

OPERATION THEATRE TECHNIQUES

PART - II

STERILIZATION AND SUPPLIES

1. Introduction to sterilization
2. Sterilization and Disinfection
3. General Principles of sterilization
4. Types of Sterilization
5. Methods of Heat Sterilization and equipment
6. Autoclave, its parts and working principle
7. Chemical Sterilization and the chemicals used in it
8. Sterilization by radiation
9. Disinfectants, types and uses
10. Gas Sterilization and its uses
11. Scrubbing and its methods
12. Dipping and its methods

REGIONAL ANATOMY AND PHYSIOLOGY

Brief revision of the following topics. The number shows number of periods in which each topic should be covered :-

1 – 10 **General survey of human skeleton**

- Skeletal Tissues
- Cartilages
- Tendon
- Ligaments
- Bone
- Joints

11 – 15 **Respiratory System**

- a. Upper and lower respiratory tract
- b. Lungs
- c. Pleura
- d. Diaphragm

16 – 19 **Cardiovascular System**

- Arteries
- Veins
- Heart

20 – 24 **Excretory System**

- Kidneys
- Ureter
- Bladder
- Urethra

25 – 28 **Endocrine Glands**

- Pituitary Gland
- Adrenal Gland
- Thyroid Gland
- Para thyroid Gland

29 – 35 **Nervous System**

- Nervous Tissues
- Central Nervous System
- Peripheral System

SURGICAL TECHNIQUES

1. Introduction to operating department.
2. O.T. Table and position used for surgery.
3. Operation Preparations.
4. Classification of instruments and apparatus: Disposable/Non disposable, sharp instrument, sutures, needles, syringes and hypodermic needles, special instrument, catheters their working and care.
5. Ligature and suture materials
Introduction, cat guts (preparation, sizes, handling), absorbable and non absorbable ligatures and sutures, natural materials (silk worm gut, silk threads, linen cotton their sizes and classes) Nylon, polyester, polyethylene, polypropylene, metallic wire, metal clips as sutures and as ligatures.
6. Storage and handling of suture materials associated with instrument. Ligature requisites, scalpel blades, handless and needled scissors etc.
7. Draping operation areas.
8. Terminology and technical words used in theatre.
9. Operating microscopes:
Principle, parts, use and care.
10. Fibre optic endoscopy: Introduction, types, procedure and care of the instrument.
11. Introduction to general instrument, scalpel, scissors, forceps, knives, hooks, retractors etc. The instruments types, sizes and materials.
12. Abdominal surgery: Laparotomy set, types of incisions, gall bladder, hernia appendectomy etc.
13. The patient, procedure, instruments used in each operation will be taught and operation on breast.
14. ENT operations:- Definitions of operations, position of the patient, general instrument used in each operations.
15. Neuro-surgical Operations:- Positions of the patient, general instruments used in each operation.
16. Ophthalmic Operations
17. Orthopaedic Operations
18. Urological Operations
19. Thoracic Surgery
20. Gynaecological Operations
21. Plaster of Paris Techniques
22. Radioactive material used in theatre:- Care, use, safety precautions, and disposal.

ANAESTHESIA AND PATIENT CARE

1. Introduction to anesthesia.
2. Physics and chemistry of anesthesia.
3. Anesthetic agents, types and uses.
4. Chemicals and gases.
5. Physiology of Respiration
6. Stages of anesthesia.
7. Patient preparation before and after anesthesia.
8. Patient management during anesthesia.
9. Anesthesia Machine
Pre and postoperative care of patients

BOOK RECOMMENDED

OPERATIVE TECHNIQUES BY Dr. S. DAS, JAPEE.

SURGERY BY Dr. KUMAR (JAPEE)

BOOK OF SURGICAL INSTRUMENTS BY D