

## **Maryland Orthopaedic** Association

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Meeting At A Glance

2018 Annual Meeting February 10, 2018 Loews Annapolis Hotel Annapolis, MD

Presidential **Guest Speaker** Scott H. Kozin, MD Shriners Hospital - Philadelphia

**Guest Speakers** Michael J. McCaslin, CPA Somerset CPAs & Advisors

Gene M. Ransom III CEO, MedChi

Open to all MOA Members, Orthopaedic Surgeons, Residents, Fellows, Allied Health Professionals and Medical Students



**Download the Complete Program:** On a mobile device, in the Apple Store or Google Play store, search "DTMS" and download; on a laptop go online to https://datatrace.gatherdigital.com.



## President's Welcome

James J. York, MD President, Maryland Orthopaedic Association

Dear Colleague,

It has been an honor to serve as President of our Maryland Orthopaedic Association. We at MOA have focused on several areas of service to our members. First is continuing medical education. We have continued to provide web based clinical material, and an Annual Meeting which balances clinical

updates, practice management material, cutting edge research and networking with our colleagues around the state. Our other critical area of activity is interaction with government. Advocacy at the legislature and with the state executive branch continues to be a critical mission for our State Society.

Besides the legislature, the Department of Health and the Medical Licensing Board have had a profound impact on our ability to practice Orthopaedic Surgery. To that end we retain an excellent, experienced lobbyist to represent us and our issues to each of the branches of our state government. Just as important as the MOA lobbyist, are the relationships that our Board Members and many of our colleagues have with our state legislators.

Sometimes I hear, "How can I participate in Orthopaedic Advocacy when I am up to my eyeballs in work?" If you cannot come to Annapolis during the legislative session or meet with your delegates or state senator, you CAN participate in our MOA Political Action Committee (PAC). The PAC is a valuable communication tool and provides Maryland Orthopaedists access to legislators. Every elected official remembers those who contribute to reelection funds.

PAC contribution forms are as close as your computer or smartphone: www.mdortho.org. PAC forms are available at the Annual Meeting Registration Booth. Join our PAC now!

Year over year, we strive to make our Annual Meeting relevant to you with a balance of practical clinical updates, a peek at the future of Orthopaedics with cutting edge research papers, practice management symposia and updates / reports on our advocacy efforts. I would like to thank our program committee led by Dr. Joshua Abzug for constructing a superb 2018 Annual Meeting.

The Annual Meeting welcomes you at no cost if you are an MOA member.

I am sure that you will find our 2018 meeting valuable and relevant. I always look forward to catching up with our colleagues. We appreciate your involvement, participation, and membership in the Maryland Orthopaedic Association.

Sincerely,

James J. York, MD 2017-2018 President

## MOA Board of Directors

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Presidential Guest Speaker Scott H. Kozin, MD Shriners Hospital for Children, Philadelphia

MOA is pleased to have Scott H. Kozin, MD as the 2018 Presidential Guest Speaker. Dr. Kozin is the chief of staff for Shriners Hospitals for Children – Philadelphia and is board certified by the American

Board of Orthopaedic Surgery. He received an undergraduate degree in computer science from Duke University and earned a medical degree from Hahnemann University School of Medicine. Dr. Kozin completed his residencies in orthopaedic surgery at Albert Einstein Medical Center and Shriners Hospitals for Children – Philadelphia. He also completed a fellowship in hand and microvascular surgery at Mayo Clinic in Rochester, Minnesota.

Areas of special interest to Dr. Kozin include upper extremity/brachial plexus injuries, spinal cord injuries, congenital differences and upper limb reconstruction.

Dr. Kozin is the past president of the American Society for Surgery of the Hand and past president of the American Association of Hand Surgery. He is also a clinical professor for the department of orthopaedic surgery at Temple University School of Medicine. Dr. Kozin is the team leader for the Touching Hands Project, the outreach arm of the American Society for Surgery of the Hand that creates opportunities for hand specialists to give back their knowledge and expertise to the global community, with a vision of a world where all people have access to exceptional hand care.



Guest Speaker Michael J. McCaslin, CPA Somerset CPAs and Advisors

MOA is pleased to welcome Guest Speaker, Michael J. McCaslin, CPA of Somerset CPAs and Advisors. Mr. McCaslin provides services for health care clients in multiple states throughout the country. As a

principal in the health care group, he has many areas of expertise which include the development of health care delivery systems and multi-physician specialty organizations, and the negotiation of physician and hospital relationships. He also specializes in joint venture and merger analysis and transactions, strategic planning, buy-in and buy-out structuring and restructuring, development of governance structures and succession planning structures. In addition, he assists clients with income distribution methodology design and change management, new services development, ambulatory surgery center development and other physician and health system consulting needs.

Mr. McCaslin speaks on health care, accounting and practice management issues to physicians, hospitals and other medical organizations. He believes that the key to success is to surround yourself with smart, capable people and then empower them to make full use of their talent and expertise.



Guest Speaker Gene M. Ransom, III MedChi

MOA is pleased to have Gene M. Ransom, III as a Guest Speaker. Mr. Ransom is CEO of the largest physician organization in Maryland, MedChi, The Maryland State Medical Society. As MedChi execu-

tive, Mr. Ransom implements MedChi's mission as an advocate for physicians, patients, and the public health of Maryland. MedChi currently represents over 7,500 Maryland physicians, created several Accountable Care Organizations, and operates one of Maryland's largest Insurance Agencies.

A life-long resident of the Delmarva Peninsula, Mr. Ransom graduated from The University of Maryland with honors in economics and the University of Baltimore School of Law, and was elected to the Queen Anne's County Commission in November 2002. When elected, at thirty-one, he made history as the youngest Commissioner ever to serve Queen Anne's County. During his term as Commissioner, he fought for fiscal responsibility, managing a budget of over 100 million dollars and voting for a balanced budget every year in office while reducing the Queen Anne's property tax rate by over twenty cents during his two terms. He was an instrumental part of a bipartisan effort to bring the first full service twenty-four hour emergency room to Queen Anne's County.

# Scientific Regatta Ballroom (Univ February 10, 2018 | Loews An

| 7:00 am – 7:25 am   | Registration & Continental Breakfast<br>Annapolis Atrium  | 9:27 am – 9:31 am  | Comparison of Multiple-Rod Constructs<br>Across a Pedicle Subtraction Osteotomy: A  |
|---|---|--|---|
| 7:00 am – 7:25 am   | Scientific E-Poster Session Windjammer Room   |  | Biomechanical Study<br>Jarid Tareen, MD, University of Maryland   |
| 7:00 am – 6:00 pm   | Speaker Ready Room Windjammer Room  |  | *Presented by Alysa Nash, BS  |
| 7:25 am – 7:30 am   | Welcome & Course Overview<br>Joshua M. Abzug, MD, Program Chair<br>James J. York, MD, President   | 9:31 am – 9:35 am  | Controlling Axonal Regeneration with Acellular<br>Nerve Allograft Reduces Neuroma Formation<br>Patrick Grimm, MD, Walter Reed National Military<br>Medical Center |
| Session 1: Traumatic Sports Injuries<br>Moderator: Miho J. Tanaka, MD, Johns Hopkins University         |   | 9:35 am – 9:45 am  | Discussion  |
| 7:30 am – 7:40 am   | Evidence Based Update<br>Miho J. Tanaka, MD, Johns Hopkins University   |  | <b>hetic/Oncologic Trauma</b><br>Alaik, MD, Johns Hopkins University  |
| 7:40 am – 8:10 am   | Case Based Discussion<br>Jonathan D. Packer, MD, University of Maryland<br>Lucas R. Wymore, MD, Southern Maryland<br>Orthopaedic & Sports Medicine Center<br>Amir R. Moinfar, MD, Elite Orthopaedic and<br>Musculoskeletal Center | 9:45 am – 9:55 am  | Evidence Based Update<br>Daniel Valaik, MD, Johns Hopkins University  |
|   |   | 9:55 am – 10:25 am   | Case Based Discussion<br>Julius K. Oni, MD, Johns Hopkins University<br>James H. MacDonald, MD, Orthopedic and Sports<br>Maryland Specialists                     |
| SESSION 2: TRAUMATIC FOOT AND ANKLE INJURIES  |   |  | Farshad Adib, MD, University of Maryland  |
| MODERATOR: JAMES R.   | FICKE, MD, JOHNS HOPKINS UNIVERSITY   | 10:25 am – 10:45 am  | BREAK with Exhibitors Annapolis Atrium  |
| 8:10 am – 8:25 am   | Evidence Based Update<br>James R. Ficke, MD, Johns Hopkins University   | Session 5: Guest Speakers<br>Moderator: James J. York, MD, The Orthopaedic and Sports Medicine<br>Center |   |
| 8:25 am – 8:55 am   | Case Based Discussion<br>Clifford L. Jeng, MD, Mercy Medical Center<br>Adam J. Mandel, DO, Peninsula Orthopaedic<br>Associates<br>Jeffrey T. Brodie, MD, Towson Orthopaedic<br>Associates   |  | Key Strategies for Patient Centered Care:<br>Differentiating Your Practice<br>Michael J. McCaslin, CPA, Somerset CPAs and<br>Advisors                             |
| 8:55 am – 9:15 am   | BREAK with Exhibitors Annapolis Atrium  | 11:30 am – 11:45 am  | Current Healthcare in Maryland<br>Gene M. Ransom III, CEO MedChi  |
| Session 3: Basic Science Research Presentations<br>Moderator: Mohit Gilotra, MD, University of Maryland |   | 11:45 am – 12:00 pm  | Business Meeting Including Advocacy and AAOS Update   |
| 9:15 am – 9:19 am   | Novel Rabbit Model to Evaluate Treatment of<br>Prosthetic Joint Infection<br>John Thompson, MD, Johns Hopkins University<br>*Presented by Robert J. Miller, BS  |  | James J. York, MD, The Orthopaedic and Sports<br>Medicine Center  |
|   |   | 12:00 pm – 1:00 pm   | Lunch Annapolis Atrium  |
| 9:19 am – 9:23 am   | Oxazine-4 Fluorescence Improves Nerve<br>Visualization During Revision Surgery in Mice<br>Jay Reidler, MD, MPH, Johns Hopkins University  | Session 6: Presidential Guest Lecture<br>Moderator: Joshua M. Abzug, MD, University of Maryland          |   |
|   |   | 1:00 pm – 1:45 pm  | Volunteerism<br>Scott H. Kozin, MD, Shriners Hospital for Children  |
| 9:23 am – 9:27 am   | Evaluation of a Biodegradable Subacromial<br>Balloon Spacer on Glenohumeral Joint<br>Biomechanics in the Setting of Irreparable<br>Superior Rotator Cuff Tears<br>Roshan T. Melvani, MD, MedStar Union Memorial<br>Hospital       |  | Philadelphia  |
|   |   | SESSION 7: CLINICAL RESEARCH PRESENTATIONS I<br>MODERATOR: JOHN ANTONIADES, MD, ST. AGNES HOSPITAL       |   |
|   |   |  |   |
|   |   | 1:45 pm – 1:49 pm  | Incidence, Risk Factors and Causes of<br>Unplanned Interventions after Total Joint<br>Arthroplasty<br>Andrea Stone, MSN, CRNP, Anne Arundel Medical<br>Center     |

## Program ess otherwise specified)

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|---|--|---|--|
| 1:49 pm – 1:53 pm   | Intrawound Antibiotic Powder Decreases<br>Frequency of Deep Infection after Amputation<br>Benjamin W. Hoyt, MD, Walter Reed National<br>Military Medical Center  | Session 11: Upper Extremity Trauma (Hand & Shoulder/Elbow)<br>Moderator: Raymond A. Pensy, MD, University of Maryland |  |
|   |  | 4:45 pm – 4:55 pm   | Evidence Based Update<br>Raymond A. Pensy, MD, University of Maryland  |
| 1:53 pm – 1:57 pm   | Socioeconomics, Not Walking Age, Predicts<br>Blount's Disease in Black Children<br>Walter B. Klyce III, BA, Johns Hopkins University                             | 4:55 pm – 5:30 pm   | Case Based Discussion<br>Ngozi M. Akabudike, MD, University of Maryland<br>Vipul N. Nanavati, MD, Mercy Medical Center   |
| 1:57 pm – 2:01 pm   | Preoperative Lumbar Corticosteroid Injections<br>and Infection Rates in Lumbar Arthrodesis<br>Alfred Pisano, MD, Walter Reed National Military<br>Medical Center |   | John V. Ingari, MD, Johns Hopkins University   |
|   |  | Session 12: Clinical Research Presentations II<br>Moderator: Brian Shiu, MD, Towson Orthopaedic Associates            |  |
| 2:01 pm – 2:10 pm   | Discussion   | 5:30 pm – 5:34 pm   | Quantitative Measurement of Thoracic Outlet<br>Decompression Favors First Rib Resection  |
| Session 8: Pediatric Trauma<br>Moderator: Paul D. Sponseller, MD, MBA, Johns Hopkins University |  |   | Patrick E. Assi, MD, Medstar Union Memorial<br>Hospital  |
| 2:15 pm – 2:25 pm   | Evidence Based Update<br>Paul D. Sponseller, MD, MBA, Johns Hopkins<br>University  | 5:34 pm – 5:38 pm   | Effects of Medicaid Expansion on Hand Trauma<br>and Quaternary Care: The Curtis National Hand<br>Center Experience<br>Charles A. Daly, MD, Curtis National Hand Center                 |
| 2:25 pm – 2:55 pm   | Case Based Discussion<br>John E. Herzenberg, MD, FRCSC, Rubin Institute for  |   | at Union Memorial Hospital   |
|   | Advanced Orthopedics, Sinai Hospital<br>Joshua M. Abzug, MD, University of Maryland<br>Scott H. Kozin, MD, Shriners Hospital for Children<br>Philadelphia        | 5:38 pm – 5:42 pm   | Patient-Reported Outcomes in Knee Surgery<br>Patients Using Preoperative Opioids<br>Sean Meredith, MD, University of Maryland  |
| 2:55 pm – 3:15 pm   | BREAK with Exhibitors Annapolis Atrium   | 5:42 pm – 5:46 pm   | Socioeconomic Status as a Risk Factor for<br>Advanced Presentation of AIS<br>Eve Hoffman, MD, University of Maryland   |
| Session 9: Trauma Injuries  |  |   | Eve Horman, MD, University of Maryland   |
|   | F. SCIADINI, MD, UNIVERSITY OF MARYLAND  | 5:46 pm – 5:50 pm   | Adolescent Idiopathic Scoliosis: Increased Body<br>Mass Associated with Decreased Outcomes   |
| 3:15 pm – 3:25 pm   | Evidence Based Update<br>Marcus F. Sciadini, MD, University of Maryland  |   | Adam Margalit, MD, Johns Hopkins University  |
| 3:25 pm – 3:55 pm   | Case Based Discussion  | 5:50 pm – 6:00 pm   | Discussion   |
|   | Florian G. Huber, MD, Peninsula Orthopaedic<br>Associates  | SOCIAL ACTIVITY Windjammer Room   |  |
|   | Babar Shafiq, MD, MS, Johns Hopkins University<br>Todd D. Jaeblon, DO, University of Maryland  | 6:00 pm – 7:00 pm   | Cocktails and Complications<br>My Worst Complication From the Masters<br>James R. Ficke, MD, Johns Hopkins University  |
| Session 10: Spine Trauma<br>Moderator: Kelley E. Banagan, MD, University of Maryland            |  |   | John E. Herzenberg, MD, FRCSC, Rubin Institute for Advanced Orthopedics, Sinai Hospital  |
| 4:00 pm – 4:10 pm   | Evidence Based Update<br>Kelley E. Banagan, MD, University of Maryland   |   | Paul D. Sponseller, MD, MBA, Johns Hopkins<br>University   |
| 4:10 pm – 4:40 pm   | Case Based Discussion<br>Eugene Y. Koh, MD, PhD, University of Maryland<br>Scott C. McGovern, MD, Peninsula Orthopedic<br>Associates                             | 6:30 pm – 6:35 pm   | Awards Presentation for Best Papers<br>Joshua M. Abzug, MD, University of Maryland   |
|   | Emeka J. Nwodim, MD, The Centers for Advanced<br>Orthopaedics  | this live activity f<br><i>Credits</i> <sup>TM</sup> . Physici  | ademy of Orthopaedic Surgeons designates<br>for a maximum of 9 <i>AMA PRA Category 1</i><br>ians should claim only the credit commen-<br>xtent of their participation in the activity. |

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### E-Poster Pr Windjami February 10, 2018 | Loews An

#### **STATION A**

#### **EDUCATION**

**Poster 1:** Impact Factors of Orthopaedic Journals Between 2010 and 2016

Nequesha Mohammed, MD, Rubin Institute for Advanced Orthopaedics

**Poster 2:** Orthopaedic Patients' Usage of a Provided Informational Internet Resource

Sean Meredith, MD, University of Maryland

#### ΗΙΡ

**Poster 3:** Comparison between Unilateral and Bilateral Pelvic Fixation Using the S2AI Mostafa H. El Dafrawy, MD, Johns Hopkins University \*Presented by Micheal Raad, MD

**Poster 4:** Effect of Smoking Status on Opioid Consumption After Total Hip Arthroplasty Jennifer I. Etcheson, MD, MS, Sinai Hospital of Baltimore

**Poster 5:** Fascia Iliaca Blockade With and Without Liposomal Bupivacaine for Hip Arthroscopy Patrick Grimm, MD, Walter Reed National Military Medical Center

#### KNEE

**Poster 6:** Use of Neuromuscular Electrical Stimulation May Reduce Arthrofibrosis after TKA Jennifer I. Etcheson, MD, MS, Sinai Hospital of Baltimore

**Poster 7:** Adjunctive Diclofenac Decreases Postoperative Pain and Opioid Consumption Following TKA Nicole George, DO, Rubin Institute for Advanced Orthopaedics

**Poster 8:** Does Obesity Affect Outcomes in Patients Undergoing PT Following TKA?

Nicole George, DO, Rubin Institute for Advanced Orthopaedics

**Poster 9:** Mid-Term Survivorship and Outcomes of Highly Cross-Linked Polyethylene in TKA Nicole George, DO, Rubin Institute for Advanced Orthopaedics

**Poster 10:** Presentation of Knee Osteoarthritis in the Emergency Department

Nicole George, DO, Rubin Institute for Advanced Orthopaedics

**Poster 11:** Can Global Budget Revenue Improve Costs and Quality in TKA?

Chukwuweike U. Gwam, MD, Rubin Institute for Advanced Orthopaedics

**Poster 12:** Novel Surgical Technique for Re-Tensioning Partial ACL Tears: Biomechanical Analysis Derek Nhan, BS, Johns Hopkins Children's Center

**Poster 13:** Biomechanical Analysis of InternalBrace Augmented Patellar Tendon Repair Compared to Standard Repair Technique David Weiner, MD, MedStar Union Memorial Hospital

#### LOWER EXTREMITY

**Poster 14:** Surgically Relevant Patterns in Triplane Fractures: A Mapping Study Matthew J. Hadad, BS, Johns Hopkins Hospital

**Poster 15:** Increased Opioid Consumption in Diabetics with Operative Ankle Fractures David Weiner, MD, MedStar Union Memorial Hospital

#### SHOULDER

**Poster 16:** Biomechanical Analysis of Shoulder Superior Capsular Reconstruction Mario Lobao, MD, MedStar Union Memorial Hospital \*Presented by Anand M. Murthi, MD

**Poster 17:** Biomechanical Analysis of Two Acromioclavicular Joint Reconstruction Techniques: LockDown versus Coracoclavicular Tape Reconstruction Roshan Melvani, MD, MedStar Union Memorial Hospital

**Poster 18:** Patient-Reported Outcomes in Shoulder Surgery Patients Using Preoperative Opioids Sean Meredith, MD, University of Maryland \*Presented by Vidushan Nadarajah, BA

**Poster 19:** Methodology to Directly Measure Patient Compliance to Shoulder Brace Wear Anshum Sood, BS, University of Maryland

#### **UPPER EXTREMITY**

**Poster 20:** The Epidemiology of NCAA Hand, Forearm, Elbow Injuries 2004/2005 - 2013/2014 Edward Fakhre, BS, Georgetown University

**Poster 21:** Transphyseal Humeral Separations are Associated with High Rates of Misdiagnosis Arun R. Hariharan, MD, MS, University of Maryland

**Poster 22:** Transphyseal Humeral Separations: What Can We Learn? Arun R. Hariharan, MD, MS, University of Maryland

**Poster 23:** Favorable Prognosis for Significant Upper Extremity Weakness Following ACDF Scott C. Wagner, MD, Walter Reed National Military Medical Center \*Presented by Alfred Pisano, MD

**Poster 24:** Where Do Midshaft Clavicle Fractures Really Occur? A Novel Fracture Zone Study David Weiner, MD, MedStar Union Memorial Hospital

**Poster 25:** Syringe External Fixator: An Inexpensive Treatment for Unstable Phalangeal Fractures Omer Yousaf, MD, Curtis National Hand Center

## esentations

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#### Presenters and times subject to change

#### **STATION B**

#### **MISCELLANEOUS**

**Poster 26:** Women Entering Academic Orthopaedics are Likelier to Choose Non-Pediatric Fellowships Walter B. Klyce III, BA, Johns Hopkins University

**Poster 27:** Head Mounted Display Use in Surgery: A Systematic Review Rafa Rahman, BS, Johns Hopkins University

#### ONCOLOGY

**Poster 28:** Clinical Indications for Prophylactic Stabilization of Metastatic Bone Disease Brett Shannon, MD, Johns Hopkins University \*Presented by Adam S. Levin, MD

#### **PEDIATRICS**

**Poster 29:** Childhood Obesity Associated with Physeal Injuries and Different Fracture Patterns Derek Nhan, BS, Johns Hopkins Children's Center

**Poster 30:** Delayed Primary Closure versus Split-Thickness Skin Grafts for Pediatric Fasciotomy Closures Derek Nhan, BS, Johns Hopkins Children's Center

#### SPINE

**Poster 31:** Multi-Level Vertebrectomy for Refractory Spondylodiscitis: Clinical Outcomes in 56 Patients Nissim Ackshota, MD, University of Maryland \*Presented by Alysa Nash, BS

**Poster 32:** Delayed Diagnosis of Tandem Spinal Stenosis: A Retrospective Institutional Review Amit Bhandutia, MD, University of Maryland \*Presented by Alysa Nash, BS

**Poster 33:** Prevalence of P. Acnes in Discs of Patients Undergoing ACDF Louis Bivona, MD, MS, University of Maryland

**Poster 34:** Posterior C1-2 Fusion of Type II Odontoid Fractures in Octogenarians Steven Clark, MD, University of Maryland \*Presented by Alysa Nash, BS

**Poster 35:** Risk of Rod Fracture in Adult Spinal Deformity Patients Undergoing Long Posterior Spinal Fusion and Three-Column Osteotomy Mostafa H. El Dafrawy, MD, Johns Hopkins University \*Presented by Micheal Raad, MD

**Poster 36:** Vertebral Column Resection for the Treatment of Adult Spinal Deformities: Outcomes and Complications with Minimum Two-Year Follow Up

Mostafa H. El Dafrawy, MD, Johns Hopkins University \*Presented by Micheal Raad, MD

**Poster 37:** Targeting an Epigenetic Regulator: Novel Treatment for Peripheral Nerve Injury Stephen Fernicola, MD, Uniformed Service University **Poster 38:** Risk for Cerebral Desaturation Events in the Beach Chair Position

Ashley Klein, MA, University of Maryland

**Poster 39:** Bracing and the Lumbar Spine in Adolescent Idiopathic Scoliosis Adam Margalit, MD, Johns Hopkins University

**Poster 40:** Adjacent Level Disc Height Predicts Cage Subsidence after TLIF Alfred Pisano, MD, Walter Reed National Military Medical Center

Poster 41: Depression and Anxiety Progression Affects Spine Surgery Patient-Reported Outcomes Rafa Rahman, BS, Johns Hopkins University

**Poster 42:** Biomechanical Evaluation of Lumbar Interbody Fusion for Adjacent Segment Disease Mark Shasti, MD, University of Maryland

Poster 43: Impaction Grafting Increases Bone Contact Area During TLIF

Andrew Trontis, MD, MedStar Union Memorial Hospital

**Poster 44:** Severe Lumbar Disability is Associated with Decreased Psoas Cross-Sectional Area Scott C. Wagner, MD, Walter Reed National Military Medical Center \*Presented by Alfred Pisano, MD

**Poster 45:** Does Diabetes Mellitus Affect Lumbar Paraspinal Muscle Morphometry? Scott C. Wagner, MD, Walter Reed National Military Medical Center \*Presented by Alfred Pisano, MD

**Poster 46:** Burden of Posterior Spinal Arthrodesis for AIS Patients and Parents

Matthew Wood, BS, Johns Hopkins Children's Center

**Poster 47:** Evaluation of Cross-links in Spinal Fusion in Cerebral Palsy Patients Mohammad Faroog Usmani, MSc, Johns Hopkins University

#### **TOTAL JOINT**

**Poster 48:** Major Depressive Disorder, Pain, and Opioid Consumption Following Total Joint Arthroplasty Jennifer I. Etcheson, MD, MS, Sinai Hospital of Baltimore

**Poster 49:** Modified One-Stage Revision Arthroplasty May Be Effective in Treating Periprosthetic Joint Infection Ahmed Siddiqi, DO, Philadelphia College of Osteopathic Medicine \*Presented by Nicole E. George, DO

**Poster 50:** Opioid Use Patterns One Year after Total Joint Replacement Andrea Stone, MSN, CRNP, Anne Arundel Medical Center

**Poster 51:** Does Sex Affect the Readmission Rate in Patients Undergoing Total Joint Replacement Surgery? Nader Toossi, MD, Rubin Institute

## Thank You Exhibitors

The Maryland Orthopaedic Association is grateful for the support of its exhibitors. Thank you for your participation and commitment to MOA.

## PREMIUM EXHIBITOR Stryker

## **EXHIBITORS**

ATI Physical Therapy Baxter Charter Radiology D & J Medical and Maryland Orthotics & Prosthetics DJO Global DePuy Synthes Ferring Pharmaceuticals Flexion Therapeutics Homewood Surgical NuLife Med Phoenix Medical Solutions Precision Medical Products Recro Pharma Restoration Orthopedics Shukla Medical Smith & Nephew, Inc. Supreme Orthopedic Systems Trinity Medical Consultants - Lima Wright WRS Zimmer Biomet

## Keep Orthopaedic Care Accessible & Affordable Contribute to the MOA PAC Today

The Maryland Orthopaedic Association Political Action Committee (MOA PAC) supports candidates and legislators at the state level who understand the challenges of practicing as an orthopaedist in Maryland, and who are responsive to the orthopaedic community's viewpoints and objectives. With the passage of legislation that will transform healthcare as we know it, your support is crucial.

Your contribution to the MOA PAC will help ensure orthopaedic care remains accessible and affordable for all Marylanders!

#### Contribute online at www.mdortho.org

Contributions to PACs are not tax deductible as charitable contributions. A person can contribute no more than \$4,000 to one Maryland state campaign account and a total of \$10,000 to all Maryland non-federal campaign accounts during the four year cycle, including in-kind contributions. The current cycle began on January 1, 2015 and will end December 31, 2018.