

# Implementation of case study in undergraduate didactic radiography clinical practice courses

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## ABSTRACT

### Introduction

The dramatically changes in medical imaging from conventional to digital has a strong reflect on the radiography undergraduate curriculum, competency and method of delivery. The utilization of the films is replaced with the digital images which is useful in term of quality, numbers of images can be used, presentation. Case study is considered as an effective teaching tool bridge the gap between theory and practice and between the academy and the workplace” (Barkley, Cross, and Major 2005, p.182). They also give students practice identifying the parameters of a problem, recognizing and articulating positions, evaluating courses of action, and arguing different points of view. The aim of this study is to examine the implementation of case study in undergraduate radiography clinical practice. The goal is to examine the case contents, usefulness and its impact on learning.

### Methods

A total of 200 participants were enrolled in this study in duration of 2 years, the case study designed to be utilized as digital education file. The participants had been invited to fill a questionnaire to evaluate the case study outcomes and benefits for both students and faculty. Data imported and statistically analyzed and interpretation.

### Results

The result reflected in two main categories (1) Case study as teaching resource for faculty and clinical preceptors (2) Case study as educational material for undergraduate radiography students. The implementation of the case study at clinical practice has an improvement of practice competencies, using of advance imaging modality, develop critical thinking skills and can be used for continuous education as well.

### Conclusion

Results showed that case study is a strong tool and can be used for education and teaching.it to raise the competencies of both students and radiology professions to learn from previous case, the components of the case is comprehensively supported with literature review ‘anatomy, physiology and pathology’, the patient history, plan of diagnosis and treatment done added to made the it interactive and strongly related to the real situation. Digitized case study is rich resources for faculty and enhances the education experience.