

A group of diverse young professionals, including men and women of various ethnicities, are seated in an audience. They are all smiling and clapping their hands, suggesting a celebratory or supportive atmosphere. The lighting is bright and warm, coming from a window on the right side of the frame. The background is slightly blurred, focusing attention on the people in the foreground.

**A LEGACY OF SUPPORT FOR
RESIDENT INVESTIGATORS**

IMPACT

2023 RESIDENT RESEARCH SYMPOSIA WINNERS

NATIONAL

2023 Richard Kyle, MD

OREF National Resident Champion

Brendan Shi, MD

University of California, Los Angeles

Bisphosphonate Chaperones Effectively Target the Enthesis Without Impairing Soft Tissue-to-Bone Repair Integrity

Top Scoring Residents

Christian Blough, MD

Cedars-Sinai

Hormonal Contraceptives Protect Against Ligament Injuries in Female Athletes

Edwin Chaharbakhshi, MD

West Virginia University

Does Cement Mixing Technique Affect Surgical Exposures to Contaminants and Operating Room Exposures to Volatile Organic Compounds?

Bijan Dehghani, MD

University of Pennsylvania

Defining In Vitro and In Situ Thresholds for Tension Activated Repair Patches

Mitchell Ng, MD

Maimonides Medical Center

Liposomal Bupivacaine Does Not Decrease Post-Operative Pain in Patients with Intracapsular Femoral Neck Fracture Treated with Hemiarthroplasty: A Double-Blinded Randomized, Controlled Trial

Presenters' Choice

Katherine Gerull, MD

Washington University in St. Louis

Attrition Amongst Residents Entering US Orthopedic Surgery Residency Programs: Analysis of National GME Census Data

MIDWEST

First Place

Ryan Furdock, MD

Case Western Reserve University/University Hospitals
Cleveland Medical Center

Culture Expansion Affects Stem Cell Secretome

Second Place

Katherine Gerull, MD

Washington University in St. Louis

*Attrition Among Residents Entering US Orthopedic Surgery
Residency Programs: Analysis of National GME Census Data*

Alex Kane Miller, MD

Beaumont Hospital Royal Oak

*Outpatient Spine Surgery in the Medicare Population: Trends in
Hospital Outpatient and Ambulatory Surgical Center Utilization,
2010-2021*

Third Place—4-Way Tie

Jonathan Ellis, MD

University of Cincinnati

*Intra-Articular Air and Hip Joint Radiodensity Correlate with
Posterior Wall Acetabulum Fracture Instability*

William Harkin, MD

Rush University Medical Center

*Clinical Outcomes and Survivorship of Lateral Unicompartmental
Knee Arthroplasty: A Large Single Surgeon Cohort*

Christopher Johnson, MD

University of Chicago

*Civilian Lumbosacral Ballistic Fractures and Their
Associated Injuries*

Cody Lee, MD

University of Chicago

*Long Head of the Biceps Autograft Performs Biomechanically
Similar to Human Dermal Allograft for Superior Capsule
Reconstruction After Rotator Cuff Tear*

Presenters' Choice

Margaret Sinkler, MD

University Hospitals, Case Western Reserve

*Subperiosteal Elevation of the Ulnar Nerve is a Safe and
Effective Way to Minimize Post-Operative Ulnar Neuritis in
Distal Humerus Fractures*

SOUTHEAST

First Place

Nainisha Chintalapudi, MD

Atrium Health/Carolinas Medical Center

*Fracture Related Infections after Low-velocity Ballistic Tibia
Fractures: What do Cultures Show?*

Second Place

Edwin Chaharbakhshi, MD

West Virginia University

*Does Cement Mixing Technique Affect Surgical Exposures
to Contaminants and Operating Room Exposures to Volatile
Organic Compounds?*

Rahul Goel, MD

Emory University School of Medicine

*Non-invasive Active Acoustics as Biomarkers of Early
Periprosthetic Joint Effusions, A Cadaveric Study*

Third Place

Janice Bonsu, MD

Emory University School of Medicine

*90-Day Post-Operative Complications Among Revision TKA
Patients Diagnosed with COVID-19 Postoperatively*

Eoghan T. Hurley, MD

Duke University

*Anterior Shoulder Instability – An International Delphi
Consensus Statement*

Bridger Rodoni, MD

Emory University School of Medicine

*Trends in Costs and Professional Reimbursements for Revision
Total Knee and Hip Arthroplasty*

Presenters' Choice

Benjamin Averkamp, MD

Atrium Health/Carolinas Medical Center

*Opioid-Free Surgery vs Traditional Perioperative Analgesia:
A Randomized Control Trial of Novel Clinical Care Pathway in
Elective Orthopedic Surgery*

CENTRAL WEST

First Place

Samuel Roswell Huntley, MD

University of Miami

Epidemiology and Video Analysis of Hamstring Injuries in the National Basketball Association

Second Place

David S. Constantinescu, MD

University of Miami

Intravenous Meloxicam versus Intravenous Ketorolac for Pain Control Following Total Joint Arthroplasty: A Randomized Controlled Trial

Sarah N. Powell, MD

University of Nebraska Medical Center

Female Medical Students' Interest in Orthopedics Decreased After Sawbones Lab

Third Place

Alexandra Cancio-Bello, MD

Mayo Clinic Arizona

Recent Workforce Trends in Orthopedic Surgery: Overall Attrition is Increasing, Yet Female Orthopedic Surgeons are Leaving More Frequently and Much Earlier in Their Careers

Galvin Loughran, MD

Stanford University

Effect of Ulnar Collateral Ligament Reconstruction on Off-Speed Pitch Performance in MLB Pitchers

Ellen L. Tsay, MD

University of California San Francisco

Early Clinical Outcomes of "Lemon-Dropped" Complex Primary Total Joint Arthroplasty Patients to a Tertiary Care Center

Presenters' Choice

Bryan Ang, MD

Lenox Hill Hospital, Northwell Health

Can Discharge Radiographics Predict Junctional Complications? A Decision Tree Analysis

STEADMAN PHILIPPON RESEARCH INSTITUTE FELLOWS

First Place

Maximilian Hinz, MD

The Steadman Philippon Research Institute (SPRI)

Malrotated Lateral Knee Radiographs Do Not Allow for A Proper Assessment of Medial or Lateral Posterior Slope

Second Place

Mark E. Cinque, MD

The Steadman Philippon Research Institute (SPRI)

Clinical Differences Between Medial and Lateral Sided Knee Dislocations at 10-year Follow-up

Ajay Kanakamedala, MD

The Steadman Philippon Research Institute (SPRI)

Distal Clavicle Excision is not Associated with Adverse Outcomes After Reverse Total Shoulder Arthroplasty

Third Place

Haruki Nishimura, MD, PhD

The Steadman Philippon Research Institute (SPRI)

Fisetin Treated Human Bone Marrow Aspirate Concentrate on Osteoarthritis Rats

Michael G. Rizzo, MD

The Steadman Philippon Research Institute (SPRI)

The Performance of ChatGPT on Orthopaedic In-Service Training Exams: A Comparative Study of the GT-3.5 Turbo and GPT-4 Models in Orthopaedic Education

Kohei Yamaura, MD, PhD

The Steadman Philippon Research Institute (SPRI)

A Unique Golf Ball-Like Cartilage Morphology of the Femoral Head-Neck Junction in Patients with Femoroacetabular Impingement Syndrome

Presenters' Choice

Phob Ganokroj, MD

The Steadman Philippon Research Institute (SPRI)

Biomechanical Evaluation of the Two Different Levels of Coracoid Graft Positions in the Latarjet Procedure for Anterior Shoulder Instability

WESTERN

First Place

Brendan Shi, MD

University of California, Los Angeles

Bisphosphonate Chaperones Effectively Target the Enthesis Without Impairing Soft Tissue-to-Bone Repair Integrity

Second Place

Christian Blough, MD

Cedars-Sinai

Hormonal Contraceptives Protect Against Ligament Injuries in Female Athletes

Brendon Mitchell, MD

University of California, San Diego

Danger Zone in Anterolateral Plate Fixation of the Distal Tibia – A 3D CT Angiography Model

Third Place

Samy Gabriel, MD

University of California, San Diego

The Effect of Adjacent Level Osteophytes on Proximal Junctional Kyphosis After Multi-Level Thoracolumbar Fusions

Michael Hachadorian, MD

University of California, San Diego

Association Between Same-Day Discharge Shoulder Arthroplasty and Risk of Adverse Events in Patients with American Society of Anesthesiologists Classification ≥ 3 : A Cohort Study

Rishi Trikha, MD

University of California, Los Angeles

A Systematic Review of Trainee Ethnic and Gender Diversity in Orthopaedic Surgery and Other Surgical Subspecialties

Presenters' Choice

Richard W. Lang III, MD

Naval Medical Center San Diego

Cervical Spine Conditions in United States Military Aviators: A 19-Year Retrospective Cohort

NORTHEAST

First Place

Mitchell Ng, MD

Maimonides Medical Center

Liposomal Bupivacaine Does Not Decrease Post-Operative Pain in Patients with Intracapsular Femoral Neck Fracture Treated with Hemiarthroplasty: A Double-Blinded Randomized, Controlled Trial

Second Place

Bijan Dehghani, MD

University of Pennsylvania

Defining in Vitro and In Situ Thresholds for Tension Activated Repair Patches

Gergo Merkely, MD, PhD

Harvard Combined Orthopaedic Residency Program

Identifying Anterior Cruciate Ligament Injuries Through Automated Video Analysis of In-Game Motion Patterns

Third Place

Troy Amen, MD

The Hospital for Special Surgery

Evaluation of Racial, Ethnic, and Socioeconomic Disparities an Indication for Carpal Tunnel Release

David N. Bernstein, MD

Harvard Combined Orthopaedic Residency Program

Do Commonly Used Geographically Based Social Determinant of Health (SDoH) Indices Measure the "Same Thing," and Which is Best in Orthopaedic Surgery?

David S. Liu, MD

Harvard Combined Orthopaedic Residency Program

Effect of Vitamin D In Prevention and Treatment of Pediatric Fractures

Presenters' Choice

Julie Retzky, MD

The Hospital for Special Surgery

Lateral Extra-Articular Tenodesis is Associated with Improved Graft Maturity on MRI Two Years Following Anterior Cruciate Ligament Reconstruction with Quadriceps Tendon Autograft in Skeletally Immature Athletes

SOUTHWEST

First Place

Junho Ahn, MD

University of Texas Southwestern Medical Center

Early Clinical Outcomes of Osteochondral Allograft for Capitellar Osteochondritis Dissecans in Adolescent Athletes

Second Place

Olivia Barron, MD

Baylor College of Medicine

Etiology of Acute Extremity Pediatric Compartment Syndrome: A Retrospective Review

Semran Thamer, MD

University of Texas at Austin Dell Medical School

The Relationship Between the Timing of Knee Osteoarthritis Diagnoses and Arthroscopic Partial Meniscectomy

Third Place

Kathleen Lundquist, MD

University of Texas Health Science Center, San Antonio

Comparing Fixation Techniques in Metacarpal Fractures: Intramedullary Screw versus Open Reduction Internal Fixation

Tyler Williamson, MD

University of Texas Health Science Center, San Antonio

The Fragility of Statistical Significance in the Use of Aspirin in Prevention of Venous Thromboembolism Events Following Hip Fracture Surgery: A Systematic Review

Qais Zai, MD

University of Texas at Austin, Dell Medical School

Factors Associated with Incidence and Recurrence of Lower Back Pain: A Large Population Analysis of the UK Biobank

Presenters' Choice Award

Stephanie Price, MD

University of Texas at Austin, Dell Medical School

Long Leg Cast Versus Hinged Knee Brace Immobilization After Surgical Treatment of Tibial Tubercle Fractures

CALIFORNIA ORTHOPAEDIC ASSOCIATION ANNUAL MEETING

Garrett Berger, MD

University of California, San Diego

Safe and Effective Aspirations and Nerve Blocks for the On-Call Orthopaedic Surgeons

MINNESOTA ORTHOPAEDIC SOCIETY ANNUAL MEETING

Ryan T. Conyer, MD

Mayo Clinic

Hemiarthroplasty versus Total Shoulder Arthroplasty in B2 Glenoids with an Intact Rotator Cuff: A Long-Term Matched Cohort Analysis

Nicholas Reiners, MD

University of Minnesota, Gillette Children's Hospital

Pediatric Hip Deformity from Legg Calve Perthes Disease: Assessing Trends in Treatment Over Time

The Orthopaedic Research and Education Foundation (OREF) is an independent 501(c)(3) non-profit organization committed to improving clinical practice and patient outcomes by funding outstanding research and mentoring new investigators to improve the lives of patients with musculoskeletal conditions.

Since its founding, OREF has provided nearly \$150 million in orthopaedic research grants and awards. Our active grant portfolio totals 107 research grants with a value of \$8.3 million. Current funding opportunities and a list of awarded grants may be accessed at www.oref.org/grants.



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