

Duke Colloquium Poster Presentations 2026

10-10:45 a.m., Yates-Gill White Atrium

Case Study Analysis of Environmental Education Programs:
Bridging the Gap
John Jenkins; Advisor: Dr. David Lisenby

Rethinking Fluid Resuscitation: Evaluating Old Formulas
and New Evidence-Based Strategies
Lauren Flickinger; Advisor: Dr. Patty Richter

Targeted Imaging of Glioblastoma Stem Cells Using
Surface-Functionalized Carbon
Jenna Skeeters; Advisor: Dr. Mahsa Hosseini

Benefits of Skin-to-Skin Contact for Mothers and Newborns
Lauren Wittmers; Advisor: Dr. Patty Richter

Investigating the Pathophysiology of Inflammation in
Endometriosis
Chigozirim Nwoha; Advisor: Dr. Tiffany Condren

Addiction as a Neurochemical Disease: Nursing
Implications for Relapse Prevention
Aaron Fennix; Advisor: Professor Melissa Timmons

The Effects of Music Therapy on Critical Care Patients
Evan Schoor; Advisor: Dr. Anna Kaaiakamanu

Barriers Emergency Nurses Face in Managing Pain for
Patients with Suspected Substance Use Disorders
Kennedy K. Wyatt; Advisor: Professor Debra Penrod

In Premature Infants in the NICU, Does Kangaroo Care
Improve Physiologic Stability and Weight Gain Compared
to Standard Incubator Care?
Paige Perry; Advisor: Dr. Patty Richter

Empowering Mothers: The Impact of Nurse-Led
Breastfeeding Education
Allison McIntyre; Advisor: Dr. Patty Richter

The Effects of Music Therapy on the Psychological Outcome
of Pediatric Cancer Patients
Bailey Sauer; Advisor: Dr. Leesa McBroom

The Role of Dexmedetomidine in Opioid-Sparing Anesthesia
Rebecca Brackney; Advisor: Professor Debra Penrod

Vitamin B12 Treatment for Children with Autism
Nasteho Ahmed; Advisor: Professor Melissa Timmons

Breaking the Stone: Understanding Patient Outcomes of
Opioid Versus Non-Opioid Medications in the Treatment of
Renal Colic
Mackenzie Markley; Advisor: Professor Melissa Timmons

Safe Childbirth: Positional Changes Analysis
Davina Mangongo; Advisor: Dr. Tiffany Condren

Use of Smart Technology in Early Detection of Falls
Kennedy Bechtel; Advisor: Dr. Annette Behney

How Do Atypical Stroke Symptom Presentations in Black
Patients Affect Early Recognition and Treatment?
Tadiwanashe Katsande; Advisor: Dr. Tiffany Condren

The Role of Social Media in Vaccine Hesitancy
Dillon Thiele; Advisor: Professor Debra Penrod

Administration of Blood in the Prehospital Setting
Dylan Finkle; Advisor: Dr. Annette Behney

Analyzing disparities in pain management for African
American Patients in the United States of America
Jasmine McDonald; Advisor: Dr. Anna Kaaiakamanu

The Importance of Early Detection: Comparing Modern
Mammograms to Traditional Physical Exams in Finding
Invasive Ductal Carcinoma
Brenna Emerick; Advisor: Professor Debra Penrod

Assessing the Role of Nitrous Oxide in Labor Pain
Management: Implications for Maternal Satisfaction, Safety
Outcomes, and Use as an Alternative to Epidural Anesthesia
Andrew Dumas; Advisor: Professor Debra Penrod

Electrocatalytic Detection of Ethanol and Acetaldehyde
Using Aminoxyl Radicals in Fake Blood
Dominic Vincentini; Advisor: Dr. Mahsa Hosseini