

# **Conference Program**

**Medical Student  
Research Conference  
September 14-16, 2022**

University of Iowa  
Roy J. & Lucille A. Carver College of Medicine

**Sponsored by:  
Medical Student Research Council**

Free to University of Iowa Students

# Medical Student Research Conference

Welcome to the 59<sup>th</sup> Annual Carver College of Medicine Student Medical Research Conference. This Conference provides an opportunity for medical students who have conducted research to present their results, receive feedback, and compete for awards.

## September 14, 2022

- 8:00 - 10:00 AM      Concurrent Oral Presentations  
1117, 1289, 2123, 2126, 2135, 2136, 2155, 2165, 2166, 2189 MERF
- 12:00 - 12:50 PM      Poster Session #1  
Medical Student Poster Presentations in MERF Atrium

## September 15, 2022

- 12:00 - 12:50 PM      Poster Session #2  
Medical Student Poster Presentations in MERF Atrium

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## September 16, 2022

### Awards Ceremony and Banquet

- 5:30 - 7:30 PM      Keynote Speaker, Award Presentations and Banquet Dinner  
Prem Sahai Auditorium and MERF Atrium

Keynote Speaker

**Bradley Van Voorhis, MD**

Professor of Obstetrics & Gynecology

Interim Chair & DEO, Department of Obstetrics & Gynecology

Director, Division of Reproductive Endocrinology and Infertility

Director, In Vitro Fertilization Program

Executive Vice Chair, Department of Obstetrics & Gynecology

*For student presenters and research mentors*

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# Awards

There are several Research Day awards, including five Foundation Awards given to outstanding oral and outstanding poster presentations, and departmental and college sponsored general awards given to the top oral and poster presentations in eligible categories.

## Foundation Awards

### The Borts Award

The Borts Award was established by the Alpha Psi Chapter of Alpha Kappa Kappa Medical Fraternity in 1974 to honor I.H. Borts, a graduate of the University of Iowa College of Medicine and long-time supporter of the AKK. He is a distinguished scientist who has long been associated with the State Hygienic Laboratory. As a student he was influential in founding the Alpha Psi Chapter and for over thirty years remained one of their most loyal alumni. This award is open to all students.

### The Edward Heath Award

In honor of Edward Heath, this award recognizes outstanding medical research. As Professor and Chairman of the Biochemistry Department at the University of Iowa, Heath was an outstanding example of a physician-scientist and supported excellence in research. His commitment to excellence was exemplified by the quality of research done in his laboratory as well as the many years spent teaching students. This award recognizes the student whose performance best represents outstanding achievement in the laboratory and the ability to communicate that achievement. All students will automatically be considered for this award.

### Melvin Marcus Clinical Research Award

This award was originally established as the Iowa Student Medical Research Club (ISMRC) Award in 1989. We are honored to dedicate this award to the memory of Melvin L. Marcus, faculty supervisor of the ISMRC for over a decade. Marcus was instrumental in maintaining the club as an integral part of the University of Iowa research community. Marcus was also actively involved in clinical research and teaching of students, both in the laboratory and on the wards. He was frequently honored by his colleagues for his achievements. In keeping with this tradition, the Marcus Clinical Research Award is presented to the student whose presentation reflects outstanding work performed within a clinical area involving intact organ physiology. This prize is open to students involved in such research.

## François M. Abboud Prize for Best Platform Presentation

This award was established in 2017 to honor Dr. François Abboud for his overall contributions as a research mentor and scholar. Abboud was instrumental in creating the research mentorship environment for medical students in the Carver College of Medicine from the time he joined the faculty in 1960. Abboud is known for his excellence in guiding students and colleagues in the principles of research. This award recognizes the student whose performance best represents outstanding communication in a podium presentation.

## Donald D. Heistad Prize for Best Poster Presentation

This award was established in 2017 to honor Donald Heistad who, along with Abboud, established the collaborative research and mentorship environment that has become a hallmark of the Carver College of Medicine and medical student experience. Heistad took the mentorship experience he received working with Abboud and developed his own style, always making time to work with students and discuss research ideas. This award recognizes the student whose performance best represents outstanding communication in a poster presentation.

## Global Health Programs

The Global Health Program will sponsor an award for Excellence in Global Health research. The award will be designated for the best poster or oral presentation by a medical student in the field of Global Health.

# Departmental Awards

### **ANATOMY AND CELL BIOLOGY**

The Department of Anatomy and Cell Biology will sponsor an award for *Excellence in Anatomy and Cell Biology Research* for the best poster or oral presentation by a medical student in the discipline of anatomy and cell biology.

### **ANESTHESIA**

The Department of Anesthesia will sponsor two awards; the *Margaret V. Lunsford Award for Research in Anesthesia* and the *Excellence in Basic Science Research* for the best oral or poster presentation by a medical student doing research in anesthesia.

### **BIOCHEMISTRY**

The Department of Biochemistry will sponsor The *Arthur A. Spector Award in Basic Biomedical Research* for the best oral or poster presentation by a medical student doing research in biochemistry.

## **DERMATOLOGY**

The Department of Dermatology will sponsor the *Excellence in Dermatology Research* award, designated for the best poster or oral presentation by a medical student in the discipline of dermatology.

## **EMERGENCY MEDICINE**

The Department of Emergency Medicine will sponsor an award for *Excellence in Emergency Medicine Research* for the best poster or oral presentation by a medical student in the discipline of emergency medicine.

## **FAMILY MEDICINE**

The Department of Family Medicine will sponsor an award for *Excellence in Family Medicine Research* designated for the best oral or poster presentation by a medical student in family medicine research.

## **HEALTH & HUMAN PHYSIOLOGY**

The Department of Human Physiology will sponsor the *Carl V. Gisolfi Research Award for Excellence in Health and Human Physiology*. The award will be designated for the best poster or oral presentation by a medical student in the discipline of human physiology.

## **INTERNAL MEDICINE**

The Department of Internal Medicine will sponsor three awards for outstanding student presentations. *The John Stokes Award for Research in Internal Medicine* is designated for the best poster or oral presentation by a medical student in the discipline of internal medicine. Two additional awards for *Excellence in Internal Medicine Research* are for best oral or poster presentation by a medical student for research in any division and in any project area.

## **MICROBIOLOGY & IMMUNOLOGY**

The Department of Microbiology and Immunology will sponsor the *Excellence in Microbiology and Immunology Research*, designated for the best oral or poster presentation by a medical student in microbiology research.

## **MOLECULAR PHYSIOLOGY & BIOPHYSICS**

The Department of Molecular Physiology and Biophysics will sponsor the *Research Excellence in Molecular Physiology and Biophysics* award, designated for the best poster or oral presentation by a medical student in the discipline of physiology and biophysics.

## **NEUROLOGY and NEUROSURGERY**

The Departments of Neurosurgery and Neurology will sponsor three awards for the best poster or oral presentation by a medical student designated as *Excellence in Basic Neuroscience Research*, *Excellence in Clinical Neuroscience Research*, and *Excellence in Translational Neuroscience Research*.

## **Neuroscience and Pharmacology**

The Department of Neuroscience and Pharmacology will sponsor an award for *Excellence in Neuroscience and Pharmacology Research*. The award will be designated for the best poster or oral presentation by a medical student in the discipline of neuroscience and pharmacology, either basic science or clinical investigation.

## **OBSTETRICS/GYNECOLOGY**

The Department of Obstetrics and Gynecology will sponsor two awards for *Excellence in Clinical Research in Obstetrics & Gynecology* and *Excellence in Obstetrics & Gynecology Research*, each designated for the best poster or oral presentation by a medical student in Ob-Gyn research.

## **OPHTHALMOLOGY**

The Department of Ophthalmology will sponsor three awards for the best oral or poster presentations by a medical student in eye research named in honor of former physicians; the *Thomas A. Weingeist Award in Ophthalmology*, the *William E. Scott Research Award in Ophthalmology*, and the *Hansjoerg E. Kolder Award for Ophthalmology Research*.

## **ORTHOPAEDICS**

The Department of Orthopaedics will sponsor two awards; the *Research Excellence in Orthopaedics* award, and the *Ponseti Prize in Orthopaedic Research*. The awards will be designated for the best poster or oral presentation by a medical student in basic, biomedical or clinical musculoskeletal/orthopaedic research.

## **OTOLARYNGOLOGY**

The Department of Otolaryngology will sponsor an award for *Excellence in Otolaryngology Research* designated for the best oral or poster presentation by a medical student in otolaryngology research.

## **PATHOLOGY**

The Department of Pathology will sponsor two awards to honor *Richard G. Lynch, MD*, for the best poster or oral presentation by a medical student. The award will be open to student research in any project area.

## **PEDIATRICS**

The Department of Pediatrics will sponsor two awards designated for the best oral or poster presentation by a medical student for *Excellence in Pediatric Clinical Research* and *Excellence in Pediatric Basic Science Research*.

## **PSYCHIATRY**

The Department of Psychiatry will sponsor three awards, the *George Winokur Research Award*, the *Bob Robinson Research Award* and the *Lauretta Bender Research Award*. The awards will be designated for the best poster or oral presentations by a medical student for research in psychiatry.

## **RADIOLOGY**

The Department of Radiology will sponsor the *Jason Martin, MD- Medical Student Research Award*. The award will be designated for the best poster or oral presentation by a medical student in image-based research. Martin graduated from the University of Iowa Carver College of Medicine and participated in medical research in the Radiology department as a medical student.

## **RADIATION ONCOLOGY**

The Department of Radiation Oncology will sponsor the *Larry W. Oberley Award in Radiation Oncology*. The award will be designated for the best poster or oral presentation by a medical student in the discipline of radiation oncology, for either basic science or clinical investigation.

## **SURGERY AND CARDIOTHORACIC SURGERY**

The Department of Surgery will sponsor two awards designated for the best poster or oral presentation by a medical student in the discipline of surgery: the *Kimberly Ephgrave Medical Student Award for Research in Surgery*, and the *Nicholas P. Rossi Award for Cardiothoracic Surgery Research*.

## **UROLOGY**

The Department of Urology will sponsor an award for *Excellence in Urology Research* designated for the best oral or poster presentation by a medical student in urology research.

# Outstanding Mentorship Awards

Students from the Summer Research Fellowship (SRF) began nominating outstanding research mentors in 2016. These award winners are selected from among nominations submitted by medical student research students at the completion of their summer research experience. This year we are awarding *Outstanding Mentorship in Clinical Research*, *Outstanding Mentorship in Basic Research* and *Outstanding Mentorship in Translational Research*.

A special thank you to:

The Iowa Medical Student Research Council - Robert Roghair, Director  
CCOM Office of Student Affairs and Curriculum staff;  
the Departments of Anatomy and Cell Biology, Anesthesiology, Biochemistry,  
Dermatology, Emergency Medicine, Family Medicine, Health and Human Physiology,  
Internal Medicine, Microbiology & Immunology, Molecular Physiology & Biophysics,  
Neurology, Neuroscience and Pharmacology, Neurosurgery, Obstetrics & Gynecology,  
Ophthalmology, Orthopedics, Otolaryngology, Pathology, Pediatrics, Psychiatry,  
Radiology, Radiation Oncology, Surgery and Cardiothoracic Surgery, and Urology;  
Institute for Clinical and Translational Science

# Acknowledgements

## Judges

David Bedell, MD  
Edward Bell, MD  
Jennifer Bermick, MD  
Gail Bishop, PhD  
Noelle Bowdler, MD  
Catherine Bradley, MD  
Kyle Brown, MD, MSc  
James Byrne, MD, PhD  
Erica Carlisle, MD  
Carlos Chan, MD, PhD  
Mitchell Coleman, PhD  
Marcelo Correia, MD, PHD  
Karen Cyndari, MD, PhD  
Benjamin Darbro, MD, PHD  
Brandon Davies, PhD  
Natalie Denburg, PhD  
Arlene Drack, MD  
Alina Dumitrescu, MD  
Elissa Faro, PhD  
Melissa Fath, PHD  
John Fingert, MD, PhD  
Anthony Fischer, MD, PHD  
Colette Galet, PhD  
Jessica Goetz, PhD  
Oliver Gramlich, PHD  
Serena Gumusoglu, PhD  
Sarah Haskell, DO  
Karin Hoth, PhD  
Ying Hsu, PhD

Unyime Ituk, MBBS  
Charles Jennissen, MD  
Michael Knudson, MD, PhD  
Matt Krasowski, MD, PhD  
Clare Kreiter, PhD  
Sangil Lee, MD, MS  
Barry London, MD, PHD  
Patrick McGonagill, MD  
Kelly Messingham, PHD  
Robert Mullins, PhD  
Manasa Nayak, PHD  
Robin Paetzold, MBA  
Krystal Parker, PhD  
Catherina Pinnaro, MD  
Ana-Monica Racila, PhD  
Robert Roghair, MD  
Andrew Russo, PhD  
Youcef Rustum, PhD  
Donna Santillan, PHD  
Mark Santillan, MD, PHD  
Todd Scheetz, PhD  
Kelly Skelly, MD  
Hanna Stevens, MD, PhD  
Colleen Stockdale, MD  
Sudhakar Subramani, MBBS  
Budd Tucker, PhD  
Annah Vollstedt, MD  
Cynthia Wong, MD



# Student Presentations (Oral)

**Trevor Allen, M1, Oral Presentation 2126 at 9:00 AM**

**Title:** *Cemented Vs. Cementless Total Knee Replacement And Associated Learning Curve*

**Mentor:** Nicolas Noiseux and Taylor Denhartog, Orthopaedics and Rehabilitation

**Patrick Allen, M2, Oral Presentation 2189 at 9:30 AM**

**Title:** *Predicting Urine Drug Screen False-Positives Using Machine Learning*

**Mentor:** Matthew Krasowski, Pathology

**Emily Anderson, M4, Oral Presentation 1289 at 8:30 AM**

**Title:** *Experience Of Peripartum Complications Including Puerperal Infections, Preeclampsia, And Hemorrhage Is Independently Associated With Lower Breastfeeding Rates Among First-Time Birthing Parents*

**Mentor:** Stephanie Radke, Obstetrics & Gynecology

**Tyler Atagozli, M2, Oral Presentation 2123 at 8:00 AM**

**Title:** *Constitutive Activation Of Stat6 Regulates Graft-Versus-Host Disease And Preserves Graft-Versus-Tumor Effect After Allogeneic Bone Marrow Transplantation*

**Mentor:** M. Nedim Ince, Internal Medicine

**Alaina Berg, M3, Oral Presentation 2135 at 8:15 AM**

**Title:** *Increased Guideline Adherence And Decreased Ards Incidence With Protocolized Mechanical Ventilation*

**Mentor:** Nicholas Mohr, Emergency Medicine

**Chandler Brown, M2, Oral Presentation 2123 at 8:15 AM**

**Title:** *The Interplay Between Insulin Action, Body Composition And Muscle Function In Type 1 Diabetes.*

**Mentor:** Brian O'Neill, Internal Medicine

**Renee Cafun, M2, Oral Presentation 1289 at 8:45 AM**

**Title:** *Antiphospholipid Antibodies – Should We Screen All Women With Recurrent Pregnancy Loss?*

**Mentor:** Brad Van Voorhis, Obstetrics & Gynecology

**Erin Capper, M2, Oral Presentation 2135 at 9:15 AM**

**Title:** *Early Utilization Of Ketogenic Diet Worsens Visual And Motor-Sensory Deficits In Animal Model Of Multiple Sclerosis*

**Mentor:** Oliver Gramlich, Ophthalmology & Visual Sciences

**Michelle Chen, M2G, Oral Presentation 2123 at 8:30 AM**

**Title:** *The Role Of Social Touch Neurons In Stress Resilience*

**Mentor:** Rainbo Hultman, Molecular Physiology and Biophysics

# Student Presentations (Oral)

**David Chenoweth, M2, Oral Presentation 2155 at 9:30 AM**

*Title: Retrospective Review In Adolescents With Type 1 Diabetes*

**Mentor:** Catherina Pinnaro, Pediatrics

**Keegan Christensen, M2, Oral Presentation 2123 at 8:45 AM**

*Title: Targeting Cxcr4 And Thioredoxin Reductase In High Grade Neuroendocrine Tumors & Neuroendocrine Carcinomas*

**Mentor:** Douglas R. Spitz, Radiation Oncology

**Carolina Chu, M2, Oral Presentation 1117 at 8:00 AM**

*Title: Evaluating Colony Formation Efficiency (Cfe) Of Basal Cells Along Different Levels Of The Ferret Airway*

**Mentor:** Kalpaj Parekh, Cardiothoracic Surgery

**Daniel Conway, M2, Oral Presentation 1117 at 8:15 AM**

*Title: Defining Relative Amount Of Myocardium At Risk For Cabg Patients*

**Mentor:** Arun Singhal, Cardiothoracic Surgery

**Spencer Dempewolf, M2, Oral Presentation 2189 at 8:00 AM**

*Title: Impact Of Previous Hip Arthroscopy On Outcomes Of Periacetabular Osteotomy To Treat Hip Dysplasia*

**Mentor:** Michael Willey, Orthopaedics and Rehabilitation

**Ana DiSpirito, M2, Oral Presentation 2136 at 8:45 AM**

*Title: Depression In The Time Of Covid-19: Examination Of Prenatal And Postpartum Depression Rates, Rurality, And The Impact Of Covid-19*

**Mentor:** Donna Santillan, Obstetrics & Gynecology

**Yumeng Engelking, M1, Oral Presentation 2136 at 8:15 AM**

*Title: Intracortical Myelin Differences Among Patients With Huntington'S Diseases*

**Mentor:** Timothy Kosciuk, Psychiatry

**Riley Filister, M2, Oral Presentation 2136 at 8:30 AM**

*Title: Can Topical Eyedrops Prevent Sympathetic Nerve Vasoconstriction Of Ocular Vasculature?*

**Mentor:** Randy H. Kardon, Ophthalmology & Visual Sciences

**Madeline Fitzhugh, M2, Oral Presentation 2126 at 8:00 AM**

*Title: Artificial Intelligence To Determine The Age Of A Hand*

**Mentor:** Jennifer Powers, Dermatology

# Student Presentations (Oral)

**Julia Fleecs, M2, Oral Presentation 1289 at 9:00 AM**

***Title:** Association Between The Presence Of Pelvic Floor Disorders And Degree Of Physical Activity In A Cohort Of Ugandan Women*

**Mentor:** Kimberly Kenne, Obstetrics & Gynecology

**Gabrielle Frediani, M2, Oral Presentation 2135 at 8:30 AM**

***Title:** A Nationwide Emergency Department Data Analysis To Evaluate Health Disparities In High-Risk Medication Use Among Older Adults*

**Mentor:** Sangil Lee, Emergency Medicine

**Brian Gu, M1, Oral Presentation 2155 at 9:00 AM**

***Title:** Retrospective Cohort Study Of Patients With Multiple Days Fully Awake In The Intensive Care Unit*

**Mentor:** Rachel Hadler and Franklin Dexter, Anesthesia

**Chris Halbur, M4, Oral Presentation 2135 at 8:45 AM**

***Title:** The Impact Of Alcohol Sales In A College Football Stadium On Healthcare Utilization*

**Mentor:** Hans House, Emergency Medicine

**Nicole Hines, M2B, Oral Presentation 2189 at 9:45 AM**

***Title:** Improving Transgender Health Care By Inclusion Of Evidence-Based Information On Laboratory Testing In The Electronic Medical Record*

**Mentor:** Matthew Krasowski, Pathology

**Dake Huang, M4, Oral Presentation 1117 at 9:30 AM**

***Title:** Neuropeptide S (Nps) Neurons: Parabrachial Identity And Novel Distributions*

**Mentor:** Joel Geerling, Neurology

**Brianna Iverson, M1, Oral Presentation 2135 at 9:00 AM**

***Title:** Rural Adolescent Attitudes And Use Of Equestrian Helmets*

**Mentor:** Charles Jennissen, Emergency Medicine

**Claire Jager, M2, Oral Presentation 2126 at 8:15 AM**

***Title:** Changes In IgG Levels In Patients Treated With Plasma Exchange Using 5% Albumin With Or Without Ivig Vs Plasma*

**Mentor:** C. Michael Knudson, Pathology

**Ryan Jasper, M2, Oral Presentation 2189 at 8:15 AM**

***Title:** Relationship Between Patient Reported Outcomes And Residual Deformities In Adult Clubfoot Patients Treated With The Ponseti Technique*

**Mentor:** Jose A. Morcuende and Cesar de Cesar Netto, Orthopaedics and Rehabilitation

# Student Presentations (Oral)

**JaNiese Jensen, M2, Oral Presentation 1289 at 9:15 AM**

*Title: The Association Of Pelvic Floor Disorders With Risk Factors Among Parous Ugandan Women*

**Mentor:** Kimberly Kenne, Obstetrics & Gynecology

**Matthew Jones, M2, Oral Presentation 1117 at 9:15 AM**

*Title: Evaluating Severity Of Carotid Artery Stenosis Using Cerebral And Ocular Perfusion Metrics*

**Mentor:** Edgar Samaniego, Neurology

**Mallory Kallish, M2, Oral Presentation 1289 at 8:00 AM**

*Title: Indications And Amount Of Clinical Follow-Up After Mifepristone And Misoprostol For Miscarriage Management, Actual Clinical Use Study*

**Mentor:** Abbey Hardy-Fairbanks and Colleen Stockdale, Obstetrics & Gynecology

**Kyle Kato, M2, Oral Presentation 2123 at 9:30 AM**

*Title: Dynamic Ultrasound Measurement Of Median Nerve Kinematics In The Carpal Tunnel*

**Mentor:** Joseph Buckwalter V, Orthopaedics and Rehabilitation

**Michaela Kiel, M2, Oral Presentation 1289 at 9:30 AM**

*Title: Psychiatric And Obstetric Disease Share Vascular Mechanisms In The Rgs2 Knockout Mouse*

**Mentor:** Mark Santillan, Obstetrics & Gynecology

**Matthew Kigin, M2, Oral Presentation 2165 at 8:00 AM**

*Title: Dmek Scrolls At 2,000 Frames Per Second: The Relationship Between Scroll Velocity And Tissue Characteristics*

**Mentor:** Christopher Sales, Ophthalmology & Visual Sciences

**Jacob Lam, M2, Oral Presentation 2165 at 9:45 AM**

*Title: A Complex Task: Characterizing Patients Presenting With Chronic Scrotal Content Pain*

**Mentor:** Amy Pearlman, Urology

**Alex Leach, M2, Oral Presentation 2123 at 9:00 AM**

*Title: Use Of Novel Biofoams To Improve Diabetic Wound-Healing*

**Mentor:** James Byrne, Radiation Oncology

**Grace Lee, M3, Oral Presentation 2126 at 8:30 AM**

*Title: Lung Cancer Screening Program Adherence In A Tertiary Academic Center*

**Mentor:** Richard Hoffman, Epidemiology

# Student Presentations (Oral)

## **Ben Linden, M3, Oral Presentation 2123 at 9:15 AM**

**Title:** *Examining The Differential Role Of The Cb1 Inverse Agonist Rimonabant In Regulation Of Food Intake And Energy Balance In Mice On Different Diet Compositions*

**Mentor:** Mohamad Mokadem, Internal Medicine

## **Connor Littlefield, M2, Oral Presentation 2136 at 9:00 AM**

**Title:** *Incidence Of Rapid Source Control Laparotomy Over Time And Impact On Patients' Outcomes*

**Mentor:** Dionne Skeete and Colette Galet, Surgery

## **Vineel Mallavarapu, M2, Oral Presentation 2189 at 8:30 AM**

**Title:** *Three-Dimensional Weight Bearing Ct Distance And Coverage Mapping Assessment Of Hallux Valgus Deformity. A Case-Control Study.*

**Mentor:** Cesar de Cesar Netto, Orthopaedics and Rehabilitation

## **Srija Manchkanti, M2, Oral Presentation 2155 at 8:15 AM**

**Title:** *Analyzing molecular profiles and clinical responses of patients with clear cell renal cell carcinoma: a retrospective study*

**Mentor:** Youcef Rustum and Yousef Zakharia, Internal Medicine

## **Alex Marti, M2, Oral Presentation 2126 at 8:45 AM**

**Title:** *Efficacy Of Intralesional Steroid Injections In The Treatment Of Cutaneous Lymphoma: Experience At An Academic Medical Center And Review*

**Mentor:** Vincent Liu, Dermatology

## **Elle McCormick, M2, Oral Presentation 2123 at 9:45 AM**

**Title:** *A Retrospective Review Of Trends In Return To Sport Following Anterior Cruciate Ligament (Acl) Reconstruction In Athletes*

**Mentor:** Robert Westermann and Michael Willey, Orthopaedics and Rehabilitation

## **Ian McElree, M2, Oral Presentation 2165 at 9:30 AM**

**Title:** *Sequential Intravesical Gemcitabine And Docetaxel Versus Bacillus Calmette–Guérin For The Treatment Of High-Risk Non-Muscle Invasive Bladder Cancer*

**Mentor:** Vignesh Packiam, Urology

## **Andrew McKeen, M2, Oral Presentation 2165 at 8:15 AM**

**Title:** *Factors Impacting Enrollment Of Black And Hispanic Patients In Clinical Trials: A Multicenter Patient Survey*

**Mentor:** Mohammed Suraju, Surgery

# Student Presentations (Oral)

## **Ashray Mohan, M2, Oral Presentation 2165 at 8:30 AM**

**Title:** *The Evaluation Of 3D And Augmented Reality Models In Teaching Of Congenital Heart Diseases*

**Mentor:** Ravi Ashwath, Pediatrics

## **Bryan Mouser, M2, Oral Presentation 2166 at 8:00 AM**

**Title:** *Are Ankle Contact Stresses Elevated Following Low-Energy Ankle Fractures?*

**Mentor:** Don Anderson, Orthopaedics and Rehabilitation

## **Jack Ohringer, M2, Oral Presentation 2166 at 9:45 AM**

**Title:** *Mental Healthcare Gaps And Highlights From The Perspective Of A New Critical Access Mental Health Care Center In Iowa City*

**Mentor:** Abbey Ferenzi, Psychiatry

## **Emily Parker, M4, Oral Presentation 2166 at 8:45 AM**

**Title:** *Menstrual Hormone-Induced Cyclic Thumb Cmc Instability And Degeneration In Women: A Systematic Review*

**Mentor:** Joseph Buckwalter V, Orthopaedics and Rehabilitation

## **Rishi Patel, M2, Oral Presentation 1117 at 9:00 AM**

**Title:** *Morphological Analysis Of Intracranial Aneurysms*

**Mentor:** Edgar Samaniego, Neurology

## **Cole Pennock, M2, Oral Presentation 2126 at 9:15 AM**

**Title:** *Incidence And Risk Factors For Bilateral Patellofemoral Instability*

**Mentor:** Robert Westermann, Orthopaedics and Rehabilitation

## **Anthony Piscopo, M3, Oral Presentation 1117 at 9:45 AM**

**Title:** *Postoperative Muscle Relaxant Use Associated with Increased Risk of Delirium Following Lumbar Spinal Fusion*

**Mentor:** Woodroffe R, Neurosurgery

## **Ashrita Raghuram, M1, Oral Presentation 1117 at 8:45 AM**

**Title:** *3D Aneurysm Wall Enhancement Is Associated With Symptomatic Status*

**Mentor:** Edgar Samaniego, Neurology

## **Anna Reelfs, M2, Oral Presentation 2165 at 8:45 AM**

**Title:** *Pain Interference And Fatigue In Limb-Girdle Muscular Dystrophy R9, Fkrp Related*

**Mentor:** Katherine Mathews, Pediatrics

# Student Presentations (Oral)

**Madeline Rhomberg, M1, Oral Presentation 2165 at 9:00 AM**

*Title: Exploring Spiral Ganglion Neuron Pathfinding And Ability To Turn In Response To Biophysical Cues*

**Mentor:** Marlan R. Hansen, Otolaryngology - Head & Neck Surgery

**Braden Rolig, M2, Oral Presentation 2189 at 9:15 AM**

*Title: A Decade Of Oncologic Breast Reconstruction Outcomes*

**Mentor:** Kelly Ledbetter, Surgery

**Nicolas Ronkar, M2, Oral Presentation 2189 at 9:00 AM**

*Title: Predictors And Impact Of Pneumonia On Adverse Outcomes In Inhalation Injury Patients*

**Mentor:** Lucy Wibbenmeyer, Surgery

**Marshall Rupe, M2, Oral Presentation 2126 at 9:30 AM**

*Title: Efficacy Of Ultrasound-Guided Tenotomy And Platelet-Rich Plasma For Lateral Epicondylitis*

**Mentor:** Joseph Buckwalter V, Orthopaedics and Rehabilitation

**Stephanie Saey, M4, Oral Presentation 2165 at 9:15 AM**

*Title: Experience With Subcutaneous Desmopressin In Patients With Von Willebrand Disease (Vwd) And Qualitative Platelet Function Disorders*

**Mentor:** Anjali Sharathkumar, Pediatrics

**Peter Sanchez, M3, Oral Presentation 2166 at 8:15 AM**

*Title: A Peripheral Compressive Neuropathy Model To Visualize Pathology At The Neuromuscular Junction*

**Mentor:** Joseph Buckwalter V, Orthopaedics and Rehabilitation

**Noah Scigliano, M1, Oral Presentation 2166 at 8:30 AM**

*Title: The Effect Of Full-Body Weight Loading On Ulnar Variance: An Upper Extremity Wbct Study*

**Mentor:** Joseph Buckwalter V, Orthopaedics and Rehabilitation

**Zach Shepard, M2, Oral Presentation 2136 at 9:15 AM**

*Title: Investigating The Presence Of Ferritinophagy In Fuchs Endothelial Corneal Dystrophy*

**Mentor:** Mark Greiner, Ophthalmology & Visual Sciences

**Bryce Shonka, M3, Oral Presentation 2136 at 9:30 AM**

*Title: Preventing Preservation-Associated Oxidative Damage In Donor Corneal Endothelial Cells*

**Mentor:** Mark Greiner, Ophthalmology & Visual Sciences

**Megan Sinik, M3, Oral Presentation 2155 at 8:30 AM**

*Title: Food Insecurity Within The High Risk Obstetric Clinic*

**Mentor:** Michael Haugsdal, Obstetrics & Gynecology

# Student Presentations (Oral)

**Aravin Sivamurugan, M2, Oral Presentation 2155 at 9:15 AM**

***Title:** The Hemodynamic Changes Associated With Total Spinal Anesthesia In Infants Undergoing Cardiac Surgery*

**Mentor:** Satoshi Hanada, Anesthesia

**Isaac Slagel, M1, Oral Presentation 2155 at 8:00 AM**

***Title:** Sepsis Is Associated With An Extended Pro-Inflammatory Cytokine Response Compared To A Critically-Ill Control*

**Mentor:** Patrick McGonagill and Colette Galet, Surgery

**Grant Stalker, M2, Oral Presentation 2126 at 9:45 AM**

***Title:** Long-Covid Longitudinal Symptomatology*

**Mentor:** Alejandro Pezzulo, Internal Medicine

**Elliot Stalter, M2, Oral Presentation 2155 at 9:45 AM**

***Title:** Somatic Growth Outcomes In Response To A Neonatal Sodium Supplementation Protocol*

**Mentor:** Lyndsay Harshman, Pediatrics

**Hannah Stebral, M2, Oral Presentation 2166 at 9:00 AM**

***Title:** Defining Normal Articular Characteristics Of The Primary Joints Of The Foot And Ankle: A 3D Hounsfield Algorithm Weight Bearing Ct Study*

**Mentor:** Don Anderson, Orthopaedics and Rehabilitation

**Hannah Sullivan, M2, Oral Presentation 1289 at 9:45 AM**

***Title:** The Effect Of In Vivo And In Vitro Preeclamptic Conditions On Cardiovascular Measures And Phenotypes*

**Mentor:** Mark Santillan, Obstetrics & Gynecology

**Lauren Tabor, M2G, Oral Presentation 2136 at 9:45 AM**

***Title:** Identifying The Effects Of Neuromodulation On Airway Repair*

**Mentor:** David Stoltz, Internal Medicine

**Betty Tu, M2, Oral Presentation 2135 at 9:30 AM**

***Title:** Concordance Of Steroid Responses In Patients Treated For >1 Episodes Of Acute Alcoholic Hepatitis*

**Mentor:** Kyle Brown, Internal Medicine

**David Turaczyk Kolodziej, M2, Oral Presentation 2136 at 8:00 AM**

***Title:** Investigating Functional Connectivity Of Cortical Networks In Presymptomatic Children And Adolescents At Risk For Huntington'S Disease*

**Mentor:** Peg Nopoulos, Psychiatry



# Student Presentations (Oral)

**Ravina Vasanwala, M2, Oral Presentation 1289 at 8:15 AM**

**Title:** *Incidence Of Success And Procedural Intervention After Mifepristone And Misoprostol For Miscarriage Management, Actual Clinical Use Study*

**Mentor:** Abbey Hardy-Fairbanks and Colleen Stockdale, Obstetrics & Gynecology

**Ramya Vemulapalli, M2, Oral Presentation 2155 at 8:45 AM**

**Title:** *Pelvic Floor Disorders In Parous Ugandan Women*

**Mentor:** Kimberly Kenne, Obstetrics & Gynecology

**Aneli Villa, M2, Oral Presentation 2135 at 9:45 AM**

**Title:** *Enhancing Culturally Responsive Foot Care For Patients With Diabetes: An Assessment Of Patient Experiences And A Proposed Educational Innovation*

**Mentor:** Martha Carvour, Internal Medicine

**Michael Westphal, M2, Oral Presentation 2166 at 9:15 AM**

**Title:** *Examining Long-Term Outcomes Of High Tibial Osteotomies & Distal Femoral Osteotomies*

**Mentor:** Robert Westermann and Kyle Duchman, Orthopaedics and Rehabilitation

**Anushi Wijayagunaratne, M2, Oral Presentation 1117 at 8:30 AM**

**Title:** *Identifying Visual Thresholds By Varying Stimulus Size*

**Mentor:** Michael Wall and Edward Linton, Neurology

**Cole Wymore, M2, Oral Presentation 2135 at 8:00 AM**

**Title:** *The Impact Of Inter-Hospital Transfer On Elements Of Sepsis Care Prior To Transfer*

**Mentor:** Nicholas Mohr, Emergency Medicine

**Mao Ye, M2, Oral Presentation 2189 at 8:45 AM**

**Title:** *Surgical Site Infection (Ssi) Rates In Patients With Acute Bowel Perforation: Is Rapid Source Control Laparotomy (Rscl) Better Than Laparotomy With Primary Fascial Closure (Lpfc)?*

**Mentor:** Dionne Skeete, Surgery

**Amy Zeller, M2, Oral Presentation 2166 at 9:30 AM**

**Title:** *The Functional Consequences Of Radiation Treatment In Soft Tissue Sarcoma Of The Extremity*

**Mentor:** Benjamin Miller, Orthopaedics and Rehabilitation

# Student Presentations (Poster)

## Suchet Anand, M2, Poster Presentation Wednesday #65

**Title:** *Relationships Between Lung Inflammation, Measures Of Cognition, And Brain Mri In Heavy Smokers*

**Mentor:** Karin Hoth, Psychiatry

## Eric Bracken, M2, Poster Presentation Thursday #66

**Title:** *Image-Based Assessment Of Smoking Associated Emphysema Etiology*

**Mentor:** Eric A. Hoffman, Radiology

## Sam Braza, M2, Poster Presentation Thursday #30

**Title:** *Characterizing Relative Three-Dimensional Alignment Of The Hip, Knee, Ankle And Foot Under Physiological Upright Load. A Weight-Bearing Computed Tomography Study In Arthritic Joints And Healthy Controls*

**Mentor:** Jacob Elkins, Orthopaedics and Rehabilitation

## Michelle Bremer, M3, Poster Presentation Wednesday #23

**Title:** *Robust Outcomes For Hispanic Lung Transplant Recipients In The United States*

**Mentor:** Kamyar Afshar, University of California-San Diego

## Jack Caplan, M2, Poster Presentation Wednesday #55

**Title:** *Respiratory Variability Predicts Severity Of Hypoxemia After Generalized Convulsive Seizures*

**Mentor:** Rup Sainju, Neurology

## Sahil Chawla, M2, Poster Presentation Wednesday #15

**Title:** *Characteristics Of Patients Who Develop Cell Checkpoint Inhibitor Bp Compared To Classic Onset Bp.*

**Mentor:** Kelly Messingham, Dermatology

## Tracy Chen, M2, Poster Presentation Wednesday #17

**Title:** *Phenotypic And Transcriptional Characterization Of T Cell Subsets In Bullous Pemphigoid Patients*

**Mentor:** Kelly Messingham, Dermatology

## Nathan Chen, M2, Poster Presentation Thursday #32

**Title:** *Three-Dimensional Weight Bearing Ct Assessment Of Lesser Toe Deformities. A Case-Control Study.*

**Mentor:** Cesar de Cesar Netto, Orthopaedics and Rehabilitation

## Katy Clevenger, M2, Poster Presentation Thursday #22

**Title:** *Current Screening Practices For Perinatal Mood And Anxiety Disorders And Perinatal Substance Use Disorders*

**Mentor:** Stephanie Radke, Obstetrics & Gynecology

# Student Presentations (Poster)

**Kendall Cornick, M2, Poster Presentation Thursday #54**

*Title: Investigation Of Neuroinflammation In Hemophila A*

**Mentor:** Janice Staber, Pediatrics

**Inna Couri, M2, Poster Presentation Wednesday #9**

*Title: Defining Relative Amount Of Myocardium At Risk For Cabg Patients*

**Mentor:** Arun Singhal, Cardiothoracic Surgery

**Erik Davis, M2, Poster Presentation Thursday #68**

*Title: The Effect Of Preoperative Tamsulosin On Intra-Operative Outcomes In Children Undergoing Ureteroscopy To Treat Kidney Stones*

**Mentor:** Douglas Storm, Urology

**Abigail Davison, M1, Poster Presentation Wednesday #47**

*Title: Examining The Role Of Cortical Cgrp Neurons In Migraine*

**Mentor:** Andrew Russo, Neurology

**Alex Dou, M2, Poster Presentation Thursday #6**

*Title: Dissociating The Structural Determinants Of Angptl3-Mediated Inhibition Of El And Lpl*

**Mentor:** Brandon Davies, Biochemistry

**Levi Doyle, M2G, Poster Presentation Wednesday #1**

*Title: Sleeping Beauty As A Novel Screening Tool For Identifying Mechanisms Of Venetoclax Resistance In Acute Myeloid Leukemia*

**Mentor:** Adam Dupuy, Anatomy & Cell Biology

**Tony El-Sokkary, M2, Poster Presentation Wednesday #7**

*Title: Associations Between Quantitative Ct Imaging And Plasma Biomarkers Of Copd?*

**Mentor:** Joseph Reinhardt, Biomedical Engineering

**Caleb Escudero, M2, Poster Presentation Thursday #44**

*Title: Thin Film Zwitterionic Hydrogel Coating On Inner Surfaces Of Tympanostomy Tubes Facilitates Mucus Discharge*

**Mentor:** Marlan R. Hansen, Otolaryngology - Head & Neck Surgery

**Zack Fleishhacker, M4, Poster Presentation Thursday #42**

*Title: Development Of The Ideal Pediatric Airway Emergency Cart: Standardization, Streamlining, And Simulation*

**Mentor:** Sohit Kanotra, Otolaryngology

# Student Presentations (Poster)

## **Kory Ford, M4, Poster Presentation Thursday #24**

**Title:** *Distal Biceps Tendon Reconstruction With Achilles Tendon Allograft: A Case-Series*

**Mentor:** Joseph Buckwalter V, Orthopaedics and Rehabilitation

## **Garrick Gama, M3, Poster Presentation Wednesday #35**

**Title:** *A Case Of Idiopathic Plastic Bronchitis In An Adult Post-Lung Transplantation*

**Mentor:** Kamyar Afshar, UCSD School of Medicine

## **Grace Gasser, M1G, Poster Presentation Wednesday #3**

**Title:** *Defining Pulmonary Ionocyte Biology Using The Foxi1-Ko Ferret Model*

**Mentor:** John Engelhardt, Anatomy & Cell Biology

## **Lina Gu, M2, Poster Presentation Wednesday #37**

**Title:** *Sodium-Glucose Cotransporter-1 In Diabetic Cardiomyopathy*

**Mentor:** Ferhaan Ahmad, Internal Medicine

## **Emma Hartness, M2, Poster Presentation Wednesday #57**

**Title:** *Development Of A Portable Automated Evaluation Of Ocular Misalignment*

**Mentor:** Randy H. Kardon and Alina Dumitrescu, Ophthalmology & Visual Sciences

## **Sam Hatfield, M1G, Poster Presentation Thursday #62**

**Title:** *Confirmation Of Cre-Inducible Rabl6A Overexpression In Mouse Embryo*

**Fibroblasts Mentor:** Dawn Quelle, Neuroscience & Pharmacology

## **Sally Heaberlin, M4, Poster Presentation Thursday #8**

**Title:** *How Providers Screen And Communicate With Patients About Food Insecurity In The Primary Care Setting*

**Mentor:** Marcy Rosenbaum, Family Medicine

## **Nicholas Henderson, M2, Poster Presentation Wednesday #19**

**Title:** *Single Cell Analysis And Tcr Sequencing Of Immune Cells And Keratinocytes In A Murine Model Of Alopecia Areata*

**Mentor:** Ali Jabbari, Dermatology

## **Arman Hlas, M3, Poster Presentation Thursday #26**

**Title:** *Predictors Of Osteoarthritis In U.S. Adults: An Epidemiological Study Of The National Health And Nutrition Survey (2005 – 2018)*

**Mentor:** Jacob Elkins, Orthopaedics and Rehabilitation

## **Paige Howard, M2, Poster Presentation Thursday #56**

**Title:** *Predicting Executive Function Following Early-Onset Acquired Brain Lesions??*

**Mentor:** Aaron Boes, Pediatrics

# Student Presentations (Poster)

**Emily Janio, M2G, Poster Presentation Thursday #64**

*Title: Understanding Hpv Vaccine Promotion In Otolaryngology Clinics*

**Mentor:** Natoshia Askelson, Public Health

**Andreas Kantartzis, M1G, Poster Presentation Wednesday #29**

*Title: The Role Of Mast Cells In Malignant Peripheral Nerve Sheath Tumors*

**Mentor:** Rebecca Dodd, Internal Medicine

**Rekha Karuparth, M2, Poster Presentation Wednesday #69**

*Title: Association Of Cord Blood Cytokine/Chemokine Biomarker Concentrations In Preterm Infants With Bronchopulmonary Dysplasia*

**Mentor:** Karen Mestan, Neonatology

**Faizan Khawaja, M4, Poster Presentation Thursday #70**

*Title: Suprapubic Catheter Use In The Management Of Long-Term Bladder Dysfunction: A Single Center Retrospective Chart Review*

**Mentor:** Bradley Erickson, Urology

**Victor Kilonzo, M1G, Poster Presentation Wednesday #49**

*Title: Prefrontal D1Dr-Expressing Neuronal Ensembles In Cognitive Processing*

**Mentor:** Nandakumar Narayanan, Neurology

**Ben Kirk, M2, Poster Presentation Wednesday #13**

*Title: The Effect Of Transcatheter Aortic Valve Replacement On Surgical Aortic Valve Replacement*

**Mentor:** Mohammed Bashir, Cardiothoracic Surgery

**Brittany Koontz, M1, Poster Presentation Wednesday #31**

*Title: Early Sinus Disease In Newborn Pigs With Primary Ciliary Dyskinesia*

**Mentor:** Mahmoud Abou Alaiwa and Philip Polgreen, Internal Medicine

**Dariya Kozlova, M2, Poster Presentation Wednesday #39**

*Title: Do Endothelial Biomarkers Of Oxidative Stress Associate With Endothelial Dysfunction In Ckd?*

**Mentor:** Diana Jalal, Internal Medicine

**Happy Kumar, M2, Poster Presentation Thursday #34**

*Title: Acceptance And Commitment Therapy Screening Model For Patients Undergoing Spinal Surgery*

**Mentor:** Catherine Olinger, Orthopaedics and Rehabilitation

# Student Presentations (Poster)

## **Molly Larson, M2G, Poster Presentation Thursday #52**

**Title:** *Lesion Mapping Of Depression In Focal Thalamic Lesions*

**Mentor:** Aaron Boes, Pediatrics

## **Saeyun Lee, M2, Poster Presentation Wednesday #41**

**Title:** *Accuracy And Performance Characteristics Of Administrative Codes For The Diagnosis Of Autoinflammatory Syndromes: A Discovery And Validation Study*

**Mentor:** Aleksander Lenert and Polly Ferguson, Internal Medicine

## **Nathan Lindsey, M1, Poster Presentation Thursday #76**

**Title:** *Endothelial Tlr9 Inhibition Via Targeted Nanoparticles Attenuates Radiation-Induced Blood-Brain Barrier Disruption And Cognitive Decline.*

**Mentor:** Isabella Grumbach and Karima-ait-Aissa, Internal Medicine

## **Shana Liu, M2, Poster Presentation Thursday #10**

**Title:** *Efficacy Of Music Therapy For Hospice Patients With Premorbid Mental Health Diagnoses*

**Mentor:** Michelle Weckmann, Family Medicine

## **Helen Lozier and Miquela Teske, M2, Poster Presentation Wednesday #21**

**Title:** *Infectious Dermatologic Disease Diagnosed Through Teledermatology Platform In Tanzania*

**Mentor:** Karolyn Wanat, Dermatology

## **Maddi McCullough, M2, Poster Presentation Thursday #58**

**Title:** *Evaluating Hypotension As A Predictor Of Cardiovascular Physiology In Premature Infants*

**Mentor:** Danielle Rios, Pediatrics

## **Abbie McKernan, M2, Poster Presentation Wednesday #43**

**Title:** *Screening Of Acquired Long Qt-Prolonging Drugs In Induced Pluripotent Cardiac Stem Cells Reveals Trafficking Defects In Herg*

**Mentor:** Barry London, Internal Medicine

## **Ethan Meiburg, M4, Poster Presentation Thursday #46**

**Title:** *Protein Biomarkers As Independent Predictors Of Prognosis And Clinicopathologic Outcomes In Oral Cavity Squamous Cell Carcinoma*

**Mentor:** Marisa Buchakjian, Otolaryngology - Head & Neck Surgery

## **Hannah Nakatsuka, M2, Poster Presentation Thursday #72**

**Title:** *Platelet-Rich Plasma Injection For The Treatment Of Stress Urinary Incontinence In Females: A Randomized Placebo-Controlled Study*

**Mentor:** Annah Vollstedt, Urology

# Student Presentations (Poster)

## **Natalie Nguyen, M2, Poster Presentation Wednesday #11**

**Title:** *Major Histocompatibility Complex (Mhc) Genotyping In Domestic Ferrets To Investigate Mhc Mismatch And Development Of Chronic Lung Allograft Dysfunction*

**Mentor:** Kalpaj Parekh, Cardiothoracic Surgery

## **Kathy Nguyen, M1G, Poster Presentation Wednesday #45**

**Title:** *Effects Of Covid-19 On Protein C Activation*

**Mentor:** Steven Lentz, Internal Medicine

## **Sam Parks, M4, Poster Presentation Thursday #20**

**Title:** *An Or Crash Course For Medical Students: The Effect Of A Simulation Training Session On Self-Perceived Preparedness For Surgical Rotations*

**Mentor:** Sarah Shaffer, Obstetrics & Gynecology

## **Meghal Patel, M2, Poster Presentation Thursday #12**

**Title:** *Disparities In Depression Treatment And Monitoring In Primary Care Patients*

**Mentor:** David Bedell, Family Medicine

## **Jacob Peake, M2, Poster Presentation Thursday #28**

**Title:** *Periarticular Local Infiltrative Anesthesia Compared To Interscalene Block In Arthroscopic Rotator Cuff And Labrum Repair*

**Mentor:** Robert Westermann and Brian Wolf, Orthopaedics and Rehabilitation

## **Eli Perez, M4, Poster Presentation Wednesday #59**

**Title:** *The Ocular Trauma Score Underestimates Visual Recovery For The Most Severe Open Globe Injuries*

**Mentor:** Jonathan F. Russell, Ophthalmology & Visual Sciences

## **Maiti Peters, M1, Poster Presentation Thursday #16**

**Title:** *Evaluating Contextual Factors Associated With The Use Of An Mhealth Intervention By Community Health Workers In Togo, West Africa*

**Mentor:** Elissa Faro, Internal Medicine

## **Nicholas Pitcher, M2, Poster Presentation Wednesday #61**

**Title:** *Linezolid Resistant Staphylococcus Aureus In Patients With Cystic Fibrosis*

**Mentor:** Anthony Fischer, Pediatrics

## **Faith Prochaska, M1G, Poster Presentation Wednesday #5**

**Title:** *Pharmacological Reduction Of The Innate Immune Response Suppresses Seizures In A Drosophila Model Of Epilepsy*

**Mentor:** John Manak, Biological Sciences

# Student Presentations (Poster)

## **Allyson Rose, M2, Poster Presentation Thursday #60**

*Title: Niemann-Pick Type C Resulting From Uniparental Isodisomy Of Chromosome 18*

**Mentor:** John Bernat, Pediatrics

## **Mala Sharma, M3, Poster Presentation Thursday #74**

*Title: The Effectiveness Of A Female Pelvic Medicine And Reconstructive Surgery Didactic Session And Cadaveric Simulation On Urology Residents' Knowledge Of Female Pelvic Surgery*

**Mentor:** Elizabeth Takacs, Urology

## **Chirayu Shukla, M2, Poster Presentation Thursday #36**

*Title: Examining The Relationship Between Patellar Tendon Thickness And Tendinopathy On Acl Graft Failure Rates*

**Mentor:** Robert Westermann and Kyle Duchman, Orthopaedics and Rehabilitation

## **Jon Sikora, M2, Poster Presentation Wednesday #63**

*Title: Behavioral Characterization Of Mouse Models Of Scn2A-Related Autism*

**Mentor:** Aislinn Williams, Psychiatry

## **Olivia Snyder, M4, Poster Presentation Thursday #2**

*Title: Trending Ability Of Cardiac Output Measurement By Lidco Rapid™ And Transesophageal Echocardiography In Elective Cardiac Surgery: A Comparison With Thermodilution*

**Mentor:** Sudhakar Subramani, Anesthesia

## **Sadie Solomon, M1G, Poster Presentation Thursday #18**

*Title: After The Storm: Post-Viral Neuropathies In Covid-19 And Influenza*

**Mentor:** Martha Carvour, Internal Medicine

## **Nathen Spitz, M4, Poster Presentation Wednesday #67**

*Title: The Temporal Association And Differential Decrease Of Depression Symptomatology Between 10 Hz Repetitive Transcranial Magnetic Stimulation (Rtms) And Intermittent Theta Burst Stimulation (Itbs)*

**Mentor:** Nicholas Trapp, Psychiatry

## **Sam Swartz, M4, Poster Presentation Thursday #50**

*Title: A One-Year Prospective Study Of All Delivering Women At A Midwest Academic Health Center*

**Mentor:** Brooks Jackson, Pathology

## **Hashim Syed, M2, Poster Presentation Thursday #48**

*Title: Metabolomic Profiling Of Human Schwannomas And Meningiomas Before And After Radiation*

**Mentor:** Marlan R. Hansen, Otolaryngology - Head & Neck Surgery



# Student Presentations (Poster)

## **Savantha Thenuwara, M2, Poster Presentation Thursday #4**

**Title:** *Impact Of Intraoperative Autologous Blood Transfusion On Elective Cardiac Surgery: A Retrospective Cohort Study*

**Mentor:** Sudhakar Subramani, Anesthesia

## **William Tsai, M2, Poster Presentation Thursday #14**

**Title:** *Evaluating Provider Perspectives On Using Agenda Setting With Patients*

**Mentor:** Kelly Skelly, Family Medicine

## **Hunter Twedt, M2, Poster Presentation Wednesday #51**

**Title:** *Basal Ganglia Network Alterations In Parkinson'S Disease*

**Mentor:** Nandakumar Narayanan, Neurology

## **Cameron Vannoy, M1, Poster Presentation Thursday #40**

**Title:** *Hidden Mechanisms Of Coding Pathogenic Variants In Ptprq*

**Mentor:** Richard Smith and Hela Azaiez, Otolaryngology

## **Gabe Vazquez, M2, Poster Presentation Wednesday #25**

**Title:** *Policy And Utility Of Pre-Hospital Needle Thoracostomy*

**Mentor:** Hayden Smith, Emergency Medicine

## **Clara Wilhelm, M2, Poster Presentation Wednesday #27**

**Title:** *Comparison Of Hyperangulated Versus Standard Geometry Video Laryngoscopy In A Simulated Helicopter Emergency Medical Service Setting: A Randomized Crossover Trial*

**Mentor:** Brian Jennett, UnityPoint Department of Emergency Medicine

## **Lydia Yang, M2, Poster Presentation Thursday #38**

**Title:** *Perilunate Injury Outcomes, Treatment, And Diagnosis Rate - A Retrospective Study*

**Mentor:** Lindsey Caldwell, Orthopaedics and Rehabilitation

## **Richie Zhang, M1, Poster Presentation Wednesday #53**

**Title:** *Efferent Projections Of Nps Parabrachial Neurons In Mice*

**Mentor:** Joel Geerling, Neurology

room #	8:00am	8:15am	8:30am	8:45am	9:00am	9:15am	9:30am	9:45am
1117	Carolina Chu	Daniel Conway	Anushi Wijayagunarat	Ashrita Raghuran	Rishi Patel	Matthew Jones	Dake Huang	Anthony Piscopo
1289 Kelch	Mallory Kallish	Ravina Vasanwala	Emily Anderson	Rene Cafun	Julia Fleecs	JaNiese Jensen	Michaela Kiel	Hanna Sullivan
2123	Tyler Atagozli	Chandler Brown	Michelle Chen	Keegan Christensen	Alex Leach	Ben Linden	Kyle Kato	Elle McCormick
2126	Madeline Fitzhugh	Claire Jager	Grace Lee	Alex Marti	Trevor Allen	Cole Pennock	Marshall Rupe	Grant Stalker
2135	Cole Wymore	Alaina Berg	Gabrielle Frediani	Chris Halbur	Brianna Iverson	Erin Capper	Betty Tu	Aneli Villa
2136	David Turaczyk Kolodziej	Yumi Engelking	Riley Filister	Ana Dispirito	Connor Littlefield	Zach Shepard	Bryce Shonka	Lauren Tabor
2155	Isaac Slagel	Srija Manchkanti	Megan Sinik	Ramya Vemulapalli	Brian Gu	Aravin Sivamurugan	David Chenoweth	Elliot Stalter
2165	Matthew Kigin	Andrew McKeen	Ashray Mohan	Anna Reelfs	Madeline Rhomberg	Stephanie Saey	Ian McElree	Jacob Lam
2166	Bryan Mouser	Peter Sanchez	Noah Scigliano	Emily Parker	Hannah Stebral	Michael Westphal	Amy Zeller	Jack Ohringer
2189	Spencer Dempewolf	Ryan Jasper	Vineel Mallaparapu	Mao Ye	Nicolas Ronkar	Braden Rolig	Patrick Allen	Nicole Hines

### Wednesday Poster Schedule (Alphabetical)

LastName	FirstName	Poster#	Department
Anand	Suchet	65	Psychiatry
Bremer	Michelle	23	University of Californina-San Diego
Caplan	Jack	55	Neurology
Chawla	Sahil	15	Dermatology
Chen	Tracy	17	Dermatology
Couri	Inna	9	Cardiothoracic Surgery
Davison	Abigail	47	Neurology
Doyle	Levi	1	Anatomy & Cell Biology
El-Sokkary	Tony	7	Biomedical Engineering
Gama	Garrick	35	UCSD School of Medicine
Gasser	Grace	3	Anatomy & Cell Biology
Gu	Lina	37	Internal Medicine
Hartness	Emma	57	Ophthalmology & Visual Sciences
Henderson	Nicholas	19	Dermatology
Kantartzis	Andreas	29	Internal Medicine
Karuparth	Rekha	69	University of California-San Diego
Kilonzo	Victor	49	Neurology
Kirk	Ben	13	Cardiothoracic Surgery
Koontz	Brittany	31	Internal Medicine
Kozlova	Dariya	39	Internal Medicine
Lee	Saeyun	41	Internal Medicine
Lozier	Helen	21	Dermatology
McKernan	Abbie	43	Internal Medicine
Nguyen	Natalie	11	Cardiothoracic Surgery
Nguyen	Kathy	45	Internal Medicine
Perez	Eli	59	Ophthalmology & Visual Sciences
Pitcher	Nicholas	61	Pediatrics
Prochaska	Faith	5	Biological Sciences
Sikora	Jon	63	Psychiatry
Spitz	Nathen	67	Psychiatry
Teske	Miquela	21	Dermatology
Twedt	Hunter	51	Neurology
Vazquez	Gabe	25	Emergency Medicine
Wilhelm	Clara	27	Unity Point Emergency Medicine
Zhang	Richie	53	Neurology

### Thursday Poster Schedule (Alphabetical)

LastName	FirstName	Poster#	Department
Bracken	Eric	66	Radiology
Braza	Sam	30	Orthopaedics and Rehabilitation
Chen	Nathan	32	Orthopaedics and Rehabilitation
Clevenger	Katy	22	Obstetrics & Gynecology
Cornick	Kendall	54	Pediatrics
Davis	Erik	68	Urology
Dou	Alex	6	Biochemistry
Escudero	Caleb	44	Otolaryngology - Head & Neck Surgery
Fleishhacker	Zack	42	Otolaryngology
Ford	Kory	24	Orthopaedics and Rehabilitation
Hatfield	Sam	62	Neuroscience & Pharmacology
Heaberlin	Sally	8	Family Medicine
Hlas	Arman	26	Orthopaedics and Rehabilitation
Howard	Paige	56	Pediatrics
Janio	Emily	64	Public Health
Khawaja	Faizan	70	Urology
Kumar	Happy	34	Orthopaedics and Rehabilitation
Larson	Molly	52	Pediatrics
Lindsey	Nathan	76	Internal Medicine
Liu	Shana	10	Family Medicine
McCullough	Maddi	58	Pediatrics
Meiburg	Ethan	46	Otolaryngology - Head & Neck Surgery
Nakatsuka	Hannah	72	Urology
Parks	Sam	20	Obstetrics & Gynecology
Patel	Meghal	12	Family Medicine
Peake	Jacob	28	Orthopaedics and Rehabilitation
Peters	Maiti	16	Internal Medicine
Rose	Allyson	60	Pediatrics
Sharma	Mala	74	Urology
Shukla	Chirayu	36	Orthopaedics and Rehabilitation
Snyder	Olivia	2	Anesthesia
Solomon	Sadie	18	Internal Medicine
Swartz	Sam	50	Pathology
Syed	Hashim	48	Otolaryngology - Head & Neck Surgery
Thenuwara	Savantha	4	Anesthesia
Tsai	William	14	Family Medicine
Vannoy	Cameron	40	Otolaryngology
Yang	Lydia	38	Orthopaedics and Rehabilitation

Wednesday Poster Schedule (by number)			
LastName	FirstName	Poster#	Department
Doyle	Levi	1	Anatomy & Cell Biology
Gasser	Grace	3	Anatomy & Cell Biology
Prochaska	Faith	5	Biological Sciences
El-Sokkary	Tony	7	Biomedical Engineering
Couri	Inna	9	Cardiothoracic Surgery
Nguyen	Natalie	11	Cardiothoracic Surgery
Kirk	Ben	13	Cardiothoracic Surgery
Chawla	Sahil	15	Dermatology
Chen	Tracy	17	Dermatology
Henderson	Nicholas	19	Dermatology
Lozier	Helen	21	Dermatology
Teske	Miquela	21	Dermatology
Bremer	Michelle	23	University of California-San Diego
Vazquez	Gabe	25	Emergency Medicine
Wilhelm	Clara	27	Unity Point Emergency Medicine
Kantartzis	Andreas	29	Internal Medicine
Koontz	Brittany	31	Internal Medicine
Gama	Garrick	35	UCSD School of Medicine
Gu	Lina	37	Internal Medicine
Kozlova	Dariya	39	Internal Medicine
Lee	Saeyun	41	Internal Medicine
McKernan	Abbie	43	Internal Medicine
Nguyen	Kathy	45	Internal Medicine
Davison	Abigail	47	Neurology
Kilonzo	Victor	49	Neurology
Twedt	Hunter	51	Neurology
Zhang	Richie	53	Neurology
Caplan	Jack	55	Neurology
Hartness	Emma	57	Ophthalmology & Visual Sciences
Perez	Eli	59	Ophthalmology & Visual Sciences
Pitcher	Nicholas	61	Pediatrics
Sikora	Jon	63	Psychiatry
Anand	Suchet	65	Psychiatry
Spitz	Nathen	67	Psychiatry
Karuparth	Rekha	69	University of California-San Diego

Thursday Poster Schedule (by number)			
LastName	FirstName	Poster#	Department
Snyder	Olivia	2	Anesthesia
Thenuwar	Savantha	4	Anesthesia
Dou	Alex	6	Biochemistry
Heaberlin	Sally	8	Family Medicine
Liu	Shana	10	Family Medicine
Patel	Meghal	12	Family Medicine
Tsai	William	14	Family Medicine
Peters	Maiti	16	Internal Medicine
Solomon	Sadie	18	Internal Medicine
Parks	Sam	20	Obstetrics & Gynecology
Clevenger	Katy	22	Obstetrics & Gynecology
Ford	Kory	24	Orthopaedics and Rehabilitation
Hlas	Arman	26	Orthopaedics and Rehabilitation
Peake	Jacob	28	Orthopaedics and Rehabilitation
Braza	Sam	30	Orthopaedics and Rehabilitation
Chen	Nathan	32	Orthopaedics and Rehabilitation
Kumar	Happy	34	Orthopaedics and Rehabilitation
Shukla	Chirayu	36	Orthopaedics and Rehabilitation
Yang	Lydia	38	Orthopaedics and Rehabilitation
Vannoy	Cameron	40	Otolaryngology
Fleishhack	Zack	42	Otolaryngology
Escudero	Caleb	44	Otolaryngology - Head & Neck Surgery
Meiburg	Ethan	46	Otolaryngology - Head & Neck Surgery
Syed	Hashim	48	Otolaryngology - Head & Neck Surgery
Swartz	Sam	50	Pathology
Larson	Molly	52	Pediatrics
Cornick	Kendall	54	Pediatrics
Howard	Paige	56	Pediatrics
McCullough	Maddi	58	Pediatrics
Rose	Allyson	60	Pediatrics
Hatfield	Sam	62	Neuroscience & Pharmacology
Janio	Emily	64	Public Health
Bracken	Eric	66	Radiology
Davis	Erik	68	Urology
Khawaja	Faizan	70	Urology
Nakatsuka	Hannah	72	Urology
Sharma	Mala	74	Urology
Lindsey	Nathan	76	Internal Medicine