Falciglia, Gustave

My goal is to become an expert in supporting providers with the best data to make optimal clinical decisions for their patients. I believe quality health care requires quality data. I believe that current data infrastructure does not support providers in making optimal clinical choices.

I have chosen to focus on how data management affects growth and nutrition in the neonatal intensive care unit (NICU). Growth and nutrition are important for every infant in the neonatal intensive care unit, and they are also responsible for a large contribution of data collected for rounds (e.g. growth parameters, intake and output, chemistries, etc.). I hypothesize that data supporting decisions regarding nutrition and growth of infants are insufficient, may lead to less than optimal nutritional delivery, and may bias providers to think of fluid at the expense of energy and protein intake.

I believe that clinicians in the NICU require a system of closed-loop information. They must know what they ordered, not just as individual feeding and intravenous components, but in total calories and protein. They must know what was received, and then what was the gap. No one would embark on a family vacation without a fuel gauge measuring the level of gas or a map guiding them to their destination. Why do we drive blind in the NICU? High quality care requires high quality data.