



Sulkhani-Saba Orbeliani
UNIVERSITY

Objective Structural Clinical/Practical Examination

POLICY

Document has been approved

Medical Faculty council 16.05.2023

The policy has been created by the MD staff from Sulkhani Saba Orbeliani university with supervising invited international expert Daniel Salcedo (Case Western University. USA. OH)

This set of slides should be read in conjunction with the worked examples of the station design documents that you should have received along with this talk.

The workshop will build on this foundation of knowledge – allow you to try out your ideas on designing a station – then test it out.

1. Explanation

Objective	Structured	Clinical/Practical
<ul style="list-style-type: none">• Several stations• Uniform examination• Specific content• Multiple examiners• Specific standards	<ul style="list-style-type: none">• Blueprint• Learning outcomes• Core tasks• Fair• Representative of learning• Same problem	<ul style="list-style-type: none">• Performance-based• Applied knowledge• Higher level of assessment• “Shows How” – Miller C• Flexibility

2. Preparation of Blueprint

- The combined stations must cover all main learning outcomes
- Learning outcomes must be represented according to the importance

- Agreed on by all faculty involved
- Must only assess knowledge, skills, and attitudes which have been explicitly taught
- Consider practicality and cost effectiveness

3. Stations

3.1 Types of Stations

- Tasks or procedures
- Question
- Combined- Task and questions in the same station
- Rest

3.2 Components of Stations

Learner	Task	Designing the Task
<ul style="list-style-type: none"> • Single learner • Group of learners • Multidisciplinary 	<ul style="list-style-type: none"> • Patient care • Procedure • Question • Problem-solving (reasoning) • Documenting • Integrated task 	<ul style="list-style-type: none"> • Real patients • Simulated Patients • Hybrid (SP +Simulator) • Video recording • Case records • Laboratory Investigations

4. Examiners:

- Can be from a wide range of backgrounds
- Doctors, other health professionals, simulated or real patients, students
- Roles must be explicit and clearly defined (in writing)
- Training and full briefing must be standardized
- Each examiner must be deeply familiar with the station and the assessment instrument
- Rater training can improve OSCE reliability

5. Timing

Depends on the task (varies from 2-10 minute in each station)

6. Recording

Mandatory

7. Cases

Will be created by the board of the lecturers

8. Papers

1. Tasks paper

2. Checklist
3. Feedback for excimers
4. Cases

9. Process

The preparatory process starts from very beginning of the semester

1. Students are informed for the type of exam (numbers of stations, type of task, etc).
2. Training of the examiners
3. Prepare of the cases
4. Prepare task paper for each station (Student Paper)
5. Check-list for each station
6. Feedback form

9.1 Students Rotation

Students admit to the building without any electronic devices. The group is split in two parts (one is entering to the stations; another group is in a waiting room). None of the group member meet each other until the end of whole exam.

Students Paper will be collected by the supervisor who will Sum-up the points

Blueprint (According to the syllabi PA I)

Competency domain Systems	Communication skills and informed concern	Preparing equipment	Providing procedure (technics)	Protects infection control rights
Hand washing				
Putting and removing PPE				
Waste management				
Patient transportation, appropriate position in bed				
Respiration, temperature, pain scale				
Pulse, Blood pressure				
Intramuscular injection				
Subcutaneous/intradermal				
Performs immobilization for upper extremities				
Performs immobilization for				

lower extremities				
First aid in trauma patient				
Documentation				

Student Paper

Studding course:

Name and Surname

Dear student, you have 5 minutes in each station to complete your tasks.

The max point in each station is 2.5

Steps of the assessment in each station includes the following:

- **Max point** Student is able to demonstrate skill correctly, without any mistakes
- **Borderline point-** Student is able to demonstrate skills with minor mistakes
- **Min point-** Student is NOT able to demonstrate skills

Station N	Gained Point
N1	
N2	
N3	
N4	
N5	
N6	
N7	
N8	
N9	
N10	
N11	
N12	

Total Score

Student Signature _____

Data

Appendix 1

Objective Structured Clinical Examination (OSCE)

Station N1

Information for student

Patient Scenario:

This 30-years old male, school teacher came to the clinic for a routine checkup.

He has no symptoms.

Patient's name and family name: Teimuraz

Gender and Date of Birth: Male, 01. January .1984

Clinic ID: 2021-0099

Occupation: High School Math Teacher

TASK: (What is expected from a student?)

Measure arterial blood pressure of this patient waiting inside the room.

Make sure you follow all necessary steps to measure blood pressure according to the international blood pressure measurement guidelines.

DURATION OF THIS STATION IS



10 Minutes

You will be notified with a bell ring at the beginning and at the end of the allocated time



Patient's Scenario/ Instructions to the Patient

Patient's name and family name: **Teimuraz**

Gender and Date of Birth: **Male, 01. January .1984**

Clinic ID: **2021-0099**

Occupation: **High School Math Teacher**

Patient Scenario:

You are a 30-years old school teacher applied to this clinic for a routine checkup. You have no complaints, just wanted to have a check-up. The Doctor in the clinic is going to measure your blood pressure.

Please use the ID details given above during the measurement.

Please follow the Doctor's instructions during the measurement.

If she/he asks your permission/consent for the measurement, give it verbally immediately.

If she/he asks any of the questions below all your responses should be "NO"!

- Do you have any complaints? _____ **NO**
- Do you take any medication? _____ **NO**
- Are you anxious and/or nervous? _____ **NO**
- Have you been a physically active in the last 30 minutes? _____ **NO**
- Have you smoked and/or drunk stimulant drinks (*tea, coffee, energy drinks etc.*)
in the last 30 minutes? _____ **NO**

Patient's Scenario/ Instructions to the Examiner

*Patient's name and family name: **Teimuraz***

*Gender and Date of Birth: **Male, 01. January .1984***

*Clinic ID: **2021-0099***

*Occupation: **High School Math Teacher***

Patient Scenario:

This 30-years old school teacher applied to the clinic for a routine checkup. He has no complaints, just wanted to have a check-up.

What is expected from the student?

To measure the arterial blood pressure of this patient by following the accurate steps according to the international blood pressure measurement guidelines.

TASK: What is expected from the examiner?

Instructions to the Examiner

- Please observe the student during performing the task (measuring blood pressure)
- Please evaluate student's performance by marking appropriately on every check list item.
- Please **DO NOT INTERRUPT** the student except it is really needed and/or to prevent any harm for the patient.



Duration of this station is 10 minutes

Objective Structured Clinical Examination

Blood Pressure Measurement

Examiner

Name
Surname
Signature

Student

Name
Surname
ID:

STEP/TASK (<i>circle the appropriate point for each step</i>)	Done	Partially Done	Not Done
PREPARATION Introducing her/himself, confirming patient's ID, explaining the procedure and reassure the patient, washing hands, checking/preparing necessary materials.	0.2	0.1	0
PREPARATION OF THE PATIENT Positioning the patient in a sitting position and uncover one of his/her arms. Seeking if the patient is anxious, irritable or has been a physically active or if he/she has smoked, drunk stimulant drinks (tea, coffee, energy drinks etc.) in the last 30 minutes.	0.2	0.1	0
PROPER APPLICATION OF THE CUFF <i>Turn on the mercury valve (if it is mercury sphygmomanometer).</i> Center of blade must be over brachial artery (<i>the blade should cover 80% of the circumference of the upper arm</i>) and lower edge 2.5 cm above ante-cubital fossa.	0.4	0.2	0
PROPER PALPATION OF THE BRACHIAL ARTERY AND PLACEMENT OF THE STETHOSCOPE <ul style="list-style-type: none"> Palpating the brachial or radial artery while inflating the cuff till the point where pulsation disappears and keep inflating the cuff 20-30 mmHg more. Slowly deflating the cuff while noting the pressure at which the pulse reappears. Deflating the cuff completely. Placing the diaphragm of the stethoscope over the brachial artery at the point of maximal pulsation (<i>Stethoscope should not touch the cuff, clothing or rubber tubes</i>). 	0.8	0.4	0
PROPER RE-INFLATION AND DEFLATION OF THE CUFF Re-inflating the cuff to 20-30 mmHg and slowly deflate the cuff at a rate of 2-3 mmHg.	0.7	0.3	0
AFTER THE PROCEDURE Removing the cuff, ensuring the patient's comfort, making proper explanations, answering questions (if any), washing hands. Documenting the procedure.	0.2	0.1	0
Total score	2.5	1.2	0
Final score			

Passed

Borderline

Failed

Examiner notes if any:

Objective Structured Clinical Examination (OSCE)

Station 2

Information for student

YOU ARE EXPECTED TO

Perform a hygienic hand washing.

Make sure you follow all necessary steps to for hygienic hand washing according to the WHO's hygienic hand rubbing guidelines.

DURATION OF THIS STATION IS



5 Minutes

You will be notified with a bell ring at the beginning and at the end of the allocated time

Instructions to the Examiner

What is expected from the student?

To perform a hygienic hand washing by following the accurate steps according to the WHO's hygienic hand washing guidelines

TASK: What is expected from the examiner?

Instructions to the Examiner

- Please observe the student during performing the task (hygienic hand washing)
- Please evaluate student's performance by marking appropriately on every check list item.
- Please **DO NOT INTERRUPT** the student unless it is really necessary.



Duration of this station is 5 minutes

Objective Structured Clinical Examination

Hygienic Hand Washing

Examiner

Name
Surname
Signature

Student

Name
Surname
ID:

	STEP/TASK	Done	Not Done
	Preparation		
1.	Removing jewelries (<i>watch, bracelet, ring etc.</i>) and moved sleeves up over the wrist.	6	0
	Procedure		
2.	Wet her/his hands with water.	6	0
3.	Applying (2-4 ml) anti-microbial liquid soap and make lather by rubbing it firmly between her/his hands.	6	0
	Essential Actions (Rubbing hands)		
4.	Palm to palm.	10	0
5.	Right palm over left dorsum with interlaced fingers and vice versa.	10	0
6.	Palm to palm with finger interlaced.	10	0
7.	Back of fingers to opposing palms with fingers interlocked.	10	0
8.	Rotational rubbing of right thumb in clasped left palm and vice versa.	10	0
9.	Rotational rubbing backwards and forward with clasped fingers of right hand over palm and vice versa.	10	0
10.	Rinsing hands with water (<i>Do not shake water from hands</i>).	10	0
11.	Dry hands thoroughly with a single use paper towel. (<i>Use towel to turn off hand operated handle faucets</i>)	6	0
12.	Discard the paper towel in the appropriate container.	6	0
	Total score	100 %	0
	Student's Final Score		

OVERALL PERFORMANCE

PASSED

FAILED

Examiner notes if any:

Five Things to Remember about OSCE

1. Examines rotate through stations focused on specific skills or 1 competency
2. Highly structured with Blueprint based on learning outcomes
3. Examinees assessed by multiple examiners using instrument
4. Patients can be real, simulated or manikins
5. All examines are assessed with the same set of station