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 2018 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, Foot and Ankle, and Orthopaedic Traumatology services. The department was awarded a CIR grant for an arthroscopy simulator, which was received in November, with the goal of the residents honing in on their arthroscopy skills. Our research campaign continues to succeed as we have 37 studies accepted to AAOS 2018 this year as podium presentations (17) and poster presentations (20), a new Downstate record! 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 Hilton New Orleans Riverside, Ascot Room on March 9, 2018 at 7 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 50 medical students over the past 2 years. This year alone, the Downstate Orthopaedic Research Laboratory accommodated 30+ Downstate Medical students and 15+ additional MDs and college students. We have continued our collaboration with institutions including The Cleveland Clinic, NYU Hospital for Joint Diseases, and Hospital for Special Surgery, to continue the productivity of Downstate Orthopaedic Research. Our goal is to continue this trend and build on our foundation to advance research coming out of Downstate, and this year, we were approved to start building a gait and motion analysis registry with the use of our human performance laboratory for patients with all different types of musculoskeletal issues. Finally, it is my pleasure to share with you that between the two academies (AAOS 2017 and AAOS 2018), our research was presented at more than 11 national and international meetings, with the number of podium and poster presentations exceeding 100. The following is where most of Downstate research was presented in the past academic year:
Adult Spinal Surgery in Patients with Previous THA: Should We Do the Spine First?


This study demonstrated the complex interplay between spinal fusion constructs and arthroplasty implants. Patients with prior THA who underwent spinal fusion had more hip dislocations and need for revision THA; these risks were higher in those with longer fusion constructs.
Orthopaedic Surgery Graduates: 2018

Anant Dixit, MD
Sports Medicine
Rothman Institute
Philadelphia, PA

Erika Kuehn, MD
Hand & Upper Extremity
University of Massachusetts
Worcester, MA

Qais Naziri, MD, MBA
Adult Reconstruction
Cleveland Clinic
Weston, FL

Jason Oh, MD
Adult Reconstruction
Lenox Hill Hospital
New York, NY

Kemjika Onuoha, MD
Trauma
Sonoran Orthopaedic Trauma Surgeons
Scottsdale, AZ

The orthopaedic surgery program had another fantastic fellowship match
This year, the orthopaedic surgery residency program used a web-based curriculum provided by Orthobullets. PASS is an institutional training platform that provides orthopaedic knowledge and a surgical skills curriculum; it provides feedback and allows for tracking results. It provides a daily comprehensive reading curriculum that consists of two specific topics, associated questions, and the key journal articles. Additionally, there are subject quizzes, virtual exams, and periodic monthly mock examinations.

**ArthroMentor Lab**
Dr. Tretiakov (PGY2) being instructed on how to use the new arthroscopic simulator

**External Fixator Lab**
Drs. Pivec (PGY4) and Kuehn (PGY5) going over basic external fixation skills with the intern class

**Casting Lab**
Drs. Day (PGY1) and Desai (PGY1) honing in on their casting skills with the help of Dr. Pancholi (PGY4)

**Special thanks to:**
- Dr. Anant Dixit and Dr. Bassel Diebo 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 contribution
- Interested in coming back to give a lecture?
  Email: Yvonne.Henry@downstate.edu
Welcome New Faculty Members

Steven Koehler, MD

Dr. Steven Koehler joined our department in September 2017 as the Director of Hand Surgery. Dr. Koehler specializes in the treatment of all disorders of the upper extremity in adults and children. He has particular interests in peripheral nerve surgery, the brachial plexus, and upper extremity reconstruction and reanimation with free tissue and nerve transfers. Dr. Koehler has established the first Wide Awake Local Anesthesia No Tourniquet (WALANT) operating room in NYC. He has been performing wide-awake hand surgery, increasing patients’ access to surgery and reducing the cost and burden of perioperative services. Dr. Koehler received his medical degree from the Mount Sinai School of Medicine. He then completed his residency in orthopaedic surgery also from Mount Sinai School of Medicine, where he was the Administrative Chief Resident. He completed his fellowship training in hand, upper extremity and microvascular surgery at Duke University.

Justin Tsai, MD

Dr. Justin Tsai joined our department in September 2017 as a Foot and Ankle surgeon. Dr. Tsai specializes in all aspects of foot and ankle surgery including deformity correction, arthroscopy, arthroplasty, reconstruction, fracture management, and arthritis, neuromuscular conditions. Dr. Tsai is also involved academically, with the involvement of multiple journal articles and book chapters. Additionally, he is involved in multiple ongoing clinical and basic science research studies. Dr. Tsai received his medical degree from SUNY Downstate Medical Center, and then completed his residency in orthopaedic surgery at SUNY Downstate Medical Center. After residency, he completed his fellowship training in foot and ankle surgery at the Rothman Institute at Thomas Jefferson University.

Jason McKean, MD

Dr. Jason McKean is an orthopaedic traumatologist and joined our department as the Chief of orthopaedic surgery at Brookdale University Hospital in January 2018. Dr. McKean specializes in the treatment of complex extremity fractures, pelvic and acetabular fractures, and the management of post-traumatic musculoskeletal problems such as malunions, nonunions, and infections. Dr. McKean received his medical degree from Boston University School of Medicine, and then completed his residency in orthopaedic surgery at Columbia University College of Physicians and Surgeons, and then completed a fellowship in orthopaedic trauma at the University of Louisville.
Downstate Orthopaedics is the Main Site Testing a New Implant

Dr. Steven Koehler is the primary investigator on two studies that are evaluating a new implant for distal humerus fracture fixation. SUNY Downstate will be the main testing facility for the biomechanical study, and will also be the lead site in a multi-center clinical trial, working with Duke University, Massachusetts General Hospital, and Hellenic Airforce General Hospital in Greece.

Resident Social Events
Tuesday March 6th

The Impact of Mental Health Disorders on Complications Following Adult Spinal Deformity Surgery with Minimum 2-year Surveillance
Diebo, Lavian, Liu, Shah, Beyer, Segreto, Vasquez-Montes, Passias, Paulino
Paper # 050: 8:30 AM, Room: 345

A Comparison of Relative Value Units in Primary versus Conversion Total Hip Arthroplasty
Newman, Naziri, Sodhi, Khlopas, Pivec, Piuzzi, Delanois, Higuera, Mont
Paper # 020: 8:30 AM, Room: Theater C

Wednesday March 7th

The Risk of Hepatitis C in Association with Cervical Spine Surgery: Analysis of Radiculopathy and Myelopathy Patients
Lavian, Murray, Segreto, Burekhovich, Shah, Naziri, Yoshihara, Paulino, Diebo
Paper # 422: 5:18 PM, Room: Theater C

The Impact of Mental Health Disorders on Complications Following Cervical Spine Surgery with Minimum 2-Year Surveillance
Diebo, Liu, Shah, Naziri, Lafage, Schwab, Passias, Paulino
Paper # 423: 5:24 PM, Room: Theater C

Thursday March 8th

Total Hip Arthroplasty in Parkinson’s Disease Patients: A Propensity Matched Analysis with Minimum 2-Year Surveillance
Lavian, Shah, Greico, Stroud, Abraham, Naziri, Paulino, Maheshwari, Diebo
Paper # 060: 9:48 AM, Room: 345

Thoracolumbar Spinal Surgery in Parkinson Disease Patients: A Propensity-Matched Analysis with Minimum 2-Year Surveillance
Shah, Beyer, Mixa, Hollern, Bloom, Stroud, Passias, Paulino, Diebo
Paper # 060: 9:48 AM, Room: 345

Does the amount of Opioid Consumed Influence How Patients Rate Their Experience of Care After Total Knee Arthroplasty?
Gwam, Etcheson, Newman, Khlopas, George, Thomas, Mistry, Mont, Delanois
Paper # 297: 2:06 PM, Room: Theater B
Friday March 9th

Does Parkinson Disease Increase the Risk of Short-term Perioperative Complications after THA: A Nationwide Database Study
Newman, Khlopas, Soda, Yakubek, Navale, Klika, Mont, Higuera, Barsoum
Paper # 739: 11:00 AM, Room: Theater B

Dynamic Three-Dimensional Analysis of Gait Patterns Before and After Adolescent Idiopathic Scoliosis Surgery
Diebo, Varghese, Lafage, Bakouny, Assi, Godwin, Lafage, Schwab, Paulino
Paper # 706: 11:24 AM, Room: 345

Are We Appropriately Compensated by Relative Value Units for Primary vs Revision THA
Sodhi, Khlopas, Piuzzi, Newman, Yakubek, Higuera, Klika, Stearns, Mont
Paper # 744: 11:36 AM, Room: Theater B

Adolescent Idiopathic Scoliosis Care in an Underserved Inner-City Population: Screening, Bracing, and Patient- and Parent-Reported Outcomes
Bloom, Diebo, Segreto, Messina, Paltoo, Day, Mixa, Naziri, Paulino
Paper # 709: 11:48 AM, Room: 345

Is Parkinson Disease Associated with an Increased Risk of Short-term Perioperative Complications after Total Knee Arthroplasty? Analysis of a Nationwide Database
Newman, Khlopas, Soda, Yakubek, Navale, Klika, Mont, Higuera, Barsoum
Paper # 802: 2:42 PM, Room: 245

Is Procalcitonin an Accurate Marker of Post-operative Orthopaedic Infections? A Systematic Review and Meta-Analysis
Diebo, Segreto, Messina, Paltoo, Bloom, Day, Mixa, Naziri, Paulino, Maheshwari
Paper # 817: 5:12 PM, Room: Theater C

Reducing Perioperative Blood Loss with Antifibrinolytics for Patients Undergoing Total Joint Arthroplasty
Kapadia, Borzio, Harb, Pivec, Maheshwari
Paper # 832: 5:12 PM, Room: 245

Novel Venous Thromboembolic Disease (VTED) Prophylaxis for Knee Arthroplasty - Aspirin and Fish Oil
Bonutti, Kolisek, Williams, Khlopas, Chuhtai, Soda, Newman, George, Mont
Paper # 833: 5:18 PM, Room: 245

Transfusion Requirements Following Total Knee Arthroplasty in Patients with Preexisting Blood Dyscrasias
Law, Roche, Rosas, Rush, Khlopas, Chuhtai, Kurowicki, Newman, Mont
Paper # 835: 5:36 PM, Room: 245
AAOS Poster Presentations 2018

Extremely Increased Risk of Periprosthetic Infection in Combined Sickle Cell-Thalassemia Disease Following Total Hip Arthroplasty
Pivec, Naziri, Chatterjee, Grieco, Issa, Hip-Flores, Mont, Maheshwari
Poster # 0040

Improvement in Sleep Quality Following Carpal Tunnel Release
Trouw, Yang, Kelly, Kaur, Caligiuri, Choueka
Poster # 0224

Vertebral Osteomyelitis: A Comparison of Outcomes in Patients with Early Versus Delayed Surgical Treatment
Segreto, Beyer, Lavian, Mixa, Naziri, Urban, Passias, Paulino, Diebo
Poster # 0354

Should Decision-Making for Lower Instrumented Vertebra Selection Go Beyond Traditional Classification of Adolescent Idiopathic Scoliosis? A Dynamic Three-Dimensional Gait Assessment
Diebo, Patel, Varghese, Shah, Assi, Godwin, Lafage, Schwab, Paulino
Poster # 0342

Have the Yearly Trends of Lower Extremity TJA in Rheumatoid Arthritis Patients Decreased?
Newman, Khlopas, Chuhtai, Sodhi, Yakubek, Sultan, Mistry, Kurowicki, Mont
Poster # 0017

Reliability of ICD-9 Codes to Detect Morbid Obesity in Patients Undergoing Total Hip Arthroplasty
George, Newman, Khlopas, Klika, Barsoum, Mont, Higuera
Poster # 0031

Etiology of Above Knee Amputations in the United States: Is Periprosthetic Joint Infection an Emerging Cause?
George, Navale, Newman, Klika, Barsoum, Mont, Higuera
Poster # 0113

Impact of Perioperative HbA1C on Reimbursements in Diabetic Mellitus Patients Undergoing Total Hip Arthroplasty: A Nationwide Analysis
Kurowicki, Rosas, Khlopas, Newman, Law, Klika, Higuera, Roche, Mont
Poster # 0543

Chronic Obstructive Pulmonary Disease is Associated with Short-term Complications following Total Knee Arthroplasty
Yakubek, Curtis, Faour, Newman, Khlopas, Klika, Mont, Barsoum, Higuera
Poster # 0628

Modern Dual-Mobility Cups in Revision Total Hip Arthroplasty: A Systematic Review
Piuzzi, Levin, O'Donnel, Khlopas, Gwam, Mistry, Newman, Delanois, Mont
Poster # 0096
Drill Hole Proximity and Fracture Risk in an Ulnar Model
Pivec, Chatterjee, Hayes, Cooper, Berliner, Pushilin, Illical
Poster # 0505

What is the Ideal Way to Wrap an Ace Bandage? The Relationship between Stretch and Pressure for the Ace Bandage Dressing
Kuehn, Kapadia, Yang, Chatterjee, Patel
Poster # 0389

Categorizing the Hip-Spine Syndrome: A Step Toward a Collaborative Multi-Disciplinary Classification
Diebo, Day, Lafage, Passias, Paulino, Errico, Schwab, Lafage
Poster # 0608

Use of 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, Siqueira, Yakubek, Klika, Higuera, Barsoum
Poster # 0699

What are the Short-Term Outcomes in Multiple Sclerosis Patients after Total Knee Arthroplasty?
Ramkumar, Newman, Khlopas, Navarro, Klika, Kryzak, Higuera, Mont
Poster # 0669

Mid-Term Survivorship and Outcomes of Highly Cross-linked Polyethylene in Total Knee Arthroplasty
Mistry, Gwam, Etcheson, George, Cherian, Khlopas, Newman, Mont, Delanois
Poster # 0704

Perioperative Outcomes and Complications following Total Knee Arthroplasty for Osteoarthritis in Immunosuppressed Patients
Curtis, Chuughtai, Khlopas, Newman, Klika, Barsoum, Higuera, Mont
Poster # 0160

Excellent Outcomes Achieved with Cementless Posteriorly Stabilized TKA: 7-year Minimum Follow-up Report
Harwin, Gwam, Levin, Khlopas, Sodhi, Newman, Yakubek, Mont
Poster # 0614

Short-term Complications Associated with Chronic Obstructive Pulmonary Disease following Total Hip Arthroplasty
Yakubek, Curtis, Faour, Sodhi, Newman, Klika, Mont, Barsoum, Higuera
Poster # 0032

Non-Contact Sports Participation in Adolescent Idiopathic Scoliosis: Effects on Parent- and Patient-Reported Outcomes
Diebo, Day, Lafage, Passias, Paulino, Errico, Schwab, Lafage
Poster # 0848
2017

Carpal Tunnel Syndrome: Initial Management and the Treatment of Recalcitrant Patients.

Pediatric Distal Radius Fractures.

Regional Variations in Shear Strength and Density of the Human Thoracic Vertebral Endplate and Trabecular Bone.


Prosthetic Dislocation and Revision After Primary Total Hip Arthroplasty in Lumbar Fusion Patients: A Propensity Score Matched-Pair Analysis.

Hematologic Malignancies Are Associated with Adverse Perioperative Outcomes Following Total Knee Arthroplasty.

Venous Thromboembolic Disease in Revision vs Primary Total Knee Arthroplasty.

Have Periprosthetic Hip Infection Rates Plateaued?


The Outcomes of Nonelongating Intramedullary Fixation of the Lower Extremity for Pediatric Osteogenesis Imperfecta Patients: A Meta-analysis.

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


Is Day of Surgery Associated With Adverse Clinical and Economic Outcomes Following Primary Total Knee Arthroplasty?

How Should We Secure Our Transplanted Meniscus? A Meta-analysis.

A Single-Center Experience With a Titanium Modular Neck Total Hip Arthroplasty.
2017

Hip fusion takedown to a total hip arthroplasty—is it worth it? A systematic review.
PMID: 28349181

Novel Index to Quantify the Risk of Surgery in the Setting of Adult Spinal Deformity: A Study on 10,912 Patients From the Nationwide Inpatient Sample.
PMID: 28169941

Is Orthopedic Department Teaching Status Associated With Adverse Outcomes Of Primary Total Hip Arthroplasty?
PMID: 28390883

Indirect decompression in spinal surgery.
PMID: 28688624

Atrial Septal Defect Increases the Risk for Stroke After Total Hip Arthroplasty.
PMID: 28602537

Radiological lumbar stenosis severity predicts worsening sagittal malalignment on full-body standing stereoradiographs.
PMID: 28527756

National Trends and In-Hospital Outcomes of Patients With Solid Organ Transplant Undergoing Spinal Fusion.
PMID: 28542105

Heterotopic Ossification of the Peroneus Brevis Tendon in a Pediatric Patient.
PMID: 28647521

PMID: 29138069

Body mass index predicts risk of complications in lumbar spine surgery based on surgical invasiveness.
PMID: 29155339
2017

Outcomes of Anterior Cruciate Ligament Reconstruction in Obese and Overweight Patients: A Systematic Review.
PMID: 29189335

A novel index for quantifying the risk of early complications for patients undergoing cervical spine surgeries.
PMID: 28841106

Does Multiple Sclerosis Affect the Inpatient Perioperative Outcomes After Total Hip Arthroplasty?
PMID: 28780224

Risk Factors and Costs Associated With Clostridium difficile Colitis in Patients With Prosthetic Joint Infection Undergoing Revision Total Hip Arthroplasty.
PMID: 28780224

The Röttinger approach for total hip arthroplasty: technique, comparison to the direct lateral approach and review of literature.
PMID: 29299478

Have the annual trends of total knee arthroplasty in ankylosing spondylitis patients decreased?
PMID: 29299476

Does a simple syringe applicator enhance bone cement set up time in knee arthroplasty?
PMID: 29299472

Adult Reconstruction Studies Presented at AAOS and AAHKS 2011-2015 Annual Meetings. Is There a Difference in Future Publication?
PMID: 29258760

Operative Management for Pediatric and Adolescent Scaphoid Nonunions: A Meta-analysis.

Trends and Epidemiology of Tennis-Related Sprains/Strains in the United States, 2010 to 2016.
PMID: 29315449

Mechanical Prophylaxis after Lower Extremity Total Joint Arthroplasty: A Review.
PMID: 29310148
2017

Have the Yearly Trends of Total Hip Arthroplasty in Ankylosing Spondylitis Patients Decreased?
PMID: 29313553

Does Atrial Septal Defect Increase the Risk of Stroke Following Total Hip and Knee Arthroplasty?
Chughtai M, Perfetti DC, Khlopas A, Sultan AA, Sodhi N, Newman JM, Gwam CU, Maheshwari AV, Mont MA.
PMID: 29310146

Siddiqi A, White PB, Etcheson JI, George NE, Gwam CU, Mistry JB, Patel NG, Adam H, Delanois RE.
PMID: 29301167

A Comparison of Relative Value Units in Primary versus Revision Total Ankle Arthroplasty.
PMID: 29316589

van Neck-Odelberg Disease: A 3.5-Year Follow-Up Case Report and Systematic Review.
Mixa PJ, Segreto FA, Luigi-Martinez H, Diebo BG, Naziri Q, Kolla S, Maheshwari AV.
PMID: 29316596

2018 to Present

Does Total Ankle Arthroplasty Belong in the Comprehensive Care for Joint Replacement?
Boylan MR, Riesgo AM, Paulino CB, Sheskier SC.
PMID: 29268905

PMID: 29315452

Demographics of Tennis-Related Injuries that Presented to Emergency Departments in the United States.
PMID: 29316593

Is Orthopaedic Department Teaching Status Associated with Adverse Outcomes of Primary Total Knee Arthroplasty?
PMID: 29316598

Mistry JB, Gwam CU, Naziri Q, Pivec R, Abraham R, Mont MA, Delanois RE.
J Arthroplasty. 2017 Dec 21.[Epub ahead of print]
PMID: 29352682

Declining usage of rhBMP-2 in lumbar fusions for adult spinal deformity since 2008.
PMID: 29097133
Featured - Peer Reviewed Publications 2017 - 2018

2018 to Present

**Next-Generation, Minimal-Resection, Fixed-Bearing Total Ankle Replacement: Indications and Outcomes.**
PMID: 29156169

**Bone Marrow Cellular Therapies: Novel Therapy for Knee Osteoarthritis.**
PMID: 29166682

**Perioperative Outcomes and Complications in Patients With Heart Failure Following Total Knee Arthroplasty.**
PMID: 28844769

**Have the Annual Trends of Total Knee Arthroplasty in Rheumatoid Arthritis Patients Changed?**
PMID: 29298452

**Does Parkinson Disease Increase the Risk of Perioperative Complications After Total Hip Arthroplasty? A Nationwide Database Study.**
PMID: 29402715

**Complications in Patients Undergoing Spinal Fusion After THA.**
PMID: 29389793

**What provides a better value for your time? the use of relative value units to compare posterior segmental instrumentation of vertebral segments.**
PMID: 29410308

**Radiological severity of hip osteoarthritis in patients with adult spinal deformity: the effect on spinopelvic and lower extremity compensatory mechanisms.**
PMID: 29417324

**The Impact of Comorbid Mental Health Disorders on Complications Following Adult Spinal Deformity Surgery with Minimum 2-Year Surveillance.**
PMID: 29419714

**Knee Pain and the Use of Various Types of Footwear-A Review.**
PMID: 29421838

**Realignment surgery in adult spinal deformity: Prevalence and risk factors for proximal junctional kyphosis.**
PMID: 29445843

**The Relationship between Improvements in Myelopathy and Sagittal Realignment in Cervical Deformity Surgery Outcomes.**
PMID: 29462071
**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.

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**Thank You Kino Williams for Your Service!**

Department News:

**Mr. Kino Williams** moved from SUNY Downstate Medical Center Department of Orthopaedic Surgery to the Department of Radiology. Mr. Williams worked for the Department of Orthopaedic Surgery for 7 years, where he provided invaluable help to the department and residency program coordination. You will be missed!

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**Alumni Reception at AAOS 2018**

**Save the Date March 9, 2018**

**7:00 to 11:00 PM**

**Hilton New Orleans Riverside**

Ascot Room

2 Poydras St.

New Orleans, LA 70130

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**Fundraising and Community Outreach**

- The Stanley Gordon, MD, Library and Resident Education Fund
- Residents and Fellows Alumni Society

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**Affiliated Hospitals**

- NYU Langone Hospital Brooklyn
- Veterans’ Administration NY Harbor Health Care System - Brooklyn Campus
- Brooklyn University Hospital and Medical Center
- Kings County Hospital Center
- Staten Island University Hospital