

## 2021 Pediatric Research Symposium - Abstracts

| Abstract # | Award * | Author               | Abstract Title                                                                                                                                                                                                   | Abstract Category |
|------------|---------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| 1          |         | Bentley, John Kelley | Development of a mouse model of human coronavirus NL63 (HCoV-NL63) infection.                                                                                                                                    | BS                |
| 2          |         | Breen, Paul          | Itaconate inhibits the growth of Nontuberculous Mycobacterium                                                                                                                                                    | BS                |
| 3          |         | Cui, Tracy           | GELSOLIN ATTENUATES NEONATAL HYPEROXIA-INDUCED PULMONARY INFLAMMATION AND HYPOALVEOLARIZATION: IMPLICATIONS FOR NOVEL TREATMENT OF BPD                                                                           | BS                |
| 4          | *       | Diamant, Aristides   | Identification of cell-specific transcripts in brain regions important for energy homeostasis                                                                                                                    | BS                |
| 5          |         | Elkin, Elana         | TRANSCRIPTIONAL PROFILING OF THE RESPONSE TO THE TRICHLOROETHYLENE METABOLITE S (1,2 DICHLOROVINYL) L CYSTEINE REVEALED ACTIVATION OF THE EIF2A/ATF4 INTEGRATED STRESS RESPONSE IN TWO IN VITRO PLACENTAL MODELS | BS                |
| 6          |         | Peltier, Daniel      | LINC00402 IS A NOVEL REGULATOR OF ALLOGENEIC T CELL FUNCTION AND T CELL RECEPTOR SIGNAL TRANSDUCTION                                                                                                             | BS                |
| 7          | *       | Pontius, Hao Hao     | MAGNETICALLY POWERED MICROWHEEL THROMBOLYSIS OF OCCLUSIVE THROMBI IN ZEBRAFISH                                                                                                                                   | BS                |
| 8          |         | Ratner, Samantha     | SepM protease activates the blp encoded peptide pheromone in Streptococcus pneumoniae.                                                                                                                           | BS                |
| 9          |         | Yadav, Vivekanand    | ID1 is a key transcriptional regulator of DIPG invasion and is targetable with cannabidiol.                                                                                                                      | BS                |
| 10         |         | Weinberg, Jason      | INFLUENCES OF THE MICROBIOME ON DEVELOPMENT OF IMMUNOPROTEASOME ACTIVITY                                                                                                                                         | BS                |
| 11         |         | Magnani, Jessie      | RETHINKING THE RETINOPATHY OF PREMATURITY EXAMINATION: QUANTITATIVE ANALYSIS OF VEGF IN INFANT TEARS AS A BIOMARKER                                                                                              | CI                |
| 12         | *       | Ludwig, Amy          | ASTHMA IS ASSOCIATED WITH AN INCREASED RISK OF POOR OUTCOMES IN HOSPITALIZED PATIENTS WITH COVID-19                                                                                                              | CI                |
| 13         |         | Ardila, Silvia       | INCREASED INTERLEUKIN-8 LEVELS AND INTERLEUKIN-1 RECEPTOR ANTAGONIST ARE ASSOCIATED WITH ORGAN SYSTEM FAILURES IN CRITICALLY ILL CHILDREN                                                                        | CI                |
| 14         |         | Balk, Julie          | CLINICAL CHARACTERISTICS, TREATMENT PATTERNS AND OUTCOMES OF CHILDREN AND ADULTS WITH BIOPSY PROVEN MINIMAL CHANGE DISEASE FROM THE CURE GLOMERULONEPHROPATHY NETWORK STUDY (CureGN)                             | CI                |
| 15         |         | Bunke, Carissa       | A Survey of Camp Leadership to Assess Immunization Requirements, Policies and Practices in a National Cohort of Summer Camps                                                                                     | CI                |
| 16         |         | Cantor, Evan         | Serial plasma and CSF cell-free tumor DNA (cf-tDNA) tracking in diffuse midline glioma patients undergoing treatment with ONC201                                                                                 | CI                |

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| 1          |         | Bentley, John Kelley      | Development of a mouse model of human coronavirus NL63 (HCoV-NL63) infection.                                                                                   | BS                |
| 17         |         | Chan-Zlatopolsky, Krystal | ASSOCIATION BETWEEN NUMBER OF ADVERSE CHILDHOOD EXPERIENCES, ACADEMIC ACHIEVEMENT, AND EMOTION REGULATION AT KINDERGARTEN IN A NATIONALLY REPRESENTATIVE SAMPLE | CI                |
| 18         |         | Charpie, Christine        | PSYCHOLOGICAL FUNCTIONING IN PEDIATRIC PATIENTS WITH SINGLE VENTRICLE CONGENITAL HEART DISEASE: A META-ANALYSIS AND SYSTEMATIC REVIEW                           | CI                |
| 19         |         | Fisher, Jacqueline        | Measles Mumps Rubella (MMR) Vaccine Uptake During 2019 Measles Outbreak in Michigan                                                                             | CI                |
| 20         |         | Fretz, Emily              | Epidemiology of Hospitalizations for Asthma in Children in the United States 2006 - 2016                                                                        | CI                |
| 21         |         | Gabrial, Mariam           | LACK OF ASSOCIATION BETWEEN DELIRIUM AND UNPLANNED EXTUBATIONS: A CASE-CONTROL STUDY                                                                            | CI                |
| 22         |         | Gipson, Debbie            | PRECISION MEDICINE PROOF OF CONCEPT FOR TNF INHIBITION IN FSGS AND TREATMENT RESISTANT MINIMAL CHANGE DISEASE                                                   | CI                |
| 23         |         | Gruppen, Larry            | PARENTAL DECISION-MAKING IN PEDIATRICS: HEALTHCARE PROVIDERS' PERSPECTIVES & ROLES                                                                              | CI                |
| 24         |         | Holleran, Evan            | RESPIRATORY FAILURE AND SHOCK IN A 7-MONTH-OLD BOY                                                                                                              | CI                |
| 25         |         | Ismail, Malak             | Pediatric Vaccination Habits among Arab Americans in Southeastern Michigan                                                                                      | CI                |
| 26         |         | Jary, Jessica             | EFFECTS OF THE COVID-19 PANDEMIC ON INPATIENT ADMISSIONS AMONG ADOLESCENTS WITH RESTRICTIVE EATING DISORDERS                                                    | CI                |
| 27         |         | Kline, Noah               | Prevalence of Congenital Heart Disease in Infants with Congenital Cytomegalovirus Infection at a Tertiary Pediatric Hospital                                    | CI                |
| 28         |         | Leopold, Kay              | CHARACTERISTICS OF PEDIATRIC PATIENTS WITH CANDIDEMIA AND RISK FACTORS FOR DISSEMINATED CANDIDIASIS                                                             | CI                |
| 29         |         | Ngo, Sandra               | INITIAL IMPACT OF COVID-19 PANDEMIC ON PEDIATRIC ONCOLOGY CARE AND OVERALL EXPERIENCES                                                                          | CI                |
| 30         |         | Nydes, Mara               | Bilateral Pelvic Osteitis and Premature Epiphyseal Closure in Relation to Systemic Isotretinoin use in a Teenage Multi-Sport Athlete                            | CI                |
| 31         |         | Orringer, Kelly           | BILIBLANKET UTILIZATION FOR OUTPATIENT TREATMENT OF NEWBORN JAUNDICE                                                                                            | CI                |
| 32         |         | Painter, Natalia          | Assessment of a procedural curriculum using 3D printed airways to teach pediatric flexible bronchoscopy                                                         | CI                |
| 33         |         | Qussous, Khaleel          | Prospective Study of Cystic Fibrosis Patients by Microbiologic Evaluation, Lung MRI Technology and Clinical Measures Using LCI                                  | CI                |
| 34         |         | Rannefors, Rachel         | VACCINE ATTITUDES AND HOSPITALIZATION IN PEDIATRICS                                                                                                             | CI                |

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| 35         | *       | Razoky, Sara             | Standard vs. high-risk bronchiolitis management and treatment effectiveness prior to new clinical practice guideline                                               | CI                |
| 36         |         | Roberts, Holly           | COMPARISON OF TARGETED AGENTS SELECTED BY THE CNS TAP TOOL VERSUS A MOLECULARLY- DRIVEN TUMOR BOARD                                                                | CI                |
| 37         |         | Roberts, Katelyn         | Oral Feeding as a Predictor of Outcomes After Neonatal Seizures-A Neonatal Seizure Registry Study                                                                  | CI                |
| 38         |         | Sengupta, Shayan         | The Impact of Hemolysis on Vaccine Response in Sickle Cell Disease                                                                                                 | CI                |
| 39         |         | Sill, Jordan             | PRE-OPERATIVE NUTRITIONAL MARKERS AS PREDICTORS OF POST-OPERATIVE NUTRITIONAL STATUS, LOS, AND READMISSION RATES IN PEDIATRIC PATIENTS UNDERGOING HEART TRANSPLANT | CI                |
| 40         |         | Simon, Christine         | The Health Economic Impact of Nephrotic Syndrome in the United States                                                                                              | CI                |
| 41         |         | SLIWICKI, ALEX           | The Devil is in The Details: Shock as a result of Macrophage Activation Syndrome in the setting of Systemic Lupus Erythematosus                                    | CI                |
| 42         |         | Suorsa-Johnson, Kristina | INFORMED CONSENT FOR UROGENITAL SURGERY IN PEDIATRIC DIFFERENCES OF SEX DEVELOPMENT: A PROVIDER PERSPECTIVE                                                        | CI                |
| 43         | *       | Warwick, Rebecca         | TRANSGENDER YOUTHS' SEXUAL HEALTH AND EDUCATION: A QUALITATIVE ANALYSIS                                                                                            | CI                |
| 44         |         | Wilson, Kate             | Provider Testing Practices for Congenital Cytomegalovirus: Consistently Inconsistent                                                                               | CI                |
| 45         |         | Wilson, Steven           | Outcomes after Myectomy and Mitral Valve Repair in Hypertrophic Cardiomyopathy                                                                                     | CI                |
| 46         |         | Wytyaz, Victoria         | Variations in Objective Knowledge Among Decision Support Persons of Patients with Early Stage Breast Cancer                                                        | CI                |
| 47         |         | Berry, Zane              | MUSLIM PEDIATRIC FASTING PRACTICES AMONG DIABETIC CHILDREN: A MIXED METHOD APPROACH                                                                                | CI                |
| 48         |         | Birnbaum, Richard        | PARENT ACCEPTANCE OF PEDIATRIC INTEGRATED CARE SURVEY REVISED: RESEARCH IN-PROGRESS                                                                                | HSR               |
| 49         |         | Murphey, Annie           | TRANSGENDER HEALTHCARE PERCEPTIONS SHARED THROUGH SOCIAL MEDIA                                                                                                     | HSR               |
| 50         |         | Ng, Sophia               | PATTERNS OF PRIMARY CARE, SPECIALTY CARE, AND PREVENTIVE SERVICE USE AMONG PRIVATELY INSURED CHILDREN WITH SICKLE CELL ANEMIA                                      | HSR               |
| 51         | *       | Patel, Pooja             | PROVIDERS OF AMBULATORY HEALTHCARE IN CHILDREN AND ADOLESCENTS WITH SICKLE CELL ANEMIA                                                                             | HSR               |
| 52         | *       | Peng, Hannah             | Using State Public Health Data to Identify Persons Potentially Eligible for the Flint Registry                                                                     | HSR               |
| 53         |         | Phelps, Kayla            | THE ASSOCIATION OF SOCIOECONOMIC STATUS AND PEDIATRIC SEPSIS OUTCOMES                                                                                              | HSR               |

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| 54         |         | Villegas, Juliet     | UNDERSTANDING THE FAST FOOD EATING HABITS AND CULTURAL TAILORING PREFERENCES OF HISPANIC YOUTH                              | HSR               |
| 55         | *       | Zakutansky, Stephani | COMPARING MORTALITY OUTCOMES IN YOUNG ADULTS WITH SEVERE SEPSIS ADMITTED TO PICUS VERSUS MICUS                              | HSR               |
| 56         |         | Broome, Taylor       | PEDIATRIC CROSS-COVER EMERGENCIES CURRICULUM                                                                                | QI                |
| 57         |         | Chouaib, Rana        | MEASURING ADHERENCE TO PEDIATRIC OTITIS MEDIA GUIDELINES IN THE MICHIGAN MEDICINE EMERGENCY DEPARTMENT                      | QI                |
| 58         |         | Orringer, Kelly      | Infant Safe Sleep Anticipatory Guidance in Pediatric Primary Care                                                           | QI                |
| 59         | *       | Pliakas, Maria       | Improving the efficacy of the rapid response team (RRT)                                                                     | QI                |
| 60         |         | Pritz, Benjamin      | Use of Resident-Prepared Chalk Talks to Enhance Medical Student Education                                                   | QI                |
| 61         |         | Raglow, Zoe          | Development of guidelines for pediatric blood culture volume at the University of Michigan                                  | QI                |
| 61         |         | Sharp, Meredith      | Development of guidelines for pediatric blood culture volume at the University of Michigan                                  | QI                |
| 62         | *       | Reynolds, Lyndsey    | Improving Patient Safety for Patients with Type 1 Diabetes on Diluted Insulin: Supporting Nurse and Resident Education      | QI                |
| 63         |         | Rompca, Annemarie    | SCREENING FOR CELIAC DISEASE IN PATIENTS NEWLY DIAGNOSED WITH TYPE 1 DIABETES - AN INSTITUTIONAL REVIEW                     | QI                |
| 64         |         | Sahloul, Eman        | PHYSICIAN SURVEY REGARDING PEDIATRIC MUSLIM FASTING IN MICHIGAN                                                             | QI                |
| 65         |         | Smith, Erica         | PATIENT UNDERSTANDING AND PERSPECTIVES OF ANTIBIOTICS AND ANTIBIOTIC RESISTANCE FOLLOWING HOSPITAL DISCHARGE                | QI                |
| 66         |         | Stoody, Vishvanie    | LESSONS FROM THE FIELD: CHALLENGES OF INITIATING A HUMAN TRAFFICKING PROTOCOL IN SCHOOL-BASED HEALTH CENTERS                | QI                |
| 67         |         | Tarun, Samiksha      | Assessing barriers to Care and Opportunities for Improvement in the Care of Patients Awaiting Inpatient Placement in the ED | QI                |
| 68         |         | VanOmen, Sheri       | Assessing the Accuracy of Cord Blood Cultures in Asymptomatic, Term Infants                                                 | QI                |
| 69         |         | Wadden, John         | DEVELOPMENT OF ULTRA-RAPID SEQUENCING-BASED ASSAYS FOR INTRA-OPERATIVE H3K27M MUTATION STATUS DETECTION                     | BS                |