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The 1st NEIN Nursing Student Forum
Sharing Your Experiences : Learning For the 21st Century"

วันที่ 3 กรกฎาคม 2559 ณ หอประชุมอื้องคำ วิทยาลัยพยาบาลบรมราชชนนีนี พะเยา

Development of VentriMeter® for Safe Ventriculostomy Care



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Background

Ventriculostomy and retained ventriculostomy drain are the top 5th procedures of the surgery department, normally an average of 30-50 cases annually. Providing nursing care on the purpose of safety and meet the standard of care for the patients with retained ventriculostomy drain, nurses have to measure the quantity of fluid drain accurately.

Objectives

We aimed to develop a VentriMeter for measuring ventriculostomy drainage and test for feasibility and safety of the VentriMeter.



Participants and methods

The development and testing of VentriMeter involved five steps: 1) situational analysis of ventriculostomy care, 2) literature review, 3) Prototype design for VentriMeter, 4) expert validation and, 5) testing with patients.

Participants included 16 nurses and three neurosurgeons who worked in trauma and neurosurgery intensive care units and cared for patients with ventriculostomy. The experts were asked to assess three attributes of the VentriMeter, namely, ease of the setting of safe drainage height, monitoring of drainage volume, and accuracy of volume reading.



Results

VentriMeter was well accepted by a panel of 19 experts. The VentriMeter eases the setting of safe drainage height, allows frequent monitoring of drainage volume, and ensures accurate reading of drainage volume. However, the testing of this meter with the patients is pending.





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