

Poster Session: Case Studies

Location: Arts Classroom

Poster Set-Up Time: 7:45-8:30 AM

Poster Presentation: 10-11 AM

Poster Take-Down Time: 11-11:15AM

Author Name(s)	Abstract/Poster Title	Poster Number
I. Maha Zafar, MD, 2. Mohankumar Doraiswami, MD	A QUEST TO UNCOVER UNDERLYING ETIOLOGY IN A PREGNANT PATIENT PRESENTING WITH STROKE LIKE SYMPTOMS	1
Maha Zafar, MD, Reshly Mary Rajan, Monali Patil, MD	Noncirrhotic hyperammonemia in a patient with Clostridium difficile infection	2
Christa Super, DO, Resident of UAMS NWA Internal Medicine Program; Muhammad Waqas, MD, Cardiology with Fellowship in Advanced Heart Failure and Transplant Medicine	Presumed Covid 19 Infection Unveiling an Advanced Lambda Light Chain Cardiac Amyloidosis	3
Daniel Chu DO, Christopher Hancock DO, Michael Meurer MD	Incidental Finding of an Extralobar Sequestration: A Case Report	4
Glister Kate Reasoner, OMS IV and Tony DeMondesert, MD	Keratoderma Blennorrhagicum	5
Michael Nguyen (High School Student), Ngoc Tran (High School Student), Nhu Nguyen (High School Student)	Combination of immune checkpoint inhibition and photodynamic therapy in melanoma: a literature review	6
Jasmine Shrestha, MD; Victoria Schrock, OMS IV; Asis Shrestha, MD; Runa Shrestha, MD	Copper Deficiency Anemia and Neutropenia due to Zinc excess	7
Karanpal Dhaliwal, MD Amita Heaser, MD	Moyamoya syndrome associated with Sickle Cell disease resulting in hemorrhagic stroke.	8
Khadijah Hamid, DO Family Medicine PGY-2	Creutzfeldt Jakob Disease (CJD)	9
Lauren James, OMS-4, Arkansas College of Osteopathic Medicine Jules Molina, OMS-3, Arkansas College of Osteopathic Medicine Samuel Bledsoe, MD, FACS, FASBMS, Arkansas Heart Hospital, Ai Encore Allison Young, PT, DPT; Alex Habegger, PT, DPT, PhD; Blake Metcalf, DCN, RD, LD, CCMS, FAND; LaVona Traywick, PhD; Terry Griffin, PhD; Dawn James, PT, DPT, DSc	Adult-Onset Nesidioblastosis: A Rare Post-Surgical Complication	10
Mayela L. Milanes Arauz, M.D. and Christopher Fortson, M.D.	Management of Type I Diabetes in An Elite Endurance Athlete	11
Muhammad G. Arnous, MD	Covid-19 Associated Pulmonary Aspergillosis (CAPA)	12
Amy Nguyen, Southside High School Student Clair Merry, Southside High School Student Erin Clardy, Southside High School Student	Heparin-Induced Thrombocytopenia Type 2 (HIT-2) in a Patient with Essential Thrombocytopenia (JAK-2 Positive/BCR-ABL Negative)	13
Zhexiang He, DO; Ebrahim Karimjee, DO; Ruba Zein, DO; Martin Moix, MD; Grey Kendrick, MD	Nicotine Fumes Effect on Skin	14
Zhexiang He, DO; Russell Kline, OMS IV; Gina McNew, MD; Martin Moix, MD.	Removal of golden tooth crown in the cecum: a case report	15
Zhexiang He, DO; Shuja Khan, MD; Arthor Slaton, MD; Owen Maat, MD.	A 55-year-old Female with Plumber-Vinson Syndrome: A Case Report	16
Zhexiang He, DO; Sweehoney Vujjini, MD; Martin Moix, MD; Owen Maat, MD.	Isolated Rectal Neurofibroma: a case report	17
Zhexiang He, DO; Sweehoney Vujjini, MD; Grey Kendrick, MD; Owen Maat, MD.	Carcinoid Tumor in the Ampulla: a Case Report	18
Pontea P. Niaki, MD, Usman S. Siddiqui, MD, Muhammad O. Khan, MBBS, Mayela A. Milanes, MD	High Grade Neuroendocrine Tumor with Duodenal Invasion: A Case Report	19
Rahul Purbey, MBBS; Jason G. Daily, MD	Stiff Person Syndrome A Rare Neurological Disorder	20
Dipa Patel; Sanskruti Ghanti; Ananya Taggarse; Jiya Shah	Hypercalcemia: A Marker of Steroid Under replacement and noncompliance in Addison disease	21
	KIDNEY STONES: An Analysis of the Influence of Potassium Citrate as Treatment	22

Poster Session: Demography

Location: Large Conference Room

Poster Set-Up Time: 7:45-8:30 AM

Poster Presentation: 10-11 AM

Poster Take-Down Time: 11-11:15AM

Author Name(s)	Abstract/Poster Title	Poster Number
Ayomide Ogundipe, BS; Chloe Nguyen, BS; Claire Armour, BS	Epidemiology of Chlamydia Trachomatis in Arkansas and Surrounding States from 2016 to 2020	23
Caroline A. Figueroa, MD; Laura Gomez, Pathak; Mohammed Imran Khan, MS; Joseph Jay Williams; Courtney R. Lyles, PhD; Adrian Aguilera, PhD	Ratings and experiences in using a mobile application to increase physical activity among university students: implications for future design.	24
Cindy Fuller PhD, Marya Ali OMS2 at ARCOM	Exploring Factors Associated with Human papillomavirus Vaccination Decision-making among Caregivers in Sebastian County (Arkansas) and Surrounding Areas	25
Cynthia Chow, MD	Transitioning of Pediatric Care to Adult Medicine	26
Jeffrey A Lowell, MD, PhD; Garvita Sharma; Keith Sultan, MD	Patients with history of VTE started on a JAK inhibitor have lower risk of subsequent VTE with concurrent AC use	27
Jillian Cochran; Paul Gambill; Logan Perez	Microbial testing of soda fountains in Fort Smith, Arkansas area for presence of Escherichia coli and other coliforms	28
Kaitlyn Bailey, OTS; Stevie Bruesch, OTS, RYT 500, TIYT; Anna Sanders, OTS; Caitlyn Welch, OTS; Jennifer Moore, PhD., OTR/L, FAOTA, CLA	Benefits of Acting Creates Therapeutic Success (ACTS): Perceptions of Participants and Care Partners	29
Lily Fran Guastella, MD Clark Trapp, MD	Smoking Cessation QI Project	30
Mayela L. Milanese Arauz, MD; Andrew Bergeron, MD; Muhammad O. Khan, MBBS	Improving Resident Handoff	31
Pontea P. Niaki, MD, Mayela L. Milanese Arauz, MD, Austin L. Ciccati, DO, Elizabeth McClain, PhD, and Christopher Fortson, MD	Rapid Response Workshop Effect on Interns' Confidence Level	32
Reagan Garber, DO	Improving Blood Pressure Control through DASH Diet Education	33
Sandy Ng, MD; Samantha Novotny, MD; Pragati Shrestha, PhD, MPH; Naomi Nguyen, BS; Sabrina Mohsin, DO; Dawei Wu, DO; Daanyaal Kumar, BS; Kunal Shah, BS; George-Abraam Tawfik, BS; Cynthia Edimo, DO; Zhi Jian Wu, MD; Garvita Sharma, BA; Daniel Jamorabo, MD; Olga Aroniadis, MD	Gender Differences in the Authorship of Gastroenterology Clinical Practice Guidelines	34
Sarah Arianna Mirkhaef, DO candidate; Lauren Harbaugh, MS, DO candidate; Gurjit Nagra, MD, PhD	Hydrocephalus: Understanding the Role of the Brain Parenchymal Tissue to Inform Future Non-Invasive Treatment Strategy	35
Tresia Rouse MSN, RN, CNE-n; Brooke Gray MSN, RN, C-EFM, Tammy Rogers, MSN, RN, CNE, CHES; Dr. Patti Conard PhD, RN	Use of Progressive Simulation to Develop Clinical Judgment in an Undergraduate Nursing Obstetrics Course	36
Zachary J. Meyer, OMS-III; Mark Stillwell MD	A Look at Syphilis Data in Kansas and the Trend toward Heterosexual Infections	37
Rajaa Kaddoura; Alina Alam; Aamina Siddiqui	Affiliation between Obesity and Diabetic Retinopathy	38
Zhexiang He, DO; Taylor Dilday, MD; Gina McNew, MD; Martin Moix, MD.	Patient Colorectal Cancer Screening Participation Rate Improvement: A QI Project	39
Jena Hinds	Assessment of Physiological Responses in Students with Learning Disabilities Using the Stress Performance Evaluation (SPE) Method	40

Poster Session: Biomedical Sciences

Location: Arts Classroom

Poster Set-Up Time: 11:30-12:30 PM

Poster Presentation: 1:30-2:30 PM

Poster Take-Down Time: 2:30-2:45 PM

Author Name(s)	Abstract/Poster Title	Poster Number
Brandy Ree PhD, Emilie Games, Septimiu Demeter, Steven Chen	ADAM family of metalloproteases	41
Ahmad Khoncarly (OMS II), Aiyan Rahman (OMS II), Dalton Black (OMS II), Caitlin Yoakum, Ph.D.	Understanding locomotion in relation to inner ear morphology in three species of primates	42
Aiyan Rahman (OMS II), Dalton Black (OMS II), Ahmad Khoncarly (OMS II), Caitlin Yoakum, Ph.D.	Inner ear morphology of the great apes and their influence on locomotion.	43
Attiah, F., Romariz, S., Sloley, S.S., Kanter, M., Harvey, A., Korthis, H., Main, B.M., Burns, M.P.	Assessing the role of neurogenesis in learning & memory following exposure to high frequency head impacts (HF-HI) and Controlled Cortical Impacts (CCI)	44
Behnam Javidfar, MS; Alice K. Min, MD, PhD; Roy Missall, MS; Donald Doanman, PhD; Madel Durens, PhD; Mara Graziani, PhD; Annika Mordelt, MS; Samuele Marro, PhD; Lotje de Witte, MD, PhD; Benjamin K. Chen, MD, PhD; Talia H. Swartz, MD, PhD; Schahram Akbarian, MD, PhD	Investigating the mechanisms of CNS HIV-1 infection using a human iPSC-derived microglia xenografted mouse model	45
Dalton Black (OMS II), Aiyan Rahman (OMS II), Ahmad Khoncarly (OMS II), Caitlin Yoakum, Ph.D.	Cochlea structural differences in primates with distinct calling patterns (Homo sapiens, Hylobates sp., and Papio sp)	46
Eric Horan (OMS II), Ashly Romero, Ph.D., Caitlin Yoakum, Ph.D.	Wear patterns by sex in Cayo Santiago Macaques	47
Eunsun Hong B.S., Mika Taylor M.S., Lina Yi B.S., Muzala Kawatu, Khandoker U. Ferdous, Mulu Tesfay Ph.D, Bolni Marius Nagalo Ph.D	Characterization of Novel Oncolytic Viruses Expressing IL-2 and PD-1 in Pancreatic Cancer Cell Lines	48
Evelyn A. Bates, MS; Zachary A. Kipp, Sally N. Pauss, Wang-Hsin Lee, Genesee Martinez, Mei Xu, PhD; Terry D. Hinds, Jr, PhD	Rosiglitazone	49
Feng Yan, Ji-Hee Ha, Ph.D, Yuyang Yan, Sam B. Ton, OMS-II, Chen Wang, Bornface Mutembe, Zaid A. Alhajeri, Aubrey F. McNiel, Andrew J. Keddissi, Qinghao Zhang, Muralidharan Jayaraman, Ph.D, Danny N. Dhanasekaran, Ph.D and Qinggong Tang, Ph.D	Optical Coherence Tomography of Tumor Spheroids Identifies Candidates for Drug Repurposing in Ovarian Cancer	50
Genesee J. Martinez, Zachary A. Kipp, Wang-Hsin Lee, Evelyn A. Bates, David E. Stec PhD, and Terry D. Hinds, Jr.PhD	Glucocorticoid resistance driven eicosanoid and monoacylglyceride synthesis leads to hepatic lipid accumulation.	51
Guiting Lin, MD, PDH; Shandilya Ramdas, DO, PHD; Hosam Hadid, OMS-2; Jan Van Vleet, OMS-2; Tom F. Lue, MD; Stathis Poulakidas, MD	Etherified Carboxymethylcellulose Matrix Regulate Tissue Growth Factors	52
Jeremy Durchman, Ph.D.	Immobilization of α -glucosidase on silica-coated magnetic particles: studies in recyclability, storage, and stability as a function of enzyme and ligand density	53
Joel Jacob (OMS II), Brittany Tran (OMS II), Caitlin Yoakum, Ph.D.	Correlation of Mental Foramen Size to Diet in Primates	54
Kyleigh Rushing (OMS II), Morgan Paskowski (OMS II), Caitlin Yoakum Ph.D.	Relations of Tooth wear and Dental Sculpting in Saimiri sciureus and Colobus guereza	55
Le Nguyen ^{1,2} ; Jiaojiao Fan ¹ ; Gabriela Ramirez ^{1,3} ; Lixin Xie; Huiyang Zhang ¹ , PhD 1. Department of Pharmacology and Toxicology, University of Arkansas for Medical Sciences, 2. Department of Biology, University of Arkansas - Fort Smith 3. Department of Biology, Henderson State University	Szeto-Schiller (SS)-31 protects against doxorubicin induced hiPSC-cardiomyocytes senescence	56
Madison Jones (OMS II), Rachel Latterich (OMS II), Ashly Romero, Ph.D., Caitlin Yoakum, Ph.D.	Differences in Palatal Shape and Depth Across Ontogeny in Rhesus Macaques	57
Madison Millikin, OMSII; Emma Speaker, OMSII; Caitlin B Yoakum, Ph.D.	Dietary behavior and its effects on dental wear of the fourth premolar in Mandrillus and Colobus.	58
Morgan Neuenschwander; Elijha Spears; Rickaela Vrooman	Expression and Purification of Bacterial Pore Forming Toxins	59
Olivia Prince (OMS II), Morgan Paskowski (OMS II), Caitlin Yoakum, Ph.D.	Wear and topographic changes in two closely related Platyrrhine species, Saimiri sciureus and Saguinus oedipus	60
Rachel Latterich; Vi Le	Establishing a recombinant expression system to study bacterial pore forming toxins	61
Sally N. Pauss, Zachary A. Kipp, Cassandra Gipson-Reichardt (PhD), and Terry D. Hinds, Jr. (PhD)	Nicotine consumption is regulated by an estrogen negative feedback loop via estrogen receptor beta by its control of olfactomedin expression	62
Samantha Gates, PTA, Lana Putman, Nayda Barbry, James Brandli, faculty advisor	Supplemental probiotics	63
Serhat Tasdelen (OMS II), Morgan Paskowski (OMS II), Caitlin Yoakum, Ph.D.	Masticatory function in primate teeth based on tooth wear and topography	64
Sneha Suresh (OMS II), Steven Chen (OMS II), Ashly Romero, Ph.D., Caitlin Yoakum, Ph.D.	Cayo Santiago Macaca mulatta Hard Palate Morphology in adults	65
Tharun Reddi (OMS II), Sneha Suresh (OMS II), Caitlin Yoakum, Ph.D.	Mandibular foramen variation in primates and its relationship to diet	66
Tooba S. Husain, M.S., Jacob C. Moore, M.S., Lila A. Huston M.S., Courtney A. Miller M.S., Ashley T. Steele M.S., Lauren A. Gonzales, Ph.D., Emma K. Handler Ph.D., Jason M. Organ Ph.D., Rachel A. Menegaz Ph.D.	Neurocranial Growth in the OIM Mouse Model of Osteogenesis Imperfecta	67
Wang-Hsin Lee, Evelyn A. Bates, M.S., Agil B. Maharramov, Genesee J. Martinez, Zachary A. Kipp, Mei Xu, Ph.D., Terry D. Hinds, Jr, Ph.D.	FK506-Binding Protein 51 (FKBP51) as a New Signaling Mechanism Regulating Obesity and Diabetes	68
Zachary A. Kipp; Genesee J. Martinez; Lucy C. Taylor; Christopher D. Anderson, MD; John E. Hall, PhD; Donald F. Stec, PhD; Andrew J. Morris, PhD; David E. Stec, PhD; Terry D. Hinds, PhD	Pegylated bilirubin nanoparticles (PEGBR) and treatment of obesity and metabolic dysfunction associated fatty liver disease (MAFLD)	69
Zhongpeng Lu, Ph.D., Kenjiroo Imatsumoto, Ph.D., Natalie Trent DO student, Jason Rodriguez DO student, Victor Carvajal DO student, Robert Remy, DO student, Allison Winchester Amado, DO student, Demi Burns, DO student, Cayla Plummer, DO student, Sravika Kayithi DO student, Kevin Reilly, DO student, Robert S. Haltiwanger, Ph.D., Karen L. Abbott, Ph.D.	Radical Fringe Promotes Ovarian Cancer Growth and Drives Notch-Mediated Expression of Proteins that Control Cancer Stem Cells and Immune Suppression	70
Ayomide Ogundipe, BS; Abdul-Nasser Adjei, MD	Case Review of Congenital Ectopic Coronary Artery Disease	71

Poster Session: Special Interest Reports

Location: Large Conference Room

Poster Set-Up Time: 11:30-12:30 PM

Poster Presentation: 1:30-2:30 PM

Poster Take-Down Time: 2:30-2:45 PM

Author Name(s)	Abstract/Poster Title	Poster Number
Aisha Khan, MS; Amina Khan, MS	Osteopathic manipulation treatment as a Treatment Modality for Physician Burnout	72
Aisha Khan, MS; Faisal R. Jahangiri, MD, CNIM, D.ABNM, FASNM, FASET	Spinal Cord Mapping with SSEPs in Cervical and Thoracic Surgeries	73
Allison Young, PT, DPT, Kaylee Byars, SPT, Dakota Martin, SPT, Brandon Oates, SPT, Demiana Farag, SPT, Adam Gunn, PT, DPT	Modified Ride-on Cars for Early Power Mobility: A Technical Report	74
Danial Nasim, OMS, Khawllah Roussi, OMS, Hosam Hadid, OMS	Benign Prostatic Hyperplasia: Treatment Utilizing Temporary Prostatic Stents	75
Darren Schoenike, MSB	Symptoms of Myocardial Infarction in Transgender and Gender Non-Conforming Patients: A Call to Action Literature Review	76
Jawad Syed, OMS-III; Nathaniel Zhu, OMS-III; Naunihal Zaveri, MS, PhD	Pharmacology Retention and Evolving Memory Palaces: How the Method of Loci can be Modified for Medical Students, Æ Pharmacology Learning	77
Kevin Chen, MD	Polyunsaturated fatty acids (PUFA) and its role in mitochondrial dysfunction and the development of insulin resistance and obesity.	78
Khawllah Roussi, OMS, Danial Nasim, OMS, Hosam Hadid, OMS	Gadolinium-Based Contrast Agent-Induced Nephrogenic Systemic Fibrosis	79
Lana Putman, Samantha Gates, Nayda Barbry, and James Brandli - Professor	Over-the-counter probiotics	80
Nayda Barbry- student (main author) Lana Putman- student Samantha Gates- student James Brandli- Professor	Delivery Methods of Probiotics: Capsules, Gummies, and Liquids and the Impact of Delivery Methods on Growth Rates	81
Nkolika Nwankwo MD, MPH. Amita Heaser MD	BENEFITS OF INTRODUCING POINT OF CARE ULTRASOUND (POCUS) TO OUR RESIDENT'S CONTINUITY CLINIC	82
Seo Hee Kim, OMS-III; Louay Nassri, MD, FAAP, FCCP	Conundrum in Bronchiolitis	83
Ganesh Kumar OMS II, Ashley Bright OMS II, Kaitlynn Walker OMS II, Klare Aziz OMS I, (Dr. McClain Advising Faculty)	Partnering with Communities to Understand SDoH and Shared Micro mobility with Ride for SMILIES	84
Grace Kemp, OMS-II; Mohammad Owais, MD; Nancy Damrah OTD, OTR/L, MSHS	An atypical presentation of primary angitis of the central nervous system	85
Kristina Dobrinic 1, Daisy A Hoagland 2, Carina Sean 3, Blair Kassim 4, Callan P O'Shea 5, Aleta Murphy 6, Marina Iskhakova 4, Michael B Fernando 6, Samuel K Powell 6, P J Michael Deans 7, Ben Javidfar 4, Cyril Peter 4, Rasmus Muller 2, Skyler A Uhl 2, Meilin Fernandez Garcia 7, Masaki Kimura 8, Kentaro Iwasawa 8, John F Crary 9, Darrell N Kotton 10, Takanori Takebe 11, Laura M Huckins 12, Benjamin R tenOver 13, Schahram Akbarian 14, Kristen J Brennand 15	Common Genetic Variation in Humans Impacts <i>In Vitro</i> Susceptibility to SARS-CoV-2 Infection	86
Nancy Damrah PhD, Mohammed Owais MD, Komal Abbas, Mohammed Rasouly	Moya Moya: A Case Report	87
Madelyn Frye, Student Doctor; Colton Grindal, Student Doctor; Rachel Latterich, Student Doctor	Extended Survival: Lung Compensation Post-Pneumonectomy	88
Samantha Halen, Amber Mawji, Paul Maher, MD	Small Bowel Adenocarcinoma: A Case Report	89