

Evaluation of the effectivity of the selection method in predicting students' performance during medical training

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Abstract

Background

Students' selection in medical institutions is crucial in predicting whether a student could succeed during medical training and become a competent clinician. Faculty of Medicine Universitas Islam Indonesia (FM UII) has developed two stages- examination in the selection method. Stage 1 consists of a written examination. Stage 2 includes an aptitude test, basic medical knowledge test, and multiple mini-interviews (understanding of a reading text, motivation, and collaborative learning practice). This study aimed to identify whether each selection component could predict students' performance.

Summary of works

Data from 160 students in the final year was included in this study. It consists of data from the selection process, final GPA in the medical undergraduate program, and tutorial performance. Each data from the selection process was correlated with GPA. The score of collaborative learning practice was analyzed with tutorial performance. Lastly, linear regression analysis was applied with GPA as the independent variable.

Summary of results

The score on written examinations, medical knowledge tests, and collaborative learning significantly correlate with GPA ($p < 0.05$). The aptitude (IQ) and reading test scores do not significantly correlate with GPA. On the other hand, collaborative learning score also has a significant correlation with tutorial performance during the undergraduate program. The results of regression analysis show that written examination medical knowledge test scores significantly affect students' GPA ($P < 0.05$)

Discussion

The cognitive test applied in students' selection could predict students learning performance during the medical program. On the other hand, IQ was not an essential component in predicting learning performance. Moreover, students' capability to conduct collaborative learning also predict their capability to conduct small group discussion, which is the primary learning activity in FM UII.

Take home message

The design of the selection method should align with essential characteristics needed during medical training.

References (maximum three)

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