

HEALTH SCIENCES RESEARCH DAY 2023

CATEGORY I: UNDERGRADUATES AND MEDICAL STUDENTS

BASIC SCIENCE

Poster Number	Title of Abstract	First Author
1	The Dark Side of Facial Steroid Injections in Dermatology	Aihie, Osaigboka
2	TUMESCENT TECHNIQUE FOR SPLIT-THICKNESS SKIN GRAFT DONOR SITES: A SYSTEMATIC REVIEW OF RANDOMIZED CONTROLLED TRIALS	Ash, Angela
4	THE EFFECTS OF ANTERIOR CRUCIATE LIGAMENT AND SYNOVIAL TISSUE ON RESPONSES OF PATELLAR AND QUADRICEPS TENDON TO INFLAMMATORY STIMULATION	Atteberry, Kelsey
5	REFINING A NOVEL APPROACH TO PROGRESSIVE RESISTANCE TRAINING IN MOUSE MODELS AND INVESTIGATING THE NEUROLOGICAL IMPACT OF SHORT-TERM TRAINING	Brennan, Charles
6	COTINUS COGGYRIA-PHYTOCHEMICALS FUNCTIONALIZED GOLD NANOPARTICLES ANTI-CANCER PROPERTIES: NANO AYURVEDIC MEDICINAL APPROACH	Dumor, Eyrum
7	EFFECTS OF CHLORINE EXPOSURE TO THE CORNEAL CELLS	Dunscombe, Will
8	BIOMECHANICAL COMPARISON OF NITINOL COMPRESSION STAPLES VERSUS FULLY THREADED LAG SCREWS FOR TALONAVICULAR ARTHRODESIS FOLLOWING 24-HOUR INCUBATION AT BODY TEMPERATURE	Garlapaty, Ashwin
10	2-VESSEL OCCLUSION HYPOPERFUSION ANIMAL MODEL WITH ENCEPHALOMYOSYNANGIOSIS	Genovese, Sabrina
11	EVALUATING CHATGPT'S ABILITY TO ANSWER AND REASON THROUGH GENERAL SURGERY RESIDENT QUESTIONS	Gunter, Molly
12	REDUCING WASTE IN THE PLASTIC SURGERY OPERATING ROOM	Haake, Kameron
13	CELLULAR PROPERTY OF ENDOMETRIAL EPITHELIAL STEM CELLS	Hackworth, Mia
14	Nano Ayurvedic Medicine Approaches Using Ginkgo Biloba-Phytochemicals Functionalized Gold Nanoparticles Against Breast and Prostate Cancers	Hall, Nya
15	THE EFFECTS OF STIMULATED ACTIVITY LEVELS ON CELLULAR METABOLIC RESPONSES OF THE ACL AND EXTENSOR TENDON AUTOGRAFTS USED FOR ACL INJURY	Hark, Gillian
16	EFFECT OF PATELLAR AND QUADRICEPS TENDON ON THE METABOLISM OF ANTERIOR CRUCIATE LIGAMENT AND SYNOVIUM IN RESPONSE TO INFLAMMATORY STIMULATION	Hinkamp, Maria
17	MECHANISTIC UNDERSTANDING OF MUSTARD GAS KERATOPATHY IN HUMAN CORNEA IN VITRO AND RABBIT CORNEA IN VIVO	Hofmann, Alexandria
19	THE ROLE OF SPECIFIC CD36 (ECCD36) IN WESTERN DIET INDUCED ARTERIAL STIFFENING AND CARDIOVASCULAR RELATED DISEASES	Igbekele, Aderonke
20	THE ROLE OF IRF1 IN DIABETIC RETINOPATHY PATHOGENESIS THROUGH RETINAL MÜLLER CELLS	Jeevan, Varun
21	OPTIMIZATION OF A NOVEL TISSUE PRESERVATION SYSTEM FOR POINT-OF-CARE STORAGE OF NERVE ALLOGRAFTS	Jenkins, Danna
22	UNDERSTANDING THE ROLE OF THE BALBIANI-BODY IN A MURINE PRIMARY OVARIAN INSUFFICIENCY MODEL	Ko, Sooah
24	DEVELOPMENT OF NOVEL OPHTHALMIC DROPS TO TREAT MUSTARD GAS INDUCED CORNEAL BLINDNESS IN VIVO	Lujin, Payton
25	IMPROVING PATIENT EDUCATION MATERIALS FOR TOTAL HIP & KNEE ARTHROPLASTY PATIENTS	Marshall, Samuel; Baumann, John
26	PHENOTYPIC EVALUATION OF NATURAL KILLER CELLS IN HEPATOCELLULAR CARCINOMA FOR CAR-NK CELL DEVELOPMENT	Massad, Katina
27	Sex Difference in Aortic Contractility and Protein Expressions in Response to LPS Treatment	Omer, Bwaar
28	Establishing a Protocol for Human Skeletal Muscle Xenograft as a Preclinical Model for Gene Therapy Research	Parry, Caroline
29	ADJUNCTIVE DORSAL SPANNING PLATE FIXATION IN THE STABILIZATION OF PERILUNATE DISLOCATIONS	Reeves, Evan
30	EFFECTS OF ANTI-MYOSTATIN ANTIBODIES ON PLACENTAL MORPHOLOGY IN OSTEOGENESIS IMPERFECTA MOUSE	Schulte, Amanda
31	RELATIONSHIPS AMONG PATIENT DEMOGRAPHIC FACTORS AND BIOMARKERS IN SYNOVIUM RECOVERED FROM OSTEOARTHRITIC KNEES	Schweitzer, Kayla

CATEGORY I: UNDERGRADUATES AND MEDICAL STUDENTS**BASIC SCIENCE**

Poster Number	Title of Abstract	First Author
32	Genetic Analysis of the Cerebral Palsy Population in the Physical Medicine and Rehabilitation Clinic Principal Investigator: Ria Shahapeti	Shahapeti, Ria
33	EFFECTS OF NICOTINE AND COTININE LEVELS ON INTERVERTEBRAL DISC HEALTH AND INFLAMMATION IN AN EX VIVO RAT TAIL MODEL	Sierra, Connor A.
34	Phantom Limb Pain Management: A Review of Current Concepts	Spezia, Marie
35	POTENTIAL NUTRACEUTICAL MANAGEMENT AND TREATMENT OF POLYCYSTIC OVARY SYNDROME WITH AMERICAN ELDERBERRIES	Stefani, Lara
36	Assessing the Xenoantigenicity of Matrix-Bound Nanovesicles	Stevenson, Connor
37	MUSTARD GAS KERATOPHTHY INVOLVES CHANGES IN CORNEAL STROMAL ARCHITECTURE AND FIBROTIC GENES IN VIVO	Suleiman, Laila
38	THE EXPRESSION OF CDH17 IN DIFFERENT TISSUES IN MICE WITH DIET-INDUCED METABOLIC DISORDERS	Vanderwert, Ethan
39	THE ROLE OF SPHINGOSINE KINASE 2 IN IMMUNE SUPPRESSION DURING A CHRONIC VIRAL INFECTION	Vu, Toan
40	EFFECTS OF ANTISENSE-INDUCED DOWNREGULATION OF CIRCADIAN GENE PERIOD 1 IN THE BASOLATERAL AMYGDALA ON SPONTANEOUS SLEEP-WAKEFULNESS AND CONSOLIDATION OF TRAUMATIC MEMORY	Wang, Sarah Yunmeng
41	IDENTIFICATION OF ENDOMETRIAL CANCER STEM CELLS	Yucebas, Kerem
217	HOW MEN'S MODIFIABLE DIET AFFECT PROSTATE CANCER INCIDENCE, PROGRESSION, AND MORTALITY	Reed, India

CATEGORY I: UNDERGRADUATES AND MEDICAL STUDENTS**CLINICAL SCIENCE**

Poster Number	Title of Abstract	First Author
3	CRANIOSYNOSTOSIS ASSOCIATED WITH NOVEL TUBG1 MUTATION (C.821 C > T; P.THR274ILE): LITERATURE REVIEW AND CASE REPORT	Ash, Angela
9	DO PATIENTS LIVING IN RURAL AREAS REPORT INFERIOR 1-YEAR OUTCOMES AFTER TOTAL KNEE ARTHROPLASTY? A MATCHED COHORT ANALYSIS	Garlapaty, Ashwin
18	THE EFFECT OF MULTIMODAL NEUROLOGIC ENHANCEMENT ON LENGTH OF RESPIRATORY SUPPORT REQUIRED FOR PREMATURE INFANTS IN THE NEONATAL INTENSIVE CARE UNIT	Igbekele, Aderonke
23	RELATIONSHIP BETWEEN TISSUE BIOMARKER CONCENTRATION AND HISTOLOGY SCORES IN THE OSTEOARTHRITIC KNEE	Lehenbauer, Corder
42	Comparative Analysis of Goniotomy and Omni Surgery for Intraocular Pressure Reduction in Glaucoma Patients	Abdeljabbar, Nadine
43	OPPORTUNISTIC VERTEBRAL BONE DENSITY MEASUREMENTS VIA COMPUTED TOMOGRAPHY HOUNSFIELD UNITS IN PATIENTS WITH AND WITHOUT SCHEUERMANN DISEASE	Abro, Zohaib
44	COMPARING CONSERVATIVE AND SURGICAL TREATMENT FOR ACUTE NON-DISPLACED FRACTURES OF THE SCAPHOID BASED ON FRACTURE LOCATION: A SYSTEMATIC REVIEW AND META-ANALYSIS	Al-Kharabsheh, Yazan
45	ASSESSING TREATMENT PREFERENCES FOR DISTAL RADIUS FRACTURES IN PARTICIPANTS AGED 65 AND OLDER	Al Rawi, Zayd
46	Social Determinants of Health in Audiology Screening Compliance	Almashharawi, Laith
47	Impact of Restraint Systems on Maternal-Fetal Outcomes in Pregnant Patients Involved in Motor Vehicle Accidents: A Retrospective Analysis	Alvarado , Alexander
48	A SYSTEMATIC REVIEW OF PAHO AND WHO DOCUMENTS FOR NEUROLOGICAL DISEASE BURDEN	Anand, Shreya
49	HUMAN METABOLIC RESPONSES OF THE ACL EXTENSOR AUTOGRAFTS TO THE ACL REMNANT AND THE SYNOVIUM	Annin, Luke
50	Measuring the autonomic function after spinal cord injury	Apostol, Andrew
51	Mid-Missouri Demographics of Head and Neck Cancer Patients and Impact on Staging	Barry, Elsie
52	PROTEIN CONTENT OF INTERVERTEBRAL DISC TISSUES RECOVERED FROM SYMPTOMATIC PATIENTS AND ASYMPTOMATIC DONORS	Baumann, Abigail
53	OVARIAN CYST IN A 12-YEAR-OLD PRE-MENARCHAL FEMALE: A CASE STUDY	Beaudoin, Sara
54	SCARED OF SURVEY BOTS AND INSINCERE PARTICIPANTS?	Beavers, Abigail
55	ESKETAMINE NASAL SPRAY FOR TREATMENT-RESISTANT DEPRESSION IN A VETERAN WITH BIPOLAR DEPRESSION	Bodenhause, Michael
56	GERIATRIC HIP FRACTURE OUTCOMES ASSESSMENT: COMPARING PLATES AND NAILS	Bodenhause, Michael
57	IMPACT OF β -ADRENERGIC RECEPTORS ON HYPOXIC VASODILATION IN MALES AND FEMALES	Bond, Braden
58	THE EFFECT OF LIFESTYLE FACTORS ON SARCOPENIA MARKERS IN NONALCOHOLIC FATTY LIVER DISEASE (NAFLD)	Boone, Kendall
59	YOU DEFINITELY DON'T WANT MY THOUGHTS ON THE PANDEMIC!	Brandt, Amy R.
60	DIFFERENCES IN OSTEOARTHRITIC CARTILAGE BIOMARKER CONTENT BASED ON BIOMECHANICAL PROPERTIES OF THE TISSUE	Brentlinger, Grace
61	MRI in the management and evaluation of tibial plateau fractures	Brown, Samuel
62	SPONTANEOUS APPENDICEAL-VAGINAL FISTULA: A RARE COMPLICATION OF NON-OPERATIVE APPENDICITIS MANAGEMENT	Brune, Madison
63	A CHILD WITH HHV-6 AND BELL'S PALS: CASE REPORT AND REVIEW OF THE LITERATURE	Causevic, Loren
64	DEVELOPMENT AND EVALUATION OF A NOVEL HOSPITAL DISCHARGE SMARTPHONE APPLICATION FOR VASCULAR SURGERY PATIENTS	Christian, Jr., Terrell

CATEGORY I: UNDERGRADUATES AND MEDICAL STUDENTS**CLINICAL SCIENCE**

Poster Number	Title of Abstract	First Author
65	EXAMINING PREHOSPITAL PROCEDURES IN RURAL TRAUMA CARE	Christian, Jr., Terrell
66	SOCIAL AND DEMOGRAPHIC PREDICTORS OF HEPATITIS A AND HPV VACCINATION AMONG U.S. IMMIGRANTS--SSON Dean's Award Winner	Lynn, Claire
67	Race and Beta blocker use in Stroke Rehabilitation	Cremer, Elizabeth
68	REGIONAL DIFFERENCES IN FEMORAL CONDYLE CARTILAGE BIOMARKERS RELATED TO HISTOLOGICAL DEGRADATION SEVERITY IN THE OSTEOARTHRITIC KNEE	D'Amour, Owen
69	CHARACTERISTICS OF LOXOSCELISM-INDUCED ANEMIA: A CLINICAL RETROSPECTIVE ANALYSIS	Dillinger, Timothy
70	ACUTE LOCALIZED EXANTHEMATOUS PUSTULOSIS CAUSED BY SYSTEMIC LOXOSCELISM: A CASE REPORT	Dillinger, Timothy
71	TIGERS CONNECTED: A NOVEL SOCIAL DETERMINANT OF HEALTH (SDOH) SCREENING AND INTERVENTION PROGRAM IN THE PEDIATRIC EMERGENCY DEPARTMENT	Eichman, Destri
72	SHORT EDUCATIONAL INTERVENTION INCREASES SUBJECTIVE KNOWLEDGE OF HEAD AND NECK CANCER AND HUMAN PAPILLOMAVIRUS AMONGST MISSOURI STATE FAIR ATTENDEES	Elbert, Emma
73	DONOR SITE MORBIDITY IN HEAD AND NECK RECONSTRUCTIVE LIMBS: ANTEROLATERAL THIGH AND FIBULA FREE TISSUE TRANSFERS	Elbert, Emma
74	IMPORTANCE OF HISTOPATHOLOGIC EVALUATION IN THE DIAGNOSIS OF ANEURYSMAL FIBROUS HISTIOCYTOMAS	Ernst, Rebecka
75	DISORDER OF SEXUAL DEVELOPMENT AND CONSIDERATIONS IN PEDIATRIC FORENSIC AUTOPSY	Ernst, Rebecka
76	Physical Therapists Perspectives On Physician Prescriptions	Fehr, Adam
77	HOW DO LAYPEOPLE DECIDE WHO TO SEE FOR THEIR PAIN COMPLAINTS?	Fehr, Adam
78	Accurate Classification of Benign and Malignant Dermoscopy Skin Lesions using Three Deep Learning Models	Flowers, Lauren
79	Positive ANA Referrals to Rheumatology Clinic: Utility of Triage System	Flowers, Lauren
80	INTEGRATION OF OBJECTIVE, PRECISION-BASED TECHNOLOGIES INTO ENT CLINICAL PRACTICE	Gamoneda, Diego
81	Correlations between 4D-CT Results and Indirect Signs of Hyperfunctioning Parathyroid Tissue	Gao, Matthew
82	ORAL CAVITY SQUAMOUS CELL CARCINOMA: EXPLORING ADJUVANT THERAPY ADHERENCE AND OUTCOMES	Gates, Carson
83	EMR DERMOSCOPY IMAGE AND SOCIAL DETERMINANTS OF HEALTH DATA RETRIEVAL FOR AI ALGORITHM DEVELOPMENT	Giefer, Josie
84	DETERMINING THE IMPACT OF SURGICAL SCISSOR TYPE ON PATIENT EXPERIENCE DURING MOHS MICROGRAPHIC SURGERY: A RANDOMIZED CONTROL TRIAL	Giefer, Josie
85	RESTROSPECTIVE STUDY OF PIERRE ROBIN AT THE UNIVERSITY OF MISSOURI	Goldenberg, Carlye
86	RE-IRRADIATION AFTER OSTEOCUTANEOUS FREE FLAP RECONSTRUCTION FOR LOCALLY RECURRENT HEAD AND NECK CANCER	Gondi, Suma
87	Long-Term Outcomes from Two Decades of Endovascular Aortic Repair	Gondi, Suma; Manoranjithan, Shaminy
88	I Saw the Sign: the "Hook" Sign of Median Arcuate Ligament Syndrome	Greaser, Josh
89	DIFFUSE LARGE B-CELL LYMPHOMA PRESENTING AS NECROTIC SPLENIC MASS WITH INFILTRATION INTO GREATER CURVATURE OF STOMACH	Greaser, Josh
90	STOP THE BLEED KITS ON UNIVERSITY OF MISSOURI-COLUMBIA CAMPUS: A FIVE-YEAR FOLLOW-UP	Groves, Savannah
91	MASTERY LEARNING FOR CHEST TUBE PLACEMENT: APPLICATION TO SURGERY AND EMERGENCY MEDICINE INTERNS	Haralson, Warren

HEALTH SCIENCES RESEARCH DAY 2023

CATEGORY I: UNDERGRADUATES AND MEDICAL STUDENTS

CLINICAL SCIENCE

Poster Number	Title of Abstract	First Author
92	RELATIONSHIP BETWEEN PATIENT DEMOGRAPHIC FACTORS AND THE PROTEIN CONTENT OF INFRAPATELLAR FAT PAD TISSUE RECOVERED FROM OSTEOARTHRITIC KNEES	Harris, Kathleen
93	ANTERIOR VERTEBRAL BODY TETHERING: A SINGLE CENTER COHORT STUDY WITH 5+ YEARS OF FOLLOW-UP	Hawkins, Samuel
95	A CASE SERIES: THE POTENTIAL RELATIONSHIP BETWEEN POLYCYSTIC OVARIAN SYNDROME AND OBSTRUCTIVE SLEEP APNEA, AND THEIR EFFECTS ON FERTILITY OUTCOMES	Henry, Lauren
96	Lichen Planus: Opportunities for Continuing Education through Dermatology ECHO	Henry, Mollie
97	RATES OF LYMPH NODE POSITIVITY IN MUCINOUS BREAST CARCINOMA AT A SINGLE INSTITUTION	Homan, Carlton
98	RESTARTING ANTICOAGULATION AFTER HEAD AND NECK FREE FLAPS: IMPLICATIONS ON FLAP SURVIVAL AND COMPLICATIONS	Hood, Dylan
99	TOTAL HIP ARTHROPLASTY OUTCOMES FOLLOWING REDUCTION IN POST-OPERATIVE ADMISSION PERIOD	Hushev, Vladislav
100	THE OPHTHALMOLOGIST'S ATTIRE AND PATIENT PERCEPTION OF QUALITY CARE AT AN ACADEMIC INSTITUTION	Intagliata, Alexander
101	SHOW-ME DERMATOLOGY ECHO: UNDERSTANDING DIAGNOSTIC PATTERNS THROUGH MISSOURI MEDICAID CLAIMS DATA ANALYSIS	Jackson, Travis
102	LEPROMATOUS LEPROSY: A CASE REPORT OF TYPE II REACTION ERYTHEMA NODOSUM LEPROSUM	Jonas, Kenlee
103	SYSTEMIC LOXOSCELM - A UNIQUE CAUSE OF ACUTE GENERALIZED EXANTHEMATOUS PUSTULOSIS: A CASE SERIES	Jonas, Kenlee
105	LOADSOL WEIGHT-BEARING AND GAIT PATTERNS IN HEALTHY CONTROLS	Kaleel, Miranda
106	The relationship between psychophysiological markers and sensory profile in individuals with Autism	Kancharla, Himavarsha
107	DIFFERENCES IN BRAIN DEVELOPMENT AND NEED FOR CSF DIVERSION BASED ON MYELOMENINGOCELE LEVEL	Karuparti, Sasidhar
108	HEAD CIRCUMFERENCE AND HYDROCEPHALUS DEVELOPMENT AFTER PRE- AND POST-NATAL MYELOMENINGOCELE REPAIR	Karuparti, Sasidhar
109	LASER ASSISTED PERMANENT GREENFIELD FILTER REMOVAL WITH ILEOCAVAL STENT RECONSTRUCTION FOLLOWING FILTER THROMBOSIS, A CASE REPORT	Kaur, Sarabjit
110	REGIONAL DIFFERENCES IN TIBIAL PLATEAU CARTILAGE BIOMARKERS RELATED TO HISTOLOGICAL SEVERITY IN THE OSTEOARTHRITIC KNEE	Keeton, Gabriel
111	TRAJECTORIES OF EPIGENOMIC PROFILES DURING GESTATION IN FETAL GROWTH DISORDERS	Khoukaz, Joey
112	PREDICTING POSTOPERATIVE REFRACTIVE OUTCOMES OF INTRAOCULAR LENS FIXATION WITH THE YAMANE TECHNIQUE	Khoukaz, Lea
113	Postnatal Outcomes of Monochorionic-Diamniotic Twins Versus Dichorionic-Diamniotic Twins	Kluge, Morgan
114	ANTERIOR CRUCIATE LIGAMENT INJURIES IN NATIONAL FOOTBALL LEAGUE PLAYERS FROM 2012 TO 2022: A DESCRIPTIVE EPIDEMIOLOGY STUDY	Kluge, Morgan
115	UNDERSTANDING THE EFFECTS OF VITAMIN D ON INFERTILITY: A RETROSPECTIVE CHART REVIEW OF PATIENTS AT MU'S REPRODUCTIVE ENDOCRINOLOGY AND INFERTILITY CLINIC	Krell, Kavita
116	COMPARATIVE OUTCOMES FOR COVERED VERSUS NON-COVERED STENTING FOR FEMOROPLOPLITEAL OCCLUSIVE DISEASE	Kurop, Margaret
117	Identifying Social Determinates of Health Experienced by Individuals with Food Insecurity	La Valle, Taylor
118	ENDOMETRIOSIS MISINFORMATION ON SOCIAL MEDIA	Lager, Emily
119	KNOWLEDGE GAPS IN FERTILITY AT THE UNIVERSITY OF MISSOURI - COLUMBIA	Lager, Emily
120	An Examination of Broadband Internet Access Limiting the Utilization of Teledermatology in Missouri	Leathers, Janie

CATEGORY I: UNDERGRADUATES AND MEDICAL STUDENTS**CLINICAL SCIENCE**

Poster Number	Title of Abstract	First Author
121	A Quality Improvement Initiative to Increase Knowledge and Improve Access to Resources About Sun Safety in Mid-Missouri	Leathers, Janie
122	A RETROSPECTIVE ANALYSIS ON THE EFFICACY OF BODY WEIGHT-SUPPORTED GAIT TRAINING IN POST-STROKE INPATIENT REHABILITATION	Ludwig, Jenna
123	EFFECTS OF PROPRANOLOL ON SEMANTIC WORD FLUENCY IN AUTISM SPECTRUM DISORDER	Malaker, Pias
124	SGLT-2 Inhibitors and Diabetic Ketoacidosis: A Case Report and Review of Literature	Mallen, Marcus
125	METASTATIC PAPILLARY THYROID CARCINOMA DISCOVERED BY PARAMALIGNANT EFFUSION	Mallen, Marcus
126	Analysis of Cannabis Use in Sexual and Gender Minorities Compared to Heterosexual Festival Participants	Marko, Alexandra
127	DIFFERENCES IN CARTILAGE BIOMARKERS RELATED TO HISTOLOGIC DEGRADATION SEVERITY IN THE OSTEOARTHRITIC KNEE	Marx, Luke
128	ACUTE ESOPHAGEAL PERFORATIONS IN A RURAL ACADEMIC CENTER	Mather, Bethany
129	RELATIONSHIPS BETWEEN LIVER DISEASE, CERAMIDES, AND LIPOGENESIS IN HUMANS WITH NONALCOHOLIC STEATOHEPATITIS (NASH)	McCaffrey, Jonas
130	Low and High Energy Sacral Fractures: A Literature Review	McGhee, Nick
131	ALLERGIC FUNGAL RHINOSINUSITIS IN A 12-YEAR-OLD MALE RESULTING IN REMODELING OF CRIBRIFORM PLATE WITH PROTRUSION INTO THE ANTERIOR CRANIAL FOSSA: A CASE REPORT	McGhee, Nick
132	SHARED DECISION-MAKING IN THE EMERGENCY DEPARTMENT: A CONVERSATION GUIDE REFINEMENT FOR OLDER ADULTS REQUIRING INTENSIVE CARE HOSPITALIZATION	McGough, Katherine
133	MAINTENANCE OF RESPONSE TO TRANSCRANIAL MAGNETIC STIMULATION (TMS) IN MAJOR DEPRESSIVE DISORDER (MDD) USING MONTHLY TMS TREATMENT	McKelvy, Jane
134	NOREPINEPHRINE-MEDIATED VASOCONSTRICTION DURING HYPOXIA AND THE ROLE OF BETA-ADRENERGIC RECEPTORS	McKnelly, Haylen
135	Ambulation Rehabilitation: A Retrospective Analysis on the Efficacy of Body-Weight Support Gait Training in Post-Stroke Inpatient	McLeod, Sarah
136	Carotid Blowout Syndrome: A Case Report	Meers, Aaron
137	IMPACT OF MEDICAID EXPANSION ON MATERNAL MORTALITY RATES	Miles, Sydney
138	ESKETAMINE NASAL SPRAY FOR TREATMENT-RESISTANT DEPRESSION IN A TRANSGENDER VETERAN WITH BORDERLINE PERSONALITY DISORDER	Mpyisi, Lydiah Fridah
139	RURAL PREHOSPITAL TOURNIQUET PLACEMENT: A RETROSPECTIVE ANALYSIS	Mudd, Jaycee
140	SPINOPELVIC PARAMETERS IN THE STANDING & SITTING POSITIONS ON LATERAL EOS RADIOGRAPH	Munshi, Muhammad-Amin
141	Is Virtual Reality the solution for social isolation in elderly individuals?: A Literature Review	Naseer, Nisha
142	VULNERABLE ROAD USER (VRU) SAFETY ASSESSMENT	Nichols, Kaylie
143	Napping's Role Unfolds with Age: Cognitive Gain or Memory Drain?	Nowakowski, Lauren
144	Endometriosis and Obesity: A Narrative Review	Onuigbo, Odinaka
145	The Potential Role of Hormones in the Progression of Capillary Malformation-Arteriovenous Malformation During Perinatal Period	Ortega, Madison
146	"HER BROTHER WANTS HER SENT TO THE ER": EXPLORING HOW 'WHAT MATTERS' INFLUENCES AVOIDABLE NURSING HOME-TO-HOSPITAL TRANSFER OF RESIDENTS WITH DEMENTIA	Paez Perez, Debora

CATEGORY I: UNDERGRADUATES AND MEDICAL STUDENTS**CLINICAL SCIENCE**

Poster Number	Title of Abstract	First Author
147	PROPENSITY SCORE MATCHED ANALYSIS OF ROUX-EN-Y GASTRIC BYPASS CONVERSION TO DUODENAL SWITCH VERSUS CONVERSION TO SINGLE ANASTOMOSIS DUODENO-ILEAL BYPASS	Perez, Samuel
148	FROM INPATIENT REHABILITATION FACILITY TO SKILLED NURSING FACILITY TO HOME: A RETROSPECTIVE STUDY OF FUNCTIONAL RECOVERY	Philippe, Alexis
149	ROLE FOR THE CAROTID CHEMORECEPTORS IN GLUCOSE TOLERANCE IN HUMAN TYPE 2 DIABETES	Pipkins, Aubrey
150	A RARE PRESENTATION OF NODULAR PRIMARY LOCALIZED CUTANEOUS AMYLOIDOSIS INVOLVING THE ORAL COMMISSURE	Pogorzelski, Karolina
151	SEX MISMATCHED KNEE OSTEOCHONDRAL ALLOGRAFTS DO NOT AFFECT CUMULATIVE GRAFT SURVIVAL RATES	Pridemore, Josh
152	The Efficacy of the Hydrus® Microstent versus the OMNI® Surgical System alone and in combination in the treatment of open angle glaucoma	Rahman, Anya
153	Perivascular Infiltration of Rocuronium in Patient With Chronic Renal Disease	Salisbury, Shelby
154	APPROACH TO PACEMAKER PLACEMENT IN THE CONTEXT OF RARE HYPERCOAGULABLE STATE WITH OBSTRUCTIVE RIGHT ATRIAL THROMBUS AND SUPERIOR VENA CAVA SYNDROME (SVC)	Schaeffer, Sam
155	Oral Feeding in Infants Born to Mothers with Diabetes	Schoening, Meridith
156	ASSESSING THE IMPACT OF THE TEAM INTEGRATED ENHANCED RECOVERY (TIGER) PROTOCOL ON VERTEBRAL BODY TETHERING (VBT) OUTCOMES	Sexton, Mathew
157	XEN GEL STENT OUTCOMES IN OPEN ANGLE GLAUCOMA PATIENTS: COMPARISON OF OPEN CONJUNCTIVA VS CLOSED CONJUNCTIVA AT 36 MONTHS	Shanklin, Justin
158	SULCUS TUBE INTERNAL NEEDLE GUIDEWIRE TECHNIQUE FOR GLAUCOMA DRAINAGE DEVICE PLACEMENT: IMPROVING SURGICAL EASE AND PRECISION	Shao, Christine
159	GIVING A BOOST TO DISADVANTAGED PREMEDS: A MIZZOU MED STUDENT-RUN MEDICAL SCHOOL APPLICATION ADVISING SERVICE	Shao, Christine
160	DOCUMENTED CUES IN THE USE OF PHYSICAL RESTRAINTS WITHIN THE EMERGENCY DEPARTMENT	Shock, Erika
161	FLOW CYTOMETRY USE OF CD81 AND CD24 IN ACUTE LEUKEMIA	Sholy, Christine
162	THE ROLE OF CD3+CD56+ REGULATORY T LYMPHOCYTES IN MYELOID NEOPLASMS	Sholy, Christine
163	IMPROVING REFRACTIVE OUTCOMES OF CATARACT SURGERY AND BENCHMARKING TORIC INTRAOCULAR LENS IMPLANTATION RATE IN AN ALL-COMERS POPULATION	Simoncic, Jayce
164	ASSESSMENT OF SERUM BIOMARKERS FOR DETERMINING SEVERITY OF KNEE OSTEOARTHRITIS BASED ON TWO DIFFERENT RADIOGRAPHIC SCORING SYSTEMS	Singh, Harjeev
165	ASSESSMENT OF URINE BIOMARKERS FOR DETERMINING SEVERITY OF KNEE OSTEOARTHRITIS BASED ON TWO DIFFERENT RADIOGRAPHIC SCORING SYSTEMS	Singh, Harjeev
166	LINKS IN DNA ISOLATED FROM FIRST TRIMESTER MATERNAL URINE TO GESTATIONAL SIZE AT BIRTH	Smith, Gracie
167	CLINIC FLOW SPREADSHEET WITH TIMESTAMP FUNCTIONALITY	Smith, Parker
168	BRUCELLA DISCITIS OSTEOMYELITIS	Smith, Parker
169	GOT A LIGHT? NOT ANYMORE: A COMPARATIVE ANALYSIS OF SEXUAL AND GENDER MINORITIES AND CISGENDER HETEROSEXUAL PRIDE ATTENDEES	Spence, Kayla
170	DO INTRA-ARTICULAR CORTICOSTEROID AND PLATELET-RICH PLASMA INJECTIONS DIFFERENTIALLY REGULATE CLINICAL AND BIOCHEMICAL RESPONSES IN OSTEOARTHRITIC KNEES?	Sullentrop, Anna
171	Back Pain in Adolescents and Young Adults: Looking Beyond the Usual Suspects	Suri, Pranav
172	PREDICTIVE FACTORS FOR VISUAL ACUITY IN CORNEAL ECTASIA	Sweeney, Megan

CATEGORY I: UNDERGRADUATES AND MEDICAL STUDENTS**CLINICAL SCIENCE**

Poster Number	Title of Abstract	First Author
173	THE INFLUENCE OF LOCUS OF CONTROL ON PATIENT REPORTED OUTCOMES FOLLOWING SPINE SURGERY	Thomson, Michaela
174	Anatomic Variations by MRI of Superior Extensor Retinaculum Anatomy	Tomanek, Amanda
175	REDUCING OPIOID UTILIZATION WITH LIPOSOMAL BUPIVACAINE IN POSTOPERATIVE LUMBAR SPINE PROCEDURES	Troupe, Carly
176	ATTEMPTING TO INCREASE RURAL EMS RECRUITMENT AND RETENTION USING A DISTRIBUTED EMS OUTREACH PROGRAM	Vaclavek, Anna
177	SECONDARY SYPHILIS: UNIQUE CLINICAL MANIFESTATIONS OF A PROTEAN CONDITION	Valle, Kostandin
178	THE SENSITIVITY OF ANTERIOR HYALOID SEPARATION SIGN AS A PREDICTIVE FACTOR FOR POSTERIOR VITREOUS DETACHMENT	Wattanasirakul, Peeradol
179	MIGHTY MICE: REFINING A NOVEL APPROACH TO PROGRESSIVE RESISTANCE TRAINING IN MOUSE MODELS AND INVESTIGATING THE NEUROLOGICAL IMPACT OF SHORT-TERM TRAINING	Williard, Zachary
180	USING TRAVEL TIME AND DISTANCE TO QUANTIFY ACCESS TO DERMATOLOGIC SPECIALTY CARE IN RURAL NORTHWEST MISSOURI	Wright, Claire
181	AN ANALYSIS OF MEDZOU COMMUNITY HEALTH CLINIC'S INCREASING IMPACT ON FOOD SECURITY	Zelle, Leanna
182	RARE N4-ACETYL-SULFAMETHOXAZOLE STONE INDUCED BY TRIMETHOPRIM-SULFAMETHOXAZOLE	Zhang, Wendy

CATEGORY II: GRADUATE STUDENTS, RESIDENTS, AND POST-DOCTORAL FELLOWS		
BASIC SCIENCE		
Poster Number	Title of Abstract	First Author
183	Female Sex Protects Cerebral Arteries from Mitochondrial Disruption and Cell Death Induced by Reactive Oxygen Species	Safa
184	Zika Virus Induces ER Stress in Ocular Cells and Inhibition of ER Stress Attenuates Viral Replication	Ahmad, Faraz
185	Combinatorial Effect of Calcium Chloride and Polyethylene Glycol (PEG) in Purification of Extracellular Vesicles	Asfiya, Rahmat
186	SIDE-BY-SIDE COMPARISON OF SYSTEMIC AAV8, 9 AND RH74 TRANSDUCTION IN HUMAN MUSCLE	Burke, Matthew
187	A patient-derived xenograft (PDX) model of non-small cell lung cancer (NSCLC) to evaluate immunotherapies, targeting human T cells	Cheatham, Christa
188	SURFACTANT PROTEIN A ENHANCES LIPID ACCUMULATION AND HEPATIC FIBROSIS IN NON-ALCOHOLIC FATTY LIVER DISEASE	Dare, Ayobami
189	FRANCISELLA TULARENSIS-INFECTED NEUTROPHILS AS TROJAN HORSES FOR INFECTION AND REPROGRAMMING OF MACROPHAGES	Escobar, Sydney
190	Alert or Absent: How Attentive is the Oviduct	Finnerty, Ryan
191	PHARMACOLOGICAL INHIBITION OF HDAC6 HAD NO EFFECT ON ANGIOTENSIN II + β -AMINOPROPIONITRILE -INDUCED ABDOMINAL AORTIC ANEURYSM IN NORMOLIPIDEMIC MICE	Frony, Ana Clara
192	Transmission Risk Assessment of H4N6 Influenza A Viruses from Avian Species to Mammals	Giri, Emily
193	POSH FUNCTION IN MURINE T CELLS	Guldenpfennig, Caitlyn
194	THE ROLE OF TRANSIENT RECEPTOR POTENTIAL VANILLOID 4 IN CARDIAC AUTOPHAGY	Hayden, Matthew
195	THE EFFECT OF MIG-6 ABLATION ON ENDOMETRIOSIS-RELATED INFERTILITY IN MOUSE MODEL	Hosseiniard, Hossein
196	HUMAN BOCAVIRUS 1 MUSCLE TRANSDUCTION EFFICIENCY FOLLOWING LOCAL INJECTIONS IN A MURINE DMD MODEL	Hu, Bryan
197	UNDERSTANDING AND ANALYZING THE HL7 MESSAGES DATA OF THE MISSOURI IMMUNIZATION INFORMATION SYSTEMS 'SHOWMEVAX'	Islam, Muhammad Muinul
198	LUNG TUMOR INDUCTION IN A TRANSGENIC ONCOPIG MODEL	Joshi, Kirtan
199	Free Driving Lessons to reduce Motor Vehicle Accidents (MVA) - The Tenth leading cause of death in Missouri.-- CHS Dean's Winner	KANU, UGONNA
200	EXTENDED LIFESPAN AND ATYPICAL DEATH OF HELICOBACTER PYLORI-INFECTED HUMAN NEUTROPHILS	Khuu, Lisa
201	THE EFFECT OF OBESITY IN THE MURINE ENDOMETRIAL CANCER WITH PTEN MUTATION	Kim, Keun Cheon
202	Identification of medical countermeasures for mustard-induced corneal blindness using RNA-seq analysis	Kumar , Rajnish
203	Sulfur Mustard Exposure Disrupts Transmembrane Water Channel Proteins In Rabbit Corneas in vivo	Lankau, Brenden
204	VASCULAR SMOOTH MUSCLE CELL MECHANICAL STRETCH MODULATES TISSUE TRANSGLUTAMINASE ACTIVITY AND CYTOSKELETAL ARCHITECTURE	Lateef, Olubodun
205	DIGITAL LIGHT 4D-PRINTING OF BIORESORBABLE SHAPE MEMORY ELASTOMERS FOR PERSONALIZED BIOMEDICAL IMPLANTATION	Mahjoubnia, Alireza
206	Signaling crosstalk between dipeptidyl peptidase 4 and angiotensin II-AT1R plays a role in proximal tubule NHE3 regulation	Martins, Flavia
207	TRENDS IN TRUSTED SOURCES FOR VACCINE INFORMATION	Maturino, Kassandra
208	STANDARDIZED COMPLEX GUT MICROBIOMES AFFECT BODY WEIGHT AND SELECT AUTISM SPECTRUM DISORDER-RELATED BEHAVIORS IN THE BTBR T+ Itpr3tf/J MOUSE	McAdams, Zachary
209	Metabolic Profiling of Aqueous Humor from Glaucoma Patients Identifies Metabolites with Anti-neuroinflammatory/ Neuroprotective Properties. - SOM Dean's Winner	Monu

CATEGORY II: GRADUATE STUDENTS, RESIDENTS, AND POST-DOCTORAL FELLOWS**BASIC SCIENCE**

Poster Number	Title of Abstract	First Author
210	OVEREXPRESSION OF MIG-6 SUPPRESS TUMORIGENESIS OF ENDOMETRIAL CANCER WITH PTEN DEFICIENCY BY MODULATING IMMUNE PATHWAYS	Nahar, Shamsun
211	THE EFFECT OF HDAC3 LOSS IN ENDOMETRIOSIS-RELATED INFERTILITY.	Nguyen, Loan Thi Kim
212	WESTERN DIET PROMOTES INTRATUMOR BACTERIA COLONIZATION AND ADVANCES PANCREATIC CANCER DEVELOPMENT	Olaoba, Olamide
213	CD81-Mediated Perturbations in Cancer Small Extracellular Vesicle Dictates its Molecular Landscape and Function	Paramanantham, Anjugam
214	MRI NEUROIMAGING OF BRAIN REMODELING IN WESTERN DIET INDUCED OBESE MICE	Pathak, Ishan
215	SMOOTH MUSCLE CELL SPECIFIC BECLIN-1 DEFICIENCY SPONTANEOUSLY ACCELERATES ABDOMINAL AORTIC ANEURYSM AND PROMOTES ANGIOTENSIN II-INDUCED AORTIC RUPTURE IN MICE	Ramesh, Nithya
216	ADVANCED MOLECULAR IMAGING IN VIVO OF THE PROBIOTIC L. LACTIS EXPRESSING FLUORESCENT PROTEINS TO MONITOR TRANSIT THROUGH THE GASTROINTESTINAL TRACT	Ramos-Gonzalez, Martin
218	DEVELOPMENT AND VALIDATION OF LARGE ANIMAL MODELS FOR ACUTE FRACTURE-RELATED INFECTIONS	Rigden, Bryce
219	CARDIOMYOCYTE-SPECIFIC OVEREXPRESSION OF LARP6 PROTECTS AGAINST ANGIOTENSIN II-INDUCED CARDIAC FIBROSIS AND DYSFUNCTION	Russell, Jacob
220	A NOVEL METHOD FOR CLINICAL CORNEAL NEOVASCULARIZATION SEVERITY IN LIVE ANIMALS EMPLOYING AUTOMATION ALGORITHM	Sinha, Prashant
221	MODULATION OF ALLOREACTIVE RESPONSES BY CONTROLLED DUAL DELIVERY OF FAS AND IL-2R AGONISTS USING A COACERVATES PLATFORM	Tedla, Mebrahtu
222	Syncytiotrophoblast subtypes revealed by single nucleus RNA sequencing, immunocytochemistry and fluorescence-activated nuclear sorting of trophoblast derived from primed-type human pluripotent stem cells	Teka, Khan
223	ARG1 AS A PREDICTOR OF METASTATIC AND RECURRENT ENDOMETRIAL CANCER	Tran, Dinh Nam

CATEGORY II: GRADUATE STUDENTS, RESIDENTS, AND POST-DOCTORAL FELLOWS**CLINICAL SCIENCE**

Poster Number	Title of Abstract	First Author
224	COVID-19 tracheostomy outcomes - A Retrospective Institutional Review	Baker, Austin
225	RARE CASE OF B-CELL ACUTE LYMPHOBLASTIC LEUKEMIA WITH T(14;14)(q11.2;q32)	Banker, Linnea
226	EFFECT OF CIRCADIAN RHYTHM ON LABOR INDUCTION	Cataldo, Kylie
227	EFFECT OF ORPHENADRINE ADMINISTRATION IN THE POST ANESTHESIA CARE UNIT ON POSTOPERATIVE PAIN CONTROL AND OPIOID UTILIZATION: A RETROSPECTIVE STUDY	Cruz, Jordan
228	THE IMPACT OF AN ENHANCED DATA VISUALIZATION TOOL FOR HYPERTENSION IN THE ELECTRONIC HEALTH RECORD ON PHYSICIAN JUDGMENTS ABOUT HYPERTENSION CONTROL	Duan, Sean
229	USING ARTIFICIAL INTELLIGENCE TO IMPROVE READABILITY AND COMPREHENSION OF INFORMED CONSENT FORMS FOR ORTHOPAEDIC CLINICAL TRIALS	Fletcher, Bryce
230	SOCIAL DETERMINANTS OF HEALTH ARE ASSOCIATED WITH POORER PERIPHERAL NERVE RECONSTRUCTION OUTCOMES	Fletcher, Bryce
231	Prolonged Neurologic Impairment Following High Dose Intrathecal Methotrexate, Inpatient Rehabilitation Outcome: A Case Report	Goldblum, Andrew
232	RACIAL DISPARITIES AMONG PATIENTS DIAGNOSED WITH COLORECTAL CANCER IN THE UNITED STATES	Islam, Hadie
233	IS RACE ASSOCIATED WITH REFERRAL DISPARITIES FOR PATIENTS WITH DIABETIC FOOT COMPLICATIONS?	Khaleel, Mubinah
234	COMPARISON OF OUTCOMES AFTER PRIMARY OR SALVAGE OSTEOCHONDRAL ALLOGRAFT TRANSPLANTATION FOR TREATMENT OF FEMORAL CONDYLE OSTEOCHONDRITIS DISSECANS LESIONS	Khaleel, Mubinah
235	Clinicopathologic Features of Gastrointestinal Endometriosis and Endosalpingiosis: A Single Institution Experience	Kiran
236	PROTEIN BIOMARKERS CAN DISTINGUISH SYMPTOMATIC FROM ASYMPTOMATIC DEGENERATIVE LUMBAR INTERVERTEBRAL DISCS	Kramer, Jacob
237	EFFECT OF SHORTER VERSUS LONGER SLEEP ON CEREBRAL BLOOD FLOW IN HEALTHY HUMANS	Marsh, Megan L.
238	IMPACT OF ACUTE SEDENTARY TIME ON CEREBRAL BLOOD FLOW AND NEUROVASCULAR COUPLING IN HEALTHY YOUNG ADULTS	McDonald, Matthew
239	CRAVING, SLEEP, AND ALCOHOL USE IN EMERGING ADULTS	Moskal, Katie
240	DIETARY INTAKE OF VITAMIN E AND LIVER FAT IN NONALCOHOLIC FATTY LIVER DISEASE (NAFLD)	Myer, Jessica
241	BRIDGING THE GAPS: HOW K-12 OUTREACH PROGRAMS CAN HELP DIVERSIFY ORTHOPAEDICS	Njai, Abdoulie
243	Non-localizing 4D-CT for parathyroid adenoma: Patient characteristics and surgical outcomes	Oudin, Edouard
244	IMPACT OF RESIDENT AND ATTENDING SURGEON TRAINING LEVEL ON FREE TISSUE TRANSFER ISCHEMIA TIME AND COMPLICATIONS	Porter, Brooke
245	The ASIA A Who Walked: Acute Inpatient and Intensive Outpatient Rehabilitation Leads to Progression from AIS A to AIS D Spinal Cord Injury	Rahman, Rafid
246	IMPROVED ADHERENCE TO SWALLOWING REHABILITATION PROGRAM WITH USE OF MOTOR IMAGERY	Reichl, Kaitlyn
247	A UNIQUE CASE PRESENTATION OF PEDIATRIC SPINAL EPENDYMOMA WITH CHROMOTHRIPSIS OF CHROMOSOME 6: CASE REPORT	Scott, Keela
248	IMPLEMENTING BEHAVIORAL SLEEP MEDICINE IN ALCOHOL TREATMENT SETTINGS: WHAT ARE THE SLEEP COMPLAINTS?	Shoemaker, Sydney
249	DOES GASTRIC BYPASS SURGERY INCREASE THE RISK OF COMPLICATIONS FOLLOWING FRACTURE ORIF?	Smith, Conor
250	TRANSIENT PARAPLEGIA AFTER JIU JITSU SPARRING: A CASE REPORT	van Doren, Christian
251	CERVICAL AND THORACIC SPINAL CORD STIMULATOR PLACEMENT FOR THE MANAGEMENT OF PAIN IN DIFFUSE SCHWANNOMATOSIS: A CASE REPORT	Wacker, Bryan

<u>CATEGORY II: GRADUATE STUDENTS, RESIDENTS, AND POST-DOCTORAL FELLOWS</u>		
<u>CLINICAL SCIENCE</u>		
Poster Number	Title of Abstract	First Author
252	DESPITE THE RATES: MANY RURAL MOTHERS WANT TO BREASTFEED THEIR INFANTS	Weston, Karry
253	EFFECTS OF A BEHAVIORAL HEALTH PROGRAM ON GRAFT SURVIVAL RATES AFTER OSTEOCHONDRAL ALLOGRAFT TRANSPLANTATION IN THE KNEE	Williams, Jonathan
254	THE CRISTA OVALE A CONSTANT MIDDLE CRANIAL FOSSA LANDMARK: A COMPUTER TOMOGRAPHIC IMAGING ANATOMICAL EVALUATION	Yanez-Siller, Juan Carlos