

**MINISTRY OF HEALTH OF UKRAINE
DANYLO HALYTSKY LVIV NATIONAL MEDICAL UNIVERSITY
DEPARTMENT OF PROSTHETIC DENTISTRY**

**OBJECTIVE STRUCTURED CLINICAL EXAMINATION –
DENTISTRY**

**ALGORITHM
for performing tasks at the station number 6
"Metal ceramic crown cementation"**

№	Stages of performing tasks	Evaluation criteria
1	Preparation of crown and abutment tooth for cementation	Perform disinfection and degreasing of the crown with a cotton pellet soaked in alcohol. Clean the abutment tooth with hydrogen peroxide or alcohol. Insulate the abutment tooth from oral fluid with cotton rolls.
2	Selection and mixing of the cement	<p style="text-align: center;">For permanent fixation GLASS IONOMERIC CEMENT on the example of the material Fuji I.</p> <p>Lightly tap the bottle with powder against the hand. Take one level scoop of powder and place it on mixing pad. Hold the liquid bottle vertically and squeeze gently 2 drops of liquid. Close bottles immediately after use.</p> <p>Dispense powder and liquid onto the pad. Using the plastic spatula, add all the powder to the liquid. Mix rapidly for 20 seconds.</p> <p>When mixing larger amounts, divide the powder into two equal parts. Mix the first portion with all of liquid for 5 seconds. Incorporate the remaining portion and mix the whole thoroughly for 15 seconds (total 20 seconds).</p> <p style="text-align: center;">For permanent fixation POLYCARBOXYLATE CEMENT on the example of the material Adgesor carbofine.</p> <p>For one crown cementation place two level scoops of powder and 5 drops of liquid on glass plate. Divide the powder into two</p>

		<p>equal parts. Using the metal spatula, mix the first portion with all of liquid. Then incorporate the remaining portion and mix the whole thoroughly (total 30 seconds).</p> <p style="text-align: center;">For permanent fixation ZINC-PHOSPHATE CEMENT on the example of the material Adgesor</p> <p>For one crown cementation place two level scoops of powder and 5 drops of liquid on glass plate. Divide the powder into two equal parts. Using the metal spatula, mix the first portion with all of liquid. Then incorporate the remaining portion and mix the whole thoroughly (total 30 seconds).</p> <p style="text-align: center;">For temporary fixation on the example of the material in the form of "paste-paste"</p> <p>On mixing pad squeeze gently the base-paste and catalyst-paste (same amount) from the tubes (the volume depends on the number of crowns). Using the spatula, mix two paste for 30 seconds until homogeneous consistency.</p>
3	Application of cement to the crown, cementation of the crown on the abutment tooth	<p>Coat the internal surface of the crown with sufficient cement and seat immediately on the abutment tooth. Maintain moderate pressure.</p> <p>Check the occlusal contacts.</p>
4	Cleaning the crown from the cement residues after its structuring	<p>Clean the external surface of the crown and the cervical part of the tooth from the cement residues after structuring. Use dental floss to clean the interdental spaces.</p>