



Midwifery education in practice

Improving the content and face validity of OSCE assessment marking criteria on an undergraduate midwifery programme: A quality initiative



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ABSTRACT

Objective Structured Clinical Examinations (OSCE's) have been adopted as a means of assessing midwifery students' clinical skills. The purpose of the OSCE is to provide a standardised method for the evaluation of clinical skill performance in a simulated environment. This paper describes how a quality improvement initiative using both internal and external expert review was utilised to improve OSCE assessment marking criteria. The purpose of the quality initiative was to review the content and face validity of the marking criteria for assessing performance. The design and choice of tools used to score students' performance is central to reliability and validity. 20 videos of students from year one of a midwifery preregistration programme undertaking an OSCE assessment on abdominal examination and 18 videos of students response to obstetric emergencies e.g. PPH, and shoulder dystocia were available for review. The quality initiative aimed to strengthen the reliability and validity of the OSCE in assessing student performance. Conclusion: the use of global rating scales allows for the capturing of elements of professional competency that do not appear on specific criteria for skills performance checklists.

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Background

In undergraduate midwifery programmes a variety of assessment strategies are used to contribute to the currency and relevancy of the programmes and to reflect the core concept of woman centred care. Race and Pickford (2007) suggest that educators need to make systematic and thoughtful use of assessment as the principle motivator of the learning for the majority of students. Race (2005) proposes that the values and principles for assessment design should be valid and so should assess what it is you really want to measure. Assessments should be authentic so that student achievement is measured close to the intended outcomes and that performance skills should be measured in performance not just writing about it in an exam setting. If criteria and marking schemes are right there should be good inter-assessor reliability and good intra assessor reliability (Race, 2005). Harden described the OSCE in

1979 and was the first to focus on performance as a means of assessing medical professional competence (Hodges, 2003). Objective structured clinical examinations (OSCEs) have been adopted in many countries as a means of assessing undergraduate nursing and midwifery skills in on campus clinical skills laboratories (Nulty et al., 2011; Mitchell et al., 2009; Wallace et al., 2002). Selby et al. (1995) defines OSCEs as a circuit of stations where clinical skills are assessed by an examiner using previously determined objective marking criteria. It is important that assessments are efficient and manageable so that the demands on students and lecturers are effective in terms of time and resources (Race, 2005). OSCEs are time consuming and the challenges and opportunities associated with their use in a university setting have been documented (Brosnan et al., 2006; Noonan et al., 2008). Whilst OSCEs are seen as an objective and reliable means of assessment (Harden and Gleeson, 1979) there are many variations in use across nursing and midwifery which means that the reliability and validity of individual assessments need to be maintained (Rushforth, 2007). As Hodges (2003) highlights the main concern of all disciplines is a reliable and valid assessment of competence. According to Pender and de Looy (2004) assessment of skill competence under examination conditions may well have a predictive value for performance in actual practise. However Newble (2004) acknowledges that

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a below standard performance of a practitioner does not necessarily reflect a lack of professional competence and that skill performance and professional competence should be seen as two different constructs. As part of our commitment to on-going quality improvement process, we sought feedback from lecturers and students (Barry et al., 2012). In the review of our assessment strategy we identified strengthening of our marking criteria and the need for consistency between markers as areas for improvement. The purpose of the quality initiative was to review the content validity and face validity of the marking criteria with the aim of improving the reliability and validity of the OSCE in assessing student performance.

The OSCE assessment process prior to internal and external review

Clinical scenarios that require specific responses were developed. At each station the students' performance was rated by two examiners using a checklist. The checklists required the assessors to tick each element from a list as either 'done' or 'not done'. The examiners were trained in the use of the checklist. The responses of the student were measured against agreed criteria developed by the panel of midwifery lecturers, reflective of best evidence based practice. The marking criteria had been devised with reference to the advanced Life Support in Obstetrics ALSO (2000) provider Manual, standard Midwifery textbooks and international, national and local guidelines on best practice. The use of highlighted 'compulsory' items was adopted to emphasise the clinical importance of selected checklist items. Omission of these safety related items (e.g. auscultating the fetal heart rate for cord prolapse) would lead to an automatic fail irrespective of the overall percentage achieved.

The process for the quality review

The video recordings of 38 students undertaking their OSCE assessment using the Digital Nursing Archive (DNA) system were available to internal and external experts for review. The DNA system contained within the clinical skills laboratories has multiple uses in relation to teaching and learning strategies and the students are familiar with its use. The video is automatically transferred to the Digital Nursing Archive where the students' performance can be reviewed. Elder (1999) suggests that because video tapes can be viewed repeatedly they provide opportunities for more accurate pictures of the actual target behaviours. 20 students from year one of a midwifery preregistration programme were recorded undertaking an OSCE assessment on abdominal examination and 18 students in year three of the programme recorded responding to obstetric emergencies e.g. PPH, and shoulder dystocia. Permission was sought from the students prior to the internal and external reviewers viewing the video recordings. It was emphasised that this was a quality initiative and was not part of the students' assessment process. The viewing took place some weeks after the students' summative assessments and twelve of the recordings were reviewed internally.

Internal review

The panel of midwifery lecturers were asked to evaluate whether the checklists included all pertinent information related to a given scenario and to review the pass and fail criteria for each proposed OSCE. Face validity addresses the question of whether the items (the marking criteria) in the assessment tool (the OSCE) actually measure what they are intended to measure. Content validity in relation to an OSCE refers to the judgements made by

a panel of experts about the range to which the content of the examination appears to correctly examine and include the characteristics and domains that it was designed to appraise and assess (Bowling, 2002). The video recordings were reviewed independently by the panel with reference to the marking criteria in use.

Outcome of internal review

The review of the student performance showed a good level of theory underpinning their performance for instance all students demonstrated a systematic approach to performing abdominal examination with application of the underlying theory. Yet it was noted that the words used by the students when providing an explanation 'to the woman' during the assessment were very technical. It was clear from the recordings that emphasis was needed throughout the assessment criteria on the demonstration of a woman centred approach by the students in their interactions with the "woman" It was suggested that as lecturers we needed to emphasise more women friendly language and incorporate strategies into our teaching and learning to increase awareness of this amongst students.

It was felt that the present marking criteria did not guide the students towards demonstrating a holistic approach to the performance of abdominal assessment. For instance all the students indicated that they would gain consent from the "woman" at the outset of the examination thereby meeting the first criteria on the checklist. It was recognised that this technical approach was done for exam purposes and would not be the approach taken in practice. Consent needed to be emphasised as a process and not just an indication by the student that consent had been obtained thus fulfilling a tick box on a checklist.

Having individually reviewed a selection of recordings across both groups the internal review panel concluded that: the pass and fail criteria for each OSCE are clear, comprehensive and unambiguous, thus ensuring the consistency and fairness of marking during an actual OSCE. The team identified that there was an over concentration by the student on meeting each identified criteria and more emphasis was needed on the students overall performance. For instance for the OSCE on PPH the students were focused on remembering the next step rather than the demonstration of performance akin to the clinical context. It was felt that the present criteria didn't differentiate enough between students who carried out the OSCE in a holistic manner compared to a student who met the identified steps on the checklist. The internal review concluded that revised guidelines needed to emphasise a more women centred approach. Lecturers needed to incorporate strategies for developing the use of more woman centred language with students. It was decided that a global rating scale and a checklist incorporated into a user friendly document would improve the quality of the assessment process.

External review

Two external experts, one a senior lecturer in midwifery outside of Ireland and the other an external examiner to one of the midwifery programmes, reviewed six of video recordings independently of each other, to appraise the quality and relevance of the marking criteria. The remit was to review the marking criteria with reference to the student's performance, and while this provided a framework it allowed for discussion and dialogue with the internal panel of midwifery lecturers. Both reviewers identified the high level of knowledge and skills demonstrated by the students across both of the OSCE assessments.

In relation to abdominal examination both reviewers highlighted the technical nature of the language used, such as uterus,

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