# Development and Validation of a Comprehensive Tool for Assessing Postgraduate Students' Oral Presentations

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#### Abstract

**Introduction:** The aim of this study was to develop an oral presentations assessment tool for postgraduate students' oral presentations.

**Methods:** First, a literature review and the ideas of 319 experienced professors were used to identify dimensions and potential items. Then the psychometric properties of the preliminary tool were measured using face and content validity, inter-rater agreement and test-retest reliability.

**Results:** The four dimensions of the developed tool were subject knowledge, delivery, content and organization, and ergonomics. Mean content validity index and content validity ratio scores were 0.93 and 0.76, respectively. Spearman's rank correlation coefficient for the two evaluation periods was 0.92. The intra-class correlation coefficient was 0.78.

**Conclusion:** In this study, important cognitive factors in oral presentations in the form of ergonomic dimensions were included for the first time, as part of a comprehensive tool. The developed tool has appropriate psychometric properties and could be used as a valid and applicable instrument to assess post-graduate students' oral presentations.

Keywords: student, oral assessment, reliability, validity, ergonomics

### Introduction

Oral communication skills play an important role in students' personal, academic, and professional success (1-3). These skills not only increase students' self-confidence but are also effective in shaping, structuring and presenting logical arguments. Oral communication and presentation skills are important competencies for successful entry into the global business world because language, writing, and listening communication skills are essential for effective decision-making and problem-solving at work (4).

Universities play an important role in the process of training and educating graduates for employment in many types of occupation. Similarly, the performance of organisations has some dependency on the quality of education provided by educational institutions (5). In many universities, oral communication skills are required by graduate students to demonstrate their competence in meeting learning outcomes (6). That is, post-graduate students are generally required to present seminars or defend their research projects to allow their supervisors to assess both the quality of the scientific project and their skills in disseminating the findings (7). Therefore, fair evaluation and judgment of a post-graduate student's oral presentation has an important impact on their academic success and potentially, their future career.

It is widely acknowledged that assessment is an important factor in the learning process. When the assessment process is performed correctly, in addition to providing a basis for evaluating student academic performance, it can also give information on how to plan and implement educational programmes (8). Systematic assessment and interventions based on evaluation results have a direct impact on improving the educational process and achieving the educational goals set for a given field of study (9). Therefore, the evaluation of students' skills and abilities requires the use of valid tools and methods for determining the level of attainment of educational goals (10). This includes assessment of students' oral presentations. Moreover, using a valid tool makes it possible to assess the success of classes to enhance the effectiveness of students' oral presentations with greater confidence (11). To date, however, there is a dearth of published literature that report approaches to assessing post-graduate students' oral presentations. Likewise, our review of grey information shows that despite the existence of oral presentation assessment tools at various universities around the world, typically rubrics include descriptors referring to layout, overall appearance and organisation but they do not draw upon evidence from ergonomic studies.

Briefly, ergonomics is a science that seeks to design tools and environments according to humans' physical and intellectual abilities, interests, and limitations (12). Ergonomics analyses the relationship between the human and their environment so that equipment and tools are designed for best comfort, ease of access, safety, and efficiency, and also to reduce difficulties, fatigue, and costs (13). Ergonomics can make a valuable contribution to the impact of academic presentations because these communications commonly use supporting materials such as PowerPoint, graphics, photos, and video clips. Accordingly, an appreciation of the contribution of ergonomics can prevent poor practice in the use of equipment (e.g., improper height of the projector image can cause the audience to assume an inappropriate posture) and supporting materials (e.g., using poor colour contrast in PowerPoint slides). Rowley-Jolivet (2000) underlines the importance of the presentation and believes the correct sharing of visual knowledge by the presenter affects the role of the verbal skills in the presentation (14).

In the postgraduate education system, there is a need for a comprehensive, reliable tool for the accurate assessment of oral presentations required for seminars and defence of a thesis. It has been argued that a valid tool would make it possible to better account for outcomes of oral doctoral examinations, and support intervention programmes to promote the quality of those oral presentations (15). Thus, the aim of this study was to develop a comprehensive standardized tool with desirable psychometric properties for assessment of oral presentations of postgraduate students.

### **Materials and Methods**

A mixed-method research design was used to design and develop the Oral Presentation Assessment Tool. In the qualitative part of the study, a literature review and ideas of a panel of experts were used to identify the dimensions of students' oral presentations that should be included in an assessment tool. The objective of the quantitative part of the study was to evaluate the psychometric properties of the developed tool. All participants gave informed consent and their time without reward.

#### Determining the dimensions and design of the tool items

Scopus, PubMed, Web of Science, and Google Scholar databases were reviewed to identify the important dimensions in the design of effective oral presentations. Search keywords included *presentation, oral presentation, seminar presentations, speaking assessment, oral presentations skills, face-to-face communication skills, oral communication skills, presentation design, and verbal communication.* Then university professors from several different universities in Iran were surveyed in three large groups in WhatsApp Messenger and were asked about the dimensions needed to assess students' oral presentations. The first group comprised 84 professors, the second group included 202 professors, and the third 33 professors. All had experience in supervising post-

graduate student's studies. After the overall assessment of the findings by the research team, various dimensions and criteria related to the assessment of students' oral presentations were extracted. Then, these dimensions were provided to a new group of 30 professors – again with at least five years' experience of assessing master's and doctoral students – with the following three questions: (1) Can these dimensions provide a comprehensive assessment of a post-graduate student's oral presentation? (2) Can you sort these dimensions by importance and weigh them as a percentage (0 to 100%)? (3) How should the items related to each dimension be scored? Regarding question 3, three options were given based on the most common scoring methods used in assessment tools in different universities: (a) A 4-point quality scale (weak, average, good, and excellent), (b) a 4-point quality-quantity scale (weak: 0.25, average: 0.5: good: 0.75, and excellent:

After confirming the dimensions, appropriate items were developed according to the criteria and descriptions that emerged for the domains from the literature and previous group discussions that brought in the significant experience of the professors. A final set of items was then reviewed by ten professors with specialisations in medical education, ergonomics, health promotion and educational management in advance of testing the psychometric properties of the assessment tool.

### *Psychometric properties of the Oral Presentation Assessment Tool (OPAT)*

1), and (c) a visual analogue scale (scores range from 1-10.)

To ensure the accuracy of OPAT, it was necessary to evaluate its validity and reliability.

# Validity

To evaluate the validity ten post-graduate tutors were asked to review the OPAT in terms of grammar, wording, and item allocation, and where necessary to provide suggestions for improving

the items. After applying recommended changes, the content validity of the tool was assessed in several steps. For this purpose, the content validity index (CVI) and content validity ratio (CVR) of the tool were evaluated by another previously naïve sample of ten post-graduate tutors. The CVI of each item was checked in terms of three criteria of relevance, clarity, and simplicity (16). According to the guidelines, a CVI greater than 0.79 is relevant and valid, between 0.7 and 0.79 the item needed to be revised, and less than 0.7 is unacceptable, and the item should be removed. Using the CVR, the necessity of each item was checked and, according to the table provided by Lawshe (1975) (17), items with a CVR of more than 0.60 (for 10 experts) were considered necessary and important (p < 0.05) and the items with lower CVR values were removed.

### Reliability

The reliability of OPAC was assessed using the test-retest method and inter-rater reliability. To check the test-retest reliability, the oral presentations of four students enrolled on a PhD course were filmed. The four video recordings were given to five professors who were asked to evaluate the oral presentations using the OPAC. Then, four weeks later, the same five professors were asked to watch the videos again, and so evaluate the same presentations a second time. In this way, the correlation coefficient of the final scores given by each academic was calculated as the reliability of the tool. The Spearman's rank correlation coefficient was used to evaluate the correlation between the two scores. As a second / further test of reliability, 30 professors who attended a continuing professional development workshop were asked to assess the oral presentation of the workshop instructor using the OPAT. Then, inter-rater agreement was calculated using the Intra-class Correlation Coefficient (ICC) at a 95% confidence level.

### Results

# Determining the dimensions and design of the tool items

Four general dimensions related to the assessment of students' oral presentations were identified and approved by 30 experienced post-graduate assessors: subject knowledge, delivery, content and organization, and ergonomics. In addition, following the opinions of the professors, the criteria and the descriptive elements of the four dimensions were confirmed (see Table 1).

Domains	Criteria	Descriptions					
Subject	Mastery of subject	Presenter's knowledge of the topic in question					
knowledge	Questions from	Quickly understands a question from the audience without referring to sources					
	the audience	Able to give correct answers to questions from the audience					
		Accuracy of reasoning when responding to challenging questions					
	Technical	Presenter's use of terms and language related to the topic					
	language						
	Use of examples	Judicious use of examples to support audience understanding of the subject					
Delivery	Verbal	Clear voice					
	communication Correct pronunciation						
		Correct grammar					
		Elocution: Suitable pitch, pace, and use of pauses					
		Use of active listening techniques: restatement, responding, and probing					
		Use of one's own words					
	Non-verbal	Eye contact					
	communication	Use of body language: assuming a good posture, avoiding distracting gestures,					
		avoiding tics and nervous habits					
		Maintaining the audience attention					
		Dressing professionally					
		Smiling					
		Personal features: anxiety management; showing confidence throughout the					
		presentation					
Content and	The introduction	Facilitating interactive communication with the audience					
organization		Guiding the discussion and clearly expressing the reason for the presentation					
		and the topic under discussion					
	Main body	Appropriate information structure and organization					
		Selecting the appropriate information					
		Logical information flow					
		Interesting information sequence					
		Coordination of information					
		Time management					
		Appropriate evidence base					
		Clear conclusion					
	IT skills	Effective use of supporting materials (pointers, markers, whiteboard, videos,					
		and educational clips)					
Ergonomics	Compliance with	Use of graphics: superfluous graphics or no graphics					
-	the principles of	Readability: font size					

Table I: Domains and criteria and associated descriptions of the OPAT

cognitive	Not overloading slides
ergonomics	Balance of text and graphics
	Appropriate use of slide transitions
	Appropriate use of chart, diagrams, and other necessary items
	Correct use of symbols
	Writing style
	Good grammar
	Good contrast

Regarding scoring the tool items, there was an overall preference for the quantitative visual analogue scale (n=15), when compared to the qualitative-quantitative scale (n=10), and the qualitative scale (n=5). This was developed for use in the final version (illustrated in Appendix 1). The 30 professors' weightings of the importance and impact of each of the four dimensions contribute to the overall assessment outcome. Subject knowledge was identified as the most important dimension (34.14%); followed by delivery (25.14%), content and organization (24.76%) and ergonomics (15.95%).

The tool was initially developed with the 88 items that emerged from surveying the large sample of professors: ergonomics (24 items), subject knowledge (12 items), delivery (28 items), and content and organization (24 items). The list of items included various iterations of same point across the range of descriptions, hence some items were merged, and ambiguous and repetitive items were removed. This provided an interim assessment tool of 35 items for further analysis.

### Psychometric properties of the items

### Reliability

Given the CVI and CVR values, 16 items (from 35 items) were considered inappropriate and removed, which reduced the tool to 19 items. The mean CVI and CVR scores of the 19 items were 0.93 and 0.76, respectively, indicating an appropriate content validity (See Table 2).

Dimensions	Items		CVD			
		Clarity	Simplicity	Relevance	- CVR	
Subject Knowledge	Did the presenter have full mastery over the topic under discussion?	1	1	1	0.8	
_	Did the presenter use logical reasoning to deal with important and challenging issues?	1	1	1	0.8	
	Did the presenter use appropriate scientific terms and language?	0.8	0.9	1	0.8	
Delivery	Was the presentation given in a clear and eloquent voice?	0.9	0.9	0.9	1	
	Did the presenter maintain good eye contact with the audience?	0.9	0.9	0.8	0.8	
	Was the presenter's appearance appropriate?	1	1	0.9	0.6	
	Did the presenter effectively manage any stress/anxiety?	0.8	0.8	0.7	0.6	
Content and	Was the topic of the presentation introduced clearly?	1	1	1	0.8	
Organization	Was the information presented in a logical and organised way?	0.9	0.9	0.9	0.8	
	Was the information well organized and presented logically?	0.9	1	1	0.8	
	Was the information sufficient for the goals of the presentation?	0.9	0.9	0.9	0.6	
	Was a clear conclusion drawn from the overall discussion?	0.9	0.9	0.9	0.8	
	Was the information presented within the time allowed?	1	1	1	1	
	Did the presenter effectively use supporting materials (pointers, markers, whiteboard, videos, and educational clips)?	1	1	1	0.6	
Ergonomics	Was the font size in the slides appropriate?	1	1	1	1	
	Were all materials presented in a suitable size?	1	1	1	1	
	Was there an appropriate balance between the text and graphics (figures, charts, etc.)?	1	1	0.9	0.8	
	Were slides free from typographical and grammatical errors?	1	1	1	0.8	
	Was the contrast between the text colour and the slide background appropriate?	1	1	1	1	
	Mean	0.93	0.97	0.96	0.76	

### Table II: CVI and CVR values for the Oral Presentations Assessment Tool

## Validity

In the test-retest analysis, five professors evaluated the video recordings of the four student's oral presentations in two stages four weeks apart. The Spearman's rank correlation coefficient of the 19-item tool was 0.922 (p <0.001). The total ICC scores for the first and second stages were 0.968 (0.940-0.983) and 0.966 (0.936-0.92) (p <0.001), respectively, indicating an excellent inter-rater

agreement. The ICC was 0.78 for the evaluation made by 30 professors, indicating that there was good agreement between them.

### Discussion

This study developed and validated a standardized tool for assessment the oral presentations of postgraduate students. The findings of this mixed-method study led to an explanation of the important areas and criteria for assessing post-graduate students' oral presentations. The psychometric properties of the Oral Presentation Assessment Tool (OPAT) were confirmed based on face and content validity, inter-rater agreement and test-retest reliability. Four dimensions were identified as being important to assessing the effectiveness of post-graduate student's oral presentations: subject knowledge, delivery, content and organization, and ergonomics. These four dimensions were not considered to be of equal weighting when considering learning outcomes, nevertheless, all four dimensions make a critical contribution to the assessment process.

It is not surprising that subject knowledge was identified as the dimension that should have the largest weighting. Fletcher et al. (2019) considered subject knowledge to be the main feature of an oral presentation (6), and other literature has similarly pointed out that subject knowledge is critical to giving an effective scientific oral presentation (18), with other dimensions being responsible for the correct transfer of subject knowledge of the presenter to the audience (19).

Oral presentations are a two-way process and as such, good communication with the audience is a skill that should be assessed (20), as an important contributor to the success of a presentation (21) and its efficacy (22). Similarly, in our study, the experts rated delivery as the second most important factor of a successful oral presentation after subject knowledge.

Corresponding to their input, the OPAT includes items that enable assessment of students' verbal and nonverbal communication skills.

Proficiency in oral presentations also demands communication of information in logical order; the materials must be organised in an accessible and well-structured way with a narrative that flows from start to finish (21). In the present study too, the content and its organisation within an oral presentation was identified as an important dimension for assessing the merit of that presentation. The OPAT includes items that measure how the topic is introduced, the information content and structure of the overall presentation, and the extent to which the presenter is familiar with information technology that will be suitable for a wide range of subjects.

The professors who participated in our research noted that students can underestimate the importance of various ergonomic principles when preparing their presentations. Whilst there is some supportive literature on preparing effective oral presentations (21, 23) the inclusion of ergonomic aspects is rare in this literature. Nevertheless, according to the results of this study, observance of the principles of cognitive ergonomics is important in students' oral presentations. The balance and readability of text and visuals on slides, for example, can have a positive and a negative impact on knowledge dissemination, and these are among the variables that were identified as necessary for inclusion in a comprehensive OPAT. In the same vein, Collins (2004) identified common ergonomic errors in the use of font, colour, sound, and graphics in the use of PowerPoint presentations (24). They found that presentations that include a large number of text lines per slide, writing errors, a large number of animations, poor colour and low contrast, small font size, and illegibility of text can reduce the transmission of concepts and distract the audience. Shieh and Lai (2008) examined the effects of ambient illumination, luminance contrast, and stimulus type on the subjective preference of VDT target and background colour combinations

(25). Their results indicated that black on white and blue on white was more favoured by the audience, while turquoise on green and turquoise on red were least welcomed. Understanding these principles are a part of an effective oral presentation, and an appreciation that graphs, photos and other illustrations serve to increase the audience's perception and cognitive grasp of the subject is a skill (14). The use of colour in the text and images is effective in showing details, emphasizing and increasing the amount of information received and a deeper understanding (26). In oral presentations, even the way that bullets and symbols are used using slides is important in terms of cognitive ergonomics; bullets can be used to conveys many concepts (27) and they can be very helpful in outlining the overall content (28). In sum, the use of supporting materials is important, and non-compliance with ergonomic rules such as colour, size, type of font, and background colour on slides can lead to low-quality oral presentations (29, 30). Accordingly, if visual slides prepared to support an oral presentation are not prepared based on the principles of cognitive ergonomics, the intended positive effects could be minimized through fatigue or disengagement. Thus, items assessing these points were recognized as important for the OPAT.

A current limitation of the OPAT lies in its development for postgraduate presentation. We do not assume its validity at other levels of study. Nevertheless, there remains a need to assess student's presentations at other levels using a valid and reliable tool. This should be undertaken in a future research project. We also acknowledge that although we referred to the international literature, post-graduate student supervisors in other countries were not surveyed when developing the tool. We sought to minimize this limitation by drawing upon professors with much experience of post-graduate oral presentations across a wide range of subjects.

This study delivered its aim of developing a comprehensive and standardised tool for assessing the oral presentations of postgraduate students. Moreover, important cognitive factors in oral

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presentations in the form of ergonomic dimensions were included for the first time, as part of a comprehensive tool. The four dimensions of the developed tool were subject knowledge, delivery, content and organization, and ergonomics. The weight of each of these four dimensions in the assessment of students' oral presentations was determined based on scientific criteria. The developed tool has appropriate psychometric properties and could be used as a valid and applicable instrument to assess post-graduate students' oral presentations. Furthermore, based on the identified dimensions and criteria, purposeful educational intervention programmes can be implemented to improve students' oral presentations.

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Domains	Items	Weak							Excellent			
Subject Knowledge	1. Did the presenter have full mastery over the topic under discussion?	1	2	3	4	5	6	7	8	9	10	
Kilowieuge	2. Did the presenter use logical reasoning to deal with important and challenging	1	2	3	4	5	6	7	8	9	10	
	issues?											
	3. Did the presenter use appropriate scientific terms and language?	1	2	3	4	5	6	7	8	9	10	
Delivery	4. Was the presentation given in a clear and eloquent voice?	1	2	3	4	5	6	7	8	9	10	
	5. Did the presenter maintain good eye contact with the audience?	1	2	3	4	5	6	7	8	9	10	
	6. Was the presenter's appearance appropriate?	1	2	3	4	5	6	7	8	9	10	
	7. Did the presenter effectively manage any stress/anxiety?	1	2	3	4	5	6	7	8	9	10	
Content and Organisation	8. Was the topic introduced clearly?	1	2	3	4	5	6	7	8	9	10	
	9. Was the information well organized and presented logically?	1	2	3	4	5	6	7	8	9	10	
	10. Was the information presented relevant to the topic?	1	2	3	4	5	6	7	8	9	10	
	11. Was the information sufficient for the goals of the presentation?	1	2	3	4	5	6	7	8	9	10	
	12. Was a clear conclusion drawn from the overall discussion?	1	2	3	4	5	6	7	8	9	10	
	13. Was the information presented within the time allowed?	1	2	3	4	5	6	7	8	9	10	
	14. Did the presenter effectively use supporting materials (pointers, markers,	1	2	3	4	5	6	7	8	9	10	
	whiteboard, videos, and educational lips)?											
Ergonomics	15. Was the font size in the slides appropriate?	1	2	3	4	5	6	7	8	9	10	
	16. Were all materials presented in a suitable size?	1	2	3	4	5	6	7	8	9	10	
	17. Was there an appropriate balance between the text and graphics (figures,	1	2	3	4	5	6	7	8	9	10	
	charts, etc.)?											
	18. Were slides free from typographical and grammatical errors?	1	2	3	4	5	6	7	8	9	10	
	19. Was the contrast between the text colour and the slide background	1	2	3	4	5	6	7	8	9	10	
	appropriate?											

# Appendix I: Oral Presentation Assessment Tool