



Working Smarter with PneuRip

Tuesday December 16, 2025 noon – 1:00 pm

Virtual Presentation

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Respiratory Inductive Plethysmography is a method of evaluating pulmonary ventilation by measuring the movement of the chest and abdominal wall. The measurement of the thoracoabdominal motion may be used to objectively measure work of breathing. PneuRIP is a bedside, real time tool that allows researchers to transition RIP to a clinical diagnostic tool. The purpose of this presentation is to demonstrate how PneuRIP can be used to explain clinical observations improve the care we provide to infants admitted to the Neonatal Intensive Care Unit. The objectives of this presentation are:

1. Review the benefits and limitations of Respiratory Inductive Plethysmography (RIP)
2. Introduce PneuRIP, a software application that allows RIP to be used at the bedside
3. Present recent studies performed by our group that used PneuRip in the neonatal patient population

Meet the Speaker

Kelley Kovatis, MD is an Assistant Professor of Pediatrics and an attending neonatologist at ChristianaCare. She earned her medical degree from Temple University School of Medicine and completed her pediatric residency at the University of Virginia, followed by fellowship training in Neonatal-Perinatal Medicine at the Children's Hospital of Philadelphia. Dr. Kovatis serves as the Director of the Center for Neonatal Evidence-Based Outcomes and Population Health at ChristianaCare, where her research focuses on neonatal breathing patterns and optimizing respiratory care in preterm infants. Outside of her clinical and academic roles, she is an uber driver for her three children and strives to be an elite Hyrox athlete.



Kelley Kovatis, MD

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