



INTEGRAL INSTITUTE OF MEDICAL SCIENCES & RESEARCH (IIMSR)

DEPARTMENT OF SURGERY



PhD. Entrance Syllabus

Session: 2024-25

PREVIOUS CHANDRA

MODEL NS, MON (CHTS), DHB (CHTS), MNGAIS, FRES (Thorsook)

PRES (CVTS), FUOS (CVTS), FNIS, FVSI, Nassocian).

Comparisates and Thorsook Surprise

Decal

Integral University

Lucknow, Ultar Pradosh.



I. GENERAL SURGERY

- 1. Historical Aspect and Development of Surgical Science.
- 2. Introduction to Surgery Basic Surgical Principles.
- 3. Medical Sociology, Doctor-Patient relationship, Family adjustments in disease, Organizational behaviors, conflict resolution.
- 4. Surgical Ethics
- 5. Sterile Precautions
- 6. Theatre Safety
- 7. Audit in Surgery
- 8. Clinical Trials and Statistics
- 9. Computers in Surgery
- 10. Day Care Surgery
- 11. Metabolic and Endocrine Response to Trauma
- 12. Immuno-Biology: (an overview) Role of Prostaglandins, Thromboxane and Leukotrienes in Surgery.
- 13. Shock
- 14. Haemorrhage and Haemostasis
- 15. Bleeding Disorders and Blood Transfusion
- 16. Fluid and Electrolyte Balance
- 17. Critical care of Surgical Patient and Monitoring of Surgical Patient.
- 18. Surgical Nutrition
- 19. Anaesthesia and Pain Management
- 20. Wounds, wound infection, Tissue repair and scars
- 21. Surgical Infection
- 22. Nosocomial Infection
- 23. Surgical Manifestations of Tuberculosis
- 24. Surgical conditions of skin and sub-cutaneous tissue.
- 25. Ulcer, Sinus, Fistulae
- 26. Surgical Complications in Diabetic Patients.
- 27. Organ Transplantation.
- 28. BURNS.
- 29. Concepts of Essential Drugs and Rational use of Drugs
- 30. Consumer Protection
- 31. O.T. Designs, Technologies and Equipments
- 32. Advances in Imaging Technologies
- 33. ONCOLOGY
 - a) Principles of Surgery in Oncology
 - b) Chemotherapy in Malignancy
 - c) Radiotherapy
 - d) Immunobiology and Immunotherapy of Neoplastic Diseases.
 - e) Neoplasm of GIT, GUT, CVT, Endocrinal Glands and Soft Tissues

34.FUNGAL AND PARASITIC DISEASES

- a. Mycetomas
- b. Ascariasis
- c. Guinae worm
- d. Echinococcus Granulosus



- e. Filariasis
- f. Taenia Solium
- g. Taenia Saginata
- h. Giardia Intentinalis

II. FACE, NECK, CHEST

- 1) Mouth, Tongue, Jaw
- 2) Pharynx, Larynx
- 3) Eye and Orbit
- 4) Nose and Paranasal Sinuses
- 5) Ear
- 6) Salivary Gland Disorders
- 7) Swelling in the Neck Region
- 8) Breast
- 9) ENDOCRINOLOGY
 - a. Thyroid
 - b. Parathyroid; Calcium, Phosphorus Metabolism
 - c. Adrenals
 - d. Pituitary Gland

10] TRAUMATIC SURGERY

- a. Accident and Emergency Surgery (Multiple Injury Patient: Assessment and Management)
- b. Disaster Management and Mass Casualties
- c. Blast and Missile Injury
- d. Head Injury
- e. Thoracic Injuries
- f. Abdominal Injuries
- g. Genito Urinary Injuries
- h. Hand Injuries
- i. Vascular Injuries
- j. Maxillo Facial Injuries
- k. Peripheral Nerve Injuries
- 1. Urinary Calculi
- m. Renal Transplantation.

III] G. I. TRACT AND ABDOMEN

- a. Development of GIT
- b. Manifestation of GIT Diseases
- c. Acute and Chronic Abdomen; Abdominal Compartment Syndrome
- d. Oesophagus GERD, Motility Disorders, etc.
- e. Stomach, Duodenum
- f. Small and Large Bowel; Appendix, Inflamnatory Bowel disease
- g. Rectum and Anal Canal; Peri-anal Region
- h. Liver, Spleen, Pancreas, Gall Bladder, Bile duct.
- i. Portal Hypertension
- j. Peritoneum, Mesentery, Omentum



k. Retro peritoneal space

- 1. Upper and Lower GIT Bleeding
- m. Abdominal wall, Hernias, Umbilicus
- n. Anostomosis
- o. Upper GI Endoscopy, Colonoscopy
- p. Laparoscopic Surgery
- q. Hepatic resection and liver Transplantation.

IV| UROLOGY

- a. Development of Kidney, Ureter
- b. Urinary Symptomatology
- c. Investigations of Urinary System
- d. Surgical conditions of Kidney.
- e. Developmental Defects and Diseases of Ureter
- f. Developmental conditions, diseases and disorders of urinary bladder
- g. Surgical conditions of Bladder
- h. Surgical conditions of Prostrate
- i. Surgical conditions of Seminal Vesicles
- i. Urethra, Penis
- k. Testis and Scrotum
- 1. Ac. Renal Failure
- m. Genito-urinary Tuberculosis
- n. Urinary Diversion
- o. Endoscopy in Urology
- p. Obstructive Uropathy

V) SUPERSPECIALITY

Al PLASTIC + RECONSTRUCTIVE

- a. Reconstruction of Congenital Defects
- b. Skin Grafts and Flaps
- c. Reconstructive Surgery in Leprosy.

B] PAEDIATRIC SURGERY

- a. Management of Neonatal Surgical Conditions.
- b. Neo-natal Intestinal Obstruction
- c. Rotation of Gut, its anomalies and management.
- d. Congenital anomalies of Esophagus, Stomach and Duodenum
- e. Neo-natal Jaundice
- f. Hirschsprung's Disease
- g. Ano-rectal malformation
- h. Paediatric Solid Tumours
- i. Anomalies of GUT and its management.
- j. Developmental Anomalies of Skull and Spine and its management.

C] CARDIO-VASCULAR-THORACIC



- a. Chest Wall
- b. Disorders of Pleura, Lung, Bronchus and Mediastinum
- c. Diaphragm
- d. Surgical Aspects of Congenital Heart Diseases
- e. Surgical Aspects of Acquired Heart Diseases
- f. Surgical Conditions of Heart and Blood Vessels
- g. Surgically Correctable Hypertension
- h. Pulmonary Embolism
- i. Fat Emboli Syndrome
- i. ARDS
- k. Cardio-Pulmonary Resuscitation
- 1. Surgery for Pulmonary Lesions
- m. Carcinoma Lung
- n. Mediastinal Tumors including Thymic Tumors.
- o. Myocardial Revascularisation
- p. Lymphatic System and its Disorders
- q. Peripheral Vascular Diseases
- r. Venous Disorders
- s. Acute Limb Ischaemia and Thrombolysis
- t. Aneurysms
- u. Thoracic Outlet Syndrome
- v. Vascular Malformations

D| NEUROSURGERY

- a. Cranium disorders
- b. Tumours of Brain and Spinal Cord
- c. Management of Raised I.C.P.
- d. Hydrocephalus
- e. Meningocele, Meningomyelocele, Encephalocele
- f. Bracheal Plexus and its Disorders
- g. Cervical Plexus and Sympathetic and Para Sympathetic Disorders.

REFERENCE BOOKS

- 1. Bailey & Love's Short Practice of Surgery 24th Edition
- 2. Principles of Surgery Schwartz 8 th Edition
- 3. Text Book of Surgery Sabiston 17th Edition
- 4. Maingot's Abdominal Operations Vol 1, Vol 2
- 5. New Sugrical Companion Ian Airds
- 6. Oxford Text Book of Surgery
- 7. Smith's General Urology
- 8. Surgery of the Anus Rectum and Colon John Goligher
- 9. Hamilton Balley's Emergency Surgery 11th Edition
- 10. Pye's Surgical Handicraft
- 11. Surgery of Liver and Biliary Tract Blumgart
- 12. Peripheral Vascular Disease Allen Baker and Hyne's
- 13. Peripheral Vascular Diseases Abela



- 14. Venous Disorders Cockett and Dodd
- 15. Farquharson's Text Book of Operative Surgery
- 16. Mastery of Surgery Bakar
- 17. Zollinger's Atlas of Surgical Operations
- 18. Rectum and Anal Canal Gabril
- 19. Surgery of the Pancreas Carter
- 20. Campbell's Urology
- 21. Glenn's Urologic Surgery Graham
- 22. Cancer, Principles and Practice Oncology De Vita
- 23. Moss Radiation Oncology
- 24. Clinical Oncology Abelott
- 25. Thoracic Surgery Pearson, Deslaurier's
- 26. Recent Advances in Surgery Indian / Taylor
- 27. General Thoracic Surgery Thomas W. Shields
- 28. Vascular Surgery Davies
- 29. Text book of Neuro Surgery Ramnath and Tondon
- 30. Current Therapy in Plastic Surgery Mc Carthy
- 31. Paediatric Surgery Ashcraft Holder
- 32. Plastic Surgery Mathes
- 33. Dermo Surgery and Cosmetology Sawant
- 34. Mercer's Text book of Orthopaedics
- 35. Camphell Operative Orthopaedics
- 36. Watson Jones Text book of Orthopaedics
- 37. Telind's Text book of Gynaecology
- 38. Shaw's Text book of Gynaecology
- 39. Clinical Opthomology Kanski
- 40. Lee Mc Gregors Synopsis of Surgical Anatomy
- 41. Text Book of Anatomy Hollinshnd
- 42. Clinical Oriented Anatomy Moore K.L.
- 43. Anatomy as a Basis for Clinical Medicine Hall Craggs
- 44. Physiological Basis of Medical Practice Best & Taylors
- 45. Principles of Physiology Robert M. Berne
- 46. Surgical Physiology Smith
- 47. Boyd's Surgical Pathology
- 48. Illingworths Surgical Pathology
- 49. Pathologic Basis of Diseases Kamar, Abbas, Fausto
- 50. Robbins Pathologic Basis of Diseases Ramsi S. Cotran.
- 51. Clinical Diagnosis and Management by Laboratory Methods Henr