

# 2024 HEALTH SCIENCES RESEARCH DAY

## Category I: Undergraduates and Medical Students

### Basic Science

Poster Number	Title of Abstract	First Author
1	Mechanistic Investigation into the Effects of Cholesterol Metabolism on Colorectal Cancer Initiation and Progression	Arciga, Blake
2	Evaluation of Medical Student Education During the Core Rotations of a Third-Year Medical Student	Billingsley, Madison
3	Breast Cancer Survivorship and Lymphedema: Exploring Pain, Self-Pay Costs, and Physical Limitations in a Large National Dataset	Brunette, Ryan
4	Steroid Addiction or Adverse Drug Effect? An Updated Systematic Review of Topical Corticosteroid Withdrawal (TCSW)	Choi, Hunjung
5	Grading of Corneal Neovascularization using DEEPCNVDELTA Method from Slit-Lamp Captured Patients Images	Crawford, Serena
6	Short-chain fatty acids acetate and butyrate show differential pro- and anti-viral roles against the Zika virus	Deshmukh, Nikhil
7	Evaluation Of Long-Term AAV-Mediated Microdystrophin Expression In The Heart In The Canine Model Of Duchenne Muscular Dystrophy	Devine, Drake
8	Current advancements in Neuroimaging and Biomarkers of White Matter Diseases: Review of literature	Ebada, Rawan
10	Endogenous surfactant protein A promotes vascular smooth muscle cell phenotype-switch during abdominal aortic aneurysm	Fraunfelder, Mikayla
11	Missed Adjuvant Therapy after Resection of Intermediate and High-Risk Oral Cavity Cancer: A Multi-institutional Study	Gates, Carson
12	Bipotent Differentiation of Endometrial Epithelial Stem Cells	Hackworth, Mia
13	Meniscal Versus Labral Geometry: Optimal Parameters To Consider When Performing Labral Reconstruction With Fresh Meniscal Allograft	Haralson, Warren G.
15	CIRCULATING DNA ANALYSIS OF XENOGRAFT MODELS OF MELANOMA CELLS EXPOSED TO INTERMITTENT HYPOXIA	Hildebrandt, Clara
16	Effect of Time from Injury to Surgery on the Secretome of Joint Tissues After ACL Injury	Hinkamp, Maria
18	Ferroptosis and p38 MAPK Signaling are Activated in Corneal Mustard Gas Toxicity	Hofmann, Alexandria
19	Identification of Drug-Like Compounds Targeting Family A DNA Polymerases Offers New Treatment Options for Resistant Pathogens	Ice, Steven
20	Assessing the Effects of Rhabdomyolysis on Sickle Cell Disease.	Kelly, Paris
21	Cholinergic interneurons in the shell region of the nucleus accumbens regulates binge alcohol consumption.	Kempuraj, Deepak
22	EPIGENETIC PROFILE TRAJECTORIES IN FETAL GROWTH DISORDERS CORRELATED WITH ANTENATAL METRICS	Khoukaz, Joseph
23	Zika Virus utilizes AMPK and host cell lipids to promote its replication in human trabecular meshwork cells	Kim, Jieon
24	Effect Of Intraoperative Vagal Nerve Stimulation On Functional Recovery In A Rat Model Of Iatrogenic RLN Transection And Repair	Kondapaneni, Rishi
26	Impact of Playing Surface on Risk for Patellar and Quadriceps Tears in the National Football League	Lehenbauer, Corder
28	THE ROLE OF EXOSOMES DERIVED FROM MÜLLER CELLS IN THE RETINA	Mays, Logan

# 2024 HEALTH SCIENCES RESEARCH DAY

## Category I: Undergraduates and Medical Students

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30	Assessing Geographic Provider Access by Therapist Type for Children with Autism in Missouri	McMahon, Claire
31	Fabrication of Chitosan Microgels Using Emulsification Techniques for Targeted Osteoporosis Treatment	McTigue, Danielle
32	Assessment And Characterization Of Perivascular Adipose Tissue In Mice Infected With Clostridium Innocuum	Meindl, Eric
33	THE ROLE OF HRPC-DERIVED EXOSOMES ON DIABETIC REINTOPATHY PATHOGENESIS THROUGH PERMEABILITY OF HREC	Nandeesh, Vaibav
34	Impact of Hamstring Injuries on Fantasy Football Performance in NFL Offensive Skill Players	Pierre, Jeffton
35	Retrospective Analysis of Gun Violence Injuries at University of Missouri Hospital (2003-2023): Impact of Relaxed Gun Laws	Pierre, Jeffton
36	Role of NF-κB Signaling in Establishing Protective Immunity in the Lung	Pothuri, Divya
38	Comparison of Biologic Hip Preservation versus Total Hip Arthroplasty in a Preclinical Canine Model	Prenger, Brent
39	Comparison of Graft Types for Acetabular Labrum Reconstruction in a Preclinical Canine Model	Prenger, Brent
41	Identification of Potential Inhibitors Targeting DNA Replication of Mycobacterium Tuberculosis	Rachagani, Satvik
42	Blockade Of A2a Receptor In The Accumbal Core Region Attenuated Alcohol-Induced Sleep in C57BL/6J Mice.	Riley, Abigail
43	Corneal Fibrosis Reversal via Myofibroblast De-Differentiation by Sodium Butyrate in vitro	Ruterschmidt, Eva
44	Characteristics of Spitz Nevi	Salisbury, Shelby
45	Impact of Tongue Exercise on Vocalization In A Rat Model Of Hypoglossal (XII) Motor Neuron Loss	Smith, Lauren
46	Rebalancing Neuroendocrine Regulation of Hemodynamics for Cardiovascular Recovery After Spinal Cord Injury	Srinivasan, Gautham
47	Effects Of Elderberries And Soybean Polyphenols On Responses Of Meniscal Cells To Inflammatory Stimulation	Stefani, Lara
48	Mustard Gas Exposure Causes Aberrant Corneal Extracellular Matrix Via Phosphoinositide 3-Kinase	Suleiman, Laila
49	MOPS-N Preservation Improves Functional Recovery in Rodents with PEG-Fused Sciatic Nerve Allografts	Sullentrup, Anna
50	Canonical and Noncanonical Samd3 Signaling Impacting Corneal Wound Healing and Stromal Extracellular Matrix Modulation Using Smad3 Null Mice	Varghese, Thomas
51	INFLUENZA VIRUS INDUCES DOWNREGULATION OF TYPE I INTERFERON RECEPTOR TO EVADE HOST DEFENSES BY TRIGGERING ER STRESS RESPONSE AND AUTOPHAGY	Williams, Destine
52	miR-216a/217 Suppresses Pancreatic Cancer Growth and Metastasis via PTP4A1 Targeting	Yerrapu, Aditi
53	MECKEL'S DIVERTICULUM IN A 7-YEAR-OLD BOY AFTER TWO NEGATIVE MECKEL SCANS	Yucebas, Kerem
54	TRANSLATIONAL REGULATION IN OVARIAN RESERVE ACTIVATION	Yucebas, Kerem
55	Progesterone Receptor Cooperates with HDAC3 to Establish Endometrial Receptivity.	Yun, Sohyeon

# 2024 HEALTH SCIENCES RESEARCH DAY

## Category I: Undergraduates and Medical Students

### Clinical Science

Poster Number	Title of Abstract	First Author
56	Exploring the Link Between COVID-19 and Migraine Onset in Ophthalmology Patients: A Retrospective Study	Abdeljabbar, Nadine
57	New Onset Giant Cell Arteritis In Confirmed COVID-19 Infections: A Retrospective Study	Abdeljabbar, Nadine
58	Evaluating the Impact of Viscoelastic in Preventing Early Postoperative Hypotony: A Comparative Analysis of XEN Gel Stent Ab Externo vs. Ab Interno with Open Conjunctiva	Abdulnabi, Sami
59	Refractory Angle Closure Treatment in Adult with History of Retinopathy of Prematurity: A Case Report	Abdulnabi, Sami
60	Postnatal Outcomes of Monochorionic Diamniotic Twins Versus Dichorionic Diamniotic Twins Admitted to the NICU	Adler, Loren
61	Various Pain Control Interventions During IUD Insertion: A Systematic Review	Adler, Loren
62	Dosing Patterns and Botulinum Toxin Utilization In Pediatric Spasticity Patients Aged 2-5	Ahmed, Safa
63	Ventilation And Other Factors Contributing To Tracheostomy Outcomes In Neonates With Grade 3 Bronchopulmonary Dysplasia	Aleti, Ganasri
64	Dry Eye Syndrome and COVID-19 Infection: A Retrospective Analysis	Al-kharabsheh, Yazan
65	Ophthalmic Cranial Nerve Palsies and COVID-19 Infection: A Retrospective Analysis	Al-kharabsheh, Yazan
66	Contrast Sensitivity Performance of Tecnis 1, Eyhance, Acrysof, Bausch and Lomb, and Clareon platforms	Alt, Jared
67	Assessing Racial Consciousness In Anatomy Educators	Anand, Shreya
68	The Effects of Co-Culture of the Human Anterior Cruciate Ligament, Synovium, and the Tendon Autografts after ACL Injury	Annin, Luke
69	Yttrium-90 Radioembolization of Unresectable Hepatocellular Carcinoma: A Single Center Experience	Aqrabawi, Mohanned
70	A Comparison of Flexor Tendon Injury and Recovery in Patients With and Without Obesity	Atkinson, Angela
71	The Role of Social Determinants of Health in the Recovery Trajectory for Patients with Limbs at Risk	Atkinson, Angela
72	Are Protein Biomarkers from Tissues Recovered from Anterior Cruciate Ligament Reconstruction Surgery Related to Patient Reported Outcome Measures?	Atteberry, Kelsey
73	The Influence of Postnatal Steroid Exposure on Need for Tracheostomy Placement in Infants with Grade 3 Bronchopulmonary Dysplasia	Baer, Emma
74	Moving Forward: Quetiapine in the Treatment of Hyperactive Intensive Care Unit Delirium in Mechanically-Ventilated, Critically-Ill Surgery & Trauma Patients with Traumatic Brain Injury	Bale, Samantha
75	Robotic-Assisted Repair of Spigelian Hernia	Bale, Samantha
76	Comparison of Cervical and Lumbar Annulus Fibrosus Secretome Related to Radiographic Grade of Intervertebral Disc Degeneration	Ball, Jay
77	Comparison of Management and Outcomes of Heart Failure Hospitalizations by Insurance Type	Benyoucef, Wacim
78	Inflammatory and Degradative Proteins in Symptomatic Intervertebral Discs are Associated with Increased Pfirrmann Grades	Biggs, Brandon

# 2024 HEALTH SCIENCES RESEARCH DAY

## Category I: Undergraduates and Medical Students

### Clinical Science

Poster Number	Title of Abstract	First Author
79	Impact of Postoperative Glaucoma Medication Strategies on Long-Term Intraocular Pressure Control Following Shunt Surgery: A Retrospective Analysis	Blanton, William Brady
80	PRE-OP RESILIENCE SCORES ARE NOT STRONG PREDICTORS FOR POST-ACL RECONSTRUCTION SUCCESS, FUNCTION, OR PAIN	Bochenski, Ella
81	Associations Between Temperature and Cardiopulmonary Visits At The University Of Missouri Health Care Emergency Department	Bollam, Neha
82	The Effect of Lifestyle Intervention on Dietary Fat Spillover in Metabolic Dysfunction-Associated Steatotic Liver Disease (MASLD)	Boone, Kendall
83	The Foundation of Building a Department Wellness Program in an Academic Health Care Organization (AHCO)	Borgstadt, Alexis
84	MentorMatch: A Mobile Platform Connecting Students with Research Opportunities	Bosworth, K. Taylor
85	Reducing Electrolyte Monitoring in the NICU: Safely Optimizing Testing, Cost-Effectiveness, Iatrogenic Anemia and Reducing Pain: A Retrospective Cohort Study in the NICU	Boyle, MaCee
86	Outcomes in Post-Operative Spinal Surgical Site infections: A Retrospective Cohort Study	Brooks, Hunter
88	Magnetic Resonance Imaging in the Detection and Characterization of Proximal Fibula Injuries Associated with Concurrent Tibial Plateau Fractures	Brown, Sam
87	High Rate of Occult Femoral Condyle Injuries in Association with Tibial Plateau Fractures: A Magnetic Resonance Imaging Study	Brown, Samuel
89	Fingerprintlessness Associated With Inclusion Body Myositis	Bruce, Janie
90	Skin Metastasis to Surgical Wound as First Presenting Sign of Stage IV Lung Adenocarcinoma	Bruce, Janie
91	Mutual Growth In Mentorship: Evaluating The Benefits For Mentees And Mentors At The University Of Missouri School Of Medicine American Medical Women's Association Mentorship Program	Brune, Maddie
92	Risk Of Hamstring Injuries in National Football League Players By Short, Normal, Or Long Rest Weeks	Bryson, Alaina
93	Differences in Neurophysiological Markers Between Primary Progressive Aphasia Variants	Burnett, Leighton
94	Incidence Of Referral and Treatment Following Hip Fracture in Elderly Patients	Campbell, Brooklyn
95	Long-term Outcomes of Malone Anterograde Continence Enema and Cecostomy in Rural Missouri Patients	Campbell, Brooklyn
97	What Factors Influence Limb Preservation Outcomes Following Treatment of Open Fractures Requiring Soft Tissue Coverage Procedures?	Cheema, Haider
96	Recurrent Stroke: An Analysis of Acute Clinical and Demographic Risk Factors	Cheema, Nawal
98	Optimizing Short-term Post-operative Patient Outcomes In Glaucoma Shunt Procedures: A Retrospective Analysis Of Tube Fenestration Techniques	Cho, Daniel
99	Characteristics Influencing Maternal Ratings of Typicality and Distress of their Infants' Cries	Chrisman, Malori
100	Relationship Between Cholesterol Levels and Antipsychotic Use in Adult ASD	Chrisman, Malori
101	Effectiveness of Preclinical Education in Step 1 Preparation: A Survey Study	Christian, Jr., Terrell

# 2024 HEALTH SCIENCES RESEARCH DAY

## Category I: Undergraduates and Medical Students

### Clinical Science

Poster Number	Title of Abstract	First Author
102	Pre-Injury Methamphetamine Use Is Associated with Increased Length of Hospital Stay in Rural Orthopaedic Trauma Patients	Christian, Jr., Terrell
103	Spinal Ependymoma Discovered Post-Partum Following Neuraxial Anesthesia	Cler, Liam
104	Traumatic Brain Injury Post-Acute Care In The Era Of Rural Hospital Closures	Coolman, Katherine
105	Effect of Patient Age and BMI on the Metabolic Responses of Osteoarthritic Cartilage to Load	D'Amour, Owen
106	Pediatric Healthcare Community Needs Assessment in Eastern India	Dash, Shreya
107	Elucidating Risk Factors for Craniosynostosis	Demirchian, Maya
108	Retrospective Study of Initial Symptom Presentation of Epithelial Ovarian Cancer	Demirchian, Maya
109	Puff of Smoke: A Rare Case of Moyamoya Disease	Devineni, Jay
110	Toddler Refusing to Walk: A Case of Kingella kingae Spondylodiscitis	Devineni, Jay
111	Limited Clinic Follow-Up In Orthopaedic Trauma: Are 6- and 12-Month Visits Necessary for Patient Reported Outcome Measures?	Dimitroff, James
112	Intrinsic Muscle Factors in Older Adults	Dorsey, Grace
9	Investigating The Relationship Between A Confirmed COVID-19 infection and New Onset Idiopathic Intracerebral Hypertension: A retrospective analysis	Ebada, Rawan
113	Health Status of Cherokee Adults and Risk Factors for Cardiovascular Disease	Eichman, Destri
114	Understanding Muscular And Neural Predictors Of Functional Performance In Older Adults	Erganian, Chase
115	Reliability Of The Multicenter Orthopaedic Outcome Network Calculator For Predicting Anterior Cruciate Ligament Re-Tear And Contralateral Tear Risk In Clinical Patients	Erganian, Chase
116	Investigating the Malignant Transformation of Mature Cystic Teratomas Through Case Series.	Ernst, Rebecka
117	Systemic Amyloidosis Presenting as Unilateral Breast Edema	Ernst, Rebecka
118	Electrolyte Estimations In the NICU: Safely Optimizing Testing, Cost-Effectiveness And Reducing Pain: A Retrospective Cohort Study In The NICU	Esam, Sahla
119	Real-Time CMR in Atrial Fibrillation	Espinosa, Andrea
120	Investigating The Correlation Between Confirmed COVID-19 Diagnosis and New Onset of Optic Neuritis and Multiple Sclerosis: A Retrospective Study	Farah, Ayan
121	The Influence of Occult Nodal Regional Metastasis on Patients with Cutaneous Squamous Cell Carcinoma in Recurrence and Oncologic Outcomes Compared to the Absence of Occult Nodal Metastasis	Farah, Ayan
122	Qualitative Survey: How Would Physical Therapists Structure A Physician Therapy Prescription?	Fehr, Adam
123	What Communication Do Physicians Want From The Physical Therapists To Which They Refer?	Fehr, Adam
124	A Comparison of Flexor Tendon Injury and Recovery in Insured Versus Uninsured Patients	Fuentes, Jacqueline
125	Epidemiology of Flexor Tendon Injuries in Mid-Missouri	Fuentes, Jacqueline

# 2024 HEALTH SCIENCES RESEARCH DAY

## Category I: Undergraduates and Medical Students

### Clinical Science

Poster Number	Title of Abstract	First Author
126	Packed Red Cell Transfusions in the NICU	Gaddipati, Shreya
127	Congenital Cholesteatoma Of The Mastoid In Adult	Gamoneda, Diego
128	Tranexamic Acid For Treatment of Angiotensin-Converting Enzyme Inhibitor-Induced Angioedema in the Emergency Department	Gamoneda, Diego
129	FACTORS THAT INFLUENCE THE QUALITY OF LETTERS OF RECOMMENDATION FOR ORTHOPAEDIC TRAUMA FELLOWSHIP APPLICANTS: A SURVEY OF FELLOWSHIP DIRECTORS	Garlapaty, Ashwin
130	Recent Trends in Quadriceps Tendon and Patellar Tendon Injuries in the National Football League	Garlapaty, Ashwin
131	Dapsone Induced Methemoglobinemia Treated with High Dose Vitamin C: A Case Report	Genovese, Sabrina
132	Can County Health Rankings Help Predict Epithelial Ovarian Cancer Outcomes?	Goldenberg, Carlye
133	A Rare Intracortical Schwannoma of the Distal Tibia: A Case Report	Groves, Savannah
134	A Retrospective Comparison of XEN Ab Interno Versus XEN Ab Externo Procedures In The Evaluation Of Post-Operative Outcomes At Six And Twelve Months	Hajji, Samer
135	Facial Spasms and COVID-19 Infection: A Retrospective Analysis	Hajji, Samer
136	Does Getting Covid-19 Put You at Risk for Developing Bell's Palsy?	Hamed, Amal
137	Surgical Outcomes of ClearPath 250 mm <sup>2</sup> vs. Baerveldt 250 mm <sup>2</sup> Glaucoma Drainage Device: A Retrospective Comparative Study	Hamed, Amal
138	Identifying Demographic and Diagnostic Characteristics of High-Risk Patients in Emergency Departments	Hancock, Zoe
14	Risk Of Quadriceps Tendon And Patella Tendon Tears In National Football League Players By Short, Normal, Or Long Rest Weeks	Haralson, Warren
139	DO PATIENTS FROM DISADVANTAGED NEIGHBORHOODS EXPERIENCE LOWER RETURN TO PRACTICE AND RETURN TO SPORT RATES FOLLOWING ANTERIOR CRUICATE LIGAMENT RECONSTRUCTION?	Hark, Gillian
140	Relationship Between Patient Reported Outcomes Scores and the Protein Content of Infrapatellar Fat Pad Tissue Recovered from Osteoarthritic Knees	Harris, Kathleen
141	Relationship Between Patient Reported Outcomes Scores and the Protein Content of Synovial Tissue Recovered from Osteoarthritic Knees	Harris, Kathleen
142	Demographic and Nerve Distribution Patterns of Nerve-related Groin Pain in Missouri	Henderson, William
143	A Cohort Study Highlighting the Need for Pediatric Dermatologic Care and the Impact of Telemedicine in Missouri	Henry, Mollie
144	Darier Disease: A Case Report Highlighting the Complexities of Diagnosing Dermatologic Concerns in Primary Care	Henry, Mollie
145	Influence of Caregivers on Adolescent Acceptance and Engagement of an MHealth App to Facilitate Behavior Change	Henry, Nicole
17	Can Pre-Visit Education on the Purpose of Bone Health Screenings Improve Visit Adherence?	Hinkamp, Maria
146	Factors Associated With Lost To Follow-Up After Anterior Cruciate Ligament Reconstruction	Hood, Dylan

# 2024 HEALTH SCIENCES RESEARCH DAY

## Category I: Undergraduates and Medical Students

### Clinical Science

Poster Number	Title of Abstract	First Author
147	Disparities Among Homeless Patients Undergoing Open Lower Extremity Bypass Procedures	Huang, Yijin
148	Disparities Among Low Income Patients Undergoing Open Lower Extremity Bypass Procedures	Huang, Yijin
149	Comparative Analysis of Fixation Accuracy Between Tibial Intermedullary Nailing Approaches Using New 3D Reconstruction Software	Hushev, Vladislav
150	Pulmonary Function After Vertebral Body Tethering Surgery	Hushev, Vladislav
151	Sleep Disturbances and Comorbidities in Patients with Rheumatoid Arthritis	Isaacs, Ariel
152	Evidence of Occlusive Myocardial Infarction in Patients with a Primary Diagnosis of Non ST-elevation Myocardial Infarction	Israel, John
153	Drug-Induced Lupus In A Pediatric Patient With Hypoplastic Left Heart Syndrome: A Case Report	Jackson, Travis
154	Segmental Darier Disease: A Case Study Of Diagnosis And Management Through The ECHO Program	Jackson, Travis
155	A Single Surgeon Experience of Robotic-Assisted Inferior Vena Cava Thrombectomy at the University of Missouri	Jacobsen, Aidan
158	Frequency and Delivery Modality of Current Cannabis Users, Comparing SGM and Cis-gender Heterosexuals	Jones, Eve
156	CHARACTERIZATION OF BICEPS TENDON AND TRICEPS TENDON INJURIES IN NATIONAL FOOTBALL LEAGUE PLAYERS FROM 2009-2022	Jones, Molly
157	Viability and Expression of Chondrocytes Harvested During Arthroscopic Treatment of Femoroacetabular Impingement	Jones, Molly
159	Enhanced Recovery After Complex Spinal Surgery – A Retrospective Review	Karahodzic, Amar
160	Low Average Deprivation Index Scores are Associated with Increased Survivorship following Proximal Femur Fractures in Geriatric Patients	Kasten, Drew
161	Effect of Osteoarthritic Cartilage Biomechanical and Structural Properties on Tissue Protein Content	Keeton, Gabriel
162	Exploring Medication Adherence Among Uninsured and Underserved Residents in Central Missouri: A Study at MedZou	Kercher, Clare
163	ADAPTIVE RADIATION THERAPY IN PROSTATE CANCER PATIENTS	Khoukaz, Lea
164	DISSEMINATED BLASTOMYCOSIS IN MISSOURI WITH MULTI-ORGAN INVOLVEMENT	Khoukaz, Lea
165	Dysregulation of Estrogen Receptor Alpha in the Endometrium from Infertile Women with Endometriosis.	Kim, Soo Lim
166	DETERMINING THE OPTIMAL CESSATION TIME OF ENTERAL NUTRITION IN PATIENTS PRIOR TO UNDERGOING TRACHEOSTOMY AND/OR PEG PLACEMENT	Kingman, Cara
167	Association Between Achilles Tendon Tears and Anterior Cruciate Ligament Tears in National Football League and National Basketball Association Players	Kluge, Morgan
168	INVESTIGATING PAIN OUTCOMES OF ROBOT-ASSISTED AND LAPAROSCOPIC ROUX-EN-Y BYPASSES	Ko, Sooah

# 2024 HEALTH SCIENCES RESEARCH DAY

## Category I: Undergraduates and Medical Students

### Clinical Science

Poster Number	Title of Abstract	First Author
169	UNDERSTANDING THE ASSOCIATIONS BETWEEN SOMATIC MUTATIONS AND OUTCOMES OF OVARIAN CANCER	Ko, Sooah
25	Assessing Factors In Time-To-Diagnosis Of Head-And-Neck Lymphoma Presentations	Kondapaneni, Rishi
170	THE IMPACT OF BMI, SMOKING HISTORY, CANCER STAGE, PARITY, AND AGE AT DIAGNOSIS ON OVARIAN CANCER SURVIVAL OUTCOMES	Krell, Kavita
171	CAN DRUGS PREVENT PICS? A RETROSPECTIVE STUDY OF POST ICU SYNDROME IN TSICU PATIENTS DISCHARGED TO INPATIENT REHABILITATION	Kukulka, Klaudia
173	Autonomic Function After Subacute Spinal Cord Injury In Real-World Settings	Labaschin, Alana
174	A Comparison of Work Related and Non-Work Related Flexor Tendon Injuries	LaFlamme, Ashlynn
175	Outcomes and Complications of Flexor Tendon Injuries in Adults and Children	LaFlamme, Ashlynn
176	Utilizing 7T MRI For The Detection And Characterization Of Brain Lesions In Epilepsy Patients	Landwehr, Farrell
177	A Rare Contributor to Cardiac Causes of Maternal Mortality	LaValle, Taylor
178	Impact of Stimulant Shortage on Children & Adolescents With ADHD	Lease, Zachary
27	Biomechanical Properties of Osteoarthritic Cartilage and its Effects on the Tissue's Metabolic Response to Load	Lehenbauer, Corder
179	Can Disc Cell Proteomes Correlate With Surgical Outcomes?	Lewis, Kaylee
180	EFFECT OF CONCURRENT MENISCAL AND CHONDRAL INJURY ON THE SECRETOME OF JOINT TISSUES AFTER ANTERIOR CRUCIATE	Lin, Zhi
181	An Exceptionally Rare Case of Primary Yolk Sac Tumor Arising in the Liver: Case Report	Lupu, Patricia
182	Rocky Mountain Spotted Fever, A Leukemia Mimic on Peripheral Blood Smear	Lupu, Patricia
183	THE ROLE OF NEGATIVE AFFECT IN THE ASSOCIATION BETWEEN RIGHT INFERIOR FRONTAL GYRUS MORPHOMETRY AND INHIBITORY CONTROL IN INDIVIDUALS WITH NICOTINE DEPENDENCE	Malaker, Pias
185	The Use Of Digital Health And Wearable Technologies For The Diagnosis And Management Of Suicidality In Adolescents And Young Adults: A Scoping Review	Malave, Gabriella
186	Motor cortex MR spectroscopy detects specific metabolic profiles in various nervous system pathologies	Marker, Anne
187	Age-Associated Changes in $\beta$ -Adrenergic Mediated Vasodilation and Impact of Body Fat.	Martin, Samuel
188	Effect of Anatomic Location on the Metabolic Responses of Osteoarthritic Cartilage to Compressive Load	Marx, Luke
29	Motor Vehicle Versus Pedestrian Crashes: A Ten-Year Retrospective Review to Explore Incidence and Risk Factors	Mays, Logan
189	Sequential Direct Bilirubin Values and Yield of Evaluation in Pre-Term Infants	McCay, Abigail
190	Advance Care Planning: Comparison Of Views Of People Living With Dementia And Their Caregivers	McGough, Katherine
191	A Rare Case of Photodistributed Toxic Epidermal Necrolysis Following Ultraviolet Radiation Exposure	McKelvy, Jane



# 2024 HEALTH SCIENCES RESEARCH DAY

## Category I: Undergraduates and Medical Students

### Clinical Science

Poster Number	Title of Abstract	First Author
192	Tigers Connect: Bridging the Gap of Social Determinants of Health for Families	Mobl, Sara
193	Methamphetamine Use and Craniofacial Fractures: A Case Series	Moheet, Shaan
194	THE INTERPLAY BETWEEN ANDROGENS, INSULIN, AND ADIPOSE TISSUE METABOLISM	Montgomery, Katelynn
195	Small Bowel Obstruction After Starting Tirzepatide	Morgenthaler, Leandra
196	GIVING A BOOST TO DISADVANTAGED PREMEDS: UTILITY OF A STUDENT-RUN MEDICAL SCHOOL APPLICATION ADVISING SERVICE AT MIZZOU MED	Mori, Anna
197	Motor Cortex GABA-Mediated Tonic Inhibition and Hand Impairment in Subacute Stroke	Moshe, Shimelis
198	High Protein Diet and Atherosclerosis	Mubeen, Burhan
199	The Role Of ChatGPT In The Identification Of Operative CPT Codes	Mudd, Jaycee
200	Lice Infestation & Severe Anemia in Pediatric Populations	Nichols, Kaylie
201	A Case of Traumatic Spigelian Hernia in a Pediatric Patient	Nischwitz, Erin
202	Robotic Redo Paraesophageal Hernia Repair Following a Nissen Fundoplication	Nischwitz, Erin
203	Botulinum Toxin for Treatment of Post-Menopausal Craniofacial Hyperhidrosis	Patrick, Bailey
204	Demographics of Patients Presented at ECHO Autism Learning Community	Patrick, Bailey
205	Operative Versus Nonoperative Management of Bariatric Patients with Postoperative Bleeding: Case-Control Study of the MBSAQIP Database	Perez, Samuel
206	Physical Therapy Management Of Adults With Spinal Muscular Atrophy: An ICF-Guided Approach to Assessment In Clinical Practice	Pierce, Jayden
207	Physical Therapy Management Of Adults With Spinal Muscular Atrophy: Evidence-Based Treatment Strategies For An Understudied Population	Pierce, Jayden
208	DIAGNOSTIC AND THERAPEUTIC INSIGHTS INTO ALPHA-GAL SYNDROME	Pirrone, Sean
37	A Case Report of TNF-Alpha-Inhibitor Induced Pustular Psoriasis	Pothuri, Divya
348	Examination of Factors Associated with Tuberculosis Incidence in the Missouri from 2020 until 2024	Prasad, Sarada
209	Violence Against Healthcare Workers: State Legislative Trends	Raatz, Natalie
210	Rare Presentation Of Mycobacterium Fortuitum Pulmonary Infection: A Case Report	Reese, Kristen
213	EFFECT OF PATIENT SMOKING STATUS ON THE SECRETOME OF INTERVERTEBRAL DISC TISSUES	Renfro, Zane
214	Effects Of Cannabis Use On Post-Operative Pain Control In A Rural Community	Rice, Ronin
216	Demographic And Injury Patterns Of Craniofacial Fractures In The State Of Missouri	Rose, Britlyn
217	Racial Disparities in Bystander CPR During Public Cardiac Arrests in Missouri: Insights from the Cardiac Arrest Registry to Enhance Survival (CARES)	Sabatino-Steele, Joshua

# 2024 HEALTH SCIENCES RESEARCH DAY

## Category I: Undergraduates and Medical Students

### Clinical Science

Poster Number	Title of Abstract	First Author
218	Infantile Digital Fibroma in Independently Walking Toddler Warranting Surgical Excision: Case Report.	Salathe, Victoria
219	Post-TAVR Ascending Aortic Dissection from Valve Cusp Calcification: A Rare Complication of Aortic Valve Replacement	Schaeffer, Samuel
220	Outcomes And Risk Factors For Complications, Readmissions, And Reoperations Following Below-Knee Amputation: A Comprehensive Analysis Beyond The 30-Day Window	Scheiderer, Joshua
221	Risk Of Anterior Cruciate Ligament Tears In National Football League Players By Short, Normal, Or Long Rest Weeks	Scheiderer, Joshua
222	Assessing Large Language Models for Clinical Coding in Hand Surgery: Impact of Note Authorship, Prompt Design, and Diagnosis/Procedure Type	Schroeder, Avery
223	From Limited Use to Standard Practice: Droperidol Administration by EMS (2018-2023)	Schuler, Rachel
224	Patient Reported Outcomes Following Arthroscopic Hip Labral Reconstruction via Fresh Meniscal Allograft versus Tibialis Anterior Allograft: A Pilot Study	Serour, Peter
225	Paving the Way for Oncology Clinical Trials Navigation	Sexton, Mathew
226	Comparative Visual Outcomes of Intraocular Lens Models for Distance, Intermediate, and Near Acuity Post-Cataract Surgery	Shawn, Donia
227	Facial Feminization Surgery: A Google Analytics Study	Shock, Erika
228	Perioperative Bleeding Risk After Blepharoplasty in Patients on Antithrombotic Medications	Shock, Erika
229	Understanding Human Leukocyte Antigens (HLA) in Vascularized Composite Allotransplantation (VCA)	Shurafa, Faisal
230	Comparison of Prehospital Needle and Finger Thoracostomy	Sibert, Kendra
231	New Onset Non-arteritic Ischemic Optic Neuropathy In Confirmed COVID-19 infections: A Retrospective Study	Sibert, Kendra
232	Medical Student Confidence in Caring for and Understanding Issues Facing LGBTQ+ Patients Increases with Patient-Centered Series	Sierra, Connor
234	Molecular Signatures of DNA Isolated From Maternal Urine In The First Gestational Trimester As A Predictor of Fetal Gestational Size At Birth	Smith, Grace
233	A Case of Acute Pancreatitis in the Setting of Echinococcal Cystic Liver Disease	Smith, Parker
235	20-year Survivorship Managing Breast Cancer-related Lymphedema: How Are We Doing?	Smola, Sophia
236	Impact of Intraoperative Cryoanalgesia on Acute Inpatient Postoperative Pain Management following Thoracic Surgery for Anatomic Lung Resection	Sniatkewicz, David
237	Intraoperative Cryoanalgesia to Prevent Chronic Pain and Opioid Use following Thoracic Surgery for Anatomic Lung Resection	Sniatkewicz, David
238	MEDICAL CANNABIS USE AMONG PRIDE FESTIVAL ATTENDEES AGED 40 YEARS AND YOUNGER	Spence, Kayla
239	Broadening Access to Dermatology: The Role of Teledermatology in Primary Care- A Systematic Literature Review	Spratt, Sadie
240	Facial Fracture Fixation: Before Or After 72 Hours?	St. Julien, Zuri

# 2024 HEALTH SCIENCES RESEARCH DAY

## Category I: Undergraduates and Medical Students

### Clinical Science

Poster Number	Title of Abstract	First Author
241	Effect of Osteoarthritic Infrapatellar Fat Pad on Cartilage tissue using an ex vivo Co-Culture model	Stevens, Tyler
242	Long-Term Outcomes of Pediatric Laparoscopic Inguinal Hernia Repair in a Mixed Rural Population	Timmons, Hunter
243	Comparison of Cervical and Lumbar Nucleus Pulposus Secretome Related to Radiographic Grade of Intervertebral Disc Degeneration	Touma, Tony
244	PRESENTATION AND TREATMENT OF PHOTODISTRIBUTED HYPERPIGMENTATION FOLLOWING KRATOM CONSUMPTION	Valle, Kostandin
245	Evaluation of Corticocortical Evoked Potentials as Markers for Seizure Onset Zone	Velagapudi, Kousalya
246	Is Cognitive Behavioral Therapy for Insomnia Reducing Consequences of "Alcohol Use" or Sleep?	Velcheck, Chloe
247	Effects of Whole-body Electrical Muscle Stimulation Exercise on Adults with Myasthenia Gravis: A Preliminary Analysis	Vorkink, Dallin
249	Contrasting Department Chair Leadership Styles Concerning Clinical Faculty Burnout And Well-Being In An Academic Health Care System	Walker, Jasmine
250	Once Versus Twice Daily Iron Supplementation In Pregnancy	Walker, Jasmine
251	Transformed Clinician Experience From A Produce Prescription Program	Walker, Nicole
252	Does Preoperative CT Scan Increase Rate of Identification of Correctable Hip Deformities?	Walz, Jacob
253	Disparities in Nutrition Security Among Missouri PRIDE Festival Attendees	Wang, Yuhao
254	Nurse Stakeholders' Intention To Use Generative Artificial Intelligence Tools And Perceptions Of Information Quality	Westendorf, Reagan
255	Machine Learning-Driven Prediction of Brain Age for Alzheimer's Risk: APOE4 Genotype and Gender Effects	Woods, Carter
256	Accuracy of Various IOL Equations in Female Patients with Short Axial Lengths	Zelle, Leanna

# 2024 HEALTH SCIENCES RESEARCH DAY

## Category II: Graduate Students, Residents, and Post-Doctoral Fellows Basic Science

Poster Number	Title of Abstract	First Author
257	Histone Deacetylase Inhibitor, Trichostatin A (TSA) Enhances Triple Negative Breast Cancer Oncolytic Virotherapy	Ahamed, Fahim
258	Targeting Endoplasmic Reticulum Stress to Sensitize Pancreatic Cancer to Microbial Immunotherapy	Alexandre, Lea
259	A novel agonist of CD137 pathway invokes an immune surveillance mechanism that protects against various cancer types without engaging trained immunity	Arguc, Feyza Nur
260	Extracellular Vesicles a Next Generation Therapeutic Delivery Platform	Asfiya, Rahmat
261	TRPV4 Contributes to Angiotensin II-Induced Right Ventricular Hypercontractility and Arrhythmogenesis in Isolated Hearts of Type 3 Pulmonary Hypertensive Mice	Behrmann, Andrew
262	Dual action of Kaempferol on ER stress signaling, and mito-chondrial function promotes neuroprotection in C9ORF72-ALS	Bond, Silvano
263	INTERMITTENT HYPOXIA INDUCES OVARIAN DYSFUNCTION VIA EPIGENETIC CHANGES IN SENESENCE PATHWAYS	Cataldo, Kylie
264	Enhancing Single Cell RNA-seq Analysis and Annotation for Understanding The Impact of CD137 Agonist on Cancer Immunoprevention through Advanced Informatics Algorithms	Chan, Yen On
265	CHEMOGENETIC ACTIVATION OF MELANIN CONCENTRATING HORMONE NEURONS CORRECTS SLEEP DISTURBANCES AND PROMOTES RECOVERY AFTER ISCHEMIC STROKE.	Chischolm, Abigail
266	The Contribution of CD47, an Immune Checkpoint Molecule, to Maintaining Immune Tolerance Between Mother and Fetus During Pregnancy	Choi, Sehee
267	Redesigned KBCommons – v2.0 framework for enhanced multi-omics data integration and visualization for diverse organisms	Dahal, Sabin
268	IDENTIFYING BIOMARKERS FOR ASSESSING OVARIAN STATUS IN OVARY-SPECIFIC SENESENCE-ASSOCIATED SECRETORY PHENOTYPES	Diaz Miranda, Edgar
269	Understanding Mast Cell Mediated Fibrosis in Murine Chronic Graft Versus Host Disease: The Role of Endothelial Cells	Gabure, Sahra
270	Fecal microbiome transplantation from human stroke donors promotes Alzheimer's disease brain pathology and hypoperfusion in 3xTg-AD mice	Govindarajan, Maalavika
271	[64Cu] Cu-NODAGA-GRLFT PEPTIDE FOR PROSTATE SPECIFIC MEMBRANE ANTIGEN (PSMA)-TARGETING AGENT IN PRECLINICAL MOLECULAR IMAGING AND DIAGNOSTIC TOOL FOR GLIOBLASTOMA CANCER	Gurukande Wedaarachchi, Helitha Eranda
272	THE ROLE OF TRANSIENT RECEPTOR POTENTIAL VANILLOID 4 IN CARDIAC AUTOPHAGY WITH AGING & ISCHEMIA-REPERFUSION	Hayden, Matthew
273	Loss of Mig-6 in Endometriotic Lesions Leads to Embryo Implantation Failure in a Mouse Model of Endometriosis.	Hosseinirad, Hossein
274	Ob/Ob Obese Mice Promote Tumorigenesis of Endometrial Cancer Associated with Pten Deficiency	Hull, Amanda
275	CCMT: A WEB-BASED PLATFORM FOR COMPARATIVE MULTI-OMICS DATA ANALYSIS ACROSS ORGANISMS	Immadi, Manish Sridhar
276	SULFUR MUSTARD OCULAR EXPOSURE ALTERS CYCLOOXYGENASE EXPRESSION IN CORNEA	Jeffrey, Maxwell

# 2024 HEALTH SCIENCES RESEARCH DAY

## Category II: Graduate Students, Residents, and Post-Doctoral Fellows Basic Science

Poster Number	Title of Abstract	First Author
277	Pharmacological Inhibition of Galectin-3 Suppressed Aortic Stiffness in Smooth Muscle Cell Specific Beclin-1 Deficient Mice	Kannan, Arun
278	Induced Plasticity In Upper Airway EMG Activity In A Model Of Hypoglossal Motor Neuron Loss	Keilholz, Amy
279	The Protective Effect of Myeloid Beta-2-Adrenergic Receptor Knock Out in Sepsis	Kelly, Kristin
280	5xFamilial Alzheimer's Disease Mouse Model pathology is rescued by Neuronal Overexpression of Ketolysis Rate-Limiting Enzyme: OXCT1	Kelty, Taylor
281	5HT2C agonism: A novel strategy for ameliorating age-related neural hypoexcitability and weakness	Kerr, Nathan
282	Role of Impaired Mitophagy and Mitochondrial Dysfunction in Glaucomatous Neurodegeneration.	Kesavan, Karthikeyan
283	The Effect of Statins on Distant Metastasis and Recurrence of Endometrial Cancer	Kim, KeunCheon
284	Real-World Performance of a Digital Pathology Scanning System	Kovalenko, Mikhail
285	Acute endurance exercise increases hepatic mitochondrial function potentially mediated through the orphan nuclear receptor Nur77	Krause, Alexa
286	Differential Gene Expression and Pathway Analysis of Quiescent and Proliferating Human Corneal Stromal Fibroblasts	Lankau, Brenden
287	Functional Carbon Dots for Enhanced miR218 Delivery and Accelerated Osteogenesis	Li, Qian
288	Incorporation of Bone Formation Peptide into Surfaced-modified Nanofibrous Microsphere Matrix for Periodontal Bone Regeneration	Li, Yingzi
289	Modulation of T cell phenotype for the design of effective T cell therapies	Lopez, Elida
290	IMPROVING MOUSE CELL TYPE ANNOTATION FOR SCRNA-SEQ DATA BY UTILIZING THE FOUNDATION MODEL AND LLM MODEL	Lu, Chunyang
291	IKK2/NFKB signaling controls lung resident CD8+ T cell memory during influenza infection.	Luera, Dezzarae
292	Cross-Modality Translation Between Multimodal Single-Cell Data via Deep Neural Network	Lyu, Zhen
293	Empowering Covid (SARS-CoV-2) Virus Genomics Surveillance for Missouri using Data Analytics and Integration Portals	Lyu, Zhen
294	Harnessing Inflammasome Inhibition to Combat Murine Sclerodermatous Chronic Graft-versus-Host Disease	Mohiyuddin, Shanid
295	Aged Garlic Extract Attenuates Age-associated Cognitive And Memory Decline Through Altered multi-functional Clusters In Cortex And Hippocampus	MONY, TAMANNA
296	MIG-6 Negatively Regulates HDAC1 as a Tumor Suppressor to Suppress Angiogenesis in Endometrial Cancer Associated with PTEN Deficiency	Nahar, Shamsun
297	Role of CD4+ $\beta$ 2-Adrenergic Receptor Signaling in Cardiac Remodeling in a Pressure-Overload Model of Heart Failure	Nekouian, Soraya
298	NCOR1 Plays an Important Role in Implantation and Decidualization.	Nguyen, Loan Thi Kim

# 2024 HEALTH SCIENCES RESEARCH DAY

## Category II: Graduate Students, Residents, and Post-Doctoral Fellows Basic Science

Poster Number	Title of Abstract	First Author
299	Establishment of a Pre-clinical Porcine Model for Endometriosis Research	Omenge, Harriet
300	Impact Of Tongue Exercise On Tongue Force/Strength During Swallowing In A Rodent Model Of Hypoglossal (XII) Motor Neuron Loss	Oti, Grace
301	Induction of Ferroptosis by a Novel Tumor Targeted Extracellular Vesicles and Iron Oxide Nanoparticle Hybrid System to Overcome Chemoresistance in Lung Cancer	Paramanantham, Anjugam
302	Disrupted Circadian Gene Expression in Fear Circuitry Following Predator Odor Trauma	Parikh, Meet Shaileshkumar
303	MRI-PET NEUROIMAGING OF BRAIN REMODELING IN WESTERN DIET INDUCED OBESE FEMALE MICE	Pathak, Ishan
40	Bacterial Therapeutics - Addressing the Affordability Gap in Cancer Therapy	Prifti, Kejsi
304	Roxadustat A Prolyl Hydroxylase Inhibitor Decreases Early Gastrointestinal Graft-Versus-Host Disease	Raguraman, Vasntharaja
305	miR-146a Deficiency Ablates Thoracic Aortic Aneurysmal Rupture in Mice	Ramesh, Nithya
306	Establishment of translational luciferase-based cancer models to evaluate antitumoral therapies	Ramos-Gonzalez, Martin
307	Advanced Molecular Imaging In vivo of the Probiotic L. lactis Expressing Fluorescent Proteins to Monitor Transit Through the Gastrointestinal Tract	Rubio-Infante, Nestor
308	Cardiomyocyte-Specific Overexpression of LARP6 Prevents Angiotensin II-Induced Contractile Dysfunction, Myofibroblast Activation, and Interstitial Fibrosis	Russell, Jacob
309	Murine Model of Gestational Diabetes Mellitus Reveals Markers of Hepatic Mitochondrial Dysfunction	Shryack, Grace
310	NOT ELIGIBLE FOR JUDGING: An In Vitro Modeling System To Evaluate The Role Of Neurons And Glia In Neuromuscular And Neurodegenerative Disorders	Sierra Delgado, Julieth
311	SCINTGRATE: INTERACTIVE MULTIOMICS DATA ANALYTICS, INFERENCE AND VISUALIZATION PORTAL	Singh, Pallav
312	Pesticide Ocular Exposure Affects Corneal Clarity and Leads to Compromised Vision	Sinha, Prashant
313	Investigating the role of the autophagy pathway in C9orf72-linked ALS/FTD	Smeele, Paulien
314	SMRT Plays an Important Role for Implantation and Decidualization.	Tran, Dinh Nam
315	Going Without: Food Pantry Use Among WIC Participants in Two Midwestern States	Weston, Karry
316	Understanding Differential Cell Fate Determination During Fetal Gametogenesis Using Single Cell RNA-Sequencing	Wilson, Faith

# 2024 HEALTH SCIENCES RESEARCH DAY

## Category II: Graduate Students, Residents, and Post-Doctoral Fellows Clinical Science

Poster Number	Title of Abstract	First Author
317	Impact of Endometriosis Stroma on Endometrial Epithelial Physiology	Ahmad, Vakil
318	Optimal Timing for Perioperative Exercise Following Breast Surgery- a Review	Alayoubi, MHD Beshar
319	G2PDeep-v2: a web-based deep-learning framework for phenotype prediction and biomarker discovery using multi-omics data.	Awan, Sania Zafar
320	RELATIONSHIP BETWEEN PATIENT REPORTED OUTCOME MEASURES AND THE SECRETOME OF SYMPTOMATIC INTERVERTEBRAL DISCS	Baumann, Abigail
321	Expression of CXCL13 in Reed Sternberg Cells of Classical Hodgkin Lymphoma: Is this still Hodgkin lymphoma?	Benge, Catherine
322	Comparison of Plain Film Radiographs and EOS Imaging in Patients with Malalignment	Bischoff, Caleb
323	Femoral Head Fractures: Can We Change Outcomes?	Bischoff, Caleb
324	A Case of Subretinal Abscesses with Charles Bonnet Syndrome Presenting Secondary to Endogenous Endophthalmitis with MRSA Bacteremia	Bodeen, Jeffrey
325	Providers and Patients In Rural Southwest Missouri: Understanding Perceived Barriers to Diabetic Retinopathy Exam Compliance Rates	Bodeen, Jeffrey
326	NOT ELIGIBLE FOR JUDGING: COMBO 10 BY 2: ANALYZING VACCINATION RATES AT A RURAL MEDICAL CENTER	Canaday, Laura
327	A Rare Case of Biclonal Chronic Lymphocytic Leukemia: Seeing the Trees Through the Forest	Dawson, James
328	Bilateral Congenital Stapes Footplate Fixation with Absence of the Stapedial Tendon: A Case Report	Du, Eric
329	Reducing Cesarean Surgical Site Infection Rates Within the OB / GYN Operating Room	Haake, Kameron
330	RARE CASE OF B-CELL ACUTE LYMPHOBLASTIC LEUKEMIA WITH TCF3-PBX1 AND NSD2 (WHSC1 or MMSET) MUTATION IN AN ADULT.	Hashim, Muhammad Moseeb Ali
331	IRnet: Immunotherapy Response Prediction using Pathway Knowledge-informed Graph Neural Network	Jiang, Yuexu
332	Evidence for Systemic Perioperative Antibiotic Prophylaxis for Prevention of Fracture-related Infections Following Open Fractures: Systematic Review and Meta-analysis of Randomized Controlled Clinical Trials	Klifton, Kevin
333	Incidental Prostate Lesions on FDG PET/CT and Prostate Cancer Risk: A Single-Center Retrospective Study	Kraus, Hunter
334	Oncologic Outcomes of Kidney-Sparing Surgery With or Without Adjuvant UGN-101 in Upper Tract Urothelial Carcinoma: A Single Institution Series	Kraus, Hunter
335	NOT ELIGIBLE FOR JUDGING: NURSING STUDENTS ARE MAKING A DIFFERENCE IN COLORECTAL CANCER SCREENING THROUGH COLONOSCOPY NAVIGATOR PROGRAM	Liu, Ying
336	Examining Cannabis Use During Pregnancy Among Missouri PRIDE Festival Female Attendees'	Maturino, Kassandra
337	Impact of Resveratrol on Neurovascular Coupling Following Acute Sleep Restriction in Young Men and Women	McDonald, Matthew
338	Colorectal Cancer Genomic Analysis: The Role of PIK3CA/PTEN/AKT1 Mutations in Clinical Outcomes	Mohammed, Ibrahim
339	Exploring Recruitment and Enrollment Adaptations for a Multisite Trial of COACH Using Model for Adaptation Design and Impact	Montgomery, Emma
340	The Impact Of Health Warnings Messages On Alcohol Consumption And Breast Cancer Risk Awareness Among U.S. Young Adult Women: An Experimental Study	Olajire, Abigail

# 2024 HEALTH SCIENCES RESEARCH DAY

## Category II: Graduate Students, Residents, and Post-Doctoral Fellows Clinical Science

Poster Number	Title of Abstract	First Author
341	Outcomes Of Patients Admitted With COVID Undergoing Carotid Interventions	Ratcliffe, Brycen
342	Impact of Hospital Closures on Sepsis Outcomes in Missouri EMS Transports	Schuler, Paul
343	'Code Brain'- Assessment Of A Simulation Exercise To Enhance Identification, Evaluation, And Management Of Cerebral Herniation By Neurology Residents.	Shah, Sayed Mustafa
344	Maternal and Child Health Assessments to Address Disparities Across Missouri	Si, Ma May
345	EBV-Associated Colitis with GI Bleeding in a Liver Transplant Recipient: A Case Report	Wallace, McKenzie
346	Comprehensive NGS Analysis Uncovers Unique Mutation Profiles in Papillary, Follicular, and Medullary Thyroid Carcinomas	Zhang, Xiaoming
347	Uncovering Novel Genetic Mutations in Thyroid Carcinoma: A Large Cohort NGS Analysis	Zhang, Xiaoming