

THESIS TITLE : NEED ASSESSMENT OF SCIENCE TEACHERS'

KNOWLEDGE ABOUT CYTOPATHOLOGY TO INCREASE

THEIR COMPETENCIES

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ABSTRACT

The purpose of this study was to study need assessment of science teachers' knowledge about cytopathology. The findings were used to develop teachers' knowledge in cytopathology in order to increase their competencies in teaching.

The sample of this study included 198 subjects. It consisted of 142 science teachers and 56 science student teachers. Samples were selected by the technique of purposive random sampling from science teacher in Mathayom Suksa. This includes fourteen high school teachers in Amphur Muang, Changwat Khon Kaen. And the third, the fourth-year secondary education student teachers who major in teaching science, Faculty of

Education, Khon Kaen University were served as samples.

The research instrument was a set of questionnaire related to content of cytopathology. The data were analyzed by percentage. The criteria for analyzing knowledge of cytopathology was set. The subjects were required to score at least 80 percent of the whole content.

The result of the study were as follows:

The science teachers in Mathayom Suksa showed that their knowledge about cytopathology subjects is not up to 80 percentage. As for other topics it showed that subjects need to study more about cytopathology content. The subjects include:

Introduction to pathology, Cell injury and cell death, Inflammation and repair, Abnormal of cellular adaptation and growth, Neoplasia, Collection preparation staining and transportation for Diagnostic cytology, Histology of female genital tract, Effects of hormone to change physiology and cytology of female, Cytology of cervical and vaginal epithelium of inflammation, Principle of diagnostic cytology, Carcinoma of cervix and precancerous lesion, Changes of epithelial cells of female genital tract from the effects of some therapeutic procedures and drugs, Cytology of the other systems. In order to increase knowledge of science teachers and student teachers, the development of a new model for organizing a course in cytopathology is introduced based on Ausubel Theory.