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### Abstract

The purpose of this study was to develop a nursing management system for prevention and control of nosocomial infection in Lomsak Hospital. There were 25 participants in this study, consisting of 17 nursing administrators, 1 infection-control nurse and 7 infection-control ward nurses. All participants were members of nosocomial infection control committee.

Instruments used in this study were: 1) The questionnaire on nosocomial infection prevention and control activities; 2) Guidelines used for brain storming and 3) An evaluation form for team working and handbook of nosocomial infection prevention and control activities. Five experts were used for the content validity of instruments. Reliability of the survey questionnaire using Cronbach's Alpha Coefficient was 0.97. Statistical analysis used were percentage, mean, standard deviation, and paired t-test.

The study showed that : 1) For infection control committee's opinions, the nosocomial infection prevention and control activities prior and after the project's implementation was significantly different. ( $P < .01$ ) There were significant improvements in administration, personal and facility ; 2) Resulting from brain storming of all subjects, it was evident that there were significant improvements in administration, personal, physical setting and equipment as well as staff performance and 3) All participants felt they had actively involved throughout the process of nosocomial prevention and control regimen. Nosocomial prevention and control manual was highly practical from members of nosocomial infection control committee. However, such manual was perceived as moderately practical by nursing staff working at the ward level.