

# Development and Validation of a Pre-test Open Book Examination Questionnaire I (OBEQ-I): Content Validity and Face Validity Analysis

Veena Bembalgi, Prashant Mukkannavar, Cassindra Cardoz

KLE College of Physiotherapy, Hubballi, Karnataka, India

Email: drveenab23@kledeemeduniversity.edu.in

Contact Number : 9449821222

## INTRODUCTION

Open Book Examinations (OBEs) have not been used as a formal assessment method in physiotherapy education.

The University Grants Commission (UGC)<sup>1</sup> and The National Education Policy (NEP) 2020<sup>2</sup> emphasize using open book exams to evaluate students.

No questionnaires that capture knowledge, attitude and practice of Physiotherapy students with regards to OBE

## OBJECTIVE

To develop and assess the content validity and face validity of a Pre-test Open Book Examination Questionnaire

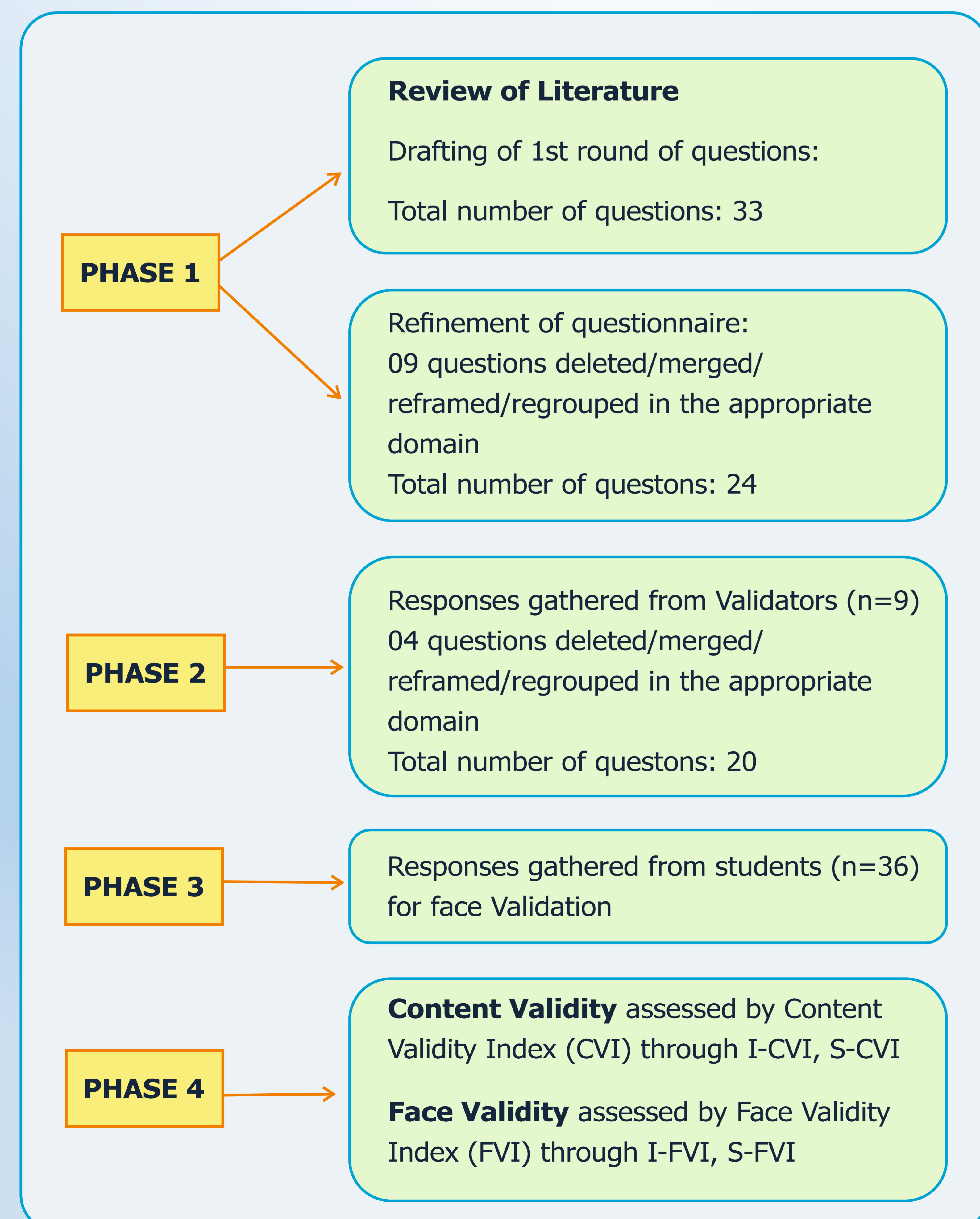
## METHODOLOGY

### Ethical Clearance

JGMM Medical College Institution Ethics Committee (JGMMMCIEC) Ref No: JGMMMCIEC/43/2024

### Study Design

This questionnaire was developed in **four** phases



## RESULTS

### Content Validity Analysis

I-CVI of all items for relevance was 1 except 7<sup>th</sup>, 11<sup>th</sup>, 14<sup>th</sup> and 20<sup>th</sup> item, which received scores of 0.88 but were in acceptable CVI ranges and S-CVI/Ave for relevance for all items was 0.88 and within acceptable scores.

I-CVI for content was 1 for all items except 14<sup>th</sup> item, which was 0.88 and S-CVI/Ave for content of all the items was 0.99 and well within the acceptable score.

### Face Validity Analysis

I-FVI scores for comprehension ranged between 1 to 0.8 for all items and S-FVI/Ave for comprehension was 0.97

I-FVI for clarity ranged between 1 to 0.9 for all items and the S-FVI/Ave score was 0.98.

## DISCUSSION

Recommended number of validators for content validation is a minimum of six.<sup>3</sup> Nine validators were selected to improve the robustness of the questionnaire.

The minimum recommended number of respondents for face validation is ten.<sup>4</sup> Our sample of 36 respondents, though convenient, had no prior experience with formal open-book exams, ensuring unbiased responses.

The validators had diverse professional backgrounds, ensuring the questions were meaningful, relevant, and critically examined.

## FUTURE IMPLICATIONS

The questionnaire is not limited to physiotherapy. The same questionnaire can be validated across other disciplines.

The feedback from this questionnaire could aid educators in refining their evaluation processes and considering open-book exams as a formal assessment method.

## CONCLUSION

The results demonstrate that Open Book Examination Questionnaire-I is robust in terms of content validity and face validity.

### References



### OBEQ-I



### Copyright Certificate

