



UNIVERSITY of MARYLAND
SCHOOL OF MEDICINE

42nd Annual
Medical Student Research Day

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

Tuesday, November 19, 2019
University of Maryland School of Medicine
Baltimore, MD 21201

Event Program

Office of Student Research

Kerri A. Thom, M.D., M.S.
Professor of Epidemiology and Public Health
Assistant Dean for Student Research and Education
Director of the Office of Student Research

Gregory B. Carey, Ph.D.
Associate Professor of Microbiology and Immunology
Director of Student Research and Community Outreach

Donald R. Matteson, Ph.D.
Associate Professor of Physiology
Executive Director of Student Research Education and Dual Degree Programs

Qi Cao, J.D.
Research Coordinator

Eileen M. Eldridge
Administrative Assistant

Alpha Omega Alpha Honor Society Members and Additional Event Staff

Dr. John Allen
Event Staff

Jamie Kator, MS III
Event Staff

Serban Negoita, MS II
Event Staff

Justin Brilliant, MS IV
MSRD Event Coordinator

Justin Kung, MS II
Event Staff

Cristian Salgado, MS IV
MSRD Event Coordinator

Latasha Easter, MS IV
Event Staff

Alexandra Laps, MS IV
Event Staff

Matt Schliep, MS III
Event Staff

Francia Fang, MS I
Event Staff

Karishma Patel, MS IV
MSRD Event Coordinator

Yinglun Wu, MS IV
Event Staff

Johnny Jung, MS I
Event Staff

Grace Lee, MS III
Event Staff

Additional event staff will be
listed

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, resident, fellow, post-doctoral fellow and AOA student member judges who so willingly provided their time and knowledge.

Dr. John Allen	Dr. Curt Civin	Dr. D. Elizabeth O'Hanlon
Dr. Pavlos Anastasiadis	Dr. Daniel Haase	Dr. Adam Puche
Dr. Megan Anders	Dr. Bret Hassel	Dr. Mohammed Rahman
Dr. Daya Bagdure	Dr. Xiaofeng Jia	Dr. Rehka Rapaka
Dr. Elizabeth Balcer-Kubiczek	Dr. Kristie Johnson	Dr. Choz Rathinam
Dr. Aditi Banerjee	Dr. Wallace Johnson	Dr. Katharina Richard
Dr. Michael Billet	Dr. Laundette Jones	Dr. Chinmoy Sarkar
Dr. Jonathan Bromberg	Dr. Howard Kader	Dr. David Serre
Dr. Xuefang Cao	Dr. Kazuyo Kegan	Dr. Giovannino Silvestri
Dr. Rebecca Carter	Dr. John LaMattina	Dr. James Snider, III
Dr. Wendy Chang	Dr. Olga Latinovic	Dr. Sripriya Sundararajan
Dr. Svetlana Chapoval	Dr. Alicia Lucksted	Dr. Vladimir Toshchakov
Dr. Som Chatterjee	Dr. Regina Macatangay	Dr. Areck Ucuzian
Dr. William Chiu	Dr. Jason Molitoris	Dr. Rezwanul Wahid
Dr. Kenechukwu Chudy-Onwugaje	Dr. Yuko Ota	

Additional judges will be added.

42nd Annual Medical Student Research Day

Tuesday, November 19, 2019

Noon – 6:45 p.m.

University of Maryland School of Medicine

Baltimore, MD, 21201

Preliminary General Schedule

7:00 a.m. – 12:20 p.m.	<i>Poster Set-up (Poster Session I only)</i>
12:00 – 1:20 p.m.	Registration
Lunch & Keynote Address	12:00 – 1:30 p.m.
12:00 – 1:20 p.m.	Lunch – MSTF Atrium
12:20 – 12:40 p.m.	Opening Remarks Gregory B. Carey, Ph.D. Associate Professor of Microbiology and Immunology Director of Student Research and Community Outreach
	Kerri A. Thom, M.D., M.S. Professor of Epidemiology and Public Health Assistant Dean for Student Research and Education Director of the Office of Student Research
	Karishma Patel, MS IV Maryland Beta Chapter Alpha Omega Alpha Honor Medical Society
12:40 – 1:10 p.m.	Keynote Address M. Minhaj Siddiqui, M.D. Associate Professor of Surgery Director of Urologic Oncology and Robotic Surgery Chief of Urology, Baltimore VA Medical Center
1:10 – 1:20 p.m.	Schedule & Procedures Qi Cao, J.D. Research Coordinator
1:20 – 1:30 p.m.	<i>Break</i>
Oral Presentations	1:30 – 2:55 p.m.
1:30 – 2:45 p.m.	Oral Presentation Session I – HSRF III Room 4020 Oral Presentation Session II – HSRF III Room 4010 Oral Presentation Session III – HSRF III Room 5010 Oral Presentation Session IV – HSRF III Room 5020 Oral Presentation Session V – HSRF III Room 6010
2:45 – 2:55 p.m.	<i>Break</i>

Poster Presentations**2:55 – 5:35 p.m.**

2:55 – 3:55 p.m.

Poster Presentation Session I – HSRF III Atrium

3:55 – 4:05 p.m.

Poster Take-down (Poster Sessions I only)

4:05 – 4:25 p.m.

Poster Set-up (Poster Sessions II only)

4:25 – 5:25 p.m.

Poster Presentation Session II – HSRF III Atrium

5:25 – 5:35 p.m.

*Poster Takedown (Poster Sessions II only)***Awards Banquet****5:35 – 6:45 p.m.**

5:35 – 6:45 p.m.

Dinner – MSTF Atrium

5:55 – 6:20 p.m.

Honoring Faculty Mentors

6:25 – 6:35 p.m.

Presentation of Awards & Certificates

AOA Representatives**Gregory B. Carey, Ph.D.****Kerri A. Thom, M.D., M.S.**

6:35 – 6:40 p.m.

Closing Remarks

Oral Presentation Schedule

Oral presentations are 15 minutes each.

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

The “A” designation in some of the presentation IDs is arbitrary and used to maintain order and sequencing following slight changes in the presentation line-up.

Oral Presentation Session I

1:30 – 2:45 p.m.

HSRF III Room 4020

O.01 1:30 p.m.

THERAPEUTIC DRUG-INDUCED HYPOTHERMIA IN TRAUMATIC SPINAL CORD INJURY. Kevin Kim*, Amrita Sarkar*, Orest Tsybalyuk, Vladimir Gerzanich, and J Marc Simard, Department of Neurosurgery, University of Maryland School of Medicine, Baltimore, MD.

O.02 1:45 p.m.

PREDICTORS OF INCREASED LENGTH OF STAY AFTER SPINE SURGERY FOR THORACIC AND LUMBAR TRAUMA. Justin Kung*, Jael Camacho¹, Jacob Bruckner¹, Eugene Koh¹, Daniel Gelb¹, and Steven Ludwig², ¹Division of Spine, ²Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

O.03 2:00 p.m.

EARLY PREDICTORS AMONG EMERGENCY DEPARTMENT PATIENTS WITH SUSPECTED SPINAL INJURIES FROM NEAR SHORE AQUATIC ACTIVITIES. Tucker Lurie* and Quincy Tran, Department of Emergency Medicine, University of Maryland School of Medicine, Baltimore, MD.

O.04 2:15 p.m.

GENE EXPRESSION CORRELATES IN A RAT MODEL OF GULF WAR ILLNESS. Stephen Semick*, Kaspar Keledjian, Orest Tsybalyuk, Seung Woo, Vladimir Gerzanich, and J. Marc Simard, Department of Neurosurgery, University of Maryland School of Medicine, Baltimore, MD.

O.04A 2:30 p.m.

NEXT GENERATION SEQUENCING AND CLINICOPATHOLOGIC ANALYSIS OF 135 PULMONARY INVASIVE MUCINOUS ADENOCARCINOMAS. Sharon Amir*, Hira Rizvi, Michael Offin, and Charles Rudin, Department of Medicine, Memorial Sloan Kettering Cancer Center, New York, NY.

Break (2:45 – 2:55 p.m.)

Oral Presentation Session II

1:30 – 2:45 p.m.

HSRF III Room 4010

O.05 1:30 p.m.

CAUSES AND CHARACTERISTICS OF COOKING BURNS IN PEDIATRIC PATIENTS: ANALYSIS OF THE WHO GLOBAL BURN REGISTRY. Joseph Puthumana*, Ledi Babari Ngaage, Sheri Slezak, and Yvonne Rasko, Division of Plastic Surgery, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

O.06 1:45 p.m.

PLAYGROUND SAFETY AND PLAYGROUND INJURIES THAT PRESENT TO URBAN PEDIATRIC EMERGENCY DEPARTMENTS. Mary Melati* and Michael Tunik, Division of Pediatric Emergency Medicine, Department of Pediatrics, New York University School of Medicine, New York, NY.

O.07 2:00 p.m.

ELUCIDATING THE ROLE OF GDF-15 IN INTRAMYOCARDIAL CELL-BASED THERAPY FOR HYPOPLASTIC LEFT HEART SYNDROME. Lauren Levy*, Sunjay Kaushal¹, David Morales², and Rachana Mishra¹, ¹Division of Cardiac Surgery, ²Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

O.08 2:15 p.m.

DYNAMIC REGULATION OF SMYBP-C VIA PHOSPHORYLATION AND SUBSEQUENT EFFECTS ON MYOSIN BINDING. Aishwarya Iyer* and Aikaterini Kontrogianni-Konstantopoulos, Department of Biochemistry and Molecular Biology, University of Maryland School of Medicine, Baltimore, MD.

O.09 2:30 p.m.

ASSOCIATION OF FEEDING PATTERNS WITH INTESTINAL BARRIER FUNCTION IN PREMATURE NEONATES. Lisa Roskes*, Rose Viscardi¹, Alexandre Medina de Jesus², and Sripriya Sundararajan¹, ¹Division of Neonatology, ²Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

Break (2:45 – 2:55 p.m.)

Oral Presentation Session III

1:30 – 2:45 p.m.

HSRF III Room 5010

O.10 1:30 p.m.

IMPACT OF DEXAMETHASONE GLIOBLASTOMA IMMUNOTHERAPY AND STRATEGIES TO AVOID STEROID-INDUCED T-CELL SUPPRESSION. Huanwen Chen* and Mark Gilbert, Neuro-Oncology Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD.

O.11 1:45 p.m.

EVALUATING NEURO-QOL SHORT FORM AS A TOOL FOR DETECTING NEUROCOGNITIVE FUNCTIONAL DECLINE AMONG PATIENTS WHO HAVE UNDERGONE BRAIN TUMOR RADIOTHERAPY. Sung Choi*, Mark Mishra, and Emily Kowalski, Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.

O.12 2:00 p.m.

IDENTIFYING PSYCHOSOCIAL, DEMOGRAPHIC, AND ECONOMIC DISPARITIES FOR CANCER PATIENTS UNDERGOING RADIATION THERAPY IN AN URBAN UNDERSERVED POPULATION. Dahlia Kronfli*, Melissa Vyfhuis¹, Pranshu Mohindra¹, Kaysee Baker², and Laurie Waldo³, ²Division of Clinical Research Operations and ³Division of Social Work, ¹Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.

O.13 2:15 p.m.

PRIMARY TUMOR CLEARANCE VS. NODAL CLEARANCE AS A PREDICTOR OF ONCOLOGIC OUTCOMES IN ESOPHAGEAL AND GASTROESOPHAGEAL JUNCTION MALIGNANCIES. Melanie Berger*, Cristina DeCesaris, and Jason Molitoris, Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.

O.14 2:30 p.m.

DOSIMETRIC ANALYSES IN PATIENTS UNDERGOING TOTAL BODY IRRADIATION (TBI). Philip Damron*, Santanu Samanta, Yannick Poirier, Narottam Lamichhane, Byong Yong Yi, and Pranshu Mohindra, Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.

Break (2:45 – 2:55 p.m.)

Oral Presentation Session IV

1:30 – 2:45 p.m.

HSRF III Room 5020

O.15 1:30 p.m.

CHARACTERIZING THE RELATIONSHIP BETWEEN THE VAGINAL MICROBIOME, THE METABOLOME, AND ADVERSE SYMPTOMS IN WOMEN. Madeline Alizadeh*, Michael France¹, Pawel Gajer¹, Hector Corrada Bravo², and Jacques Ravel¹, ¹Institute for Genome Sciences, University of Maryland School of Medicine, Baltimore, MD, and ²Department of Computer Science, University of Maryland, College Park, College Park, MD.

O.16 1:45 p.m.

SALMONELLA OUTER MEMBRANE VESICLE LIPID A STRUCTURE IS INFLUENCED BY BAMA AND PAGL. Casey Hofstaedter*, Thanh Pham¹, James E. Galen¹, and Robert Ernst², ¹Department of Medicine, University of Maryland School of Medicine and ²Department of Microbial Pathogenesis, University of Maryland School of Dentistry, Baltimore, MD.

O.17 2:00 p.m.

PHARMACOGENOMICS OF GLP1 RECEPTOR AGONISTS IN TYPE 2 DIABETES. Ashley Yuen*, May Montasser, Elizabeth Streeten, Amber Beitelshes, and Simeon Taylor, Division of Endocrinology, Diabetes, and Nutrition, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

O.18 2:15 p.m.

EVALUATING DIABETES SCREENING METHODS IN EARLY PREGNANCY. Lucille Martin*, Emad Elsamadicy, Tabitha Quebedeaux, Andrea Desai, Jerome Kopelman, and Sarah Crimmins, Division of Maternal Fetal Medicine, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.

O.19 2:30 p.m.

FACTORS INFLUENCING WOMEN'S PERCEPTIONS OF SHARED DECISION MAKING DURING PRENATAL CARE. Sarah Vogel*, Rachel Breman¹, Jenifer Fahey², and Sarah Crimmins³, ¹Department of Partnerships, Professional Education & Practice, University of Maryland School of Nursing and ³Division of Maternal and Fetal Medicine, ²Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.

Break (2:45 – 2:55 p.m.)

Oral Presentation Session V

1:30 – 2:45 p.m

HSRF III Room 6010

O.20A 1:30 p.m.

LONGEVITY OF OUTCOMES FOLLOWING REDUCTION MAMMOPLASTY. Carly Rosen*, Yvonne Rasko¹, Jennifer Bai¹, LediBabari Ngaage¹, Colton McNichols¹, and Sheri Slezak², ¹Division of Plastic Surgery, ²Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

O.21A 1:45 p.m.

POST-ABDOMINAL TRANSPLANT HERNIA: WHAT INCREASES RISK? Brooks Knighton*, Ledibabari Ngaage, and Yvonne Rasko, Division of Plastic Surgery, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

O.22 2:00 p.m.

ACADEMIC PRODUCTIVITY ACROSS PLASTIC SURGERY SUB-SPECIALTY FELLOWS. Katie McGlone*, LediBabari Ngaage, and Yvonne Rasko, Division of Plastic Surgery, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

O.23A 2:15 p.m.

STRUCTURAL CHANGES AFTER ANGLE SURGERY COMPARED TO TUBE SHUNT PLACEMENT IN INFANTS AND CHILDREN. Jennifer Drechsler* and Janet Alexander, Division of Pediatric Ophthalmology and Strabismus, Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD.

O.24A 2:30 p.m.

IDENTIFYING AND REDUCING ERRORS IN PERIOPERATIVE ANESTHESIA MEDICATION DELIVERY: THE ROLE OF TECHNOLOGY. Caroline Schlee*, Myrte de Alfred¹, and Ken Catchpole, Department of Anesthesia and Perioperative Medicine, Medical University of South Carolina, Charleston, SC.

Break (2:45 – 2:55 p.m.)

Poster Presentation Schedule

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

The “A” designation in some of the presentation IDs is arbitrary and used to maintain order and sequencing following slight changes in the presentation line-up.

Poster Presentation Session I

2:55 – 3:55 p.m.
HSRF III Atrium

P.00 2:55 p.m.

EXPANDING ACCESS TO MEDICATION ASSISTED TREATMENT FOR OPIOID USE DISORDER VIA TELEMEDICINE IN RURAL MARYLAND. Alexandra Berthiaume*, Eric Weintraub¹, Christopher Welsh¹, Annabelle Belcher², Shelby Goodwin², and Amna Zehra³, ¹Division of Addiction Research and Treatment, ²Department of Psychiatry, ³University of Maryland School of Medicine, Baltimore, MD.

P.01 2:55 p.m.

IMPLEMENTATION OF EPILEPSY GUIDELINES FOR MOOD SCREENING UTILIZING THE EMR. Jonathan Popham* and Jennifer Hopp, Division of Epilepsy, Department of Neurology, University of Maryland School of Medicine, Baltimore, MD.

P.02 2:55 p.m.

EVALUATING PERI-ICTAL CHANGES IN MOOD IN PATIENTS WITH EPILEPTIC SEIZURES. Cristiana Salvatori*, Jennifer Hopp¹, Lauren Kasoff², and Jonathan Popham², ¹Division of Epilepsy, Department of Neurology, ²University of Maryland School of Medicine, Baltimore, MD.

P.03 2:55 p.m.

THE EFFECT OF GLIBENCLAMIDE ON MACROPHAGE AND MICROGLIA INTERNALIZATION OF & GRAPHICS GROUP HEMOGLOBIN IN INTRACEREBRAL HEMORRHAGE. Serban Negoita*, Vaishnavi Katragadda, Orest Tsybalyuk, Seung Kyoong Woo, Vladimir Gerzanich, and J. Marc Simard, Department of Neurosurgery, University of Maryland School of Medicine, Baltimore, MD.

P.04 2:55 p.m.

STEROIDS HAVE MILD TRANSIENT EFFECTS ON HEADACHE IN PATIENTS WITH SUBARACHNOID HEMORRHAGE. Arshom Foroutan*, Matthew N. Jaffa¹, Nikhil M. Patel¹, Michael J. Armahizer², and Nicholas A. Morris¹, ¹Division of Neurocritical Care, Department of Neurology, University of Maryland School of Medicine and ²Department of Pharmacology, University of Maryland School of Pharmacy, Baltimore, MD.

P.05 2:55 p.m.

HEMORRHAGIC PROGRESSION OF CONTUSION AFTER DECOMPRESSIVE CRANIECTOMY: A RETROSPECTIVE, PROPENSITY-SCORE MATCHED STUDY. Stephen Semick*, Matthew Kole, Gary Schwartzbauer, and J. Marc Simard, Department of Neurosurgery, University of Maryland School of Medicine, Baltimore, MD.

P.06 2:55 p.m.

ABCC8 POLYMORPHISMS AND CEREBRAL EDEMA IN NON-LACUNAR STROKE. Arlinda Deng*, Huichun Xu¹, Ona Wu², Anne-Katrin Giese³, Natalia Rost³, and Steven Kittner⁴, ¹Division of Endocrinology, Diabetes and Nutrition, Department of Medicine and ⁴Division of Stroke & BAT, Department of Neurology, University of Maryland School of Medicine, Baltimore, MD and ²Department of Radiology and ³Department of Neurology, Massachusetts General Hospital, Boston, MA.

P.07 2:55 p.m.

OBESITY PHENOTYPE AMONG AFRICAN AMERICAN AND WHITE BREAST CANCER SURVIVORS: EXPLORING DIFFERENCES BY TUMOR CHARACTERISTICS AND TREATMENT TYPE. Rohan Singh*, Katherine Tkaczuk¹, Paula Rosenblatt¹, Rajrupa Ghosh², Nancy Tait³, and Cher Dallal², ¹Division of Hematology and Oncology, Department of Medicine, University of Maryland School of Medicine and ³Department of Hematology and Oncology, University of Maryland School of Nursing, Baltimore, MD and ²Department of Epidemiology and Public Health, University of Maryland, College Park, College Park, MD.

P.08 2:55 p.m.

PYRUVATE IN PROSTATE CANCER LEADS TO INCREASED ACTIVATION OF MITOCHONDRIAL ENZYMES MTOR AND AMPK. Aidan Kennedy*, Ian Qian, Dexue Fu, and Mohammad Minhaj Siddiqui, Division of Urology, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

P.09 2:55 p.m.

MRI AND ULTRASOUND CHARACTERIZATION OF PROSTATE ANATOMIC FEATURES TO OPTIMIZE TARGETED BIOPSY PROSTATE CANCER DETECTION. Alexa Van Besien*, Adrianna Lee, Linhan Xu, Michael Naslund, and Mohammad Minhaj Siddiqui, Division of Urology, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

P.10 2:55 p.m.

DIFFERENTIATING METABOLIC RESPONSE TO TREATMENTS IN ANDROGEN-SENSITIVE AND -INDEPENDENT PROSTATE CANCER TISSUE SLICES. Ian Qian*, Aidan Kennedy, Dexue Fu, and Mohammad Minhaj Siddiqui, Division of Urology, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

P.11 2:55 p.m.

INSURANCE COVERAGE, STAGE AT DIAGNOSIS, AND TIME TO TREATMENT FOLLOWING DEPENDENT COVERAGE AND MEDICAID EXPANSION FOR MEN WITH TESTICULAR CANCER. Stephen Jan*, Adam B. Weiner¹, Ketan Jain-Poster¹, Oliver S. Ko¹, Anuj S. Desai¹, and Shilajit D. Kundu², ¹Division of Urology and ²Division of Urologic Oncology, Department of Surgery, Northwestern Feinberg School of Medicine School of Medicine, Chicago, IL.

P.13 2:55 p.m. (Non-Presenting)

LIMITED ROLE FOR PREOPERATIVE RESTAGING AFTER NEOADJUVANT THERAPY IN LOCALLY ADVANCED RECTAL CANCER. Ilaria Caturegli* and Andrea Bafford, Division of General and Oncologic, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

P.14 2:55 p.m.

COMPARISON STUDY OF RADIOEMBOLIZATION THERAPY VERSUS PROTON BEAM THERAPY FOR HEPATOCELLULAR CARCINOMA. Hee Bae*, Osman Siddiqui, Svetlana Kudryasheva, Robert Miller, Adeel Kaiser, and Jason Molitoris, Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.

P.15 2:55 p.m.

REPURPOSING AND CHARACTERIZATION OF HDAC AND PROTEASOMAL INHIBITORS TO CIRCUMVENT EGFR TKI RESISTANCE IN HUMAN LUNG ADENOCARCINOMA. Lavanya Garnepudi*, Tapan Maity, and Udayan Guha, ¹Thoracic and GI Malignancies Branch, Department of National Cancer Institute, National Institutes of Health, Bethesda, MD.

P.17 2:55 p.m.

DEATH AGONIST ANTIBODY AGAINST TRAILR2/TNFRSF10B/DR5 ENHANCES BIRINAPANT ANTI-TUMOR ACTIVITY IN HPV-POSITIVE HEAD AND NECK SQUAMOUS CELL CARCINOMAS. Yi An*, Zhong Chen, and Carter Van Waes, National Institutes of Health, Bethesda, MD.

P.19 2:55 p.m.

ECHOCARDIOGRAM FINDINGS IN MORBIDLY OBESE PREGNANT WOMEN AND THE ASSOCIATION WITH OBSTETRIC OUTCOMES. Andrea Lin*, Miranda Gibbons¹, Allison Enterline¹, Bhavani Kodali², Peter Rock¹, and Megan Anders¹, ²Division of Obstetric Anesthesiology, ¹Department of Anesthesiology, University of Maryland School of Medicine, Baltimore, MD.

P.20 2:55 p.m.

A NOVEL METHOD OF CALCULATING STROKE VOLUME USING POINT-OF-CARE ECHOCARDIOGRAPHY. Ehson Aligholizadeh*, Rajan Patel, Syeda Fatima, Daniel Haase, Peter Olivieri, and Sarah Murthi, Division of Trauma, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

P.21 2:55 p.m.

PREVALENCE OF SECONDARY CAUSES AMONG THOSE DIAGNOSED WITH POSTURAL ORTHOSTATIC TACHYCARDIA SYNDROME (POTS). Michael Gould* and Geoffrey Rosenthal, Division of Pediatric Cardiology, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

P.22 2:55 p.m.

THE EFFECTS OF PROCESS CHANGES IN MANAGEMENT FOR INFANTS WITH HYPOXIC ISCHEMIC ENCEPHALOPATHY. Hannah Smith* and Colleen Driscoll, Division of Neonatology, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

P.23 2:55 p.m.

FLAWS IN AV VALVE FORMATION ASSOCIATE WITH SMALL PLACENTAS IN CHROMOSOMALLY NORMAL FETUSES. Mary Mangione*, Halis Ozdemir, Ozhan Turan, and Shifa Turan, Division of Maternal Fetal Medicine, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.

P.24 2:55 p.m.

EVALUATING PARENT ENGAGEMENT IN A WEB-BASED COMPONENT OF A PRESCHOOL OBESITY PREVENTION PROGRAM. Marie Ezran*, Maureen Black¹, Angela Trude¹, and Allison Hepworth², ¹Division of Growth and Nutrition, Department of Pediatrics, University of Maryland School of Medicine and ²University of Maryland School of Social Work, Baltimore, MD.

P.25 2:55 p.m.

THE BENEFITS OF EARLY ENROLLMENT IN HEALTHY STEPS. Rebecca Weinstein*, Sarah Edwards, and Rebecca Vivrette, Division of Child and Adolescent Psychiatry, Department of Psychiatry, University of Maryland School of Medicine, Baltimore, MD.

P.26 2:55 p.m.

IMPACT OF PERCEIVED PATIENT-PROVIDER INFORMATION SHARING ON CONTRACEPTIVE USE AMONG BALTIMORE LATINAS. Gaia Cicerchia* and Diana Carvajal, Division of Director of Reproductive Health Education, Department of Family and Community Medicine, University of Maryland School of Medicine, Baltimore, MD.

P.26A 2:55 p.m.

NEUROACTIVE STEROIDS AND PERINATAL MOOD AND ANXIETY DISORDERS: ARE WOMEN WITH PCOS AT INCREASED RISK? Elizabeth Olson*, Courtney Erdly, Jennifer Payne, Lauren Osborne, and Lindsay Standeven, Division of Women's Mood Disorders Research Center, Department of Psychiatry, Johns Hopkins University School of Medicine, Baltimore, MD.

Poster Take-down for Poster I (3:55 – 4:05 p.m.)

Poster Set-up for Poster II (4:05 – 4:25 p.m.)

Poster Presentation Session II

4:25 – 5:25 p.m.
HSRF III Atrium

P.28 4:25 p.m.

OVERDIAGNOSIS AND OVERTREATMENT OF URINARY TRACT INFECTION (UTI) IN NON-CATHETERIZED PATIENTS IN COMPARISON TO THOSE WITH AN INDWELLING CATHETER. Waqar Khan* and Surbhi Leekha, Department of Epidemiology and Public Health, University of Maryland School of Medicine, Baltimore, MD.

P.29 4:25 p.m.

TRISEGMENTAL TRIGEMINAL HERPES ZOSTER. Aloise Diedrich*, Hena Cheema¹, Briana Kync², and Mona Toeque³, ¹Department of Surgery, Hospital of the University of Pennsylvania, Philadelphia, PA, and ³Division of Infectious Disease, Department of Medicine, ²University of Maryland School of Medicine, Baltimore, MD.

P.30 4:25 p.m.

CHALLENGES IN IMPLEMENTING THE FIRST ANTIMICROBIAL RESISTANCE SURVEILLANCE PROGRAM IN DAR ES SALAAM, TANZANIA. Roger Lin*, Joan Rugemalila¹, Saniya Chaudhry², and Joy Musacerenge², Brenna Roth³, ¹Division of Infectious Disease, Department of Medicine, Muhimbili National Hospital, Dar Es Salaam, Tanzania School of Medicine, Dar Es Salaam, Tanzania and ²Department of Pharmacology, University of Maryland School of Pharmacy and ³Division of Infectious Diseases, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

P.31 4:25 p.m.

PATIENT TO HEALTHCARE WORKER TRANSMISSION OF MRSA IN THE NON-INTENSIVE CARE UNIT SETTING. Karly Lebherz*, Anthony Harris, Gita Nadimpalli, Lyndsay O'Hara, Lisa Pineles, and J Kristie Johnson, Department of Epidemiology and Public Health, University of Maryland School of Medicine, Baltimore, MD.

P.32 4:25 p.m.

INFLAMMATORY SIGNALS AND THEIR EFFECTS ON THE DEVELOPMENT OF DENDRITIC CELL SUBSETS. Huanwen Chen* and Chozha Rathinam, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

P.33 4:25 p.m.

EFFECT OF SEVERE INSULIN RESISTANCE AND HYPERINSULINEMIA ON INFLAMMATION AND FIBRINOLYSIS. Nevin Varghese*, Marissa Lightbourne¹, and Rebecca Brown², ¹Division of Pediatric and Adult Endocrine, Department of Medicine, Eunice Kennedy Shriver National Institute of Child Health and Human Development, Bethesda, MD, and ² Section on Translational Diabetes and Metabolic Syndromes, Diabetes, Endocrinology, and Obesity Branch, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, MD.

P.34 4:25 p.m.

ANTERIOR SEGMENT STRUCTURAL CHANGES FOLLOWING PEDIATRIC CATARACT SURGERY. Libby Wei*, Sachin Kalarn¹, Camilo Martinez², Moran Roni Levin¹, Osamah Saeedi¹, and Janet Alexander¹, ¹Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD, and ²Department of Ophthalmology and Visual Sciences, Children's National Hospital, Washington, DC.

P.35 4:25 p.m.

REPEATABILITY AND REPRODUCIBILITY OF MANUAL ANTERIOR SEGMENT-OPTICAL COHERENCE TOMOGRAPHY IMAGE GRADING IN KERATOCONUS. Anna Lin*, Isa Mohammed, Wuqaas Munir, Janet Alexander, and Saleha Munir, Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD.

P.36 4:25 p.m.

EVALUATING THE EFFICACY OF TARGETED PATIENT EDUCATION MATERIALS IN THE UNDERSTANDING AND PERCEIVED IMPORTANCE OF RETINOPATHY OF PREMATURITY. Haleigh Bass*, Latasha Easter¹, Jordan Tutnauer¹, Janet Alexander², Alfred Vinnett², and Moran Levin², ²Department of Ophthalmology and Visual Sciences, ¹University of Maryland School of Medicine, Baltimore, MD.

P.39 4:25 p.m.

PERCEIVED BARRIERS TO DIETARY INTAKE OF MARYLAND ELEMENTARY MIDDLE SCHOOL TEACHERS AND ASSOCIATIONS WITH DIETARY QUALITY. Yixuan Wang*, Amy Zemanick¹, Rachel Deitch¹, Erin Hager¹, and Elizabeth Parker², ¹Division of Growth and Nutrition, Department of Pediatrics and ²Department of Family and Community Medicine, University of Maryland School of Medicine, Baltimore, MD.

P.40 4:25 p.m.

PROMIS FOR CHARACTERIZING HEALTH-RELATED QUALITY OF LIFE IN ADULTS WITH AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE. Boyan Xia* and Stephen Seliger, Division of Nephrology, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

P.41 4:25 p.m.

SONIC HEDGEHOG PATHWAY INHIBITION FOR THE TREATMENT OF AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE. Mark Wieland*, Patricia Outeda Garcia, and Terry Watnick, Division of Nephrology, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

P.42 4:25 p.m.

VOLUMETRIC ANALYSIS OF CONTRAST EXTRAVASATION AND PARENCHYMAL DISRUPTION IN BLUNT HEPATIC TRAUMA TRIAGE TO ANGIOEMBOLIZATION. Tina Chen*, Jonathon Morrison¹, Ashley McLenithan², and David Dreizin³, ¹Division of Trauma surgery, ²Department of Surgery and ³Division of Trauma and emergency radiology, Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine, Baltimore, MD.

P.43 4:25 p.m.

POSTURAL ORTHOSTATIC TACHYCARDIA SYNDROME (POTS): LACK OF DIAGNOSTIC CONSISTENCY AND PREDICTIVE VALUE. Michael Gould* and Geoffrey Rosenthal, Division of Pediatric Cardiology, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

P.44 4:25 p.m.

THE EFFECTS OF UNIVERSITY OF MARYLAND BALTIMORE: HEALTH ALLIANCE (UMBHA) PARTICIPATION ON INTERPROFESSIONAL EDUCATION. Patricia Tyson*, Claire Morton*, Lori Edwards¹, Vishnu Rao², and Daniel Mansour³, ¹Department of Family and Community Health, University of Maryland School of Nursing, ²Department of Physiology, University of Maryland School of Medicine, and University of Maryland School of Pharmacy, Baltimore, MD.

P.45 4:25 p.m.

CONTEMPORARY USE OF ANTICHOLINERGIC MEDICATIONS FOR NEUROGENIC BLADDER. Aidan Kennedy*, Alana Christie¹, Rena D Malik², and Phillipe Zimmern¹, ¹University of Texas Southwestern, Dallas, TX, and ²Division of Urology, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

P.46 4:25 p.m.

ORBITAL AND EYE INJURIES FROM SELF-INFLICTED GUNSHOTS: PATTERNS AND MANAGEMENT. Carolyn Drogt*, Adekunle Elegbede, and Michael Grant, Division of Plastic and Reconstructive Surgery, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

P.47 4:25 p.m.

ANALYSIS OF MUSCLE ARCHITECTURE AND FATTY INFILTRATION AFTER TENDON TEAR. Amil Sahai*, Mohit Gilotra¹, Nicolas Gonzalez¹, Derek Jones², ¹Department of Orthopaedics, ²University of Maryland School of Medicine, Baltimore, MD.

P.48 4:25 p.m.

PREDICTORS OF POSTOPERATIVE PAIN TWO YEARS FOLLOWING ORTHOPAEDIC KNEE SURGERY. Moli Karsalia*, Tina Zhang¹, Ali Aneizi¹, Michael Foster¹, Alexander Wahl², and R. Frank Henn III³, ³Division of Sports Medicine, ¹Department of Orthopaedics, ²University of Maryland School of Medicine, Baltimore, MD.

P.49 4:25 p.m.

PREDICTORS OF TWO-YEAR PATIENT SATISFACTION FOLLOWING ORTHOPAEDIC KNEE SURGERY. Justin Kung*, Tina Zhang¹, Ali Aneizi¹, Scott Koenig², Patrick Sajak¹, and R. Frank Henn III¹, ¹Division of Sports Medicine, ²Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

P.50 4:25 p.m.

DOES THE USE OF A PARENT'S CELL PHONE REDUCE ANXIETY DURING CAST REMOVAL? Serge Tzeuton*, Danielle Hogarth¹, Nathan O'Hara², and Joshua Abzug¹, ¹Division of Pediatrics, ²Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

P.51 4:25 p.m.

PROMIS PHYSICAL FUNCTION TWO YEARS FOLLOWING ELECTIVE KNEE SURGERY. Darius Hunt*, Tina Zhang¹, Ali Aneizi¹, Scott Koenig¹, Gregory Perraut¹, and Frank Henn², ²Division of Sports Medicine, ¹Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

P.52 4:25 p.m.

FACTORS ASSOCIATED WITH TWO-YEAR POSTOPERATIVE SURVEY COMPLETION IN ORTHOPAEDIC KNEE SURGERY PATIENTS. Jagannath Kadiyala*, Tina Zhang, Ali Aneizi, and R. Frank Henn, Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

P.53 4:25 p.m.

IS MRI BEING OVER-UTILIZED FOR THE EVALUATION OF KNEE PAIN?: A LOOK AT A SINGLE VETERAN'S ADMINISTRATION FACILITY. George Morcos*, Scott Koenig, Frank Henn, and Natalie Leong, Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

P.54 4:25 p.m.

PERIOPERATIVE OPIOID USE IN ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTION PATIENTS. Leah Henry*, Gregory Perraut*, Ali Aneizi¹, Elizabeth Friedmann¹, Jack Song¹, Jonathan Packer², and R. Frank Henn², ²Division of Sports Medicine, ¹Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

Poster Takedown for Poster II (5:25 – 5:35 p.m.)