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Development of an alarm for change oxygen probe sensor in newborns

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Background: A newborn baby has fragile skin which is at risky for skin injuries. Especially in sick newborns, who need oxygen saturation monitoring by wrapping a probe sensor around the baby extremely with thigh for the sensor can detect oxygen saturation through the skin. These cause skin injuries such as bruises, burns, and abrasions. This can lead to infection problems in newborns.

Objective: The purpose of this study aimed to produce an alarm for change oxygen probe sensor in newborns (prototype) and to assess the Item-objective congruent index (IOC) of the prototype, and try out the prototype.

Method: This study consisted 3 phases: Developing the operational system and designing the feature of the prototype. The IOC score from five experts comprised of three nurses expert in the field of newborn, one nursing instructor and one neonatal doctor. Try out the prototype with the newborn demonstrate model in the nursing laboratory room Institute of Nursing, Suranaree University of Technology.

Results: The prototype was developed and consists of two parts. In the alarm system a light is applied to show when it is time to change the sensor probe. Feature has shown with baby cartoon symbol for signal by lighting alarm on baby cartoon extremity part. The IOC score 0.82 and the experts was recommended shape and size of the prototype should be smaller and easy to hang on a baby crib or warmer. The prototype can effectively trigger nurse to change position in the newborn demonstration model.

Biography

Saritshasombat Patrapon has completed her MSN in the Faculty of Nursing at KhonKaen University, Thailand. She is the Instructor of Pediatric Nursing Department of Insitiute of Nursing, Suranaree University of Technology, Thailand.

Notes:

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