THEMES OF PRACTICAL WORKS IN SURGERY
FOR THE STUDENTS IN THE IIIrd YEAR

1. Introduction in the practical education in surgery:
   - topics
   - approach to the surgical patient
   - the patient's file
     - history taking
     - physical examination
     - local examination
   - the register of the medical examinations
   - papers, certificates, evidences, administrative papers used in the patient's management

2. The interval structure of the surgical service:
   - the section of beds
   - the emergency room
   - the intensive care unit
   - the operating rooms
   - Hospital hygiene, septic and aseptic circuits

3. The circuit of the surgical patient
   - ambulatory consultations
   - emergency and intensive care mobile unity
   - surgical services (emergencies, chronic diseases).

4. The instruments in general surgery
   - cutting instruments
   - surgical forceps
   - instruments and materials for sutures
   - staplers
   - instruments for bone surgery
   - instruments for injections, infusions, transfusions,
   - metal and plastic catheters
   - instruments for laparoscopic surgery
   - common instruments used in urology, gynecology, orthopedics, plastic surgery, cardiovascular surgery, anesthesiology, otolaryngology.

5. Sterilization methods
   - Principles of asepsia and antisepsia
   - Sterilization by heat and high pressure (principles)
   - Sterilization by dry heat (Poupinel device)
   - Sterilization by Ethylene Oxide
   - The electric boiler
   - Sterilization of the rooms by Formol gas
   - Preparation of the operating field
   - Disinfection of the surgeon's hands
   - Dressing of the sterile equipment and the surgical gloves.
6. The operation:
- preoperative preparation
- patient's transport
- first-aid operations
- operations in the operating room
- postoperative care (position of the patient, analgesia, bindings, drains, biliary external drainage, monitorisation of the patient).

7. Local anesthesia:
- local, regional, spinal, peridural anesthesia
- the anesthesia of the intercostal nerves
- Paravertebral anesthesia
- the anesthesia: - of the splanchnic nerve
- of the ganglion stelatum
- of the plexus brachialis

8. Medical treatments for surgical patients:
- injections (materials, techniques, indications, accidents)
- the syringe
- hypodermic, subcutaneous, intramuscular, intravenous injections
- Techniques of venous access
- discovery and catheterization of a peripheral vein
- perfusions, transfusions
- central venous pressure (CVP) measurement

9. Bandaging and surgical dressing
- textile materials (gauze)
- adhesive materials
- techniques of bandaging (circular, "in 8", "in fan", "in corn-ear", spiral)
- bandagings in the head and neck
- bandagings of the shoulder
- fixation bandage Dessoult
- bandaging of the chest
- bandaging of the upper extremity, elbow,
- bandaging of the hand and fingers
- bandaging of the lower extremity
- bandaging of the perineum

10. Resuscitation: cardiopulmonary and cerebral resuscitation
- External and internal cardiac massage
- Artificial respiration (methods, techniques)
  - mouth to mouth
  - mouth to nose
  - AMBU resuscitation bag
  - oxygenotherapy

11. Transfusion - practical aspects:
- blood group determination
- Rh determination
- tests of compatibility
- techniques of blood transfusion
- Blood transfusion indications, hazards, complications, plasma substitutes

12. Hemostasis:
- haemorrhagia: classification
- medical hemostasis by drugs
- surgical hemostasis - temporary
  - definitive, Taho-comb.

13. Basic surgical maneuvers:
- incisions: - of an abscess, phlegmon, hematoma, seroma, and felous.
- excision: - of benign subcutaneous tumors (atheroma)
  - of a nail
  - of a foreign body
  - finger resections
- needle puncture: - in the pleural space
  - pericardium
  - abdominal cavity, Douglas
  - urinary bladder
  - biopsy
- surgical sutures:
  - materials, techniques
  - primary sutures
  - delayed sutures
  - staplers
- surgical knots: - classical simple, double knots (Tanagra, Pauchet)
  - clips handling
- surgical drainages:
  - simple tubes,
  - Redon drainage
  - closed pleural drainage
    - simple (Bulau)
  - active
- tracheotomy - indications, techniques, complications.

14. Catheterizations
- oral and naso-gastric tubes
- the gastric lavage
- urethral catheterization in males and females
- duodenal, intestinal aspirations

15. Endoscopic techniques
- rectosigmoidoscopy
- gastroscopy
- laparoscopy (films presentation)

16. Enemas:
- definition
- indications
- the therapeutic enema
- technique
- incidents, accidents

17. Accidents
- the transport of victims

18. General surgical symptomatology
- the inspection of a:
  - wound
- ulcus
- tumor

- the examination of the:
  - upper extremity
  - lower extremity
  - cervical region (thyroid)
  - thorax
  - abdomen
  - breast
  - veins
  - arteries

- digital rectal examination (indications, technique)