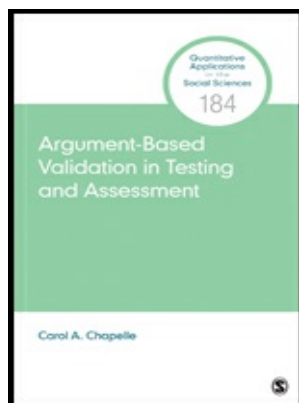


Argument-based approach to validation

American College Testing Program - Developing and validating an instrument to measure college students' inferential reasoning in statistics: an argument



Description: -

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Developing and validating an instrument to measure college students' inferential reasoning in statistics: an argument

The five claims were used to examine the plausibility of the validity arguments: 1 The test measures students' level of statistical inferential reasoning in two aspects--informal statistical inference and formal statistical inference; 2 The test measures statistical inferential reasoning in the representative test domains; 3 The test produces scores with sufficient precision to be meaningfully reported; 4 The test is functional for the purposes of formative assessment; and 5 The test provides information about students' level of statistical inferential reasoning in the realms of informal and formal statistical inference. For the data obtained from this large-scale assessment, a unidimensional model in confirmatory factor analysis and the Graded Response Model in item response theory were employed to examine the arguments regarding the internal structure and item properties.

Developing and validating an instrument to measure college students' inferential reasoning in statistics: an argument

Any test that is used to make decisions about people or programs should have undergone extensive research to demonstrate that the scores are actually appropriate for their intended purpose. To say that a score interpretation or use is valid is to say that the reasoning inherent in the proposed interpretation and use is coherent and complete, and that the inferences and assumptions are plausible. Once the IUA is developed, it provides a framework for test development and validation and criteria for evaluating whether the proposed interpretation and use have been adequately validated.

Argument

The pedagogical implications for the use of the AIRS test are discussed with regard to the areas where students showed difficulties in the domain of statistical inference. This study evaluates the validity of Utrecht Hamburg Trainee Responsibility for Unfamiliar Situations Test UHTRUST, an authentic simulation procedure to assess whether medical trainees are ready to be entrusted with unfamiliar clinical tasks near the highest level of Miller's pyramid.

An argument

The purpose of this study was to develop and validate an assessment to measure college students' inferential reasoning in statistics. Some of the evidence required for the validity argument will be developed during test development e.

An argument

Should you need additional information or have questions regarding the HEOA information provided for this title, including what is new to this edition, please email. It was found that most of Kane's validity assumptions were defensible with accurate and often parallel lines of backing.

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