

# Using Learning Style Instruments to Enhance Student Learning in Medical Students

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## Overview

Learning style is an individual's characteristics and preferred ways of gathering, organizing, and thinking about information.<sup>1</sup>

Individual students have relative preferences along each of the four perceptual modes: visual, aural, read/write, and kinesthetic.<sup>1</sup> About 41% of the population who have taken the instrument online have single style preferences, 27% two preferences, 9% three, and 21% have a preference for all four styles.<sup>1</sup>

Teaching process at present most are lectures. Causing learners who are not good at learning by listening may not be able to fully learn.

## Objective

1. To enhance student learning by using a variety of teaching materials according to the learning style of the learner: text, animation, and augmented reality picture in the text.

## Methods

After lecture in the class:

1. Divide the students into the group according the learning style.
2. Give teaching materials to students according the learning style in each group.
3. Compare student scores between students who receive teaching materials according the learning style and who not receive teaching materials.



## Results and discussion

Group	Scores (20 points)
Control (n=10)	14.86±1.25
Text (n=6)	17.29±1.11
Animation (n=19)	18.14±1.35
Augmented reality (n=13) picture in the text	17.57±1.01

The results shown that the students who receive teaching materials according the learning style get a high exam score. Therefore, using of a variety of teaching and learning approaches according the learning style has the potential to enhance the learning and performance of students in a course.

Reference:

1. Fleming, N. D. (2001). Teaching and learning styles: VARK strategies. Christchurch, New Zealand: N.D. Fleming.