



APPROVED BY
President of RMU



SYLLABUS

Practical Training Programme

Specialty 560001 — General Medicine (5-year programme)

Type of Practice: **HOSPITAL PHYSICIAN ASSISTANT (SURGERY & OBSTETRICS-GYNECOLOGY)**

1. Course Information

Form of study	Full-time
Profiles	Surgery, Obstetrics & Gynecology
Year / Semester	Year 4 / Semester 8
Total workload	4 credits (120 academic hours)
Duration	4 weeks (20 working days), 6 hours/day, 5-day week
Type of assessment	Pass/Fail with rating score
Practice base	National Surgical Centre named after M.M. Mamakeev; Bishkek Railway Hospital; National Centre of Oncology and Hematology; medical centres "Comfort Medic" and "Medcenter.kg"; Family Medicine Centres No. 1 and 6 of Bishkek



2. Brief Description

Year-4 students of the General Medicine faculty work as hospital physician assistants in surgical and obstetrics-gynecology departments. The practice is supervised by RMU surgical-disease faculty and is an integral part of professional training (including for international students).

3. Aim of the Practice

To consolidate and deepen the theoretical preparation and practical skills of students, to acquire competence in using medical equipment and instruments, and to gain experience of independent professional activity in surgery and obstetrics-gynecology.

4. Learning Objectives

- Consolidate knowledge of the work of a hospital physician.
- Organise the work of medical personnel; define functional duties and the optimal algorithm.
- Reinforce occupational safety, prevention of occupational diseases and ecological safety.
- Reinforce medical ethics and deontology.
- Take part in anti-epidemic and sanitary-educational work with the population.
- Reinforce clinical examination of surgical patients and the formulation of a clinical diagnosis.
- Draft an examination plan for surgical patients and interpret its results.
- Reinforce skills of treatment and prevention of acute surgical diseases.
- Maintain hospital documentation under the standards of the Mandatory Medical Insurance Fund.
- Familiarise with the procedure for prescribing potent, narcotic and high-cost drugs; the work of physiotherapy, pathology and other departments.

5. Competencies Formed

PC-13 (Professional)	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.
PC-28 (Professional)	Able to ensure rational organisation of the work of middle and junior medical personnel in treatment-and-prevention institutions.

6. Content of the Practice — Surgical Diseases

- 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 the lungs and pleura; diseases of the oesophagus.

7. Content of the Practice — Obstetrics & Gynecology

- Case-history keeping in obstetrics and gynecology; physical examination of pregnant women.
- Physiological pregnancy.
- Physiological postpartum period; physiology of breastfeeding.
- Infertility (female and male).
- Amenorrhea; uterine bleeding.
- Inflammatory diseases of the small pelvis; STIs.

8. The Student Must Know

- Examination of patients with surgical disease; decoding ultrasound, X-ray, endoscopic and laboratory results.
- Hand hygiene (Spasokukotsky-Kochergin method, chlorhexidine); aseptic technique; checking sterility.
- Donning sterile gown and gloves; use of individual dressing pack.
- Application of bandages (incl. Desault) and transport immobilisation of the upper limb.
- Surgical instruments, dressings and sutures; antiseptics for hands, surgical field and wound treatment.
- Sets for primary surgical wound treatment, local infiltration and conduction anaesthesia (Oberst-Lukashevich).
- Indications and techniques of major operations: incision of abscess, herniorrhaphy, appendectomy, cholecystectomy, gastric resection, laparoscopic operations.
- Laparoscopy; laparocentesis ("wandering catheter"); blood transfusion methodology and complications.
- Parenteral nutrition; correction of water-electrolyte balance; haemostatic and detoxifying agents; desmurgy.

9. The Student Must Be Able To (under supervision)

- Take part in Dietrich / Kramer splint application; opening of superficial abscesses; tracheostomy; laparocentesis; suprapubic bladder puncture; 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 and vaginal examination; cleansing, siphon, hypertonic and medicated enemas.
- Apply a colostomy bag; carry out tetanus prophylaxis.
- Assist in primary surgical treatment of wounds; perform local infiltration and Oberst-Lukashevich conduction anaesthesia.
- Assist as second surgeon in herniorrhaphy, appendectomy, drainage for peritonitis, opening of abscess / phlegmon / felon, removal of benign soft-tissue tumours, skin grafting, limb amputation, cholecystectomy (open and laparoscopic), gastric resection, strumectomy and mammary resection.
- Assist in emergency operations (acute cholecystitis, pancreatitis, complications of peptic ulcer, intestinal obstruction).

10. Assessment

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. 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.