii: S0967-5868(18)31283-9.  
PMID: 30424970

[Clinical Outcomes After Four-Level Anterior Cervical Discectomy and Fusion.](#)

Kreitz TM, Hollern DA, Padegimas EM, Schroeder GD, Kepler CK, Vaccaro AR, Hilibrand AS.  
Global Spine J. 2018 Dec;8(8):776-783.  
PMID: 30560028

[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. 2018 Sep 7.  
PMID: 30199456

[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, Piuuzzi NS, Mont MA.  
J Orthop. 2018 Dec 20;16(1):45-48.  
PMID: 30662237

[Are We Appropriately Compensated by Relative Value Units for Primary vs Revision Total Hip Arthroplasty?](#)

Sodhi N, Piuuzzi NS, Khlopas A, Newman JM, Kryzak TJ, Stearns KL, Mont MA.  
J Arthroplasty. 2018 Feb;33(2):340-344.  
PMID: 28993077

[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. 2018 Dec 20;16(1):36-40.  
PMID: 30662235

[Lack of Consensus in Physician Recommendations Regarding Return to Driving After Cervical Spine Surgery.](#)

Moses MJ, Tishelman JC, Hasan S, Zhou PL, Zevgaras I, Smith JS, Buckland AJ, Kim Y, Razi A, Protosaltis TS.  
Spine (Phila Pa 1976). 2018 Oct 15;43(20):1411-1417.  
PMID: 29528997

[Interpretation of Spinal Radiographic Parameters in Patients With Transitional Lumbosacral Vertebrae.](#)

Zhou PL, Moon JY, Tishelman JC, Errico TJ, Protosaltis TS, Passias PG, Buckland AJ.  
Spine Deform. 2018 Sep - Oct;6(5):587-592.  
PMID: 30122395

[Clinical Impact and Economic Burden of Hospital-Acquired Conditions Following Common Surgical Procedures.](#)

Horn SR, Liu TC, Horowitz JA, Oh C, Bortz CA, Segreto FA, Vasquez-Montes D, Steinmetz LM, Deflorimonte C, Vira S, Diebo BG, Neuman BJ, Raad M, Sciubba DM, Lafage R, Lafage V, Hassanzadeh H, Passias PG.  
Spine (Phila Pa 1976). 2018 Nov 15;43(22):E1358-E1363.  
PMID: 29794588

## University Orthopaedic Associates New Clinic Location

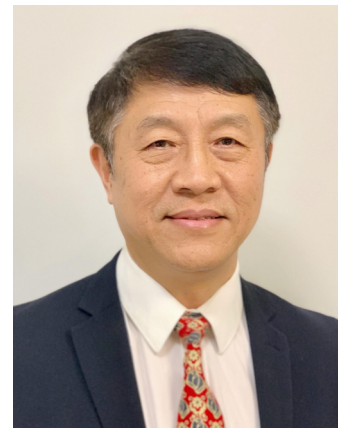
The **UOA** new clinic on **Parkside Avenue** opened in the Summer of 2017 as the new Orthopaedic Surgery and Rehabilitation Medicine clinic site



## Welcome to the Department, Peter Chen

Department News:

**Mr. Peter Chen** is the new **Administrator of the Orthopaedic Surgery Division**. He moved to the SUNY Downstate Medical Center Department of Orthopaedic Surgery from the Surgical Oncology Division at the Rutgers Cancer Institute of New Jersey, where he served as the Director of Administration.



## Alumni Reception at AAOS 2019

**Save the Date March 15, 2019**  
**6:45 to 10:00 PM**

### The Venetian

Room 1002  
3355 Las Vegas Boulevard South  
Las Vegas, NV 89109

## Fundraising and Community Outreach



The Stanley Gordon, MD,  
Library and Resident Education  
Fund

Residents and Fellows Alumni  
Society



NYU Langone Hospital Brooklyn

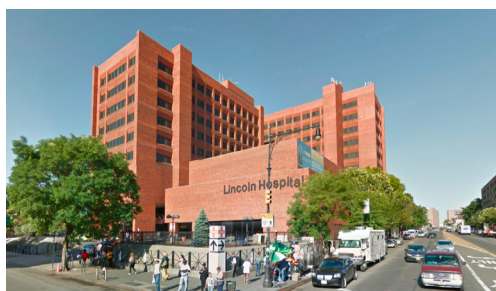


Brookdale University Hospital and  
Medical Center

## Affiliated Hospitals



Kings County Hospital Center



Lincoln Hospital



Veterans' Administration NY Harbor  
Health Care System - Brooklyn



Northwell Health - Staten Island  
University Hospital





# Annual Alumni Newsletter

## AAOS - 2019

<sup>SUNY</sup>  
D<sup>OWNSTATE</sup>  
ORTHOPAEDIC SURGERY

