



**APPROVED BY**

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## SYLLABUS

### Practical Training Programme

Specialty 560001 — General Medicine (5-year programme)

Type of Practice: HOSPITAL PHYSICIAN ASSISTANT (SURGERY)

#### 1. Course Information

<b>Form of study</b>	Full-time
<b>Profile</b>	Surgery
<b>Year / Semester</b>	Year 4 / Semester 7
<b>Total workload</b>	2 credits (60 academic hours)
<b>Duration</b>	2 weeks (10 working days), 6 hours/day, 5-day week
<b>Type of assessment</b>	Pass/Fail with rating score
<b>Practice base</b>	Surgical departments of clinical hospitals of Bishkek (National Surgical Centre, specialised hospitals, private clinical centres)



## 2. Brief Description

Year-4 students work as hospital physician assistants in surgical departments. The placement deepens clinical reasoning in surgery, develops competence in early diagnosis of the most common surgical diseases, in management and follow-up, and in providing first physician aid in acute surgical conditions at the hospital stage.

## 3. Aim of the Practice

To study the work of a surgical-department physician; deepen knowledge and skills in clinical reasoning for early diagnosis of common diseases (with their course, treatment, prevention, follow-up); develop skills of emergency aid at the hospital stage for acute surgical and urgent conditions.

## 4. Learning Objectives

- Acquire knowledge and skills of the structure and workflow of a surgical hospital.
- Promote motivated attitude towards health among adults and adolescents; participate in dispensary follow-up.
- Diagnose diseases and pathological conditions in adults and children using propaedeutic and laboratory-instrumental methods.
- Consolidate skills of patient history-taking (complaints, life and disease history, epidemiological history).
- Reinforce diagnosis of emergency conditions and provision of first physician aid.
- Reinforce knowledge and skills of surgical treatment.
- Participate in handling and storage of medications.
- Conduct rehabilitation measures for patients after trauma or surgery.
- Maintain accounting and reporting medical documentation; carry out expertise of temporary and permanent disability.

## 5. Competencies Formed

<b>PC-13 (Professional)</b>	Able to carry out anti-epidemic measures and protection of the population in foci of especially dangerous infections, deterioration of the radiological situation, natural disasters and other emergencies.
<b>PC-28 (Professional)</b>	Able to ensure rational organisation of the work of middle and junior medical personnel in treatment-and-prevention institutions.

## 6. Content of the Practice

- Organisation of clinical institutions; case-history keeping for the surgical patient.
- Acute appendicitis, acute cholecystitis, acute pancreatitis.



- Acute peritonitis; strangulated hernia; acute intestinal obstruction.
- Perforated gastric ulcer; gastrointestinal bleeding.
- Diseases of the mammary gland; purulent-inflammatory diseases of lungs and pleura; diseases of the oesophagus.
- Surgical instruments, asepsis and antisepsis; desmurgy; suture and dressing material.

### **7. The Student Must Know**

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- Examination of patients with surgical disease; decoding ultrasound, X-ray, endoscopic and laboratory results.
- Hand hygiene (Spasokukotsky-Kochergin, chlorhexidine); aseptic technique; checking sterility.
- Donning sterile gown and gloves; use of individual dressing pack; bandaging (incl. Desault) and transport immobilisation.
- Surgical instruments, dressings and sutures; antiseptics for hands, surgical field and wound treatment.
- Indications and techniques of major operations: incision of abscess, herniorrhaphy, appendectomy, cholecystectomy, gastric resection, laparoscopic operations.
- Blood transfusion methodology and complications; parenteral nutrition; haemostatic agents; desmurgy.

### **8. The Student Must Be Able To (under supervision)**

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- Take part in splint application; opening of superficial abscesses; tracheostomy; laparocentesis; pleural puncture.
- Perform IV infusions; venipuncture; venous catheterisation; IV / IM / SC injections.
- Determine blood group and Rh factor; cross-match compatibility.
- Arrest external arterial bleeding with a tourniquet; perform gastric lavage and urinary catheterisation.
- Perform digital rectal examination; cleansing, siphon, hypertonic and medicated enemas.
- Carry out tetanus prophylaxis; assist in primary surgical treatment of wounds and in local anaesthesia.
- Assist as second surgeon in herniorrhaphy, appendectomy, peritoneal drainage, abscess opening, removal of benign tumours, cholecystectomy, gastric resection, mammary resection and emergency operations.

### **9. Practice Diary**

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The student keeps a daily practice diary signed by the attending physician and a Journal of Practical Skills. On the last day a final report is prepared and the attending



physician writes a character reference reflecting volume, quality, knowledge, skills, conscientiousness and adherence to ethics and deontology.

### **10. Assessment**

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Final control — differentiated pass/fail examination by commission at the Simulation Centre immediately after the cycle. The student presents the practice diary with character reference.