

Testing the impact of a multimedia video CD of patient-controlled analgesia on pain knowledge and pain relief in patients receiving surgery

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摘要

Abstract

Objectives:

This study aimed to develop a multimedia video CD (VCD) of patient-controlled analgesia (PCA) and test its effects on pain knowledge and pain relief in patients receiving surgery. This multimedia VCD of PCA was created to convey fundamental knowledge to both patients and their family members and help patients properly utilize PCA devices to relieve pain and improve recovery. The content of multimedia VCD of PCA included pre-admission pain education, introduction of PCA, nursing care procedures, and questions and answers.

Methods:

This study used a quasi-experimental research design to test effects of the multimedia education program in the experimental group of 30 subjects compared to the control subjects of equal number (without the multimedia VCD of PCA).

Results:

(1) The intervention of multimedia VCD of PCA resulted in a statistically significant difference in pain knowledge between the experimental and control groups. (2) Subjects in the experimental group obtained a better outcome of pain relief compared to control subjects. (3) Subjects in the experimental group indicated that the multimedia VCD of PCA indeed helped them effectively operate their PCA devices to relieve surgery pain.

Conclusions:

The clinical application of the multimedia VCD of PCA could help patients improve knowledge on pain, learn how to use PCA devices, achieve proper pain relief, and increase effectiveness of recovery activities.