iKinesia Inc.

i k i n e s i a . c o m

NRM System

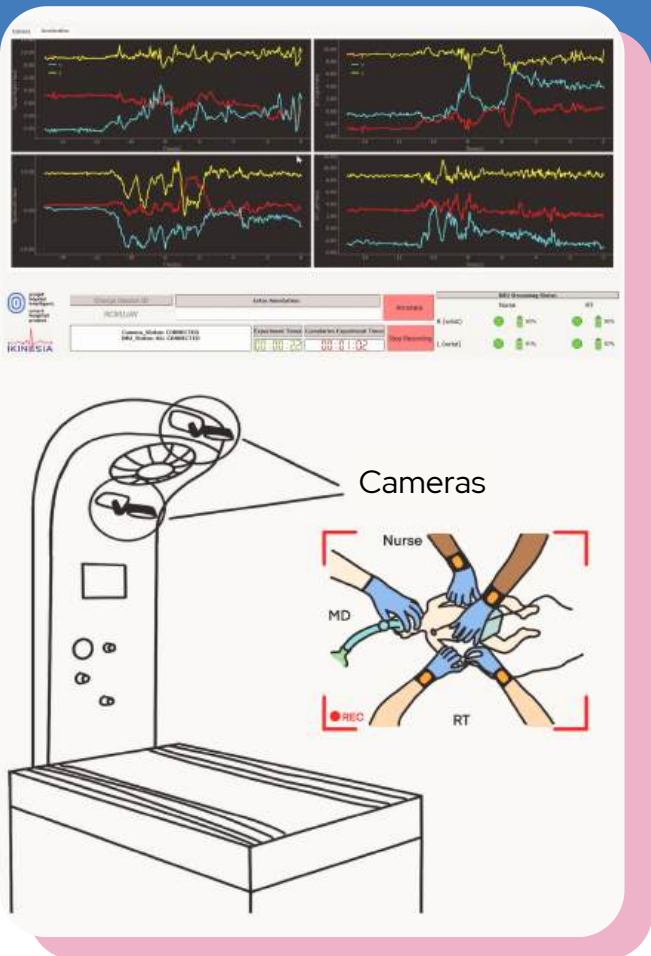Neonatal Resuscitation Monitoring

Cameras

About

The Neonatal Resuscitation Monitoring (NRM) system is a platform designed to objectively assess the competency and enhance the training of physicians, nurses, and respiratory specialists in neonatal resuscitation. It achieves this by utilizing key physiological and behavioral data, such as hand movements, gaze, and heart variations during the procedure.

Key Features:

- Tracking (1) hand movements using the fusion of cameras and data from wireless inertial measurement units (IMUs) attached to the wrists, (2) heart rate and its variability, and (3) gaze for an in-depth assessment of physical and cognitive performance.
- Interactive dashboards for both real-time monitoring and detailed post-session reviews, displaying performance metrics and 3D data visualizations along with evaluator annotations.
- Compliance with Neonatal Resuscitation Program (NRP) guidelines.

Clinical Impact:

The NRM system has proven to be an invaluable tool for competency assessment, as evidenced by tests conducted at the Montreal Children's Hospital. This platform will revolutionize assessment and elevate the training of healthcare professionals performing neonatal procedures.

Business Potential:

NRM ensures clinical staff are fully prepared for high-stakes neonatal emergencies, making it an essential tool for assessment and training at medical institutions.