

July 25 - 26

2024

RESEARCH SYMPOSIUM.

**Indiana Medical Student Program for
Research and Scholarship**

Van Nuys Medical Science Building

AM Session @ 10AM-Noon EST

PM Session @ 1-3PM EST



INDIANA UNIVERSITY
SCHOOL OF MEDICINE



2024 IMPRS Symposium
July 25, 2024-Day 1 - AM Session

Poster Number	Student's First Name	Student's Last Name	Mentor's Name	Mentor's Department	PROJECT TITLE
5	Braden	Baker	Ashay Bhatwadekar	Ophthalmology	Orexin Blockers' Role in Glucose Homeostasis and Diabetic Retinopathy
55	Ammaar	Basher	Yu-Chien Wu	Radiological and imaging sciences	Pathogenesis of White Matter Hyperintensities in Alzheimer's Disease: Evidence From Postmortem Tissue Studies
32	Betsy	Benitez	Padmanabhan P Pattabiraman	Department of Ophthalmology	Sterol regulatory element binding proteins upregulate actin polymerization and cytoskeletal rearrangement in human trabecular meshwork cells
31	Mateo	Blair	Nicolas Barros	Infectious Disease	US ADI, Healthcare Usage and Other SES Factors' Impacts on Antimicrobial Resistant Bacteria in Cholangitis
54	Brandon	Block	Yoshikazu Imanishi	Ophthalmology	Light-Dependent Structural Changes in Photoreceptor Neurons Imaged by OCT
27	Kofi	Boahene	Meichen Yu	Radiology	Progression of Neuropsychiatric Symptoms and Cognitive Decline in Alzheimer's Disease
1	Frank	Bogan	Amir Hajrasouliha	Ophthalmology	A Clinically Interpretable Deep Learning Framework for the Detection and Grading of Diabetic Retinopathy
43	Arya	Bolla	Seethal Jacob	Pediatric Hematology and Oncology	Social Determinants of Health and Pain Coping Strategies in Pediatric Patients with Sickle Cell Disease
48	Caroline	Boyle	Tieying Hou	Department of Pathology and Laboratory Medicine	Remote Recurrence/Metastasis of Acinic Cell Carcinoma: a Case Series and Literature Review
53	Alexander	Buttars	William Thompson	Physical Therapy	Effects of Gabapentin and the $\alpha 2\delta 1$ Voltage Sensitive Calcium Channel Subunit in Skeletal Muscle
39	Sai	Chalasanani	Sahand Rahnama	Dermatology	Prevalence and Socio-Demographic Predictors of Severity in Patients with Hidradenitis Suppurativa
8	Michael	Chmiel	Brian Gray	Pediatric surgery	Use of Crescent™ RA Dual Lumen Catheter for VV ECMO Cannulation in Pediatric Patients: A Review of Early Outcomes
26	Aarthi	Chockalingam	Massood Mohammadi	Ophthalmology	Intermediate-Term Outcome of Goniotomy in Primary Open Angle Glaucoma
51	Jasmine	Clark	Vivek Halappa	Radiology	Solid renal masses on CT: Incidence of Benign vs Malignant Lesions Radiologic Pathologic Correlation
29	Savannah	Cook	Michelle Zimmerman, Rejwi Dahal, John Oyelakin-Ogunbileje	Pathology and Laboratory Medicine	Multiple Myeloma is Associated with Lower Serum Zinc and Selenium Levels and a Higher Cu/Zn Ratio
52	Joseph	Dalloul	Weiming Mao	Department of Ophthalmology	The Role of Cross-linked Actin Networks in the Proliferation and Senescence of Primary Human Trabecular Meshwork Cells
37	Karena	Dhamecha	Rupa Radhakrishnan	Radiology and Imaging Sciences	Altered Reward Network Connectivity on Resting State Functional MRI in Pregnant Women with Opioid Use Disorder
10	Bryce	Duffett	Christopher Collier	IU Orthopaedic Oncology	From Birth to Practice: An Analysis of Migration Patterns Among U.S. Orthopaedic Surgeons
14	Allison	Ellis	David Haas	OB/GYN	Characteristics of Hoosier Moms Cohort Participants for different Diabetes Polygenic Risk Score Quartiles
20	Agustina	Fainguersch	Kyla Tolliver	Pediatric Gastroenterology, Hepatology and Nutrition	Post-Operative Immunosuppression in Pediatric Liver Transplant and Associated Outcomes
18	Joshua	Gerstein	Joshua Adkinson	Department of Surgery, Division of Plastic Surgery	Parent-Reported Outcomes following Type B Ulnar Polydactyly Excision in the Clinic Versus the Operating Room
9	Alison	Hannon	Charles Vanderpool	Pediatric Gastroenterology	Severe Malnutrition: Is All Severe the Same?
22	Haley	Harkness	Linda Schutzman	Department of Surgery IUSM	Planning for Dementia Diagnoses: The Physician's Role in Developing Firearm Retirement Plans in Aging Populations
30	Danielle	Harold	Monica Forbes-Amrhein	Radiology	Evaluating the prognostic value of fetal magnetic resonance imaging measurements on postnatal pulmonary outcomes in the setting of omphalocele
25	Michaela	Harter	Martha Rodriguez	Pediatric Rheumatology	The Impact of Social Demographics, Disease Activity, and Organ Damage on Time to Diagnosis in Pediatric Systemic Lupus Erythematosus
40	Audrey	Heile	Sashil Gupta	Pediatric nephrology	Predictors of Rituximab Outcomes in Children with Nephrotic Syndrome
19	Therese	Hinkley	Kirsten Kloefer	Division of Pulmonary, Allergy, and Sleep Medicine, Department of Pediatrics	Impact of Biologics on Anxiety and Depression in Pediatric Patients with Severe Asthma
28	Benjamin	Holland	Michelle Starr	Pediatrics	Clinical Impact and Sustainability of a Standardized Neonatal Nephrology Consult Program
46	Nathan	Hubbard	Tasneem P. Sharma	Department of Ophthalmology	Determining the Therapeutic Effect of Human Neuritin 1 on the Restoration of Degenerated Retinal Ganglion Cells from Glaucoma Patients
6	Nicholas	Imperiale	Ashina Singh	GI and Hepatology	Health Insurance Status is Independently Associated with Testing for Hepatitis B in Pregnancy

2024 IMPRS Symposium
July 25, 2024-Day 1 - AM Session

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44	Carmilya	Jackson	Stacey Halum	Dept. of Otolaryngology	Characterizing the Therapeutic Potential of Human Motor Endplate Expressing Cells (MEEs)
41	Faizan	Khatib	Sean Pfaff	Interventional Radiology	Tract Embolization Effect on Bleeding Complications in Pediatric Liver and Kidney Biopsies
36	Jasmine	Khatibi	Richard Gunderman	IUSM Radiology & Imaging Services	Fostering Engagement and Initiative
3	Lillian	Klemsz	April Rahrig	Pediatric Stem Cell Transplant	Pneumatoxis Intestinalis Following Hematopoietic Stem Cell Transplant: Risk Factors, Clinical Outcomes, and Interventions in the Pediatric Population
42	Hannah	Koch	Seethal A. Jacob	Pediatric Hematology and Oncology	Neurocognitive Screening in Children and Adolescents with Sickle Cell Disease
56	Xuan	Li	Yu-Chien Wu	Radiology and Imaging Sciences	Understanding Cytoarchitectural Disorganization in a Mouse Model of AD Using Histology Informed qMRI
33	Anoop	Magesh	Padmanabhan Pattabiraman	Ophthalmology	Loss of Apolipoprotein E Results in Altered Aqueous Humor Lipidome and Reduced ERG Response in Mice
13	Michelle	Mai	Courtney Rowan	Pediatrics Research	The use of high-flow nasal cannula in pediatrics with immunocompromising conditions
45	Faith	Mikolajczyk	Tasneem P. Sharma	Ophthalmology	The Impact of Neuritin 1 on Retinal Ganglion Cell Survival in Human Donor Glaucomatous Eyes using the Translaminal Autonomous System
24	Yousif	Mukatash	Mark Tann	Diagnostic radiology	Evaluating the Role of Pretherapy Scans in Post-Thyroidectomy Thyroid Cancer Management: Predictive Value, Management Impact, and Efficacy
49	Aaron	Nanavaty	Uma Sankar	Anatomy, Cell Bio	Inhibition of CaMKK2 Decreases Osteophyte Volume in Rabbit Models of PTOA
12	Ada	Port	Clair Francomano	Medical and Molecular Genetics	Retrospective Review of Clinical Data on Patients with Hypermobile Ehlers-Danlos Syndrome: GI manifestations
11	Andrew	Puthran	Christopher Newman	Radiology and Imaging Sciences	MRI Prediction of Surgical Treatment for Juvenile Osteochondritis Dissecans (OCD)
50	Nyssa	Qiao	Uma Sankar	Anatomy, Cell Biology	Evaluation of Amobarbital and STO-609 as Therapies against PTOA in the Rabbit Model
23	Kyle	Richardson	Lynda Bonewald	Indiana Center for Musculoskeletal Health	Sex-Dependent Effects of Irisin on Bone in an Aged Mouse Model
2	Kelsey	Robinson	Amir Hajrasouliha	Ophthalmology	Assessment of the Toxicological Impact of Gold Nanoparticles on Retinal Tissue Health in Mice
47	Lucy	Salter	Tia Brodner	OB/GYN Division of REI	Investigating the Impacts of Estrogen Receptor Alpha (ER α) Deficiency on Dynamics of the Ovarian Immune Microenvironment
4	Harshavardhan	Sanaka	Arupratan Das	Ophthalmology	Glaucomatous E50K Mutation in the Optineurin Gene Causes Mitophagy Defects for Retinal Ganglion Cells but Not for Motor Neurons
7	Michael	Santoro	Ashina Singh	Gastroenterology and Hepatology	Elevated Liver Biochemistries during Pregnancy: Frequency, Clinical Characteristics and Etiologies
15	Hunter	Sego	Erica Cai	Indiana Biosciences Research Institute	Dissecting the Pancreatic Beta Cell Stress Response for Type 1 Diabetes Therapy via Genome-Scale CRISPR Screens
16	Prabhjot	Singh	Esther Soundar	Department of Pathology and Laboratory Medicine	Predicting hypocalcemia in multiple myeloma patients undergoing autologous stem cell collection
35	Victoria	Snook	Ramzy Burns	Urogynecology	A Prospective Study of the Impact of Levonorgestrel Intrauterine Devices on Sexual and Bladder Health
34	Abigail	Spencer	R. Mark Payne	Pediatric Cardiology	Evaluating TAT-FXN Therapy Efficacy on Cardiac Manifestations of Friedrich's Ataxia: Insights from Murine Models and Echocardiography
57	Angela	Tang	Yu-Chien Wu	Radiology and Imaging Services	Relationship between perivascular space burden, white matter hyperintensities, and cognitive function
17	Caden	Tuinstra	Jennifer Maratt	Gastroenterology and Hepatology	Fecal Immunochemical Test Use for Colorectal Cancer Screening in the VA: A Quality Improvement Initiative
38	Andrea	Wright	Ryan Pitman	Division of Pediatric Gastroenterology, Hepatology and Nutrition	Hammersmith Infant Neurologic Examination (HINE) in the Assessment of Infants with Dysphagia
21	Mark	Zhang	Lilian Plotkin	Anatomy, Cell Biology, and Physiology	Sexual dimorphism in the skeleton of adult and aged mice with Alzheimer's disease-related mutations

2024 IMPRS Symposium
July 25, 2024-Day 2 - PM Session

Poster Number	Student's First Name	Student's Last Name	Mentor's Name	Mentor's Department	PROJECT TITLE
53	Sabrina	Ali	Elliot A. Androphy	Dermatology	The Roles of E2 in Papillomavirus Replication
56	Dominic	Appleton	Professor Charlie Dong	Biochemistry and Molecular Biology	Tumor Suppressors in PNL3 (1148M) Tumorigenesis
30	Jacobus	Barnard	Amy Han	Department of Psychiatry	Impact of Social Determinants of Health on Stroke Severity in Northwest Indiana
21	Anish	Bedi	Craig Goergen	Weldon School of Biomedical Engineering, Purdue University	Evaluation of Murine Abdominal Aortic Aneurysms through Ultrasonography, Histology, and Scanning Electron Microscopy
55	Ritika	Bhadouriya	Rick Nelson	Department of Otolaryngology-Head and Neck Surgery	TMprss3 Associated Hearing Loss Linked to Abnormal Tight Junctions and Decreased E-Cadherin Protein Integrity in Hair Cells
26	Alison	Blodgett	Baraka Muvuka	IUSM-Northwest	Food Insecurity: An Upstream Social Determinant of 30-Day Congestive Heart Failure Readmissions
45	Lucas	Boha	Thomas Gutwein	Parkview Emergency Medicine	Retrospective Analysis of Drug Overdose Deaths in Allen County, Indiana from 2008-2023
48	Seth	Bouwer	Amy Han	Urban Medicine Program	Social Determinants of Health Factors Associated with Breast Cancer Screening in Underserved Communities of Northwest Indiana
20	Evan	Brown	Micah Smith	Orthopaedic Surgery	Efficient Adoption of Robotic Spine Surgery in a Low-Level LIF
31	Alex	Buchanan	Scott Mattson	IUH Health Cardiology	Incremental Value of Left Atrial Strain in the Identification of Patients Requiring Readmission with Heart Failure
16	Neon	Calumpang	Kyle Gospodarek	IUSM-NW	Demographic, Social, and Behavioral Predictors of Readmission for Neurodegenerative Diseases in Northwest Indiana
29	Miranda	Cash	Amy Han	Urban Medicine Program	Impact of Race and Industry on Stroke Incidence in Patients in Northwest Indiana - A Report to Advocate for Targeted Community-Based Interventions
43	Adrienne	Ceruti	Kendra Hollenbeck	Family Medicine	Reducing Death Anxiety: The Impact of Advanced Care Planning
42	Jocelyn	Chang-Stroman	Amy Han	UMP UNW	Sociodemographic Disadvantaged Adolescent Attitudes on Healthy Lifestyle Education: Variances with Career Choice
12	Austin	Clark	Baraka Muvuka	IUSM - Northwest (IUSM-NW)	Association of Socio-Demographic Factors and Social Determinants of Health with Physical Activity Level in Patients with Disabilities
25	Madeline	Cory	Megan McHenry	Pediatrics	Factors Associated with Anemia in Infants with and without HIV Exposure in Western Kenya
11	Om	Dalal	Laura Ruhl	Indiana University School of Medicine, Department of Medicine	Assessing a Community-based, Group Care Program Adapted for Pregnant and Parenting Adolescents in Western Kenya: An Acceptability and Feasibility Study
4	Bethlehem	Daniel	Matthew Turissini	Division of General Internal Medicine and Geriatrics	A Preliminary, Qualitative Review of Changes in Recovery and Independence in Patients Living with Severe Mental Illness After Transitional Home Residential Services in Eldoret, Kenya
19	Meaghan	Delaney	John Lozo	Mirror Center Interventional Cardiology	Efficacy of a Model-Enhanced Patient Education During Surgical Informed Consent
47	Mark	Delos Reyes	Baraka Muvuka, Jonathan	IUSM-Northwest (IUSM-NW)	Social Determinants of Health and Their Effects on Readmission and 30-Day Readmission in Patients with a History of Cardiovascular Interventions
24	Dairon	Denis-Diaz	Clint Bahler, M.D.	Urology	Factors Affecting Sepsis Post-TRUS Biopsy of the Prostate
50	Alexis	Dres	Baraka Muvuka	IUSM-Northwest-Gary	Social, Demographic, and Behavioral Determinants of Prolonged Hospital Stay and Readmissions for Postoperative Complications in an Urban Health Care System
9	Kelechi	Echeumuna	Marcelino Rivera	Urology	Analysis of Kidney Stone Composition in the Hispanic Population
27	Adam	Farmer	Fen-Lei Chang	IUSM-Fort Wayne	High Intensity Focused Ultrasound (HIFU) as a Safe and Effective Treatment of Essential Tremor in Older Population

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 July 25, 2024 - Day 2 - PM Session

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59	Anslyn	Freije	Elizabeth Yeh	Pharmacology and Toxicology	Validation of Rubicon's Autophagy Inhibition Function Through HUNK Phosphorylation
8	Nathan	Fuchs	Ivorine Yu	Department of Anatomy, Cell Biology, and Physiology	Analysis of Cerebral Small Vessel Changes in an APOE4 Knock-In AD Mouse Model
3	Mohammed	Ghazali	Patrick Loehrer	Hematology - Oncology	A Predictive Model for Surgical Outcomes in Thyroid Epithelial Tumors Using Clinical Data: A Step Towards Integrating Radiomics and Histopathology
52	Caroline	Gonzalez	Baraka Muvuka	IUSM-Northwest-Gary	Socioeconomic and Clinical Determinants of Progression from Ductal Carcinoma in Situ to Metastatic Breast Cancer: The Critical Role of Education, Triglyceride Levels, Blood Pressure, and Chemotherapy
14	Caleb	Gosney	Gattadahalli Seetharam	IUSME	Correlation Between Thyroid Hormone Replacement and Atrial Fibrillation Using Real World Data
44	Tyra	Grischke	Sarah Gia Quintal	Parkview Regional Medical Center	Reminder/Recall to Increase Vaccination Rates within Allen County
57	Cassidy	Hardin	Sara Quinney	Department of Obstetrics and Gynecology	UGT2B10 Variant Effects on Dexmedetomidine Metabolism Using Nicotine Studies
15	Adele	Hemmerlein	Michael Roscoe	Clinical Family Medicine	Decreased Risk of Cardiac and Vascular Complications in Patients with Alpha-1-Antitrypsin Deficiency
58	Flora	Ho	Baraka Muvuka	IUSM-Northwest-Gary	Unequal Burden of Melanoma: How Socioeconomic Status is Associated with Secondary Primary Malignancy Risk and Mortality
33	Jacob	Ingram	Yunjie Tong	Purdue University, Weldon School of Biomedical Engineering	Interplay Between Hemodynamics and Cerebrospinal Fluid Dynamics Across Brain Regions
32	Mary	Kelley	Barbara Schroeder	Vision Care/Ophthalmology	Influence of Technicians on Cataract Surgery Outcomes
46	Isabel	Knight	David Umulis	Purdue Department of Biomedical Engineering	Signal Processing and Robustness of the BMP Network during Zebrafish Embryogenesis and Dorsal Patterning
40	Keegan	Leek	Arthur Chlebowski	Family Medicine	Postoperative Depression Correlated with Obesity in Hip and Knee Osteoarthritis Patients Following Total Joint Arthroplasty Operation Using Real World Database
6	Allison	Li	Sarah Morgan Carpenter	OBGYN	Addition of Misoprostol to Double-Balloon Catheter for Cervical Ripening Associated with Improved Obstetric Outcomes
30	David	Lin	Amy Han	IUSM-Northwest-Gary	Impact of Social Determinants of Health on Stroke Severity in Northwest Indiana
54	McKenna	Major	Valerie O'Loughlin	Department of Anatomy, Cell Biology, and Physiology	Through a Different Lens: Assessing Patient and Clinician Diversity in Medical Education/Clinical Practice/Media
41	Gionte	Mason	Amy Han	IUSM-Northwest-Gary	Promoting Healthcare Careers for Minority Adolescents from the City of Gary
5	Ryan	McArdle	Jenny Morgan	Hematology/Oncology	ABCCP: A Large-Scale Breast and Cervical Cancer Co-Screening Program in Western Kenya
28	Deja	Miller-Brooks	Pankaj Dangle	Pediatric Urology at Riley	Impact of Area Deprivation Index and Health Literacy on Timely Referral and Surgical Outcomes in Children with Undescended Testes
18	Aryan	Mishra	Sanjay Mohanty	Surgery	Disparities in Timeliness of Care in Anal Cancer: A Retrospective Chart Review
10	Nicole	Neisen	Kara Garcia	IUSM Department of Radiology & Imaging Sciences	Analysis of Structural Brain Changes Suggest Localized Brain Atrophy Years Before Clinical Symptoms of Mild Cognitive Decline in Alzheimer's Disease
34	Mace	Odle	Scott Stienecker	Infectious Disease	Investigating the Impact of Patients Discharged with Urinary Catheters
1	Nathan	Pairitz	Kyle Robertson	Department of Anatomy, Cell Biology, and Physiology	"I Simply Don't Trust It": Exploring How Artificial Intelligence Fits in the Education of Healthcare Professionals
	Anna	Pressel	Kara Garcia	Neuroscience	Qualitative Analysis of Folding Morphologies of the Superior Temporal Gyrus in Brain Scans with and without a Congenital Heart Defect

2024 IMPRS Symposium
 July 25, 2024 - Day 2 - PM Session

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17	Shannon	Riegler	Jacqueline Linnes	Weldon School of Biomedical Engineering, Purdue University	Development of a Fitting Algorithm and Mobile Application for Portable Electrochemical Impedance Spectroscopy
35	Elizabeth	Roy	Hiba Mustafa	Maternal-Fetal Medicine in the Department of Obstetrics and Gynecology	Late Preterm Corticosteroid Treatment in Twin Pregnancies and Neonatal Outcomes
23	Emily	Ryan	Adrian Singson	Evansville Translational Research - Internal Medicine	Extracting Real-World Data from Heart Failure Patients with Reduced Ejection Fraction to Compare the Effects of Furosemide versus Torsemide
36	Maragelis	Santiago Rivera	Pei-Yu Hung	Oncology/Hematology	Modulating the Tumor Microenvironment in Neurofibromatosis type 1 Using RXR Agonist MSU-42011
37	Mae	Shu	Patrick Loehrer	Thymoma Clinic - Melvin Bren Simon Comprehensive Cancer Center	Optimizing CT Surveillance for Thymic Epithelial Tumors Based on Recurrence Characteristics
2	Arunabh	Sinha	Christina Scifres	Obstetrics and Gynecology	12-Month Postpartum β -cell function in Women with Pregnancy-related Glucose Intolerance
39	Austin	Snider	Amelia Roebuck	HSIR	Physical Therapy Timing: An Investigation of Physical Therapy Initiation and Case Duration, Restricted Workdays, and Imaging Utilization
51	Maggie	Sullivan	Baraka Muvuka	Research	Sociodemographic and Behavioral Determinants of Hospitalizations for Labor and Delivery Complications in an Urban Health System
50	Skyler	Thompson	Baraka Muvuka	Urban Health	Social, Demographic, and Behavioral Determinants of Prolonged Hospital Stay and Readmissions for Postoperative Complications in an Urban Health Care System
22	Evelyn	Weaver	Rebecca Sparks-Thissen	Department of Microbiology and Immunology and Pathology and Laboratory Medicine	Exploring the Correlation Between Developmental Speech and Language Disorders and Alzheimer's Disease and Vascular Dementia
38	Erik	Wilhelm	Amy Souers	Parkview Hospital; Professional Emergency Physicians, PC	Outcomes Associated with Mechanical CPR Devices
60	Nicholas	Yagodinski	Zineb Ammous	The Community Health Clinic	Zellweger Spectrum Disorder in the Old Order Amish Study
7	Sydney	Young	Amy Han	Department of Psychiatry	ADHD and Sleep-Disordered Breathing in the Pediatric Population - Comparing Real-World Prevalence to Literature Estimates
13	Elizabeth	Zenni	Utpal Davé	Medicine Division of Hematology/Oncology	CMV Antigenic Stimulation in Disease Process of Cell Large Granular Leukemia
49	Grace	Zhou	Jonathan Guerrero	Assistant Professor of Clinical Pharmacology and Toxicology	Social Determinants of Vision Health: Characterizing Ophthalmic Readmissions in Northwest Indiana

2024 IMPRS Symposium
July 26, 2024-Day 2 - AM Session

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36	Midtzar	Alexis	Niki Messmore	AmeriCorps	Mental Health Literacy Assessment Among Black Girls ages 6-16
3	Adhitya	Balaji	Thomas Lardaro	Emergency Medicine	6-Month Retrospective Review of Level I Trauma Center Referrals within a Regional Healthcare System
39	Conner	Barnes	Randy Brutkiewicz	Microbiology and Immunology	MR1/MAIT Cell Axis Activation in Alzheimer's Disease Pathology Mediated by the PI3K/AKT Cell Signaling Pathway
37	Makala	Blakely	Niki Messmore	AmeriCorps	Mental Health Literacy Assessment Among Black Girls ages 6-16
65	Nicholas	Blundell	Dimitrios Stefanidis	Department of Surgery	Weight Recurrence in the Long-Term Following Roux-en-Y Gastric Bypass and Sleeve gastrectomy: Systematic Review
11	Arlec	Cabrera	Matthew W. Pease	Neurological Surgery	Association of Post-Traumatic Epilepsy on Recovery from Severe Traumatic Brain Injury: Sliding Scale Approach
30	Gloria Victoria	Cabrero	Rebecca Rivera	GENERAL INTERNAL MEDICINE	FoodRx: Exploring Disparities in Food Insecurity and Eye Health Conditions
54	Raul	Castro	Niki Messmore	AmeriCorps	The Impact of Community-Centered Organization Health Referral Services on Healthcare Accessibility in the Hispanic/Latino Population
9	Grace	Charpentier	Nicolas Barros	Infectious Disease	Antifungal Therapy after Candida-Positive Bile Cultures: Impact on Patient Prognosis
22	Jared	Clark	Andreia Alexander	IUSM Department of Emergency Medicine	Enhancing Inclusivity: Implementation of a DEI/Health Equity Checklist in Emergency Medicine Resident Didactic Presentations
45	Brendan	Devine	Sikandar Khan	Division of Pulmonary and Critical Care Medicine	Plasma Tau Biomarker Levels in ICU Delirium Survivors
14	Princess Vilan	Ferguson-Nguyen	Ravi Bamba	Department of Plastic Surgery	Breast Implant Illness - Long-term Impact of Explantation and Capsulectomy
41	Kyle	Gannon	Sikandar Khan	Center for Aging Research	Neurofilament Light Chain and Delirium in ICU Patients: A Study on Neuronal Damage Indicators
55	Yordanos	Gebbru	Niki Messmore	AmeriCorps	The Impact of Community-Centered Organization Health Referral Services on Healthcare Accessibility in the Hispanic/Latino Population
60	Andrew	Gettelfinger	Alexander B. Niculescu	Department of Psychiatry	Towards Drug Repurposing for the Prevention of Suicidality
26	Rhea	Gupta	Brian Gray	Pediatric Surgery	Evolution of National Trends in Interventions for Pediatric Pancreatic Pseudocysts
33	Allison	Harper	Daniel Udrea	Emergency Medicine	Incidence, Disparities, and Prevention of Environmental Hypothermia in Indiana
51	Lillian	Hatton	Anne Rietz	IU Department of Dermatology	Spatial Transcriptomics Demonstrates Tissue-Specific Differential Gene Expression in a Mouse Model of Spinal Muscular Atrophy
57	Angela	He	Kurt Kroenke	Internal Medicine	The SAD Triad and Use of PHQ-SAD Composite Scale
47	Mellisa	Hege	C. Max Schmidt	Surgical Oncology	Prophylactic Antibiotic Selection and Postoperative Complications Following Hepatectomy with Biliary Reconstruction
64	Peter	Hellwarth	Matthew Pease	Neurological Surgery	Validating AI-based Pre-operative Prediction of Glioblastoma Recurrence Location
21	Trent	Henderson	Hyun Roh	Department of Biochemistry and Molecular Biology	Effects of Endocannabinoids on Adipocyte Differentiation and Function
50	Lauren	Heniff	Niki Messmore	AmeriCorps	Social Isolation and Spiritual Practices Among Home Repairs for Good Clients in Marion County
29	Mitchell	Holland	Benjamin Nti	Emergency Medicine	Feasibility of Implementing a Hospital-Wide Ultrasound-Guided Peripheral Intravenous Access Training Program for Nurses
38	Mikayla	Hubbard	Rick F. Nelson	Otolaryngology - Head & Neck Surgery	Implications of Endocochlear Potential and Endolymph Potassium Concentration in TMPRSS3-Related Hearing Loss
40	Gabrielle	Johnson	Matthew Pease	Neurosurgery	Multi-reader Prognostication of Severe Traumatic Brain Injury
31	Ian	Jones	Carmella Evans Molina	Center for Diabetes and Metabolic Diseases	HbA1C vs. Glucose Management Indicator (GMI) as accurate predictors of blood glucose control in a VA based population
15	Joshua	Jun	Michael Eadon	Division of Nephrology	CBD Mediated Lymphocyte Toxicity
62	Daniel	Konig	Mithun Sinha	Department of Surgery, Division of Plastic Surgery	Using Artificial Intelligence to Automate the Quantification of Bacteria in Biofilms
2	Amol	Kular	Yar Yeap	IUSM Department of Anesthesia	0.5% Bupivacaine Provides Additional Analgesia Than 0.25% Bupivacaine In Fascia Iliaca Blocks For Periacetabular Osteotomy
7	Matt	Lansing	Jasser Khairallah	Addiction Medicine	Addressing Physician Treatment Bias in Chronic Pain Care with AI-Generated Virtual Patient Simulations

2024 IMPRS Symposium
July 26, 2024-Day 2 - AM Session

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6	Laura	Lemen	Diane Kuhn	Emergency Medicine	A Scoping Review of the Implementation of Patient-Reported Outcome and Experience Measures in the Emergency Department
46	Nathaniel	Lin	Alexandria D. McDow	Department of Surgery	Primary Hyperparathyroidism Delays to Surgical Visit: Associations with Socioeconomic Status
18	Sarah	Maarouf	Anita Haggstrom	Pediatric Dermatology	Dental Abnormalities in Congenital Ichthyoses: Case Report and Review of the Literature
56	Cesar	Mares	Natalie Guerrero	Department of Pediatrics, IUSM	The Role of Parental Support in Buffering the Negative Impacts of Racial-Ethnic Discrimination on Mental Health among Latine Adolescents
42	Taylor	Marquez	Brittany Needham	Stark Neurosciences Research Institute, Department of Anatomy, Cell Biology and Physiology	Optimizing the Visualization of E. Coli Membrane Depolarization
52	Maria	Martinez	Eri Hashino	Department of Otolaryngology-Head and Neck Surgery	Temporal Changes in Neuronal Innervation during Human Inner Ear Organoid Development
5	Gabriela	Mauro	Niki Messmore	AmeriCorps	A Review of Trusted Sources and Preferred Health Information Sources for HPV Vaccination of Latinx Adults
1	Davis	Meadors	Matthew Aalsma	Pediatrics	"We Would be the First to Catch Something": A Qualitative Analysis of Suicide Risk Screening and Intervention in Pediatric Primary Care for Protocol Development
43	Wynne	Milhouse	Lindsey Kirkpatrick	Pediatric Infectious Disease	Pediatric Histoplasmosis in the Midwest: A Retrospective Chart Review
61	Aakash	Nagarapu	Emily Sims	Biochemistry & Molecular Biology	Understanding Reasons for Non-Participation in Type 1 Diabetes Clinical Trials
28	Kian	Naimi Shirazi	Michael Bushey	Psychiatry	Exposure to and Helpfulness of Treatment Modalities in Patients with Chronic Pain
66	Amber	Nelson	Joan Cooks-Mill	Pediatrics; Microbiology and Immunology	
63	Kaitlyn	O'Donnell	Rick Nelson	Otolaryngology -Head and Neck Surgery	Using Implementation Science to Advance Hearing Healthy Equity in Older Adults
27	Erin	O'Farrell	Nicholas Pettit	Emergency Department	Exploring Lung Cancer Screening in the ED: Collecting Patient and Provider Insights
59	Aditi	Ravikumar	Bradley Bohnstedt	Neurosurgery	Three-Dimensional Modelling of Anterior Communicating Artery Aneurysm for Surgical Simulation
34	Isabella	Rodriguez	Tuan M Tran	Division of Infectious Diseases within the Department of Medicine	Induction of P53 in monocytes during co-culture of PBMCs with P. falciparum is partially mediated by IFN γ
17	Noor	Said	Amelia Linnemann; Carmella Evans-Molina	Pediatrics; Center for Diabetes and Metabolic Diseases	COVID-19-Related Diabetes: Analysis and Grading of Research Using NOS and NHLBI Quality Assessment Tools
25	Suzanne	Scanameo	Niki Messmore	AmeriCorps	Evaluating the Efficacy and Utilization of Financial Assistance in the Justice-Involved Recovery Population
49	Nicholas	Sergiwa	C. Max Schmidt	Surgery	Risk Factors for Morbidity After Hepatectomy for Intrahepatic Cholangiocarcinoma
16	Ahsan	Siddiqui	Helen Bernie	Urology	Clomiphene Citrate therapy effects on lipid panels in men with hypogonadism
23	Haley	Sieg	Niki Messmore	AmeriCorps	Evaluating Differences in Clinician vs Caregiver Values and Language Surrounding Adaptive Dance Intervention Targets
8	Julian	Spangler	Matthew Landman	Trauma Surgery	Analyzing the Effectiveness of a Pre-Arrival Time-Out in Pediatric Trauma Resuscitations
24	Jacob	Steffen	Sanjay Mohanty	Surgery	Evaluating Geriatric Vulnerability in Patients Undergoing Major Elective Surgery
20	Michael	Sundahl	Angela Richardson	Neurosurgery	Effect of Decreased Oxygen Tension on Glioblastoma Cell Migration
13	Za	Thluai	Niki Messmore	AmeriCorps	Barriers to Utilization of Mental Health Services Among Burmese Americans
10	Gavin	Thompson	Niki Messmore	AmeriCorps	Assessing Health Promotion Needs Among Immigrant Haitians in Central Indiana: A Literature Review
12	Caroline	Vieira	Alexandria D. McDow	Department of Surgery	Associations between Primary Hyperparathyroidism and Social Determinants of Health

2024 IMPRS Symposium
 July 26, 2024-Day 2 - AM Session

Poster Number	Student's First Name	Student's Last Name	Mentor's Name	Mentor's Department	PROJECT TITLE
48	Jonathan	Vore	Stephen Schlecht	Orthopaedic Surgery	Repeated Valgus Loading and Medial Elbow Soft Tissue Integrity; An Ex Vivo Murine Model for Elbow Overuse of the UCL Anterior Bundle
32	Emily	Wachner	Niki Messmore	AmeriCorps	Healthcare Needs of Unsheltered People Experiencing Homelessness
35	Alyssa	Walker	Ed Greenfield	Orthopaedic Surgery	Long Term Effects of Transient Romidepsin Exposure on Osteosarcoma Sarcospheres
19	Amanda	Wissmann	Brian W. Gray	Pediatric Surgery	Difficult Cannulations in Neonatal and Pediatric ECMO: Illuminating Obstructions to Timely Therapy
58	William	Wright	Fletcher White	Stark Neuroscience Research Institute	Thermographic and Sensory Sensitivity Changes in Patients with Ankle Fracture - a Preliminary Study
4	Jessica	Yorgason	Tami Hannon	Pediatric Endocrinology	A Mindfulness-Based Intervention for Adolescents with Prediabetes or Type 2 Diabetes
44	Grace	Young	Janice L. Farlow	Otolaryngology - Head and Neck Surgery	Pilot Study: Patient Reported Outcomes Monitoring for Head and Neck Mucosal Squamous Cell Carcinoma
53	Ian	Zweifel	Erin Weber	Surgery	The Effect of Beta-Caryophyllene (BCP) on c-Jun Expression: Implications for Peripheral Nerve Regeneration.

2024 IMPRS Symposium
July 26, 2024-Day 2 - PM Session

Poster Number	Student's First Name	Student's Last Name	Mentor's Name	Mentor's Department	PROJECT TITLE
38	Michael	Aboukhaled	Mark Walsh	Emergency Medicine Physician at St. Joseph Regional Medical Center	Markers of Futile Resuscitation in Traumatic Hemorrhage: A Review of the Evidence and a Proposal for Futility Time-Outs During Massive Transfusion
27	Khunsha	Ahmed	Niki Messmore	AmeriCorps	Exploring Barriers to Healthcare through the Transition of Care of Congolese Refugees: A Multi-Method Qualitative Study
17	Omar	Almakki	Brett Graham	Medical & Molecular Genetics	Droplet digital PCR shows that the 18S rRNA gene has variable copy number in mice
39	Karthik	Annamalai	Meijing Wang	Surgery	Mesenchymal Stem Cell Secretome in Cardiomyocyte Mitochondrial Function: A Potential Strategy to Improving Preservation of Hearts Donated After Circulatory Death
6	Haniya	Ansari	Niki Messmore	AmeriCorps	Assessing the Need for Trauma-Informed Care Training for Healthcare Professionals Serving the Unhoused Population
43	Francisco	Aponte	Melissa Fishel	Tumor/Cancer Biology	Optimization of qPCR-based Mitochondrial DNA Copy Number Assay following Ref-1 Inhibition in Pancreatic Cancer Cells
47	Ethan	Barksdale	Benjamin Landis	Department of Pediatrics, Cardiology	Single-Cell Fixed RNA Gene Expression Profiling in Thoracic Aortopathy
54	Jonathan	Benitez	Burcin Ekser	Transplant Surgery	The Role of Aorta-Hepatic Conduits in Liver Transplantation
57	Matthew	Blango	Niki Messmore	AmeriCorps	Understanding the Impact of Secondary Trauma: A Quick Review
41	Ian	Burke	Melissa A. Kacena	Orthopaedic Surgery	Novel Role of Megakaryocytes in the Skeletal Response to Mechanical Loading
2	Riley	Burnside	Niki Messmore	AmeriCorps	A Review of HPV Vaccination in Rural LGBTQ+ Communities
55	Kevin	Carthy	Matthew Durbin	Division of Neonatal-Perinatal Medicine, Indiana University School of Medicine, Indianapolis, IN	The Role of SHROOM3 in Congenital Heart Defects
26	Alexander	Cartwright	John Austin Lee	Department of Emergency Medicine	Evaluation of Emergency Department Urgent Primary Care Follow-Up Protocol
4	Sebastian	Castillo	Niki Messmore	AmeriCorps	Assessing Child Sexual Abuse Preventative Education Programs and Factors of Disclosure Rates
29	Emily	Chestnut	Burcin Ekser	Transplant Surgery	Generation of Cholangiocyte Organoids Using Human Primary and Immortalized Intrahepatic Cholangiocytes
45	Supriya	Chittajallu	Michael P. Murphy	Department of Surgery	Potential Role of Cigarette Smoke Exposure on Elastin Sensitization and Aortic Pathophysiology in a Mouse Model of Abdominal Aortic Aneurysm
46	Isaias	Colon	Jenifer Proserpi	Biochemistry & Molecular Biology	Sensitization of APC knock-out cells to Doxorubicin in vitro using KU55933, an ATM inhibitor.
28	Alexandra	Cranston	Nathan Alves	Department of Emergency Medicine	Exploring the Impact of Plasmin Inhibitors on Clotting Characteristics as a Novel Therapeutic for Thromboembolic Events
16	Nathaniel	Dunbar	Heba Ismail	Department of Pediatrics	Differences in Reported Dietary Habits Among Adolescents with Type 1 Diabetes with Different Body Mass Indices
37	Rilee	Epley	Michael Meneghini	Orthopedic Surgery	Kidney Function and Mortality Following Two-Stage Revision Total Joint Arthroplasty for Periprosthetic Joint Infection
19	Erin	Garzella	Sazzad Hassan	Surgery	Effects of a novel isoform selective Hsp90 β inhibitor to combat esophageal adenocarcinoma alone and in combination with Lapatinib
23	Cole	Hennigan	Dr Michael P Murphy	Vascular Surgery	Encapsulated Induced Pluripotent Stem Cell Derived Mesenchymal Stromal Cells Promote Muscle Regeneration in a Diabetic Mouse Model of Critical Limb Threatening Ischemia
36	Elise	Hogarth	Yu-Chien Wu	Radiology & Imaging Sciences	Investigating the Associations Between the Perivascular Space, Age, and Cognitive Function in Cognitively Normal and Impaired Individuals
12	Tien-Lu	Huang	Temitope Erinosh	IU School of Public Health	Community Gardening: Strengthening a Rural Community-Academic Partnership
9	Alexandra	Hurlock	Stephanie Ware	Medical & Molecular Genetics	Clinical Analysis of Genetic Testing Performed in the Cardiomyopathy and Connective Tissue Disorder Cohorts of a Pediatric Genetics Cardiovascular Program

2024 IMPRS Symposium
July 26, 2024-Day 2 - PM Session

Poster Number	Student's First Name	Student's Last Name	Mentor's Name	Mentor's Department	PROJECT TITLE
11	Ike	Izah	Polly Husmann	Associate Professor Anatomy, Cell Biology & Physiology	Closing the Gate-kept Gap: How Providing Free Official Electronic Study Materials Can Improve Student Satisfaction and Confidence
1	Mohammad	Khan	Raghunandan Motaganahalli	Vascular Surgery	A Comparative Analysis of Re-thrombosis Rates in Acute Lower Limb Ischemia Patients Undergoing Percutaneous Mechanical Thrombectomy vs. Open Thrombectomy
34	Susie	Kim	Heidi Beidinger-Burnett	Eck Institute for Global Health	Implementation of Indiana's Universal Blood Lead Testing Mandate: Interviews with Primary Care Practices in Michiana
7	Aniffa	Kouton	Raghu Motaganahalli	Division of Vascular Surgery	Better Long-Term Success for Patients With Chronic Mesenteric Ischemia Undergoing Open Repair
32	Arnelle	Ky	Nana Gletsu-Miller	Indiana University School of Public Health, Department of Applied Health Science	Identifying the Reference Range of Ionized Magnesium in Healthy Adults - A Study Protocol
52	John Paul	Lewis	Leonard Buller	Orthopaedics and Sports Medicine	The Impact of Preoperative Weight Loss on 90-Day Complications Following Primary Total Knee Arthroplasty (TKA)
58	Noor	Malik	Andrew Gonzalez	Surgery	
51	Tommy	McEvelly	Niki Messmore	AmeriCorps	The Efficacy of an FQHC's Homeless Initiative Program in Reducing Emergency Department Recidivism for Unhoused Populations
13	Blair	Miller	Niki Messmore	AmeriCorps	Considerations for Training Programs on Behavioral Intervention for Children with Neurodivergence
21	Anna	Montelongo	Melissa Pangelinan	Kinesiology	Efficacy of pharmacological interventions to treat and prevent Alzheimer's disease in individuals with Down syndrome
18	Andrew	Nguyen	Karmen Yoder	Radiology and Imaging Sciences	Effect of Cigarette Smoking and Alcohol Use on White Matter Tract Integrity
3	abigail	olbina	Sikandar Khan	Pulmonology and Critical Care; Indiana University Center of Aging Research	Analysis of Amyloid Beta Plasma Biomarkers in Intensive Care Unit Delirium Survivors
56	Zoe	Orrell	Sylk Sotto	Department of Medicine, All IN for Health, I-CTSI	Trust in Biomedical Research - Insights from the Researchers' Perspective
50	Tyler	Osborne	Scott Canfield	Anatomy, Cell Biology & Physiology	The Effects of Propofol on Efflux Transporter Activity in a Human Stem Cell-Derived Neurovascular Unit Model.
5	Cooper	Parish	Melissa Kacena	Orthopaedic Surgery	Assessing Mouse Model Based Femur mRUST Scores via Intelligent Fracture Detection and Deep Learning Neural Networks
10	Viraj	Patel	Melissa Pangelinan	School of Public Health	Clinical Staff Satisfaction and Perspectives on the Impact of Care Coordination for Children with Medical Complexity: A Mixed-Methods Study
42	Muskaan	Ramchandani	Greg Westin	Division of Vascular Surgery	Nutrition Deficiencies are Associated with Decreased Wound Healing in Patients with Peripheral Arterial Disease (PAD)
40	Mitchel	Ramos	Niranjan Awasthi	Harper Cancer Research Institute, University of Notre Dame, Notre Dame, IN, USA.	MRTX1133, a KRASG12D Inhibitor, Exhibits Significant Antitumor Activity and Enhances Nanoparticle-Paclitaxel-Based Chemotherapy Response in Pancreatic Cancer
49	Brandon	Reyes	Niki Messmore	Hoosier Public Health Corps	Surveying HPV Vaccination Status and Identifying Barriers within the Burmese Community in Indianapolis
30	Kyle	Rusin	Kelly N. H. Nudelman	Department of Medical and Molecular Genetics	Genetics of Early-Onset Alzheimer's Disease: Investigation of Rare Variants in the LEADS Cohort
22	Kayley	Ryan	Christine Motzkus	Emergency Medicine	Emergency Medicine Residency Program Expansion and Characteristics of Rural Rotations
14	Leslie	Sarabia	Nicole Fowler	IU Center for Aging . Regenstrief institute	Decisional Conflict in Medical Decision Making Among Dementia Caregivers
25	Carter	Shaw	Scott Canfield	Anatomy, Cell Biology & Physiology	Evaluating the Effects of Propofol on Transcytosis in a Human Stem Cell-Derived Blood Brain Barrier Model
48	Kamal	Singh	Niki Messmore	AmeriCorps	Social Connectedness and its Importance on Mental Health in the Elderly Population
44	Isabella	Small	Courtney Rowan	Pediatric Critical Care	Potential biomarkers for early long-term pulmonary dysfunction following hematopoietic stem cell transplantation

2024 IMPRS Symposium
 July 26, 2024-Day 2 - PM Session

Poster Number	Student's First Name	Student's Last Name	Mentor's Name	Mentor's Department	PROJECT TITLE
33	eah	Smith	Tamara Hannon	Pediatric Endocrinology	Impact of the PataSchool Program: Enhanced Stakeholder Satisfaction and Improved Student Nutrition
35	Neil	Supanekar	Meijing Wang	Department of Surgery	Importance of Caveolin3 in Cardiac Mitochondrial Protection During Stress
15	Jiayu	Tian	Nicholas Harrison	Indiana University School of Medicine, Department of Emergency Medicine	Derivation of a Multivariable Model to Assist Emergency Department Triage of Heart Failure Patients by Their Diuretic Treatment Needs
8	Lily	Valentine	Stephanie Ware	Medical & Molecular Genetics and Pediatrics	Characterization of the Cardiomyopathy Multidisciplinary Clinic Patient Population
31	Garrett	Wolfram	David Boone	Department of Microbiology	Gut-to-Brain Axis: The protective role of Gastrokine-1 from Parkinson's disease
24	Casey	Woods	Niki Messmore	AmeriCorps	Eugenics in Your Backyard: OB/GYN Experiences of Unhoused Women
53	Kayla	Wroblecki	David M. Aronoff	Department of Medicine	The Regulatory Role of Folate Receptor Beta on Inflammasome Activation
20	Justin	Yu	Allison Norlander	Department of Anatomy, Cell Biology and Physiology	Effects of prostaglandin I2 signaling on the inflammatory response of dendritic cells in hypertensive and normotensive individuals