

The 3rd Annual

Medical Sciences Poster Fair

Friday, April 22, 2022 CARE/Crawley Atrium & MSB | E-Level

2:00-3:00 pm Poster Session I 3:00-4:00 pm Poster Session II

4:30 pm Presentation of Awards (Room E801C)

Biomedical Research Presentations			
Poster Board #	Presenter	Title Authors	Poster Session
1A	Weston Gaskins	Investigating random apodization to improve passive cavitation image point spread function Weston P Gaskins, Kevin J Haworth	I
1B	Shameel Abid	Formulation and characterization of submicron perfluoropentane (PFP) droplets using novel techniques Shameel Abid, Nour Al Rifai, Kevin J Haworth	II
2	Anwesa Basa	Oxygenating donor blood to physiological levels using an ex vivo lung flow phantom model Anwesa Basa*, Garth Pais*, Demetria M Fischesser, Kateryna Stone, Kevin J	I
	Garth Pais	Haworth *These authors contributed equally to the study and will each present the poster independently	II
3	Meghan Curran	Role of miR-27b on mitochondrial dysfunction Meghan R Curran, Noble K Talari, Semin Goins, Karthickeyan C Krishnan	I
4	Sydney Fillios	Adipocyte-derived exosomes inducing inflammation in transgenic mouse model Sydney R Fillios, Rupinder Gill, Takahisa Nakamura	II
5	Ronja Frigard	Relationship between parity and angina as cardiovascular disease predictors Ronja A Frigard, Michelle S Hamstra, Lauren M Thompson, Odayme Quesada	I
6	Mary Grace Kelty	Relationship of angina with non-endothelial coronary microvascular dysfunction Mary Grace Kelty, Michelle S Hamstra, Lauren M Thompson, Odayme Quesada	II
7	Aarushi Shewale	Effects of perceived stress on ischemia with non-obstructive coronary arteries in women Aarushi R Shewale, Michelle S Hamstra, Lauren M Thompson, Odayme Quesada	I
8A	Alex Hertlein	Ablation of Na ⁺ /H ⁺ exchanger-3 prevents tissue iron loading in the HFe mouse model of hereditary hemochromatosis Alex J Hertlein, Corbin R Azucenas, John P Bonamer, Sydney L Stone, T Alex Ruwe, Ali Shawki, Bryan Mackenzie	II
8B	Neel Kulkarni	Towards identifying an organic anion driving ferroportin-mediated cellular iron efflux Indraneel Kulkarni, T Alex Ruwe, Corbin R Azucenas, Chandrika N Deshpande, Tomas Ganz, Elizabeta Nemeth, Mika Jormakka, Bryan Mackenzie	1

9A			
ЭA	Nicole Keenan	Toxicity of pregnenolone sulfate in renal cells Nicole E Keenan, Steven J Kleene, Fouad T Chebib, Qingfeng Fan, Nancy K Kleene	II
9B	Caroline Klug	High fat diet impacts injury response in the small intestine Caroline J Klug, Krupaben N Patel, Kathryn Zalla, Kelli L VanDussen	I
10A	Ethan Larson	Effects of variable copper treatments on transforming growth factor-β signaling Ethan M Larson, Yu Zhang, Thomas J Whitlow, Katherine E Vest	II
10B	Helena Li	Targeting cellular nucleotide biosynthesis in leukemia cells using high-resolution mass spectrometry Helena Li, Xueheng Zhao, Junfang Zhao, Xiaomin Feng, Gang Huang, Kenneth D R Setchell	I
11A	Maria Rich	Isolation and imaging of the ADAM17 protein using electron microscopy Maria F Rich, Joseph J Maciag, Tom C M Seegar	II
11B	Nick Shaw	Isolation and crystallization of the ADAM10 prodomain for structure determination Nicholas R Shaw, Tom C M Seegar	I
12	Nicholas Russell	Wnt signaling pathway modulates ion channel expression in developing trachealis muscle cell Nicholas X Russell, Naga Burra, John Snowball, Natalia Bottasso, Debora Sinner	II
13	Aidan Wells	Role of CXCL10/CXCR3 axis in the progression of central nervous system manifestations of neuronopathic Gaucher disease	I
	Shireesh Kumar	Aidan J Wells*, Shireesh D Kumar*, Zhenting Zhang, Xiaohong Wang, Dao Pan *These authors contributed equally to the study and will each present the poster independently	II
		Biomedical Research Capstone Presentations	
Poster Board #	Presenter	Title	Poster
		Authors	Session
14	Sudar Addepalli		
14		Authors Investigating if cell of origin influences tumor phenotypes in a preclinical model of pancreatic neuroendocrine tumors	Session
	Sudar Addepalli	Authors Investigating if cell of origin influences tumor phenotypes in a preclinical model of pancreatic neuroendocrine tumors Sudarsana B Addepalli, Patrick M Krause, Amanda R Wasylishen High-throughput drug combination screen in acute myeloid leukemia - comparative anti-leukemic synergy Jackson Alexander, Eric O'Brien, Brett VanCauwenbergh, Mithun Sarangdhar,	Session I
15	Sudar Addepalli Jackson Alexander	Authors Investigating if cell of origin influences tumor phenotypes in a preclinical model of pancreatic neuroendocrine tumors Sudarsana B Addepalli, Patrick M Krause, Amanda R Wasylishen High-throughput drug combination screen in acute myeloid leukemia - comparative anti-leukemic synergy Jackson Alexander, Eric O'Brien, Brett VanCauwenbergh, Mithun Sarangdhar, Mitali Basu, John Perentesis Drug manipulation of the PERK-elF2a pathway, post-traumatic brain injury, modestly improves visual deficits without preserving retinal cells	Session I
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20	Josie Link	Role of copper in differentiation and the lysyl oxidase-transforming growth factor-β pathway Josephine A Link, Thomas J Whitlow, Katherine E Vest	I
21	Elyse Martin	Tefillin use induces preconditioning-associated changes in heart rate variability Elyse R Martin, Sheryl E Koch, Amitesh Verma, Stacey Adjei, Jack Rubinstein	II
22	Megha Mohanakrishnan	Understanding the role of Notum and Wnt5a in trachea chondrogenesis Megha Mohanakrishnan, Natalia Bottasso Arias, and Debora Sinner	I
23	Milan Parikh	Air pollutants during pregnancy associated with methylation changes in neonates Milan N Parikh, Tesfaye B Mersha, Cole Brokamp, Lili Ding, Katherine Bowers, Alonzo T Folger	II
24	Sanjeeth Rajaram	BCL6 in innate lymphoid cell epigenomics and function Sanjeeth C Rajaram, Owen Clay, David E Ochayon, Stephen N Waggoner	I
25	Reece Swoverland	Understanding response and pathway regulation in adenoid cystic carcinoma through inhibition of the EGFR and MET signaling pathways Reece J Swoverland, Maria Lehn, Kenzie Crist, Julianna Korns, Trisha Wise-Draper	II
26	Abby Tan	Pulmonary injury alters lymphatic endothelial cell (LEC) population in the mouse lung Lin Abigail H Tan, Vidushi Trivedi, Samriddhi Shukla, Tatiana Kalin	I
27	Samuel Thompson	Deciphering radiation therapy costs for head-and-neck cancer treatment across Ohio hospitals Samuel Thompson, Luke Lewis, Vinita Takiar	11
28	Khanh Tran	Mechanism of specific ubiquitin recognition by human ubiquitin-specific peptidase-16 Khanh H Tran, Samuel P Kasson, In-Kwon Kim	I
29	Veronica Velasquez	Modulating <i>Staphylococcus aureus</i> adhesion to keratinocytes in pediatric atopic dermatitis Veronica Velasquez, Arya Dahal, Matthew Schuetz, Makenna Eversole, Gurjit Khurana-Hershey, Latha Satish	II
	Biomedical	Research Capstone (Medical Informatics) Research Presentations	
Poster Board #	Presenter	Title Authors	Poster Session
30	Shwetha Bindhu	Developing a note template to improve the understanding and actionability of clinical notes for diabetic patients Shwetha Bindhu, Tripura Vithala, Hexuan Liu, Michael Binder, Hillary Liebler, Danny T Y Wu	I
31	Catherine Xu	Toward predicting physician burnout in primary care Catherine Xu, Mark H Eckman, Eric Warm, Danny Wu	II
		Medical Informatics Research Presentations	
Poster Board #	Presenter	Title Authors	Poster Session
32A	Andy Gao	Developing a data pipeline to facilitate the understanding of the interrelationships between humans and technology in smart buildings Andy Gao, Gargi Rajput, Anton Harfmann, Claudia Rebola, David W Wendell, Nicolas Williams, Michael Fry, Danny T Y Wu	I
32B	Taran Ghuman	Risk factors and algorithms to predict return to play in sports medicine: A preliminary systematic scoping review Taran Ghuman, Abraham Kim, Danny T Y Wu	II

34A	Hager Hamed	Developing a strategy to improve workflow efficiency in national registry submissions in pediatric cardiology and thoracic surgery Hager Hamed, Danny T Y Wu, Chen Xin, Nicolas Madsen, Katherine Clarke-Myers, Samuel Hanke	I
34B	Abraham Kim	Examining athletic trainers' impact on student athlete emergency room and urgent care visits using electronic health records Abraham Kim, Scott Bonnette, Chen Xin, Victoria L Graham, Kelsey Logan, Danny T Y Wu	II
35A	Anunita Nattam	Assessing the readability of patient education materials in obstetrics and gynecology Anunita Nattam, Tripura M Vithala, Mostafa Ghaderian, Greg Bond, Hexuan Liu, Amy Thompson, Danny T Y Wu	I
35B	Gargi Rajput	Exploring the sleep patterns of students in a medical sciences baccalaureate program using self-reported and wearable data Gargi Rajput, Ching-Tzu Tsai, Andy Gao, Jennifer R V Molano, Danny T Y Wu	II
36A	Ikshitha Tippi	Validating readability measures on online health information: A preliminary systematic scoping review Ikshitha Tippi, Anunita Nattam, Miah Igwe, Tripura Vithala, Hexuan Liu, Danny T Y Wu	I
36B	Tripura Vithala	Exploring the technical feasibility and the context of use of a machine-learning model predicting unplanned cancer readmissions Tripura M Vithala, Chen Xin, Adam Alexander, Amy Roberto, Davendra P S Sohal,	II
		Danny T Y Wu	
	Hea	Danny T Y Wu alth & Community Service-Learning Capstone Presentations	
Poster Board #	Hea Presenter		Poster Session
	T	alth & Community Service-Learning Capstone Presentations Title	
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Board # 37	Presenter Arhama Ahmed	alth & Community Service-Learning Capstone Presentations Title Authors Hospice of Cincinnati volunteer program: Developing methods to recruit and retain long-term young volunteers Arhama E Ahmed, Lori Asmus Investigation of adherence to health-related social need referrals and cancer prevention screenings among high-risk patients at Crossroad Health Center	Session
37 38	Presenter Arhama Ahmed Nadia Alam	Title Authors Hospice of Cincinnati volunteer program: Developing methods to recruit and retain long-term young volunteers Arhama E Ahmed, Lori Asmus Investigation of adherence to health-related social need referrals and cancer prevention screenings among high-risk patients at Crossroad Health Center Nadia Alam, Braedy Hall, Kaitlyn Christman, Rosanne Hountz, Sierra Roundtree Hospice and isolation: Providing companionship through virtual platforms Sahaja Ampolu, Michael Noyola Izquierdo Development of a preschool education program at Cincinnati Children's Hospital Medical Center	Session
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37 38 39 40	Presenter Arhama Ahmed Nadia Alam Sahaja Ampolo Osheen Oommen Ahmed Ashraf	Title Authors Hospice of Cincinnati volunteer program: Developing methods to recruit and retain long-term young volunteers Arhama E Ahmed, Lori Asmus Investigation of adherence to health-related social need referrals and cancer prevention screenings among high-risk patients at Crossroad Health Center Nadia Alam, Braedy Hall, Kaitlyn Christman, Rosanne Hountz, Sierra Roundtree Hospice and isolation: Providing companionship through virtual platforms Sahaja Ampolu, Michael Noyola Izquierdo Development of a preschool education program at Cincinnati Children's Hospital Medical Center Ahmed H Ashraf*, Osheen Oommen*, Sarah M Stienke *These authors contributed equally to the study and will each present the poster independently Implementing a pilot program addressing period poverty and its effects on local high-school students' mental health	Session I II I I

44	Teagan Benedict	Spreading awareness of medication adherence through the Cincinnati community Teagan Benedict, Lydia Bailey	I
45	Sydney Bevelhimer Derek Walton	Increasing student-led fundraising for the Dragonfly Foundation Sydney Bevelhimer§, Derek Walton§, Amy Hafner §These authors contributed equally to the study and will team-present the poster	II
46	Sachi Bhati	Addressing substance use disorder (SUD) stigma in health care Sachi Bhati, Lisa Myers, Michelle Lydenberg, Sonya Carrico	I
47	Angelo Bucci	Autism and mental health: Adjusting mental health resources that target the neurotypical population to create autism-friendly resources Angelo M Bucci, Mary H Richer, Hadia Khan, Taylor Haag	II
48	Shivane Chawla	Examining and contributing to the multifaceted impact of an arts-based non-profit for young girls and gender expansive youth Shivane Chawla, Raneem Salem	I
49	Megan Chinn	Development of a resource guide to assist the families of Reviv Family Support Foundation Megan Chinn, Tricia Lusher, Allie Rose	II
50	Saagar Chokshi	Assessing and improving the competency of healthcare providers in laboratory medicine and infectious-disease management Saagar M Chokshi, Dean Whitfield, Margaret M Powers-Fletcher	I
51	Lily Clark	Analyzing the effects of supplemental assistance and innovation on teacher burnout, student performance, and self-efficacy at Struble Elementary School in Cincinnati, Ohio Lily P Clark, Nina M Clark	II
52	Toney Deboodt	Pets for Patients: Media generation for strengthening community Toney Deboodt, Carol Bonner	I
53	Morgan Dent	Visualizing census data to communicate food insecurity in Cincinnati neighborhoods Morgan J Dent, LaToya C Bridgeman, Ioanna Paraskevopoulos	II
54	Devyn Gaskins Ananya Reddy	Monitoring data for Cincinnati Public Schools peer leadership collaboratives and implementing creativity for program visibility Devyn Gaskins§, Ananya Reddy§, Shelly Conrad §These authors contributed equally to the study and will team-present the poster	I
55	Sophia Gemelas	Sexual and gender minority health: Equity through education Sophia A Gemelas, Jessica Ball, Jalessa Hill	II
56	Sarah Geraghty	Alleviating food insecurity in lower price hill with neighborhood pantry and non-profit grocery store Sarah C Geraghty, Jenna Hippensteel, Reba Hennessey, Mary Delaney	I
57	Eva Hanson Ashley Willicut	Creating a science, technology, engineering, arts, and mathematics based human body system curriculum for students at Cincinnati Children's Hospital Eva J Hanson§, Ashley Willicut§, Sarah Steinke §These authors contributed equally to the study and will team-present the poster	II
58	Kate Juliani	Developing a lesson plan for young adolescents engaging in the First Tee Programming Kate Juliani, Ben Walker	I
59	Aneesh Kathula	Developing a resource guide to assist the patient population of Crossroad Health Center Aneesh Kathula, Jalessa Hill	II

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60	Makenna Kaufhold	Creation of mental health resources for patients in the UCMC Emergency Department Makenna G Kaufhold, Allison R Ferreri	I
61	Claire Keum Shivani Patel	Development and optimization of clinic resources for the UC Student Run Free Clinic Claire Keum§, Shivani Patel§, Trey Baird, Megan Jiang §These authors contributed equally to the study and will team-present the poster	I
62	Omair Khan Jennifer Trannguyen	Development and effects of an after-school science club for Roberts Academy Students Omair Khan§, Jennifer Trannguyen§, Michelle Judt, Tracy Power §These authors contributed equally to the study and will team-present the poster	II
63	Fatima Khan	Conducting sexual-health education seminars with female-identifying students at local Cincinnati high schools and developing specific health topic resources Fatima Z Khan, Olivia Dillman, Adam Denney	II
64	Hannah Kim	Educating the public on destigmatization of reproductive and abortion care to build safer current and future generations in Cincinnati Hannah Kim, Taylor Albright	I
65	Charlotte Kirchhoff	Development of a hospitalization and medical cases tracking system at Cincinnati Animal Care Charlotte Kirchhoff, Jamie Piccola, Laura Person	II
66	Suhas Kolli	Crossroad Health Center's community health education program: Implementation of care packages for men's health days Suhas Kolli, Olivia Dillman, Adam Denney	I
67	Hailey Kramer Miranda MicKinney Ajit Venkatrakrishnan	Organization and development of Josephine's Clinic for increased accessibility and support to target populations Hailey L Kramer§, Miranda A McKinney§, Ajit Venkatakrishnan§, Rosanne Hountz §These authors contributed equally to the study and will team-present the poster	II
68	Steven Kunz	Developing a gender-affirming care doula program at Planned Parenthood Southwest Ohio Steven J Kunz, Kimberly Mason, Mindy Berst	I
69	Jessica Langenkamp	Educating parents at Arlitt Child Development Center on the importance of play Jessica E Langenkamp and Mary E Wright	II
70	Brendan Louderback	Implementation of nurse rounding surveys to gauge and improve hospital patient-perceived quality of care Brendan Louderback, Mary Heidemann, Dana Cheyne, Jennifer Riggs, Madison Kramer	I
71	Manav Mathur	Designing an online platform to provide humanitarian aid for the crisis in Ukraine Manav Mathur, Carson Lutterloh, Bhavya Rehani	II
72	Rishi Mehta	Building effective fundraising infrastructure with the Crohn's and Colitis Foundation Rishi S Mehta, Maria Jones	I
73	Shruti Mishra	Effect of intervention programs on the reading fluency of students Shruti Mishra, Reginald Willis	II
74	Anjali Mistry	Development of a diversity, equity, and inclusion education plan for Cincinnati Children's Center for School Services staff Anjali S Mistry, Sarah M Steinke	I

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75	Rishav Mukherjee	Efficacy of educational materials on reducing vaccine hesitancy among mothers in Cincinnati Rishav Mukherjee, Meghan Nowland	II
76	Sean Percival	A plant-based solution to childhood obesity Sean Percival, Jennifer Streitmarter	I
77	Maanas Pisati	Examining the effects of caregiver stress on emotional outcomes of terminally ill patients Maanas Pisati, Marni Nash	II
78	Sai Reddy	Utilizing a social media platform as a medium to promote positive sexual-health benefits for Greater Cincinnati teenagers Sai Reddy, Adam Denney, Olivia Dillman	I
79	Allie Rioch	After-school science club for minority elementary age children in inner city schools Allie G Rioch, Tracy Power	II
80	Zachary Ritzenthaler	Bridging the gap between physical and mental health at Cincinnati Public Schools: Spreading the word about performance psychology Zachary Ritzenthaler, Craig Hanthorn, Asia Bradford	I
81	Neil Sarkar	Developing a community resource guide for families in Eastern Hamilton County with Inter Parish Ministry Food Pantry Neil Sarkar, Nicole Gordon	II
82	Tanner Schmidt Micah Pistillo Nithya Trichy	Impact of food-education programs on community health and nutrition habits Tanner Schmidt§, Micah Pistillo§, Nithya Trichy§, Annie Streitmarter §These authors contributed equally to the study and will team-present the poster	I
83	Keerthana Senthil Trevor Hay	Developing an Alexa skill for voice-command access to reading services for individuals with vision impairment Keerthana Senthil§, Trevor S Hay§, Jennifer Holladay §These authors contributed equally to the study and will team-present the poster	II
84	Anish Sharma	Evaluation of social and financial benefits of early learning Anish R Sharma, Laura Warner, Hayley Ross, Barbara Herron, Audrey Wilson	I
85	Makul Sharma	Going online: Elderly experiences of virtual electronic training services during the Covid-19 pandemic Makul Sharma, Renee Mahaffey Harris, Alice Williams, Priya Joshi	II
86	Michael Smith	Development of a survey used to quantify impact in the nutritional education sector Michael K Smith, Annie Streitmarter	I
87	Maud Sonzogni	Future leaders in public health: A program for building mutually advantageous connections with students in Hamilton County Maud M Sonzogni, Amanda Carter, Jessica Skelton	II
88	Olivia Spaulding	Expansion of operations at Ohio Alleycat Resource to increase adoption numbers Olivia H Spaulding, Sarah Schulte	Ι
89	Anya Thumma	Assessing benefits of continuing education on mental health while at a psychiatry facility Anya M Thumma, Helen Chandler-Meyer	II
90	Anshul Tyagi	Creating a 6-week wellness program for African American caregivers in Greater Cincinnati Anshul P Tyagi, Priya Joshi, Traci Sippel	1
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91	Anna Vogel	Childcare deserts: Characterizing childcare access disparities in Cincinnati neighborhoods Anna E Vogel, Mary Beth Wright, Kim Ginn	II
92	Noah Webb	Greater Project Mobile Learning Center Noah Webb, Lisa Fields	1
93	Heather Wardwell	Impact of enrichment programs on the development and education of elementary aged students Heather Wardwell, Tracy Power	_
94	Abbigail Wells	Intersection of population health and emergency medicine: Incorporating community resources into patient care Abbigail Wells, Allison Ferreri	II
95	Kristina White	The nation's promissory note: Equity and reparations in higher education Kristina L White, Tia S Gaynor	II
96	Aaron Williams	Evaluating primary-care accessibility for low-income Deaf* patients Aaron C Williams, Jessica Ball	1
97	Emily Wysocki	Preserving the human–animal bond in populations experiencing homelessness Emily Wysocki, Garrett Parsons	II
98	Sanjana Yerubandi	Development of mindful-eating exercises in cooking classes for young children Sanjana Yerubandi, Annie Streitmarter	1
99	Itama Zmora	Evaluating and providing education about the risks and availability of Δ -8-tetrahydrocannabinol Itamar Zmora, Rachel Toth, Ryley Jones, Abby Beausir	II
		Health & Community Presentations	
Poster Board #	Presenter	Title Authors	Poster Session
100	Sonali Doshi	Expanding mentorship for refugee adolescents in Cincinnati Sonali R Doshi, Adam Elzarka, Mentalla Ismail	I

Organizing Committee

Shawn Adkins, EdS MS | Assistant Director of Student Affairs
David Askew, PhD | Director of Community Service Experiences
Jenny Benkert, MSE | Senior Academic Advisor
Michele Glassmeyer | Educational Adviser
Bryan Mackenzie, PhD | Director of Research Experiences

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