



SECHENOV UNIVERSITY  
LIFE SCIENCES

AMSEEA

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Azerbaijan Medical Simulation  
Education Association



SIMULATION CENTER  
SECHENOV UNIVERSITY  
BAKU

# THE GUIDE TO THE OSCE

## Practical skills in obstetrics and gynecology

Specialty:  
General medicine

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### The duration of the station

The total time to complete the skill is 10 minutes.

Accredited person's time at the station is 8.5 minutes (in case of early performance of a practical skill, the accredited person stays inside the station until the voice command "Enter the station, say your ID number and listen to the assignment").

### Timing of the practical skill

Time of the voice command	Voice Command	Action of the accredited person	Skill performance time
0'	Enter the station, say your ID number and listen to the assignment	Listen to the station assignment (briefing). Initiation of the work at the station	0,5'
8,0'	You have one minute left	Work continuing at the station	8,5'
9,0'	Time is up	Wait for the next command	1'

### List of situations (scenarios)

№	Situation (scenario)
1	Examination of the pregnant woman closer to the delivery
2	Delivery

The choice and sequence of situations is determined by the member of the commission on the day of the exam.

## Examination of the pregnant woman closer to the delivery

### Information for the accredited person (briefing)

You are an obstetrician-gynecologist. A pregnant woman is waiting for you in the office for an obstetric examination. Turn to right and start. Voice your actions.

### Skill performance algorithm

No	Action of the accredited person
1	Say hello to the patient
2	Introduce yourself, indicate your role
3	Identify the patient according to medical record and inquire about the patient's well-being
4	Ask the patient about her last menstrual period (LMP)
5	Calculate the estimated date of delivery (EDD)
6	Inform the patient about the upcoming procedure
7	Check, whether the patient gave voluntary informed consent for the upcoming procedure
8	Disinfect hands by hygienic way
9	Put on disposable examination gloves
<b>Conducting an external obstetric examination (fetal palpation):</b>	
10	Start the examination by standing on the right side of the patient and facing the patient's face
11	The I Leopold's maneuver: the palms of both hands shall be placed on the uterus so that they tightly cover the uterine fundus, the nail phalanxes of the fingers are facing each other
12	Voice the purpose of the I Leopold's maneuver
13	The II Leopold's maneuver: press with the palms and fingers of both hands on the side walls of the uterus
14	Voice the purpose of the II Leopold's maneuver
15	The III Leopold's maneuver: cover with one hand the presenting part of fetus, after which they carefully move this hand to the right and left
16	Voice the purpose of the III Leopold's maneuver and the presenting part of fetus
17	Change your position and continue the examination by facing the patient's feet
18	The IV Leopold's maneuver: place both hands on the lower segment of the uterus and bring them closer
19	Voice the IV Leopold's maneuver purpose
<b>Auscultation of the fetus</b>	
20	Press the obstetric stethoscope's wide bell to the mother's abdomen
21	Correctly determine the place of listening to the fetal heartbeat
<b>Calculation of the estimated weight of the fetus</b>	
22	Measure the circumference of the abdomen: place measuring tape at the level of navel - in front, at the level of the lumbar region - behind

23	Determine the fundal height: place measuring (centimeter) tape along the midline of the abdomen, measure the distance between the upper edge of symphysis and the most protruding point of the uterine fundus
24	Calculate the estimated weight of the fetus according to the rule: height of the uterus bottom $\times$ abdominal circumference $\pm$ 200 gr
<b>Determining the dimensions of the large pelvis</b>	
25	Hold the pelvimeter correctly. Pick up the pelvimeter arms so that the thumb and index finger hold the bulbs. The scale of pelvimeter must be facing up
26	Determine the first transverse dimension, distantia spinarum (voice the normal state).
27	Determine the second transverse dimension distantia cristarum (voice the normal state)
28	Determine the third transverse dimension distantia trochanterica (voice the normal state)
29	Ask the patient to change the position: turn on her left side, bending the left leg at the knee and hip joints, and keep the right leg extended
30	Fourth antero-posterior diameter (voice the normal state)
31	On the basis of conjugata externa determine the conjugata vera
<b>End of procedure</b>	
32	Inform the pregnant woman about the completion of examination
33	Take off the gloves, consumables and place them in class B container for disposal
34	Disinfect hands by hygienic way
35	Inform the pregnant woman about the examination results

## Delivery

### Information for the accredited person (briefing)

You are an obstetrician-gynecologist. A woman giving birth is waiting for you in the delivery room. Turn to left and start. Voice your actions.

### Skill performance algorithm

No	Action of the accredited person
1	Say hello to the patient
2	Introduce yourself, indicate your role
3	Identify the patient according to medical record and inquire about the patient's well-being
4	Ask the patient about complaints: <ul style="list-style-type: none"> <li>• when contractions started</li> <li>• frequency, duration, time between contractions</li> <li>• when the amniotic fluid flows</li> <li>• the presence of vaginal discharge</li> <li>• nature of uterine discharge</li> </ul>
5	Disinfect hands by hygienic way
6	Put on sterile gloves
<b>Physiology of childbirth</b>	
7	To determine the degree of opening of the cervix
8	To demonstrate the biomechanism of labor in an occiput anterior breech presentation
9	Place the child on the mother's belly after birth
10	Set up two Kocher's clamps, at 10 cm distance from the umbilical ring (retraction) and the second one - stepping back 2 cm from the first clamp
11	Treat the area to be cut with an antiseptic (represent)
12	Take medicinal scissors and cut the cord between the Kocher's clamps
13	Give the child to a neonatologist with a Kocher clamp (conditionally)
14	Sounding of the active conduct of the III stage of labor <ul style="list-style-type: none"> <li>• for the prevention of bleeding, within 1 minute after the birth of the child, perform (sound) an intramuscular injection of 10 units or intravenous 5 units of oxytocin to the mother</li> <li>• keep the umbilical cord incision intact</li> <li>• external massage of the uterus immediately after the expulsion of the placenta</li> </ul>
<b>Checking the signs of the placenta detachment</b>	
15	Check Schroder's sign (represent)
16	Check Kustner sign (represent)
17	Check Alfeld's sign (represent)
18	Check Klein's sign (represent)
<b>Methods of external placenta detachment</b>	
19	Apply the Abuladze method by sounding it out

20	Apply the Krede method by sounding it out
21	Apply Hunter's method by sounding it out
22	Check the completeness of the placenta
<b>Period of physiological intelligence</b>	
23	Uterine massage is performed every 15 minutes in the first 1 hour after birth, and every 30 minutes in the 2nd hour (voicing)
24	Duration and management of late childhood development (voicing and describing)
25	Determining the number of days after birth based on the size of the uterus
26	Take off the gloves, consumables and place them in class B container for disposal
27	Disinfect hands by hygienic way

**Dialogue with an accredited person  
sample texts of input information in the frame**

<b>№</b>	<b>Action of the accredited person</b>	<b>Indicative text</b>
1	When the accredited person identifies the last name, first name and age of the patient	«Leyla Mammadova, 30 years old»
2	When asking patient's well-being	«Normal»
3	When checking the presence of voluntary informed consent to the procedure	«Informed voluntary consent will be considered to have been received»
4	When determining the date of the patient's last menstrual period	«XX.02. – 10.02.2023»
5	When an accredited person tries to wash his hands by hygienic way	«Let is assume that the hands have been disinfected»
6	When the I Leopold's maneuver is being performed	«The large, soft, indefinite shaped part of the fetus is determined»
7	When the II Leopold's maneuver is being performed	«A smooth, flat part is handled on the right side, and small parts are set on the left sid »
8	When the III Leopold's maneuver is being performed	«The round, hard large part of the fetus is determined»
9	When the IV Leopold's maneuver is being performed	«The small pelvis is compressed»
10	When listening to the fetal heartbeat	«Fetal heartbeat is 140 beats per minute, clear, rhythmic»
12	When measuring the abdominal circumference	«100 cm»
13	When measuring the height of the uterus bottom	«32 cm»
14	When the patient is asked to turn on her left side to measure the external conjugate	«We will consider that the patient turned on her left side»
15	When trying to wash hands by hygienic way	«Let is assume that the hands have been disinfected»

**Dialogue with an accredited person  
sample texts of input information in the frame**

<b>№</b>	<b>Action of the accredited person</b>	<b>Indicative text</b>
1	When the accredited person identifies the last name, first name and age of the patient	«Leyla Mammadova, 30 years old»
2	When asking patient's well-being	«Normal»
3	When the accredited person specifies patient's complaints	«There are contractions, amniotic fluid flowed from the fetus»
4	When asking the time and nature of contractions	«Onset 1/2/3/5/7/9 hours ago, seizure-like»
5	When asking about the time when the amniotic fluid started to flow	«An hour ago»
6	When asking about the nature of uterine secretions	«Amniotic fluid»
7	When trying to wash hands by hygienic way	«Let is assume that the hands have been disinfected»
8	When trying to cut the umbilical cord	«We will consider that the umbilical cord was cut»
9	After checking for signs of separation of the placenta	«Signs of separation of the placenta are positive, but the woman cannot deliver the placenta»
10	When trying to examine the placenta	«Placenta is complete»
12	When trying to wash hands in a hygienic way	«Let is assume that the hands have been disinfected»



## Reference information

*Calculating the estimated date of delivery (DET) based on the last menstrual period (LMT):*

The history of the last menstruation from the pregnant woman is studied. 3 months from the specified date are counted back and 7 days are added to it.

### *Leopold's examination methods:*

The purpose of the I Leopold's maneuver: to determine the height of the uterine fundus and the large part of the fetus in the fundus. I Leopold's method: the palms of both hands are placed on the bottom of the uterus, with the fingertips pointing towards each other.

The purpose of the II Leopold's maneuver: to determine the condition, position and appearance of the fetus. Careful pressure is applied to the side walls of the uterus with the palms and fingers of both hands.

The purpose of the III Leopold's maneuver: to determine the condition, position and appearance of the fetus. Careful pressure is applied to the side walls of the uterus with the palms and fingers of both hands.

The purpose of the IV Leopold's maneuver: to determine the relationship of the presenting part of the fetus to the planes of true pelvis. Facing the patient's feet, place both hands on the lower segment of the uterus and bring them closer.

### *The size of the abdominal circumference of a pregnant woman:*

At the end of pregnancy, the circumference of the abdomen is 90-100 cm. The presence of abdominal circumference above 100 cm means polyhydramnios, large fetus, obesity, transverse position of the fetus, etc. may depend.

### *Placenta detachment:*

If there is no bleeding, the detachment of the placenta can be expected within 30 minutes.

Schroeder's sign - the fundus of the uterus is raised, above and to the right of the navel (hourglass).

Chukalov - the umbilical cord incision does not retract when pressure is applied to the groin with the external edge of the hand.

Alfeld's sign - extension of the external umbilical cord section, the ligature goes down 8-10 cm.

Klein's sign - the elongated umbilical cord incision does not retract after stopping the pushing.

*Treatment of external genitalia before internal examination:*

Sterile control balls are taken with a cornsag and treated with skin antiseptic, and then the labia, groin area, inner surface of the thigh, perineum and anus are treated sequentially.

*Methods of external placenta detachment:*

- Abuladze method. With both hands, the front wall of the abdomen is held in the form of folds, they offer the woman to push.
- Krede method. The uterus is brought to the middle position, a light caress is applied to contract the uterus (no massage!). Then, with four fingers on the back wall of the uterus, the palm at the bottom of the uterus, and the thumb on its front wall, pressure is applied to the uterus with the whole hand in two intersecting directions (thumb from front to back, palm from top to bottom). Do not offer the patient to push.
- Hunter method. Uterus is brought to the middle. A light caress is taken from the front wall of the abdomen to collect the uterus. Then, facing towards the legs of the woman giving birth, hands clenched like fists should be placed in the area of the tubal angles of the uterus and gradually pressure should be applied to the uterus and groin. Do not offer the patient to push.

### Chec klist (scenario 1)

№	Action of the accredited person	Evaluation criteria	
		<input type="checkbox"/> yes	<input type="checkbox"/> no
1	Communicates verbally and non-verbally with the patient	<input type="checkbox"/> yes	<input type="checkbox"/> no
2	Clarified the date of the last menstruation	<input type="checkbox"/> yes	<input type="checkbox"/> no
3	Calculated EDD	<input type="checkbox"/>	<input type="checkbox"/>
4	Disinfect hands in a hygienic way and put on examination gloves	<input type="checkbox"/> yes	<input type="checkbox"/> no
5	Performed I Leopold's manevure's and voice her goal	<input type="checkbox"/> yes	<input type="checkbox"/> no
6	Performed II Leopold's manevure's and voice her goal	<input type="checkbox"/> yes	<input type="checkbox"/> no
7	Performed III Leopold's manevure's and voice her goal	<input type="checkbox"/> yes	<input type="checkbox"/> no
8	Performed IV Leopold's manevure's and voice her goal	<input type="checkbox"/> yes	<input type="checkbox"/> no
9	Determined the place of listening to the fetal heartbeat	<input type="checkbox"/> yes	<input type="checkbox"/> no
10	Measure abdominal circumference and uterine fundus height	<input type="checkbox"/> yes	<input type="checkbox"/> no
11	Calculate the estimated weight of the fetus	<input type="checkbox"/> yes	<input type="checkbox"/> no
12	Hold the pelvimeter correctly	<input type="checkbox"/> yes	<input type="checkbox"/> no
13	Determined D.spinarum	<input type="checkbox"/> yes	<input type="checkbox"/> no
14	Determined D.cristarum	<input type="checkbox"/> yes	<input type="checkbox"/> no
15	Determined D.trochanterica	<input type="checkbox"/> yes	<input type="checkbox"/> no
16	Determined Conjugata externa	<input type="checkbox"/> yes	<input type="checkbox"/> no
17	Calculate the conjugate vera	<input type="checkbox"/> yes	<input type="checkbox"/> no
18	Placed gloves in class B container for disposal	<input type="checkbox"/> yes	<input type="checkbox"/> no
19	Disinfect hands by hygienic way	<input type="checkbox"/> yes	<input type="checkbox"/> no
20	Informed the patient about the manipulation results	<input type="checkbox"/> yes	<input type="checkbox"/> no

### Чеч клист (scenario 2)

№	Action of the accredited person	Evaluation criteria	
		<input type="checkbox"/> yes	<input type="checkbox"/> no
1	Communicates verbally and non-verbally with the patient	<input type="checkbox"/> yes	<input type="checkbox"/> no
2	Clarified the patient's complaints	<input type="checkbox"/> yes	<input type="checkbox"/> no
3	Disinfect hands in a hygienic way and put on examination gloves	<input type="checkbox"/> yes	<input type="checkbox"/> no
4	Demonstrates the correct conduct of a vaginal examination to determine if the cervix is dilated	<input type="checkbox"/> yes	<input type="checkbox"/> no
5	Correctly determines the degree of opening of the cervix	<input type="checkbox"/> yes	<input type="checkbox"/> no
6	Demonstrates the biomechanism of birth in anterior view occiput presentation	<input type="checkbox"/> yes	<input type="checkbox"/> no
7	Voiced the fixation points for this biomechanism of childbirth	<input type="checkbox"/> yes	<input type="checkbox"/> no
8	He voiced the tactics of conducting the third stage of labor	<input type="checkbox"/> yes	<input type="checkbox"/> no
9	Correctly applied two Kocher clamps	<input type="checkbox"/> yes	<input type="checkbox"/> no
10	Handled the umbilical cord intersection and cut the umbilical cord between the clamps	<input type="checkbox"/> yes	<input type="checkbox"/> no
11	Assessed Schroder's signs	<input type="checkbox"/> yes	<input type="checkbox"/> no
12	Assessed Alfeld's signs	<input type="checkbox"/> yes	<input type="checkbox"/> no
13	Assessed Klein's signs	<input type="checkbox"/> yes	<input type="checkbox"/> no
14	Assessed Kustner signs	<input type="checkbox"/> yes	<input type="checkbox"/> no
15	Demonstrates the Abuladze method	<input type="checkbox"/> yes	<input type="checkbox"/> no
16	Demonstrates the Krede method	<input type="checkbox"/> yes	<input type="checkbox"/> no
17	Demonstrates the Genther method	<input type="checkbox"/> yes	<input type="checkbox"/> no
18	He voiced the rules for managing the early postpartum period and demonstrated	<input type="checkbox"/> yes	<input type="checkbox"/> no
19	According to the level of standing of the bottom of the uterus, correctly announced the day of the postpartum period	<input type="checkbox"/> yes	<input type="checkbox"/> no
20	Placed gloves in class B container for disposal	<input type="checkbox"/> yes	<input type="checkbox"/> no
21	Disinfect hands by hygienic way	<input type="checkbox"/> yes	<input type="checkbox"/> no

### Normative and methodological support of the passport

1. Modern diagnostics and treatment in obstetrics and gynecology “Gunesh” Medical Publishing House 11 Publishing House 2010
2. Williams Obstetric. Publisher: McGraw Hill / Medical; Edition: 26th, 2022
3. Obstetrics Eds. G.M. Savelyeva, G.T. Sukhikh, V.N. Serov, V.E. Radzinski 2-nd edition, revised and enlarged M.: ГЭОТАР-Медиа, 2019
4. [https://www.wikilectures.eu/w/The\\_third\\_period\\_of\\_labor](https://www.wikilectures.eu/w/The_third_period_of_labor)