

Thesis Title

A Model Construction of Cross Sections
of Human Body for Topographic Study

Name

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Degree

Master of Science
(Medical Art & Communication)

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Abstract

The objective of this project is to develop an exact model of a fetus to be an educational aid for medical-science students from basic to advanced levels especially those with self studying in Topographic Anatomy. A formalin fixed body of 7-month male fetus has been cut serially in cross section of 1.2 centimeter thick. Twenty sections of the fetus whose extremities were not included were casted with liquid plastic, polyester resin. The positions and the relationship between those organs were illustrated by painting in colours according to those of fresh and real ones. The research would be a basis for the establishment of an adult model. Thirty two lecturers in the Faculty of Medicine, Siriraj Hospital were randomly asked to compare the efficiency of 2 educational aids in teaching Topographic Anatomy. The Model and the Photographs of the same contents fulfilled the interviews and questionnaires. The analysis of those data by t-test showed that the exact model was more efficient than the photographs significantly at 0.01, suggesting that it would be an effective aid in teaching or studying Topographic Anatomy.