Assessing the Quality of Psycho-B`GREAT Module: Validity and Reliability Aspects

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Abstract

Purpose - This study aims to assess the validity and reliability of the Psycho-B`GREAT Module developed according to the ASSURE's Module Development Model.

Method - The content validity of the Psycho-B`GREAT Module was assessed by ten experts in the fields related in teaching and learning (T&L) and biology education. In testing the Psycho-B`GREAT Module`s reliability, a pilot study was conducted on 37 students in a secondary school. The students participated in all the activities suggested in the Psycho-B`GREAT Module.

Findings - The students' feedback was then assessed by completing a module's reliability questionnaire. Overall, the Psycho-B`GREAT Module obtained good content validity as well as excellent reliability. In the calculation of Content Validity Index (CVI) from the given score, the suitability of the sessions and activities in the Psycho-B' GREAT acquired validity of good content and excellent reliability, with valid measurements of the value 0.83. The CVI value adopted is ≥ 0.80 (Davis, 1992). The reliability of the Psycho-B`GREAT Module has an Alpha Cronbach value of 0.98. The researcher has considered all the constructive feedbacks from the experts and made improvements so that it can be utilised as an effective biology teaching module.

Significance - This module is intended to supplement existing sources and serve as a resource for teachers and students conducting T&L based on biology. In addition, this study is expected to provide an overview of the implementation of biology T&L according to the mobile Game-Based Learning (mGBL) approach, which can affect the achievement of basic biological themes, multiple intelligence, and students` attitude.

Keywords: Validity, Reliability, Module, Psycho-B`GREAT, Biology teaching & learning.