

**MERITER IRB # 2017-013**

**RESEARCH PROTOCOL TITLE:** Use of NIRS to detect Acute Kidney Injury in preterm neonates

**PRINCIPAL INVESTIGATOR:** Matthew Harer, MD

**STUDY PURPOSE**

This study will examine the relationship of oxygen levels between NIRS tissue oxygenation monitoring and neonatal acute kidney injury. NIRS is a skin sensor which detects the amount of oxygen going to and being used by different organs, often used for the kidney.

**RESEARCH PROCEDURES**

Study participants will have two sensors placed on their skin within 96 hours of birth. One sensor will go over the right flank and the other sensor will be on the forehead. Each sensor will go on top of a skin protectant called Mepitel. The sensors will stay in place recording information until 28 days of age. There will be no follow-up visits necessary.

**ELIGIBILITY CRITERIA FOR SUBJECTS**

1. Preterm birth < 32 weeks
2. Admission to Meriter NICU < 96 hours of age
3. Application of NIRS sensors < 96 hours of age

**COMPENSATION/REIMBURSEMENT**

\$50 gas card

**RESEARCH LOCATION**

UnityPoint Health – Meriter hospital  
202 South Park St.  
Madison, WI 53715

**CONTACT PERSON**

Matthew Harer, MD  
McConnell Hall 4<sup>th</sup> Floor  
Madison, WI 53715

**PHONE:** 608-417-5739