

Thesis Title The Effects of Supportive-educative Nursing
System on Knowledge Capabilities for Self-
care Operations and Controlling Disease in
the Elderly with Osteoarthritis of the Knee

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ABSTRACT

This quasi-experimental research studied the effects of supportive-educative nursing system on knowledge capabilities for self-care operations and controlling disease in the elderly with osteoarthritis of the knee. Purposive samples were Rhomklao Elderly Member Club with primary osteoarthritis of the knee which were diagnosed by the doctor of the Public Health Center46 (Kultarat). Each pair randomized into experimental group and control group of 33 patients. Each pair was matched by sex, age, knowledge, severity of disease, and weight by size. The experimental group recieved supportive-educative nursing system. The researcher visited at home two times at eight weeks intervals while the control group recieved regular advice in the member club.

Research instruments consisted of instruments used for collecting data, which were questionnaires for knowledge capabilities for self-care operations and severity of disease. The instruments used

for experiments was Goniometer (used for degree of flexion of the knee measurement), metric tape, and weight with height measurement. Collecting data two times, before and after experiment. Used percentage, arithmetic mean, standard deviation, t -test, paired t -test pearson product moment correlation coefficient for analyzing data.

The results revealed that :

1. After the experiment, the average score of knowledge capabilities for self-care operations severity of disease in the experimental group and in the control group were significantly higher than before the experimental.

2. After the experiment, the average score of knowledge capabilities for self-care operations severity of disease and controlling disease in the experimental group were significantly higher than the control group.

3. After the experiment in the experimental group the knowledge score was significantly positive correlated with capabilities for self-care operations score ($r=0.442$). However, capabilities for self-care operations score was nonsignificantly positive correlated with controlling disease score as well as controlling disease score with knowledge score ($r=0.0582$, $r=0.1327$).

These results reflected validity of supportive-educative nursing system on knowledge capabilities for self-care operations and controlling disease in the elderly with osteoarthritis of the knee. The patients who are well in knowledge will be well in capability for self-care operations and controlling disease.

Health Center of Bangkok Metropolitan should provide supportive-education nursing system for the elderly with osteoarthritis of the knee, motivating them practice continuously for getting better controlling disease.