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***Combined Physician  
-Parent Decision  
Support Tool***

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## **Abstract:**

Within the context of a newborn intensive care unit (NICU), we explore the design compromises that must be made while developing a PPADS (Physician and Parent Decision Support) tool. This work develops earlier exploration by fostering a clinical information storehouse and a clinical decision support system (CDSS) to enhance mortality and complication prediction in the newborn intensive care unit (NICU). Using a cooperative methodology known as shared direction, our group is blending doctor and parent assets to foster a framework that will help guardians in pursuing essential treatment choices for their newborn children in the NICU. We have framed the construction and engineering plan for making the mixture clinical expert patient device. We determined the applicable criteria for this kind of decision system's design, its mode of operation, and its standards. We also investigated current open-source tools that are well suited to this architecture. The nurse decision support expert and our physician colleague both gave us input on the prototype we developed. A preliminary usability study will be conducted in a tertiary NICU in the near future.

## **Keywords:**

Measurement of risk level estimations, clinical outcomes, clinical decision support, neonatal intensive care unit, health and e-health, physicians and parents.