

**LIST OF STATIONS**  
**STUDENT ACTION ALGORITHM**

**COMPETENCES**

**(SURGERY)**

1. Laparocentesis
2. Applying a tourniquet to stop external bleeding
3. Pleural puncture
4. Primary surgical treatment of wounds
5. Nodal suture
6. Pericardial puncture of Larrey
7. PARANEFRAL BLOCKADE
8. BLOCK anesthesia of intercostal nerve rib fractures
9. Opening and drainage of the abscess
10. Removal of a nodal suture
11. Finger rectal examination

## **Algorithm of a student's action when conducting a competence “Laparocentesis”**

### **The student must:**

1. Put the mannequin on the table.
2. Wear a mask, handle hands, wear sterile rubber gloves.
3. Process twice the operative field 2 cm below the navel with alcohol.

**Articulate the action of paragraphs 4,5,6,7,8,9,10,11,12 without performing on a dummy**

4. Perform anesthesia with 0.5% p-rum novocaine in the midline.
5. Cut through the skin, subcutaneous tissue and aponeurosis for 4-5 cm.
6. Sew with aponeurosis with a needle.
7. Raise the abdominal wall by the threads up.
8. Troacar pierce the abdominal wall through the wound.
9. Remove the stylet. Definitely, or something flows from the abdominal cavity or not.
10. In the absence of liquid contents, a drainage tube is introduced from a dropper into the abdominal cavity through a metal tube; remove the metal tube.
11. We enter through the drainage of saline, we see that it flows through the drainage.
12. We put stitches on the wound. Fix the drainage.
13. We impose an aseptic bandage.

## **The student's action algorithm from the competence “Applying a tourniquet to stop external bleeding”**

### **The student must:**

1. Lay the mannequin on the table.
2. Put under the limb a gasket in 2-3 layers
3. An unfastened tourniquet, circled around the limbs and fixed on a stretched thigh, fasten the chain ring to the hook.
4. Check whether the bleeding has stopped.
5. Apply a sterile dressing to the wound
6. Under the tourniquet, fix a piece of paper indicating the time when the tourniquet was applied.

**Algorithm of student actions when performing a competence:  
«Pleural puncture»**

1. Plant the patient (dummy) with the arm set aside and placed on the support.
2. Wear a mask and rubber gloves.
3. Treat the skin in the puncture area with an alcohol solution of iodine.

**Articulate the action of paragraphs 4,5,6,7 without performing on a dummy**

4. Conduct anesthesia with a solution of novocaine at the site of a future puncture
5. A needle of thick diameter pierces the skin in the second intercostal space or in the VII intercostal space along the upper edge of the rib.
6. Backward movement of the piston sucks the contents, we determine its character - air or blood.
7. Attach an adapter to the needle and suck out the contents by pinching the rubber tube to prevent air from entering the pleural cavity.
8. Puncture end in case of termination of air or blood in the syringe.
9. We impose an aseptic bandage.

**Algorithm of student's action when performing a competence  
"Primary surgical treatment of wounds."**

**The student must:**

1. Wear a mask
2. Treat hands with antiseptic
3. Wear rubber gloves

**Articulate the action of paragraphs 4,5,6,7 without performing on a dummy**

4. Treat the skin around the wound three times with an antiseptic.
5. Perform palpation and instrumental revision of the wound.
6. Treat the wound cavity with an antiseptic
7. Dry the wound
8. Put on an aseptic dressing.
9. To voice the need for the introduction of tetanus toxoid

**Algorithm of a student's action when performing a competence  
"Nodal Suture".**

**The student must:**

1. Clean up your hands with an antiseptic
2. Put on rubber gloves
3. Treat the skin around the wound with an antiseptic
4. Take the needle with tweezers and fix it correctly in the needle holder.
5. Thread the needle
6. Pass the needle through the tissue on both sides of the wound.
7. Tie a thread into three knots,
8. Cut the loose ends of the thread, departing 1 cm from the knot
9. Put used tools and materials in a disinfection container.

**Algorithm of a student's action when performing a competence  
"Pericardial puncture of Larrey"**

1. A student places a mannequin on his back on a desk with a raised upper half at an angle of 30°-35°.
2. The student puts on a mask, handles hands puts on rubber sterile gloves.
3. A student processes the puncture site with a solution of alcohol and iodine, setting the sterile wipes.

**Articulate the action of paragraphs 4,5,6,7 without performing on a dummy**

4. The student infiltrates the skin and adjacent tissues in the corner with Novocaine, created by the xiphoid process with the left costal arch.
5. A puncture needle perpendicularly pierce the aponeurosis of a straight line. the abdominal muscle to a depth of 2-2.5 cm. After that, the needle turns parallel to the sternum and introducing novocaine advances the needle to a depth of 3.5 cm. 6.
6. After the sensation of "falling through" blood flows into the syringe. Cavity the pericardium is completely exempt from the contents.
7. The needle is removed. A sterile dressing is applied to the puncture site.

**Algorithm of the student's a competence:**

**«PARANEFRAL BLOCKADE »**

**Student must:**

1. Put the dummy on the roller on the healthy side.
2. Hand work, wear sterile rubber gloves.
3. Find the costal-spine angle; process the operating field with alcohol.  
**Articulate the action of paragraphs 4,5,6,7,8 without performing on a dummy**
4. Perform anesthesia 0.25% solution of novocaine.
5. Perpendicular to the surface of the body is injected long up to 14 cm needle, introducing when advancing a solution of 0.25% of novocaine
6. Determine the moment of "collapse" of the needle into the pararenal space.
7. To enter in the paranephral space 60,0-80,0 0,25% solution of novocaine
8. Remove the puncture needle.
9. To treat a puncture site with an antiseptic, to apply a bandage.
10. Put spent material and tools in a container for disinfection

**Algorithm of the student's a competence:**

**«BLOCK anesthesia of intercostal nerve rib fractures»**

**Student must:**

1. Put the dummy on the table on the back or on the healthy side.
2. Wear a mask, treat hands, put on sterile rubber gloves.
3. Treat the skin with an alcohol solution of iodine.  
**Articulate the action of paragraphs 4,5,6,7,8,9 without performing on a dummy**
4. Conduct anesthesia with a solution of novocaine
5. The needle is pricked into contact with the lower part of the rib.
6. The skin is slightly pulled down, with the needle moving even lower.
7. With a slight displacement of the needle deep into (3-4 mm) it falls into the area of the neurovascular bundle.
8. Introduce 10-30 ml of 0.25% solution of novocaine.
9. To remove a needle, to process a puncture site with alcohol, to impose a sterile bandage.
10. Put spent material and tools in the container for disinfection.

**Student action algorithm from a competence:  
"Opening and drainage of the abscess"**

**The student must:**

1. Place the mannequin on the table so that the area of localization of the abscess is accessible.
2. Put on a mask, to process hands, to put on sterile gloves.
3. Treat the skin over the abscess with a disinfectant solution.

**Articulate the action of paragraphs 4,5,6,7,8,9,10,11,12 without performing on a dummy**

4. Perform anesthesia with 0.25% novocaine solution
5. Perform a puncture of the abscess to obtain purulent contents.
6. Dissect the soft tissue over the abscess parallel to the nerves and blood vessels of this area.
7. Extend the wound with a clamp
8. Destroy with finger the walls of additional purulent pockets.
9. Remove pus and necrotic tissue.
10. Treat the cavity with an antiseptic (hydrogen peroxide, potassium permanganate, an aqueous solution of chlorhexidine).
11. Dry the purulent cavity, introduce a rubber glove drain into it, apply a bandage.
12. Place the tool and material in a container.

**Student action algorithm from a competence  
"Removing the nodal suture"**

**The student must:**

1. Clean up your hands with an antiseptic
2. Put on rubber gloves
3. Treat the line of sutures and the skin around the wound with an antiseptic
4. Take sterile surgical tweezers in your left hand.
5. Take in the right hand sterile scissors with a sharp end.
6. Pull the seam up with tweezers to free up the space between the skin and the thread.
7. Insert one branch of scissors behind the thread.
8. Cut the thread and pull it out with tweezers.
9. Make sure there is no bleeding
10. Apply a sterile dressing after treating the suture line with a disinfectant solution.
11. Put the tools in a container.

**Algorithm of the student's action when performing the competence**  
**“Finger rectum examination”**

**The student must:**

1. Wear rubber gloves
2. Inspect the perineum.
3. Pull the skin around the anus I and II with the finger of your left hand.
4. Treat the second finger of the right hand with petroleum jelly and insert it into the anal canal.
5. In the study determine the presence of seals, tumor formations, ulcers and their sizes.
6. Inspect the gloves if there are no traces of blood, pus, mucus.
7. Remove the gloves, put them in a container.