PROJECT TITLE: Peapod: Measuring the Forces a Newborn Experiences During Transport Inside, Outside, and Between Hospitals and Other Critical Care Settings

Orlando S. Hoilett, Ph.D.
-------------------------
Assistant Professor of Biomedical Engineering
College of Engineering and Applied Science
University of Cincinnati
-------------------------
554 Mantei Center
2901 Woodside Drive
Cincinnati, OH 45219
-------------------------
B01 Bioscience Center
3159 Eden Avenue
Cincinnati, OH 45219
-------------------------
Email: hoiletos@ucmail.uc.edu
Phone: 513-556-7826
Fax: 513-556-4162

Project Description

During transport, newborns experience quite a bit of physical forces due to the different vehicles and mediums involved in the transport process. The effect of the cumulative forces applied to the newborn may have deleterious effects on their development; however, this phenomenon is not well-studied or characterized. Therefore, we’re developing a miniaturized device that can be placed at various locations around an ambulance, helicopter, airplane (and other transport vehicles) and around the transport incubator to measure the forces applied to the newborn during transport.

This project is in collaboration with the neonatal intensive care unit and transport teams at Cincinnati Children’s and Cincinnati Medical.