



How to Incorporate OSCE's into NP Curricula

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The research reported on this poster was supported by D.W. Reynolds Foundation. The investigators retained full independence in the conduct of this research.



ABSTRACT

Purpose: The purpose of an OSCE (objective structured clinical examination) is to define to the nurse practitioner community what an OSCE is, what goes into an OSCE, and how to incorporate it into a program.

Review of Literature: Few studies exist in relation to the use of OSCE's as an assessment of advanced clinical practice curriculum. Articles found are from Europe and Canada where OSCE's have been included into the curriculum. However, literature suggests that OSCE's are a well established method of clinical assessment in the medical profession as evidenced by the revised USMLE (United States Medical Licensure Exam) Step 2 clinical skills for medical students. There has been an increase recently in other health professions, such as dentistry, radiography, and pharmacy programs to establish OSCE's into their curriculum. Domains and competencies for nurse practice were developed in the United States by the National Organization of Nurse Practitioner Faculties (NONPF) to include interpersonal and communication skills, history-taking skills, physical examination of a specific system, mental health assessment, clinical decision making, problem-solving skills, interpretation of clinical findings, management of a clinical situation, patient education, health promotion and acting safely and appropriately in an emergency situation. Each of these domains lends themselves to assessment through an OSCE.

Summary of the Innovation or Practice: Multiple choice test questions (MCQ) have been used to test if a student was competent for licensure examinations in healthcare professions. Educators have realized that MCQ tests, even though standardized and reliable, lack validity. The standardized patient examination has evolved as an important tool for teaching and assessment of health care practice. In an OSCE the nurse practitioner student would perform clinical tasks in a series of test stations while interacting with a trained layperson known as a standardized patient (SP). The stations may include history-taking, physical examinations, focused history and physical examination, a communication challenge, interpretation of laboratory results, patient management, or patient education. The SP is taught to portray a patient with a real illness. Each station is between 15-30 minutes in length and may have a post encounter to follow where nurse practitioner students may document (SOAP note), review laboratory data, EKG or X-rays and interpret findings, or provide patient education. A checklist is developed of clinical skills to be tested. The faculty or SP scoring will give credit if the proper questions were asked, necessary physical examination maneuvers were performed and communication skills were used accurately.

Implications for NPs: OSCEs allow faculty to observe nurse practitioner students in a controlled environment. Faculty can provide feedback for students immediately by reviewing video with students where in a clinical setting this would not be feasible.

PRINCIPLES OF CARE ACROSS THE LIFESPAN

Communication Skills	Functional Assessment & Intervention
<ul style="list-style-type: none"> 1. Create comfortable atmosphere 2. Build trust of patient 3. Identify communication barriers (culture, language, hearing, reading, and preferred language) 	<ul style="list-style-type: none"> 1. Identify ANKLE/AXIS activities 2. Observe patient activities with patient and family (posture) 3. Perform a functional physical exam 4. Discuss, observe existing compensatory strategies
<ul style="list-style-type: none"> 2. Assess effectiveness of communication throughout discussion 3. Monitor patient's response to communication 4. Clarify differences of understanding 5. Recognize and respond to patient's cues 6. Establish common and meaningful understanding of symptoms/signs 7. Bring issues to resolution (verbalize, rephrase, and use appropriate non-verbal cues) 8. Negotiate care for independent patient with patient 9. Offer and encourage appropriate care options 10. Document SOAP notes with 7 indicators of competence: diagnostic, therapeutic, plan, patient education, teaching, follow-up 	<ul style="list-style-type: none"> 2. Assess functional ability (walking and self-care) with adaptive interventions 3. Identify barriers to independence of person, environment, body/organism
Social Interaction and Relationship	Therapeutic Relationship/Intervention
<ul style="list-style-type: none"> 1. Identify living arrangement - with whom, care environment 2. Assess patient environment with available/required resources (social support) 3. Assess social support 4. Assess social support (emotional, financial, physical, and social) 5. Assess patient's ability to access needed resources (transportation, skills, ability, access, time, resources) available to meet needs 6. Assess patient's ability to access needed resources (transportation, skills, ability, access, time, resources) available to meet needs 7. Identify and provide patient goals of care 8. Identify patient's perceived needs of patient 9. Assess patient's perceived needs of patient 10. Assess patient's perceived needs of patient 11. Identify patient's perceived needs of patient 12. Identify patient's perceived needs of patient 	<ul style="list-style-type: none"> 1. Explain current management thoroughly (diagnosis, prevention, care of patient, interventions/prevention, alternative (s)) 2. Use evidence to support health & home of alternative (s) 3. Explain current management of health & home of current management 4. Explain patient perceptions of health & home of current management 5. Explain patient perceptions of health & home of current management 6. Explain patient perceptions of health & home of current management 7. Explain patient perceptions of health & home of current management 8. Explain patient perceptions of health & home of current management 9. Explain patient perceptions of health & home of current management 10. Explain patient perceptions of health & home of current management 11. Explain patient perceptions of health & home of current management 12. Explain patient perceptions of health & home of current management

FOCUSED EXAM CHECKLIST: HPI & FUNCTIONAL HISTORY

Subjective or Expanded History Includes relevant HPI, Functional, PMH, Sx, Rx, ROS components	Chief Complaint	History of Present Illness	Review of Systems	Functional History	Past Medical History	Medications	Family History	Review of Systems (optional)	On-Objective or Focused Physical Exam (includes VS and relevant systems exams)	General Observations, Vital Signs	Symptoms and Physical Exam	Occasion of encounter
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HOW TO PLAN AN OSCE

- Session Planning**
- Decide on the content to be tested
 - Identify scoring criteria
 - Develop a Checklist
 - Develop a Case for Standardized Patients (if applicable)
 - Set an agenda include timing (10, 15, 20, 30 minutes)
 - Create student instructions
 - Create faculty material (if necessary to assist with scoring)
- Pre-Session (Implementation)**
- Recruit standardized patients for case portrayal
 - Train standardized patients for case portrayal
 - Recruit faculty/standardized patients for scoring
 - Calibrate faculty/standardized patients for scoring
 - Record announcements for use during session
 - Build a session for scoring into system (ie: EMS, Web-SP, BeeLine, etc)
 - Copy material for faculty and students
 - Test all cameras, announcements and system to make sure working
- During Session**
- Make sure rooms are set up with correct equipment
 - Make sure student instructions are in doorway
 - Make sure DVDs are in machines or DVR is working
 - Make sure SPs are in rooms
 - Make sure faculty are able to see student for scoring
 - Make sure checklist is available for faculty scoring
 - Make sure students are ready for students' post encounter
 - Create additional viewing stations for SP quality assurance
- Post Session**
- Finalize DVDs or DVR of student performance
 - Generate student scores for session or case
 - Rescore performances for quality assurance
 - Review histogram for case information (curriculum information)

SESSION SCORING

Sample Scoring Checklist

FSUCOM faculty scoring an OSCE

POST-SESSION EVALUATION RESULTS

Scoring Criteria Explanation

Not Done
when the student has failed to undertake a particular activity required by the criteria, but done incorrectly

Done Incompletely/Incorrectly
when the student performed the activity required by the criteria, but done incorrectly

Done Completely/Correctly
when the has met the criteria successfully

Individual Performance: 5 Domains

Class Performance: History of Present Illness

SAMPLE SP TRAINING

Before, how was your ability for personal care, did you have difficulty brushing? Dressing?
Climbing?
ASL (American Sign Language) - (see given a 2 or a 4)
Frowning number
Before, how was your ability to do things around the house and out? Did you have difficulty driving? Cooking? Using your medications?
SLEP (Standardized Learning Experience Protocol) - The And/Or/Both/Neither/Neither/None
Before, how were you doing with your work, were you having any problems there? Any problems with your transportation?
AACE (Advanced Academic of Daily Living) - (see given a 2 or a 4)

STUDENT INSTRUCTIONS

SCENARIO
Patricia Young presents to the clinic with a complaint of chest discomfort.

Vital Signs
BP 115/75 mm Hg
Temp. 98.2 degrees F orally
RR 18 breaths per minute
HR 66 beats per minute

Tasks:
Take the appropriate history of present illness and complete an appropriate focused examination (20 minutes)

IMPLICATIONS FOR NURSE PRACTITIONERS

- Allows faculty to observe learners in a controlled environment
- Allows learners to receive feedback immediately following an encounter
- Allows assessment of clinical competence (NONPF guidelines)
- Allows assessment of curriculum effectiveness