A Project on Improvement of Nursing Personnel’s External Ventricular Drainage Knowledge and Practice
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Background
External-ventricular drainage (EVD) is a common procedure in neurosurgery. The unit as a neurosurgical intensive care unit, post-operative external ventricular drainage occurred the obstructions and shedding, unable to monitor intracranial pressure, seriously affecting patient safety. If the drainage care could not be care accurately, it might affect the qualities on nursing care and then negatively affect the patient’s safety.

Based on clinical observation and use questionnaire survey, we found nurses care that insufficient knowledge and drain care methods are inconsistent. They were also lack of comprehensive training and suitable teaching tools and aids for delivering the nursing practice for patients with EVD.

Objective
The aim of this project is to improve the knowledge and completeness of nursing practice for EVD drainage care.

Methods
- The strategies to improve the nursing practice drainage care skill include:
  - drawing-up a checklist of EVD care
  - establishing the standard of care
  - organizing in-service training for the nurses
  - developing multi-media teaching aid DVD
  - creating a specific model for EVD
- To provide nurses to practice skill of EVD

Results
- A project improved the nursing knowledge examination for external ventricular drainage increase the completeness rate from 64.1% to 83.5%.
- Drainage care methods consistent rate from 12% to 100% after the execution of the above strategies.
- Otherwise, Most questions related to EVD drainage care to make sure drain mark and function. Our department revised guideline on nursing care skills related EVD to meet clinical conditions.

Conclusion
The results of this project could be used to improve the nursing quality of EVD care in neurosurgery intensive care unit. Based on our experience, promotion and implementation of EVD care project is feasible and helpful to update knowledge and practice skill in clinical nursing care.

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