

**Ministry of the Health of Ukraine  
Lviv Danylo Halytskyi National Medical University**

**OBJECTIVE STRUCTURED CLINICAL EXAMINATION**

**ALGORITHM**

**of mastering the clinical skills tasks at station number 5**

- 1. "Taking a full arch anatomical impression with alginate material of the lower jaw"**
- 2. "Taking a full arch anatomical impression with alginate material of the upper jaw"**

<b>№</b>	<b>Stages of the task</b>	<b>Criteria for evaluation</b>
1	<b>Selection of an impression tray</b>	A standard perforated tray should be selected, one that covers dental arch at a distance of 0,3-0,5 cm from vestibular, occlusal and lingual sides with its borders.
2	<b>Preparation and insertion of impression tray</b>	With the help of the scoop necessary amount of powder (2-3 gauges) is poured into a bowl and the appropriate amount of water (according to the manufacturer's instructions) is added, mixed intencively with a spatula until a homogeneous mass is obtained. The mixture is loaded to a tray slightly above the borders, on the palatinal part - depending on the expression of the palate, on the distal part - the minimum amount of material.
3	<b>Intraoral insertion of impression tray with alginate materials, aplication on the foundation area, shaping of impression borders, removal of impression from the oral cavity</b>	The tray is inserted into the oral cavity sideways, retracting the corner of the mouth with the dental mirror, positioned correctly to the dental arch, and placed the tray on the foundation area (upper and lower dental arches respectively- from distal to frontal region and frontal-to - distal direction), with simultaneous movement of the tray from anterior-to-distal and upwards. Holding a tray with

		<p>one hand, shaped the borders of the impression by a passive movements of the upper lip and cheeks by the other hand.</p> <p><b>On the lower jaw</b> - simultaneously with the insertion of a tray, the patient raises the tongue to the palate, then the tray is oriented on the dental arch and pressed inplace with the index fingers of both hands while simultaneously lowering the tongue- antero-posteriorly. When holding a tray with one hand, shaping borders of the impression is carried out by another hand.</p> <p>Removal of the impression is carried out by one decisive lever-like movement, in which the doctor places the index fingers along the border of the impression near the vestibular fold and "tears off" the set material on a tray from the dental arch.</p>
4	<p><b>Processing and disinfection of the impression</b>  <b>Working up and disinfection of the impression</b></p>	<p>After removal the impression, it is rinsed out from the pollutants (blood and saliva) and evaluated. The impression should adhere tightly to the impression tray, clearly reproduce all the elements of the foundation area and have no significant defects in the form of voids. The reproduction of the dental arch should be located in the center of the impression tray. Disinfection of impression is performed with a 0.2% glutaraldehyde .</p>

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**OBJECTIVE STRUCTURED CLINICAL EXAMINATION**

**ALGORITHM of EVALUATION**

**Completion of the task at the station number 5**

**"Taking a full arch anatomical impression with alginate material"**

N з/п	Stages of the duty	Scores
1.	<b>Selection of an impression tray</b>	<b>0.2 point</b> - the student makes a correct choice of a tray for the appropriate (alginate) impression of upper or lower dental arch, demonstrates the correspondence of the tray size to the dental arch in full.
		<b>0.1 point</b> - the student makes a incorrect choice a tray for the appropriate (alginate) impression and upper or lower dental arch, or does not demonstrate the correspondence of the tray size to the dental arch in full.
		<b>0 point</b> - the student incorrectly chooses tray for the appropriate (alginate) impression and upper or lower dental arch, or does not demonstrate the correspondence of the tray size to the dental arch in full.
2.	<b>Preparation and insertion of impression tray</b>	<b>0.2 point</b> - the student pours the alginate powder (2 scoops) into a mixing bowl and adds an appropriate amount of water, pressing the mixture against the sides of the bowl, spatulates the material to the appropriate consistency, and distributes the impression material to the tray.
		<b>0.1 point</b> - the student makes mistakes with the order of adding water and alginate powder material, or does not keep the proportion of water and powder material, or unevenly applies a impression material to the impression tray.
		<b>0 points</b> - the student mixes alginate material with inappropriate consistency, has exceeded the mixing time, did not manage to apply an impression material to the impression tray.
3.	<b>Intraoral insertion of impression tray with alginate materials, application on the foundation area, shaping of impression borders, removal of impression from the oral cavity</b>	<b>0.5 points</b> - the student retracted the left corner of the mouth by the index finger of the left and inserted a tray with an impression material into the oral cavity by the right hand, positioned a tray correctly to the dental arch, and placed the tray on the foundation area (upper and lower dental arch respectively- from distal to frontal region and frontal-to -distal direction), formed the margins of the impression by a passive movements, with rocking out the tray with alginate material from the foundation area, and, retracting one of the corners of the mouth, removed an impression tray with alginate material from the oral cavity.
		<b>0.25 point</b> - a student with difficulties inserted a tray with an impression material to the oral cavity or positioned a tray

		<p>incorrectly to the dental arch, and did not properly placed the tray on the foundation area, or did not completely shaped the impression borders by a passive movements, or with difficulty separated impression tray with an impression material from the prosthetic field and brought out a impression tray from the oral cavity.</p>
		<p><b>0 point</b> - student with difficulty inserted a impression tray with an impression material to the oral cavity, did not position it correctly, and did not adhere to the sequence of steps, carried out the placement of a impression tray with impression material on the prosthetic bed, did not shape impression borders, with difficulty separated the impression tray with an impression material from the prosthetic field and brought out a impression tray from the oral cavity.</p>
<p>4.</p>	<p><b>Working up and disinfection of the impression</b></p>	<p><b>0.1 point</b> - the student rinsed the impression under the tap water, disinfected it appropriately, conducted evaluaion of the impression, placed the impression in a sealed plastic bag, and by moistening the contents of the plastic packet with a water spray, closed it.</p> <p><b>0.05 point</b> - the student did not rinse the impression under the tap water or did not process it with the appropriate disinfectant, or did not check out the impression, or placed a impression in the sealed plastic packet and closed it without moistening the contents of the package with water spray.</p> <p><b>0 points</b> - the student did not rinse the impression under the tap water, did not disinfect it appropriately, or did not check out the impression, did not place an impression in the wetted sealed plastic packet.</p>