



UNIVERSITY of MARYLAND  
SCHOOL OF MEDICINE

45<sup>th</sup> Annual  
**Medical Student Research Day**

Hosted by  
Office of Student Research, Dean's Office  
Alpha Omega Alpha Honor Society

Wednesday, November 16, 2022  
University of Maryland School of Medicine  
Baltimore, MD 21201

**Event Program**

## Office of Student Research

Miriam K. Laufer, M.D., M.P.H.  
Professor of Pediatrics  
Associate Dean for Student Research and Education  
Director of the Office of Student Research

Gregory B. Carey, Ph.D.  
Associate Professor of Microbiology and Immunology  
Assistant Dean for Student Research and Education  
Executive Director of Student Research and Community Outreach

Donald R. Matteson, Ph.D.  
Associate Professor of Physiology  
Assistant Dean for Student Research Education and Dual Degree Programs

Qi Cao, J.D.  
Research Coordinator

Fiana Romero  
Program Management Specialist

### Alpha Omega Alpha Honor Society Student Members and Additional Event Staff

Alex Casella, PhD  
AOA MSRD Chair &  
Event Coordinator

Nicholas Fioravante  
AOA MSRD Chair &  
Event Coordinator

Shania Bailey

Sarah Bejo

Kevina Birungi

Cameran Burt

Abigail Corkum

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Erin Foster

Aishwarya Iyer

Allison Karwoski

Miriam Kaufman

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Trevor Mathias, PhD

Serban Negoita

Helen Nguyen

Katherine Raja

Natalia Sampaio  
Moura

Alyssa Schledwitz

Samantha Selhorst

Olivia Uddin, PhD

Chaoyang Wang

Jocelyn Wu

## Acknowledgements

We would like to express our gratitude to the Dean's Office for providing the financial support for Medical Student Research Day.

We would also like to express our appreciation for all the research programs, faculty mentors and other mentors who supported and guided the students in their research.

Our special thanks go to the faculty, research associate, resident, fellow, post-doctoral fellow and AOA student member judges who so willingly provided their time and knowledge.

Dr. Recai Aktay	Dr. Matt Laurens	Dr. Michael Sikorski
Dr. Pavlos Anastasiadis	Dr. Rosangela Mezghanni	Dr. Giovannino Silvestri
Dr. Elizabeth Balcer-Kubiczek	Dr. Siamak Moayed	Dr. Nanette Steinle
Dr. Aditi Banerjee	Dr. May Montasser	Dr. Sripriya Sundararajan
Dr. Chandra Bhati	Dr. Melissa Motta	Dr. Hooman Tadbiri
Dr. William Chiu	Dr. Manu Mysore	Dr. Julia Terhune
Dr. Curt Civin	Dr. Faria Nasim	Dr. Jane Tong
Dr. Nathan Cramer	Dr. Esther Ndungo	Dr. Quincy Tran
Dr. Vasken Dilsizian	Dr. Nazary Nebeluk	Dr. Shifa Turan
Dr. Allan Doctor	Dr. Yuko Ota	Dr. Victoria Verhoeve
Dr. Daniel Gingold	Dr. Nehu Parimi	Dr. Oliver Voss
Dr. Archana Gopalakrishnan	Dr. Katharina Richard	Dr. Rezwanul Wahid
Dr. Daniel Haase	Dr. Nirav Shah	Dr. Gentry Wilkerson
Dr. Bret Hassel	Dr. Kari Ann Shirey	Dr. Michael Witting
Dr. Philip Iffland	Dr. Marey Shriver	Dr. Lin Zou
Dr. Xiaofeng Jia		

**University of Maryland School of Medicine  
Office of Student Research and  
Alpha Omega Alpha Honor Medical Society**

**45<sup>th</sup> Annual Medical Student Research Day**

Wednesday, November 16, 2022

Noon – 6:00 p.m.

SMC Campus Center, 621 W. Lombard Street

See [MSRD 2022 Webpage](#) for more information about the event and any updates

**General Schedule**

<b>Lunch &amp; Keynote Address</b>	<b>12:00 – 1:30 p.m.</b>	<b>Elm A (Room 208)</b>
12:00 – 1:20 p.m.	Lunch	
12:20 – 12:40 p.m.	Opening Remarks <b>Gregory B. Carey, Ph.D.</b> Associate Professor of Microbiology and Immunology Assistant Dean for Student Research and Education Executive Director of Student Research and Community Outreach Director of PRISM and UM Scholars at SOM Programs Director of STAR-PREP Program	
	<b>Miriam K. Laufer, M.D., M.P.H.</b> Professor of Pediatrics Associate Dean for Student Research and Education Director of Office of Student Research Associate Director for Malaria Research Center for Vaccine Development and Global Health Associate	
	<b>Nicholas Fioravante, MS IV</b> Alpha Omega Alpha Honor Medical Society Maryland Beta Chapter MSRD Chair and Event Coordinator	
12:40 – 1:10 p.m.	Keynote Address <b>Pranshu Mohindra, M.D., MMM, MBBS, DABR</b> Associate Professor of Radiation Oncology, UM SOM Associate Medical Director of Radiation Oncology, UMMC Director of Research Internships, Radiation Oncology Director of Billing and Compliance, Radiation Oncology Medical Student Clerkship Director, Radiation Oncology	

1:10 – 1:15 p.m. Schedule & Procedures

**Qi Cao, J.D.**

Research Coordinator

1:15 – 1:20 p.m.

**Mark T. Gladwin, M.D.**

Vice President for Medical Affairs, UMB

John Z. and Akiko K. Bowers Distinguished Professor and  
Dean, UM SOM

1:20 – 1:30 p.m.

*Break*

**Presentations**

**1:30 – 4:40 p.m.**

1:30 – 2:30 p.m.

Oral Presentation Session I – Elm A (Room 208)  
Oral Presentation Session II – Elm B (Room 210)  
Oral Presentation Session III – Room 351  
Oral Presentation Session IV – Room 223

2:30 – 2:35 p.m.

*Break*

2:35 – 3:35 p.m.

Oral Presentation Session V – Elm A (Room 208)  
Oral Presentation Session VI – Elm B (Room 210)  
Oral Presentation Session VII – Room 351  
Poster Presentation Session I – Room 349

3:35 – 3:40 p.m.

*Break*

3:40 – 4:40 p.m.

Oral Presentation Session VIII – Elm A (Room 208)  
Oral Presentation Session IX – Elm B (Room 210)  
Oral Presentation Session X – Room 351  
Poster Presentation Session II – Room 349

4:40 – 4:50 p.m.

*Break*

**Awards Banquet**

**4:50 – 6:00 p.m.**

**Elm A (Room 208)**

4:50 – 6:00 p.m.

Dinner

5:15 – 5:40 p.m.

Honoring Faculty Mentors: Mentor Recognition Awards

**Gregory B. Carey, Ph.D.**

**Miriam K. Laufer, M.D., M.P.H.**

5:40 – 5:50 p.m.

Presentation of Student Awards

**AOA Student Representative**

Maryland Beta Chapter

Alpha Omega Alpha Honor Medical Society

5:50 – 6:00 p.m.

Closing Remarks

**Gregory B. Carey, Ph.D**

## **Keynote Speaker**

### **Pranshu Mohindra, MD, MMM, MBBS, DABR**

Dr. Mohindra's prior training experience includes two radiation oncology residencies (Tata Memorial Centre, Mumbai and University of Wisconsin, Madison), Head-Neck cancer clinical fellowship (Princess Margaret Hospital, University of Toronto) and a post-doctoral Global Academic Research Associate at the U. T. MD Anderson Cancer Center; Houston. He has received several academic excellence, research and travel awards during his residency including the 2014 Radiological Society of North America (RSNA) Roentgen Resident/Fellow Award for outstanding radiologic research and the 2014 American Society for Radiation Oncology (ASTRO) Resident Digital Poster Discussion Award in the Biology category. He also served as the Chief resident, Radiation Oncology, University of Wisconsin, Madison, for the year 2013-14.

Within the Department of Radiation Oncology, Dr. Mohindra's primary area of clinical and research interest is in thoracic/lung, gynecological and hematological malignancies. His research has involved evaluating treatment outcomes through institutional and population-based databases, development of early phase clinical trials evaluating both radiation sensitizers and radiation toxicity mitigators and evaluation of modern radiation techniques including proton beam therapy. He leads many institutional and national clinical trials. His mentorship achievements in education as the department's Director of Research Internships and Medical Student Clerkship Director have complemented his administrative service as UMMC Associate Medical Director, Director of Billing and Compliance for the department's 6 practice sites across the state, Lead of the Scope of Practice, Policy and Procedure Management Workgroup of Quality and Safety Review Council and most recently as Interim Medical Director at Shore. He was recognized as Mentor Recognition Award- Transformational Impact, UMSOM (2017 and 2020), ARRO Educator of the Year Award (2020), Top Doctors by Baltimore Magazine (2020, 2021) and recently completed Master of Medical Management through Carnegie Mellon University, Pittsburgh (2022).

## Oral Presentation Schedule

Oral presentations are 10 minutes each.  
Presenters are indicated with “\*” next to their names.

### Oral Presentation Session I

1:30 – 2:30 p.m., Elm A (Room 208)

#### **O.01 1:30 p.m.**

ADJUVANT PROTON THERAPY FOR BREAST CANCER TREATMENT: WHY BLACK WOMEN MAY DERIVE A GREATER BENEFIT FROM THIS TREATMENT MODALITY. Gurbani Singh\*, Sarah McAvoy<sup>1</sup>, Akshar Patel<sup>1</sup>, Sarah Ruff<sup>1</sup>, Elizabeth Nichols<sup>1</sup>, and Melissa Vyfhuis<sup>1</sup>, <sup>1</sup>Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.

#### **O.02 1:40 p.m.**

PROSTATE CANCER AND PODCASTS: AN ANALYSIS AND ASSESSMENT OF THE QUALITY OF INFORMATION ABOUT PROSTATE CANCER AVAILABLE ON PODCASTS. Colin Scott\*, Peter Campbell\*, Peter Campbell<sup>1</sup>, Amy Nemirovsky<sup>2</sup>, Stacy Loeb<sup>3</sup>, and Rena Malik<sup>2</sup>, <sup>2</sup>Division of Urology, Department of Surgery, <sup>1</sup>University of Maryland School of Medicine, Baltimore, MD and <sup>3</sup>Department of Urology, New York University Grossman School of Medicine, New York, NY.

#### **O.03 1:50 p.m.**

PERCENT GLEASON PATTERN 4 IN STRATIFYING THE PROGNOSIS OF FAVORABLE VS. UNFAVORABLE INTERMEDIATE-RISK PROSTATE CANCER. Claire Macatee\*, Shu Wang<sup>1</sup>, and Mohammad Siddiqui<sup>1</sup>, <sup>1</sup>Division of Urology, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

#### **O.04 2:00 p.m.**

THE ROLE OF ESTROGEN IN SEXUALLY DIMORPHIC REGULATION OF LOWER URINARY TRACT FUNCTION VIA POPULATION-3 NEURONS OF BARRINGTON'S NUCLEUS. Cassandra Seifert\* and Hanneke Verstege<sup>1</sup>, <sup>1</sup>Division of Nephrology, Department of Medicine, Beth Israel Deaconess Medical Center, Boston, MA.

#### **O.05 2:10 p.m.**

EXPERIENCES WITH ABORTION IN A HOSPITAL-BASED OPERATING ROOM SETTING DURING COVID-19: A RETROSPECTIVE COHORT STUDY. Rachel Cermak\*, Gracie Nichols<sup>1</sup>, and Jessica Lee<sup>2</sup>, <sup>1</sup>Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland Medical System and <sup>2</sup>Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.

#### **O.06 2:20 p.m.**

MITIGATING GENDER BIAS IN SURGICAL TREATMENTS: A QUALITATIVE SYSTEMATIC REVIEW. Emma Barry\*, Mariam Elsafty\*, Shirin Parsa\*, Eyerusalem Workneh<sup>1</sup>, Naveen Siddique Sheikh<sup>2</sup>, and Rena Malik<sup>3</sup>, <sup>2</sup>Stanford University, Stanford, CA and <sup>3</sup>Division of Urology, Department of Surgery, <sup>1</sup>University of Maryland School of Medicine, Baltimore, MD.

**Oral Presentation Session II**  
1:30 – 2:30 p.m., Elm B (Room 210)

**O.07 1:30 p.m.**

THE ROLE OF EPITHELIAL-INTRINSIC IL-36R SIGNALING IN LUNG INFLAMMATION. Jenny Saito\*, Sabrina Nolan<sup>1</sup>, and Nathan Archer<sup>1</sup>, <sup>1</sup>Department of Dermatology, Johns Hopkins University School of Medicine, Baltimore, MD.

**O.08 1:40 p.m.**

COVID CARD: A PILOT STUDY INVESTIGATING THE CLINICAL PERFORMANCE OF A POINT-OF-CARE, SEMI-QUANTITATIVE TEST FOR SARS-COV-2 ANTIBODIES. O. Insun Yoon\*, Michael Sikorski<sup>1</sup>, and R. Gentry Wilkerson<sup>2</sup>, <sup>2</sup>Department of Emergency Medicine, <sup>1</sup>University of Maryland School of Medicine, Baltimore, MD.

**O.09 1:50 p.m.**

COVID-19 HOTLINE DATA ANALYSIS - PRESENTING TO CAMPUS WITH SYMPTOMS DURING COVID-19. Adi Kadosh\*, Amy Yarnell<sup>1</sup>, Soren Bentzen<sup>2</sup>, and Marianne Cloeren<sup>3</sup>, <sup>1</sup>Center for Data and Bioinformation Services, University of Maryland Health Sciences and Human Services Library and <sup>2</sup>Division of Biostatistics and Bioinformatics, Department of Epidemiology and Public Health and <sup>3</sup>Division of Occupational and Environmental Medicine, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

**O.10 2:00 p.m.**

VPR MODULATES METHYLATION OF THE HIV-1 RNA GENOME. Issac Chaudry\*, Shuaikun Su<sup>1</sup>, and Lishan Su<sup>2</sup>, <sup>2</sup>Division of Virology, Pathogenesis, and Cancer, <sup>1</sup>Institute of Human Virology, University of Maryland School of Medicine, Baltimore, MD.

**O.11 2:10 p.m.**

PREVALENCE OF UNMET NEEDS FOR ANCILLARY CARE SERVICES AMONG ADULTS WITH HIV BY PROVIDER TYPE. Celina Thomas\*, John Weiser<sup>1</sup>, Sharoda Dasgupta<sup>1</sup>, and David Riedel<sup>2</sup>, <sup>1</sup>Centers for Disease Control and Prevention, Atlanta, GA and <sup>2</sup> Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

**O.12 2:20 p.m.**

HEPATITIS C SCREENING AND TREATMENT AT THRIVE INFECTIOUS DISEASE CLINIC. Ayda Soltanian\*, Sarah Schmalzle<sup>1</sup>, and Shah Jawad Zafar<sup>2</sup>, <sup>1</sup>Division of Infectious Disease, Department of Medicine, University of Maryland School of Medicine and <sup>2</sup>Division of Infectious Disease, Department of Medicine, University of Maryland Medical Center, Baltimore, MD.

**Oral Presentation Session III**

1:30 – 2:30 p.m., Room 351

**O.13 1:30 p.m.**

USING A MULTIMEDIA EDUCATION PROGRAM TO IMPROVE RETINOPATHY OF PREMATURE EDUCATION AND FOLLOW UP. Susanna Yau\* and Moran Levin<sup>1</sup>, <sup>1</sup>Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD.



**O.14 1:40 p.m.**

USING LASER SPECKLE CONTRAST IMAGING AND FLUORESCHEIN ANGIOGRAPHY TO DETERMINE BLOOD FLOW IN INFANTS WITH RETINOPATHY OF PREMATURITY. Daniel Shats\*, Tara Balasubramanian<sup>1</sup>, Danielle Sidelnikov<sup>1</sup>, Urjita Das<sup>1</sup>, Moran Roni Levin<sup>2</sup>, and Janet Alexander<sup>2</sup>, <sup>2</sup>Division of Pediatric Ophthalmology and Adult Strabismus, Department of Ophthalmology and Visual Sciences, <sup>1</sup>University of Maryland School of Medicine, Baltimore, MD.

**O.15 1:50 p.m.**

CHARACTERIZATION OF THE ANTERIOR EYE IN TRISOMY 21 PATIENTS USING ULTRASOUND BIOMICROSCOPY. Esther Xu\*, Dhruv Shah<sup>1</sup>, Radhika Gholap<sup>1</sup>, He Eun Forbes<sup>1</sup>, Taylor Kolosky<sup>1</sup>, and Janet Alexander<sup>2</sup>, <sup>2</sup>Division of Pediatric Ophthalmology and Strabismus, <sup>1</sup>Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD.

**O.16 2:00 p.m.**

CHARACTERIZATION OF THE IRIS, CILIARY BODY, AND LENS IN PEDIATRIC PRIMARY CONGENITAL GLAUCOMA USING ULTRASOUND BIOMICROSCOPY: A CASE-CONTROL STUDY. Radhika Gholap\*, Esther Xu<sup>1</sup>, and Janet Alexander<sup>2</sup>, <sup>2</sup>Division of Strabismus and Pediatric Ophthalmology, <sup>1</sup>Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD.

**O.17 2:10 p.m.**

OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY AND ERYTHROCYTE-MEDIATED ANGIOGRAPHY: A QUANTITATIVE ASSESSMENT OF BLOOD FLOW IN GLAUCOMA. Allison Kang\* and Osamah Saeedi<sup>1</sup>, <sup>1</sup>Division of Glaucoma, Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD.

**O.18 2:20 p.m.**

OCULAR BLOOD FLOW ASSOCIATION WITH RETINOPATHY OF PREMATURITY DISEASE STAGING USING LASER SPECKLE CONTRAST IMAGING. Danielle Sidelnikov\*, Tara Balasubramanian<sup>1</sup>, Daniel Shats<sup>1</sup>, Urjita Das<sup>1</sup>, Moran Roni Levin<sup>2</sup>, and Janet Alexander<sup>2</sup>, <sup>2</sup>Division of Pediatric Ophthalmology and Adult Strabismus, Department of Ophthalmology and Visual Sciences, <sup>1</sup>University of Maryland School of Medicine, Baltimore, MD.

**Oral Presentation Session IV**

1:30 – 2:30 p.m., Room 223

**O.19 1:30 p.m.**

PAIN AND STRESS RESPONSES DURING RETINOPATHY OF PREMATURITY SCREENING: NON-CONTACT LASER SPECKLE CONTRAST IMAGING VERSUS THE STANDARD OF CARE. Urjita Das\*, Tara Balasubramanian<sup>1</sup>, Daniel Shats<sup>1</sup>, Danielle Sidelnikov<sup>1</sup>, Sripriya Sundararajan<sup>2</sup>, and Janet Alexander<sup>3</sup>, <sup>2</sup>Division of Neonatology, <sup>3</sup>Department of Pediatrics, <sup>1</sup>University of Maryland School of Medicine, Baltimore, MD.

**O.20 1:40 p.m.**

HISTOLOGICAL EVALUATION OF THE CORNEA IN OCULAR GRAFT VERSUS HOST DISEASE IN A MURINE MODEL. Fernando Martinez Guasch\*, Ellis Tibbs<sup>1</sup>, Seema Sajjan<sup>1</sup>, Andrew Li<sup>1</sup>, Xuefang Cao<sup>2</sup>, and Sarah Sunshine<sup>1</sup>, <sup>1</sup>Department of Ophthalmology and Visual Sciences and <sup>2</sup>Department of Microbiology and Immunology, University of Maryland School of Medicine, Baltimore, MD.

**O.21 1:50 p.m.**

TEAR CYTOKINE PROFILING FOR OCULAR GRAFT VERSUS HOST DISEASE IN A NEW MULTIPLEX ASSAY. Andrew Li\*, Sarah Sunshine<sup>1</sup>, and Fernando Martinez Guasch<sup>1</sup>, <sup>1</sup>Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD.

**O.22A 2:00 p.m.**

REPORTED FOOD INSECURITY, LIVING WITHIN A LOW-INCOME AND LOW FOOD ACCESS CENSUS TRACT, AND ASSOCIATED COMMUNITY HEALTH BARRIERS IN ONE URBAN REPRODUCTIVE CLINIC. Sanyukta Deshmukh\* and Jessica Lee<sup>1</sup>, <sup>1</sup>Division of Family Planning, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.

**O.23A 2:10 p.m.**

IS FOOD INSECURITY ASSOCIATED WITH PREVIOUS SPONTANEOUS OR INDUCED ABORTION? A SURVEY OF PATIENTS SEEKING REPRODUCTIVE CARE IN ONE URBAN CLINIC. Sanyukta Deshmukh\* and Jessica Lee<sup>1</sup>, <sup>1</sup>Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.

**O.24 2:20 p.m.**

INCENTIVIZING PROVIDER SERVICE IN MARYLAND'S UNDERSERVED AREAS: AN ANALYSIS OF THE MARYLAND LOAN REPAYMENT PROGRAMS IMPACT. Mary Carbonell\* and Sara Seitz<sup>1</sup>, <sup>1</sup>Maryland Department of Health, Baltimore, MD.

**Oral Presentation Session V**

2:35 – 3:35 p.m, Elm A (Room 208)

**O.25 2:35 p.m.**

EXAMINING THE ROLE OF VENTRAL PALLIDAL INPUTS IN STRESSED-INDUCED SOCIAL AVOIDANCE. Daisy Martinez\*, Rianne Campbell<sup>1</sup>, Geralin Love Virata<sup>1</sup>, and Mary Kay Lobo<sup>1</sup>, <sup>1</sup>Department of Anatomy and Neurobiology, University of Maryland School of Medicine, Baltimore, MD.

**O.26 2:45 p.m.**

PRE-EXISTING PSYCHIATRIC ILLNESS RESULTS IN POOR AMBULATORY STATUS FOLLOWING MAJOR LIMB AMPUTATION IN PATIENTS WITH CHRONIC KIDNEY DISEASE. Natalie Chao\*, Maria Som<sup>1</sup>, Eyerusalem Workneh<sup>1</sup>, Allison Karwoski<sup>1</sup>, Eleanor Dunlap<sup>2</sup>, and Khanjan Nagarsheth<sup>2</sup>, <sup>2</sup>Division of Vascular Surgery, <sup>1</sup>Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

**O.27 2:55 p.m.**

BLACK MOTHERS' NEGATIVE PREGNANCY EXPERIENCES AND PERINATAL ATTACHMENT AND DEPRESSION: THE BUFFERING ROLE OF PRENATAL HEALTH PRACTICES. Maria Gianelle\*, Justin Scott<sup>1</sup>, Vivian Flanagan<sup>2</sup>, and Brenda Jones Harden<sup>1</sup>, <sup>1</sup>University of Maryland School of Social Work, Baltimore, MD and <sup>2</sup> School of Public Health, University of Maryland, College Park, College Park, MD.

**O.28 3:05 p.m.**

THE IMPACT OF PERINATAL THC AND STRESS ON MOTIVATION IN JUVENILE MICE. Mahima Dewan\*, Jimmy Olusakin<sup>1</sup>, and Mary Kay Lobo<sup>1</sup>, <sup>1</sup>Department of Anatomy and Neurobiology, University of Maryland School of Medicine, Baltimore, MD.

**O.29 3:15 p.m.**

INVESTIGATING A NOVEL ANIMAL MODEL OF ANTI-NMDAR ENCEPHALITIS. Andres Chavez-Barragan\*, and David R. Benavides<sup>1</sup>, <sup>1</sup>Division of Multiple Sclerosis and Neuroimmunology, Department of Neurology, University of Maryland School of Medicine, Baltimore, MD.

**O.30 3:25 p.m.**

HIKING AWAY THE BLUES: A CROSS-SECTIONAL STUDY LOOKING AT THE ASSOCIATION BETWEEN CONSECUTIVE TIME IN NATURE AND MENTAL HEALTH. Emilie Disviscour Berman\*, Daniel Gingold<sup>1</sup>, and Doug Sward<sup>2</sup>, <sup>2</sup>Division of Hyperbaric Medicine, <sup>1</sup>Department of Emergency Medicine, University of Maryland School of Medicine, Baltimore, MD.

**Oral Presentation Session VI**  
2:35 – 3:35 p.m., Elm B (Room 210)

**O.31 2:35 p.m.**

THE K<sub>ATP</sub> CHANNEL FORMS THE LINK BETWEEN METABOLISM AND EPILEPSY. Darrian McAfee\*, Mitch Moyer<sup>1</sup>, Muzna Bachani<sup>1</sup>, and Alexander Ksendzovsky<sup>1</sup>, <sup>1</sup>Department of Neurosurgery, University of Maryland School of Medicine, Baltimore, MD.

**O.32 2:45 p.m.**

DISTINCT PAIN TRAJECTORIES FOLLOWING SUBARACHNOID HEMORRHAGE ARE ASSOCIATED WITH CEREBRAL VASOSPASM AND DELAYED CEREBRAL ISCHEMIA. Dina Elsaesser\*, Nicholas Morris<sup>1</sup>, Adam Kardon<sup>1</sup>, Matthew Jaffa<sup>2</sup>, Jonathan Elmer<sup>3</sup>, and Madeleine Smith<sup>4</sup>, <sup>1</sup>Division of Neurocritical Care, Department of Neurology and <sup>4</sup>Department of Neurosurgery, University of Maryland, Baltimore, MD, <sup>2</sup>Department of Neurology, Ayer Neuroscience Institute, University of Connecticut, Hartford, CT, and <sup>3</sup>Department of Emergency Medicine, Univeristy of Pittsburgh, Pittsburgh, PA.

**O.33 2:55 p.m.**

DIFFERENTIAL EXPRESSION OF CANNABINOID RECEPTOR SUBTYPES IN THE DEVELOPING MEDIAL AMYGDALA IN THE RAT. Neema Moin Afshar\*, Jonathan VanRyzin<sup>1</sup>, and Margaret McCarthy<sup>2</sup>, <sup>1</sup>Department of Anatomy and Neurobiology and <sup>2</sup>Department of Pharmacology, University of Maryland School of Medicine, Baltimore, MD.

**O.34 3:05 p.m.**

MYELOPEROXIDASE MEDIATED NEUROINFLAMMATION FOLLOWING EXPOSURE OF RATS TO UNDER-VEHICLE BLAST PLUS CONTROLLED CORTICAL IMPACT TRAUMATIC BRAIN INJURY. Lidia Castillo\*, Julie Proctor<sup>1</sup>, Boris Piskoun<sup>1</sup>, Parisa Rangghran<sup>3</sup>, Amanda Hrdlick<sup>1</sup>, and Gary Fiskum<sup>1</sup>, <sup>1</sup>Department of Anesthesiology, University of Maryland School of Medicine, Baltimore, MD.

**O.35 3:15 p.m.**

PREFRONTAL CORTEX ACTIVATION PREDICTS IMPULSIVENESS IN CHILDREN WITH SLEEP-DISORDERED BREATHING. Nidhi Mathew\*, Ali Jounghani<sup>1</sup>, Kevin Pereira<sup>2</sup>, Heather Bortfield<sup>1</sup>, and Amal Isaiah<sup>2</sup>, <sup>1</sup>Division of Cognitive and Information Sciences, University of California Merced School, Merced, CA, and <sup>2</sup>Department of Otorhinolaryngology - Head and Neck Surgery, University of Maryland School of Medicine, Baltimore, MD.

**O.36 3:25 p.m.**

ANTITHROMBOTICS AND STROKE SURVIVAL IN PATIENTS WITH CONCURRENT BLUNT CEREBROVASCULAR INJURY AND TBI. William Kelley\*, Deborah Stein<sup>1</sup>, Thomas Scalea<sup>1</sup>, and Margaret Lauerman<sup>1</sup>, <sup>1</sup>Division of Critical Care and Trauma, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

**Oral Presentation Session VII**

2:35 – 3:35 p.m., Room 351

**O.37 2:35 p.m.**

RETROSPECTIVE REVIEW OF PEDIATRIC 1ST METACARPAL FRACTURES: EPIDEMIOLOGY, OUTCOMES, COMPLICATIONS. Lindsay Kohan\*, Catherine May<sup>1</sup>, and Joshua Abzug<sup>1</sup>, <sup>1</sup>Division of Pediatrics, Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

**O.38 2:45 p.m.**

MODIFIED FRAILTY INDEX HELPS PREDICT MORTALITY AND AMBULATION IN PATIENTS WITH CHRONIC KIDNEY DISEASE FOLLOWING MAJOR LOWER EXTREMITY AMPUTATION. Maria Som\*, Natalie Chao<sup>1</sup>, Allison Karwoski<sup>1</sup>, Luke Pitsenbarger<sup>1</sup>, Nora Dunlap<sup>2</sup>, and Khanjan Nagarsheth<sup>2</sup>, <sup>2</sup>Division of Vascular, <sup>1</sup>Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

**O.39 2:55 p.m.**

EFFECTS OF PERIOPERATIVE VIDEO EDUCATION ON PATIENT POSTOPERATIVE NARCOTIC USE. Cameron Lingenfelter\*, Lauren Sands\*, Mohit Gilotra<sup>1</sup>, Kevin Wendeu-Foyet<sup>2</sup>, and Evan Honig<sup>2</sup>, <sup>1</sup>Division of Shoulder and Elbow Surgery, <sup>2</sup>Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

**O.40 3:05 p.m.**

FREQUENCY AND CHARACTERISTICS OF LABRAL INJURIES IN OPERATIVE ACETABULAR FRACTURES. Shirin Parsa\*, Maria Som\*, Nathan O'Hara<sup>1</sup>, M. Gerard-Paul Slobogean<sup>1</sup>, and Robert O'Toole<sup>1</sup>, <sup>1</sup>Division of Trauma, Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

**O.41 3:15 p.m.**

A RETROSPECTIVE COHORT STUDY OF LATARJET SHOULDER SURGERY: TWO-YEAR PREDICTORS OF IMPROVED OUTCOMES AND PROMIS PHYSICAL FUNCTION. Antoan Koshar\*, Evan Honig<sup>1</sup>, and R. Frank Henn III<sup>2</sup>, <sup>2</sup>Division of Sports Medicine, <sup>1</sup>Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

**O.42 3:25 p.m.**

EVALUATION OF INTRAOPERATIVE SUBJECTIVE STABILITY TESTING IN REVERSE TOTAL SHOULDER ARTHROPLASTY ACCORDING TO LEVEL OF PHYSICIAN TRAINING. Lauren Sands\*, Andrew Tran<sup>1</sup>, Cameron Lingenfelter<sup>2</sup>, and Mohit Gilotra<sup>3</sup>, <sup>3</sup>Division of Shoulder and Elbow, <sup>1</sup>Department of Orthopaedics, <sup>2</sup>University of Maryland School of Medicine, Baltimore, MD.

**Oral Presentation Session VIII**

3:40 – 4:40 p.m., Elm A (Room 208)

**O.43 3:40 p.m.**

THE IMPACT OF NEIGHBORHOOD SOCIOECONOMIC STATUS, RACE AND ETHNICITY, AND LANGUAGE ON PRENATAL DIAGNOSIS OF CONGENITAL HEART DISEASE. Maria Gianelle\*, Shifa Turan<sup>1</sup>, Jamie Mech<sup>1</sup>, and Alicia Chaves<sup>2</sup>, <sup>1</sup>Department of Obstetrics, Gynecology and Reproductive Sciences and <sup>2</sup>Division of Pediatric Cardiology, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

**O.44 3:50 p.m.**

CHRONIC KIDNEY DISEASE PREDICTS GREATER 5-YEAR MORTALITY FOLLOWING MAJOR LIMB AMPUTATION. Luke Pitsenbarger\*, Maria Som<sup>1</sup>, Natalie Chao<sup>1</sup>, Eyerusalem Workneh<sup>1</sup>, Nora Dunlap<sup>2</sup>, and Khanjan H. Nagarsheth<sup>2</sup>, <sup>2</sup>Division of Vascular, Department of Surgery, <sup>1</sup>University of Maryland School of Medicine, Baltimore, MD.

**O.45 4:00 p.m.**

EARLIER CLOSURE OF GUILLOTINE MAJOR LOWER EXTREMITY AMPUTATION IS ASSOCIATED WITH SHORTER HOSPITAL LENGTH OF STAY WITHOUT INCREASED RISK OF POST-AMPUTATION INFECTIONS. Eyerusalem Workneh\*, Allison Karwoski<sup>1</sup>, Natalie Chao<sup>1</sup>, Luke Pitsenbarger<sup>1</sup>, Nora Dunlap<sup>2</sup>, and Khanjan Nagarsheth<sup>2</sup>, <sup>2</sup>Division of Vascular, <sup>1</sup>Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

**O.46 4:10 p.m.**

CASE REPORT: DIRECT AORTIC ACCESS FOR ENDOVASCULAR THORACOABDOMINAL ANEURYSM REPAIR USING A BIFURCATED ENDOGRAFT AS A BRANCHED DEVICE. Jeffrey Lu\*, Shahab Toursavadkahi<sup>1</sup>, and Michael Hall<sup>1</sup>, <sup>1</sup>Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

**O.47 4:20 p.m.**

POST-OPERATIVE OUTCOMES FOLLOWING MAJOR LOWER EXTREMITY AMPUTATIONS ARE DEPENDENT ON SURGICAL SERVICE LINE AND PATIENT FRAILITY. Allison Karwoski\*, Eyerusalem Workneh<sup>1</sup>, Maria Som<sup>1</sup>, Luke Pitsenbarger<sup>1</sup>, Eleanor Dunlap<sup>2</sup>, and Khanjan Nagarsheth<sup>2</sup>, <sup>2</sup>Division of Vascular, <sup>1</sup>Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

**O.48 4:30 p.m.**

A CROSS-SECTIONAL ANALYSIS OF AMERICAN INSURANCE COVERAGE OF ENDOVENOUS LASER ABLATION FOR GREATER & LESSER SAPHENOUS VARICOSE VEINS. Chinenye Onyima\*, Nicholas Hricz<sup>1</sup>, Roland Zama<sup>2</sup>, Michael Ha<sup>1</sup>, and Yvonne Rasko<sup>1</sup>, <sup>1</sup>Division of Plastics Surgery, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD and <sup>2</sup>Department of Surgery, Georgetown University School of Medicine, Washington, DC.

**Oral Presentation Session IX**

3:40 – 4:40 p.m., Elm B (Room 210)

**O.49 3:40 p.m.**

THE USE OF EXTRACORPOREAL MEMBRANE OXYGENATION FOR COVID-19 IS NOT ASSOCIATED WITH IMPROVED PULMONARY FUNCTION OR 6-MINUTE WALK TESTS AT FOLLOW UP. Mackenzie Snyder\*, Binta Njie<sup>1</sup>, Hatoon Abbas<sup>2</sup>, Noel Britton<sup>3</sup>, and Andrea Levine<sup>4</sup>, <sup>2</sup>Division of Pulmonology and Critical Care Medicine, Department of Medicine, <sup>1</sup>University of Maryland Medical System, and <sup>3</sup>Division of Pulmonology and Critical Care, Department of Medicine, Johns Hopkins University, and <sup>4</sup>Division of Pulmonology and Critical Care, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

**O.50 3:50 p.m.**

PULMONARY FUNCTION ASSOCIATED WITH SYSTEMIC METAL EXPOSURE IN VETERANS WITH TOXIC EMBEDDED METAL FRAGMENTS. Emma Lawrence\*, Joanna Gaitens<sup>1</sup>, Clayton Brown<sup>2</sup>, Danielle Glick<sup>3</sup>, Melissa McDiarmid<sup>1</sup>, and Stella Hines<sup>1</sup>, <sup>1</sup>Division of Occupational and Environmental Medicine, Department of Medicine, <sup>2</sup>Division of Biostatistics and Informatics, Department of Epidemiology and Public Health, and <sup>3</sup>Division of Pulmonary and Critical Care, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

**O.51 4:00 p.m.**

PULMONARY CONTUSION: AUTOMATED QUANTITATIVE VISUALIZATION WITH DEEP LEARNING. Nathan Sarkar\*, Peter Campbell<sup>1</sup>, Udit Khetan<sup>1</sup>, Mustafa Khedr<sup>1</sup>, and David Dreizin<sup>2</sup>, <sup>2</sup>Department of Diagnostic Radiology and Nuclear Medicine, <sup>1</sup>University of Maryland School of Medicine, Baltimore, MD.

**O.52 4:10 p.m.**

THE VALUE OF DETAILED FIRST-TRIMESTER ULTRASOUND SCREENING IN THE ERA OF NON-INVASIVE PRENATAL TESTING. Nicol Tugarinov\*, Grace Lechmann\*, Erkan Cagliyan<sup>1</sup>, Arica Stockett<sup>2</sup>, Kristyn Esteves<sup>1</sup>, and Shifa Turan<sup>1</sup>, <sup>1</sup>Division of Maternal Fetal Medicine, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.

**O.53 4:20 p.m.**

MASSIVE HYDROCELES AS A PRESENTING SYMPTOM OF NEPHROTIC SYNDROME. Jessica Palmer\*, Nicholas Musacchio<sup>1</sup>, Gianna Stoleru<sup>1</sup>, and Lee-Ann Wagner<sup>1</sup>, <sup>1</sup>Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

**O.54 4:30 p.m.**

MANAGEMENT OF ZYGOMATICOMAXILLARY COMPLEX FRACTURES AT A LEVEL 1 TRAUMA CENTER: RETROSPECTIVE STUDY AND REVIEW OF LITERATURE. Pharibe Pope\*, Meryam Shikara<sup>1</sup>, Kimberly Oslin<sup>2</sup>, Joshua Yoon<sup>3</sup>, Kalpesh Vakharia<sup>1</sup>, and Natalie Justicz<sup>1</sup>, <sup>1</sup>Department of Otorhinolaryngology - Head and Neck Surgery, <sup>2</sup>University of Maryland School of Medicine, Baltimore, MD and <sup>3</sup>Department of Surgery, George Washington University School of Medicine, Washington DC.

**Oral Presentation Session X**

3:40 – 4:40 p.m., Room 351

**O.55 3:40 p.m.**

IMPROVEMENTS IN PATIENT THROUGHPUT AFTER CREATION OF AN INTEGRATED MAXILLOFACIAL TRAUMA SERVICE. Seray Er\*, Joshua Yoon<sup>1</sup>, Cynthia Yusuf<sup>2</sup>, Eric Resnick<sup>2</sup>, and Michael Grant<sup>3</sup>, <sup>1</sup>Department of Surgery, George Washington University Hospital, Washington DC and <sup>3</sup>Division of Plastic and Reconstructive Surgery, Department of Surgery, <sup>2</sup>University of Maryland School of Medicine, Baltimore, MD.

**O.56 3:50 p.m.**

A RETROSPECTIVE REVIEW OF PROPHYLACTIC PARASPINOUS SOFT TISSUE AND SKIN RECONSTRUCTION. Madeline Brown\*, Michael Ha<sup>1</sup>, Seray Er<sup>1</sup>, Salman Choudhry<sup>2</sup>, Richard Smith<sup>3</sup>, and Yvonne Rasko<sup>1</sup>, <sup>1</sup>Division of Plastic Surgery, Department of Surgery, University of Maryland School of Medicine and <sup>3</sup>University of Maryland School of Dentistry, Baltimore, MD, and <sup>2</sup>Anne Arundel Medical Center, MD.

**O.57 4:00 p.m.**

FACIAL TRAUMA MANAGEMENT DURING THE COVID-19 PANDEMIC. Suneet Waghmarac\*, Saikrishna Gourishetti<sup>1</sup>, Meryam Shikara<sup>1</sup>, and Kalpesh Vakharia<sup>2</sup>, <sup>2</sup>Division of Head & Neck Surgery, <sup>1</sup>Department of Otorhinolaryngology - Head and Neck Surgery, University of Maryland School of Medicine, Baltimore, MD.

**O.58 4:10 p.m.**

MALPRACTICE LITIGATION IN ABDOMINOPLASTY. Nicholas Hricz\*, Allison Karkowski<sup>1</sup>, Michael Ha<sup>2</sup>, and Yvonne Rasko<sup>2</sup>, <sup>1</sup>Department of Medicine and <sup>2</sup>Division of Plastic Surgery, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

**O.59 4:20 p.m.**

EVALUATION OF PRE-OPERATIVE EFFORTFUL LISTENING PERFORMANCE USING FUNCTIONAL NEAR-INFRARED SPECTROSCOPY (FNIRS). Audrey Zauher\* and Amal Isaiah<sup>1</sup>, <sup>1</sup>Department of Otorhinolaryngology - Head and Neck Surgery, University of Maryland School of Medicine, Baltimore, MD.

**O.61 4:30 p.m.**

PERFORMANCE OF AN ARTIFICIAL INTELLIGENCE PULMONARY EMBOLISM TRIAGE TOOL DURING A GLOBAL CT CONTRAST SHORTAGE. Youngjae Cha\*, George Morcos<sup>1</sup>, Paul Yi<sup>1</sup>, and Jean Jeudy<sup>1</sup>, <sup>1</sup>Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine, Baltimore, MD.

## Poster Presentation Schedule

Presenters are indicated with “\*” next to their names.

### Poster Presentation Session I

2:35 – 3:35 p.m., Room 349

**P.01 2:35 p.m.**

COMPARING ADVERSE MATERNAL AND FETAL OUTCOMES IN SYMPTOMATIC VERSUS ASYMPTOMATIC COVID-19 INFECTION. Brianna Dubose\*, Yazmeen Tembunde<sup>1</sup>, and Beth Pineles<sup>2</sup>, <sup>1</sup>University of Maryland School of Medicine, Baltimore, MD, and <sup>2</sup>Department of Obstetrics, Gynecology and Reproductive Sciences, University of Pennsylvania School of Medicine, Philadelphia, PA.

**P.02 2:35 p.m.**

ASSESSING THE IMPACT OF TELEMEDICINE IMPLEMENTATION ON PATIENT SATISFACTION WITH AND ADHERENCE TO GYNECOLOGIC APPOINTMENTS. Sue Junn\*, Julie Hurvitz<sup>1</sup>, Andrea Desai<sup>1</sup>, and Elizabeth Lahti<sup>1</sup>, <sup>1</sup>Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.

**P.03 2:35 p.m.**

ASSESSING SKIN OF COLOR REPRESENTATION IN LITERATURE ABOUT MIMICKERS OF MYCOSIS FUNGOIDES. Yazmeen Tembunde\*, Christy Nwankwo<sup>1</sup>, and Jarad Levin<sup>2</sup>, <sup>1</sup>Department of Medicine, University of Missouri - Kansas City School of Medicine School of Medicine, Kansas City, MO, and <sup>2</sup>Department of Dermatology, University of Oklahoma College of Medicine School of Medicine, Oklahoma City, OK.

**P.04 2:35 p.m.**

ACCESS TO PEDIATRIC VISION SCREENINGS IN NORTH AMERICA: A SYSTEMATIC REVIEW. Bhakti Panchal\*, Mariama Jallow<sup>1</sup>, Geoffrey Nguyen<sup>2</sup>, Runze Zhang<sup>3</sup>, Esther Xu<sup>2</sup>, and Janet Alexander<sup>1</sup>, <sup>1</sup>Department of Ophthalmology and Visual Sciences and <sup>2</sup>Department of Medicine, University of Maryland School of Medicine, Baltimore, MD, and <sup>3</sup>Department of Medicine, UIC School of Medicine, Chicago, IL.

**P.05 2:35 p.m.**

TIME TO DEFINITIVE SURGERY IN MOHS MICROGRAPHIC SURGERY. Davies Gage\*, Katherine Thompson<sup>1</sup>, Emanuelle Rizk<sup>1</sup>, and Jeffrey Scott<sup>1</sup>, <sup>1</sup>Division of Dermatologic Surgery, Department of Dermatology, Johns Hopkins School of Medicine, Baltimore, MD.

**P.06 2:35 p.m.**

EVALUATION OF TUMOR VOLUME AS A PREDICTOR OF OUTCOMES FOR PATIENTS WITH LOCALLY ADVANCED ESOPHAGEAL CANCER. Alanna Stefano\* Jason and Molitoris<sup>1</sup>, <sup>1</sup>Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.

**P.08 2:35 p.m.**

VALIDATING THE USE OF 3D BIPLANAR RADIOGRAPHY VS CT WHEN MEASURING FEMORAL ANTEVERSION AFTER TOTAL HIP ARTHROPLASTY-A COMPARATIVE STUDY. Zachary Brilliant\*, Christopher Anderson<sup>1</sup>, Seong Jang<sup>2</sup>, David Mayman<sup>1</sup>, Jonathan



Vigdorchik<sup>1</sup>, and Peter Sculco<sup>1</sup>, <sup>1</sup>Department of Orthopaedics, Hospital for Special Surgery and <sup>2</sup>Department of Orthopaedics, Weill Cornell Medical College, New York, NY.

**P.09 2:35 p.m.**

FREQUENCY AND CHARACTERISTICS OF LABRAL INJURIES IN OPERATIVE ACETABULAR FRACTURES. Joseph Blommer\*, Peter Kim\*, Joseph Blommer<sup>1</sup>, Peter Kim<sup>1</sup>, Nathan O'Hara<sup>1</sup>, Gerard Slobogean<sup>2</sup>, and Robert O'Toole<sup>2</sup>, <sup>2</sup>Division of Trauma, <sup>1</sup>Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

**P.10 2:35 p.m.**

SHEAR WAVE ELASTOGRAPHY AS A MEASURE OF TENSION IN REVERSE TOTAL SHOULDER ARTHROPLASTY PATIENTS: A PILOT STUDY. Ryan Curto\*, Scott Koenig<sup>1</sup>, Raziye Baghi<sup>2</sup>, Jacqueline Addona<sup>3</sup>, and Mohit Gilotra<sup>1</sup>, <sup>1</sup>Department of Orthopaedics and <sup>2</sup>Department of Physical Therapy and Rehabilitation Science, <sup>3</sup>University of Maryland School of Medicine, Baltimore, MD.

**P.11 2:35 p.m.**

FROM ANONYMITY TO IDENTIFICATION IN THE ANATOMICAL DISSECTION ROOM. Marquis Berrey\* and Adam Puche<sup>1</sup>, <sup>1</sup>Department of Anatomy and Neurobiology, University of Maryland School of Medicine, Baltimore, MD.

**P.12 2:35 p.m.**

ACUTE HEALTH EFFECTS OF SUMMER WILDFIRE SMOKE IN MARYLAND. Donald De Alwis\* and Zhekang Ying<sup>1</sup>, <sup>1</sup>Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

**Poster Presentation Session II**

3:40 – 4:40 p.m., Room 349

**P.14 3:40 p.m.**

EFFECTS OF IMPLEMENTING A MANDATORY MENTORED SCHOLARLY PROJECT (FRCT) AT UNIVERSITY OF MARYLAND SCHOOL OF MEDICINE. Sarah Flaherty\*, Greg Carey<sup>1</sup>, and Donald R. Matteson<sup>1</sup>, Office of Student Research, University of Maryland School of Medicine, Baltimore, MD.

**P.15 3:40 p.m.**

EDUCATIONAL INTERVENTION FOR MANAGEMENT OF ACUTE TRAUMA PAIN. Ariana Taj\*, Luana Colloca<sup>1</sup>, Rachel Massalee<sup>1</sup>, Nathaniel Haycock<sup>1</sup>, Robert Scott Murray<sup>1</sup>, and Yang Wang<sup>1</sup>, <sup>1</sup>Department of Anesthesiology, University of Maryland School of Nursing, Baltimore, MD.

**P.16 3:40 p.m.**

DECLINING EXPERIENCE WITH NEOSTIGMINE ADMINISTRATION AMONG GRADUATING ANESTHESIOLOGY RESIDENTS IN THE SUGAMMADEX ERA. Kelly Poe\*, Matthew Tulis<sup>1</sup>, Kimberly Hollander<sup>1</sup>, and Miranda Gibbons<sup>1</sup>, Peter Rock<sup>1</sup>, Megan Graybill Anders<sup>1</sup>, <sup>1</sup>Department of Anesthesiology, University of Maryland School of Medicine, Baltimore, MD.

**P.17 3:40 p.m.**

NEUTROPHILIC SIGNATURES ASSOCIATE WITH DISEASE SEVERITY IN SARS-COV-2 INFECTION IN A SEX SPECIFIC MANNER. Guido Massaccesi\*, Ziqi Fu<sup>1</sup>, Weiqiang Zhou<sup>1</sup>, and Eileen Scully<sup>2</sup>, <sup>1</sup>Department of Biostatistics and <sup>2</sup>Division of Infectious Diseases, Department of Medicine, Johns Hopkins University School of Medicine, Baltimore, MD.

**P.18 3:40 p.m.**

USING BIOINFORMATIC ANALYSES TO IDENTIFY *PLASMODIUM FALCIPARUM* PFRIPR EPITOPES FOR HIGH IMMUNOGENIC POTENTIAL. Alexander Laurenson\*, Joana Carneiro da Silva<sup>1</sup>, Sodiomon B. Sirima<sup>2</sup>, Amed Ouattara<sup>3</sup>, and Matthew B. Laurens<sup>4</sup>, <sup>1</sup>Department of Microbiology and Immunology, <sup>3</sup>Division of Malaria Research, Department of Medicine, and <sup>4</sup>Division of Infectious Diseases, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD, USA and <sup>2</sup>Groupe de Recherche Action en Santé, Ouagadougou, Burkina Faso.

**P.19 3:40 p.m.**

ANALYSIS OF TREATMENT TOXICITY IN LIVER RE-IRRADIATION WITH PROTON BEAM THERAPY AFTER 90Y TRANSARTERIAL CHEMO-EMBOLIZATION. Manaahil Rao\* and Jason Molitoris<sup>1</sup>, <sup>1</sup>Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.

**P.20 3:40 p.m.**

EVALUATING CHANGES IN CANNABIS USE DURING PREGNANCY. Kajal Parikh\*, Maggie Besse\* and Katrina Mark<sup>1</sup>, <sup>1</sup>Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.

**P.22 3:40 p.m.**

*KCNMA1*-LINKED CHANNELOPATHY: HUMAN PATIENT CASE STUDY AND ANIMAL MODEL OF DYSKINESIA. Indira Jetton\*, Andrea Meredith<sup>1</sup>, and Philip Iffland<sup>2</sup>, <sup>1</sup>Department of Physiology and <sup>2</sup>Department of Anatomy and Neurobiology, University of Maryland School of Medicine, Baltimore, MD.

**P.23 3:40 p.m.**

QUALITY AND OUTCOMES FOLLOWING IMPLEMENTATION OF ANESTHESIOLOGY FOR ALL MECHANICAL THROMBECTOMY CASES. Madison McGann\*, Jose Marino<sup>1</sup>, Chad Schrier<sup>2</sup>, Gaurav Jindal<sup>3</sup>, and Michael Phipps<sup>2</sup>, <sup>2</sup>Division of Stroke, <sup>1</sup>Department of Neurology and <sup>3</sup>Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine, Baltimore, MD.

**P.24 3:40 p.m.**

CELLULAR MECHANISM INVOLVED IN HEMORRHAGIC PROGRESSION OF CONTUSION FOLLOWING TRAUMATIC BRAIN INJURY. Madison Evans\*, Anandita Gaur<sup>1</sup>, Volodymyr Gerzanich<sup>2</sup>, Kaspar Keledjian<sup>2</sup>, Orest Tsybalyuk<sup>2</sup>, and J. Marc Simard<sup>2</sup>, <sup>1</sup>University of Maryland, College Park, College Park, MD, and <sup>2</sup>Department of Neurosurgery, University of Maryland School of Medicine, Baltimore, MD.

**P.25 3:40 p.m.**

THE IMPACT OF SLEEP DURATION ON FUNCTIONAL BRAIN NETWORKS AND PUBERTAL HORMONE LEVELS IN YOUNG ADOLESCENTS. Ozerk Turan\*, Linda Chang<sup>1</sup>, Amal Isaiah<sup>2</sup>, Thomas Ernst<sup>1</sup>, and Jonathan Garner<sup>1</sup>, <sup>1</sup>Department of Diagnostic Radiology and Nuclear Medicine and <sup>2</sup>Department of Otorhinolaryngology - Head and Neck Surgery, University of Maryland School of Medicine, Baltimore, MD.

**P.26 3:40 p.m.**

RGC-32 CONTRIBUTES TO REACTIVE ASTROCYTOSIS IN EXPERIMENTAL AUTOIMMUNE ENCEPHALOMYELITIS BY MAINTAINING A MATURE PHENOTYPE. Jacob Cuevas\*, Alexandru Tatomir<sup>1</sup>, Vinh Vinh<sup>2</sup>, and Horea Rus<sup>1</sup>, <sup>1</sup>Department of Neurology and Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

**P.27 3:40 p.m.**

ASSESSING UNMET EYE CARE NEEDS AMONG PATIENTS WITH CHRONIC KIDNEY DISEASE UNDERGOING HEMODIALYSIS. Priya Agrawal\*, Ramya Swamy<sup>1</sup>, and Ami Patel<sup>2</sup>, <sup>1</sup>Department of Ophthalmology and Visual Sciences and <sup>2</sup>Division of Nephrology, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

**P.28 3:40 p.m.**

LASER-DELIVERED BIO-IDENTICAL GROWTH FACTORS AS A TREATMENT FOR CENTRAL CENTRIFUGAL CICATRICIAL ALOPECIA. Yazmeen Tembunde\* and Chesahna Kindred<sup>1</sup>, <sup>1</sup>Department of Dermatology, Howard University College of Medicine School of Medicine, Washington, DC.

**P.29 3:40 p.m.**

LONG-TERM COMPLICATIONS OF COVID-19 IN TRANSPLANT RECIPIENTS. Kaitlyn Freels\*, Kapil Saharia<sup>1</sup>, John Baddley<sup>1</sup>, Nadiesda Costa<sup>2</sup>, and Silke Niederhaus<sup>3</sup>, <sup>1</sup>Division of Infectious Disease, Department of Medicine and <sup>3</sup>Division of Transplant, Department of Surgery University of Maryland School of Medicine, Baltimore, MD, and <sup>2</sup>Division of Nephrology, Department of Medicine, Georgetown University School of Medicine, Washington D.C.

**P.30 2:35 p.m.**

FARTHER GEOGRAPHIC DISTANCE AND LOWER SOCIOECONOMIC STATUS SHOULD NOT PRECLUDE TRANSFER OF ACUTE LIMB ISCHEMIA TO TERTIARY CARE CENTERS. Gillian Murray\* and Khanjan Nagarsheth<sup>1</sup>, <sup>1</sup>Division of Vascular Surgery, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.