



MedCAS

Medicine Clinical Approach Simplified





Inception of MedCAS



2015

2017-2020



**Founder's Journey
to Superspeciality
at JIPMER**

**Zoom Classes with
Concept and Clinical
Application**



January, 2021

September, 2021



**Launch of
MedCAS app**

**Introduced
MCQ Bank**



July, 2023





The Profession of medicine

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The Profession of medicine

The Practice of Medicine

Promoting Good Health

Vaccine Opposition and Hesitancy

Decision-Making in Clinical Medicine

Precision Medicine and Clinical Care

Screening and Prevention of Disease

The Safety and Quality of Health Care

Diagnosis: Reducing Errors & Improving Quality

Ethical Issues in Clinical Medicine

Palliative and End-of-Life Care





Cardinal Manifestations & Presentation of Disease

Pain

- Pain Pathophysiology and Management
- How I approach Chest Pain
- Abdominal Pain
- Headache
- Back and Neck Pain

Alterations in Body Temperature

- Fever
- Fever and Rash
- Fever of Unknown Origin
- Fever of Unknown Origin by ID specialist Part 1 & 2

Nervous System Dysfunction

- Gait Disorders, Imbalance, and Falls
- How I Approach Syncope
- How I Approach Dizziness and Vertigo
- How I Approach Fatigue
- How I Approach Motor weakness
- How I Approach Numbness, Tingling, and Sensory Loss
- Confusion and Delirium
- Approach to Diagnosis of Coma: Part 1 & 2 by Professor Sudha Vidyasagar
- Dementia
- Association Cortex & Aphasia
- Memory Loss, Hemispatial Neglect, Frontal Syndromes & Other Cerebral Disorders
- Sleep Disorders
- Approach to Back Pain & Lumbosacral plexus By Neurologist

Disorder of Eyes, Ears, Nose, and Throat

- Disorders of the Eye
- Disorders of Smell and Taste
- Disorders of Hearing
- Sore Throat, Earache, and Upper Respiratory Symptoms By Pulmonologist Part 1 & 2
- Oral Manifestations of Disease

Alteration in Circulatory and Respiratory Functions

- How I Approach Dyspnea
- How I Approach Cough
- How I Approach Hemoptysis
- Hypoxia and Cyanosis
- Approach to Persistent Wheeze By Pulmonologist Part 1 & 2
- How I Approach Edema
- Heart Sounds by Cardiologist
- Approach to the Patient with a Heart Murmur Part 1 & 2
- How I Approach Palpitations

Alterations in Gastrointestinal Function

- How I approach Dysphagia
- Nausea, vomiting and Indigestion
- Diarrhea and Constipation
- Unintentional weight loss
- How I approach GI bleed
- How I approach Jaundice
- Abdominal swelling and ascites

Alterations in Renal & Urinary Tract Function

- Dysuria, Bladder Pain & the Interstitial Cystitis/ Bladder Pain Syndrome
- Azotemia and Urinary Abnormalities
- Water Physiology & Hyponatremia Approach
- Polyuria & Hyponatremia Approach
- SIADH
- Potassium Physiology & Hyperkalemia Introduction
- Hyperkalemia Diagnosis & Treatment
- Hypokalemia
- Hypercalcemia and Hypocalcemia
- ABG Analysis by critical care Physician
- ABG Analysis by pulmonologist
- Renal Tubular Acidosis Basics

Alterations in the Skin

- Approach to the Patient with a Skin Disorder
- Eczema, Psoriasis, Cutaneous Infections, Acne, and Other Common Skin Disorders
- Skin Manifestations of Internal Disease
- Immunologically Mediated Skin Diseases
- Cutaneous Drug Reactions
- Photosensitivity and Other Reactions to Sunlight

Hematologic Alterations

- Interpreting Peripheral Blood Smears
- Anemia and Polycythemia
- Disorders of Granulocytes and Monocytes
- Bleeding and Thrombosis
- How I Approach Lymphadenopathy
- Approach to Splenomegaly By Professor Sudha Vidyasagar



Pharmacology

Principles of Clinical Pharmacology

Pharmacogenomics

Drugs Based Classes

- Intravenous Immunoglobulins (IV Ig) by Clinical Immunologist
- Biologic therapy: Basics and Practices
- JAK Inhibitors by Immunologist
- Steroids : The Best & The Worst drug
- NSAIDs: Basics & Practice
- Immune Checkpoint Inhibitor

"In modern pharmacology it's so clear that even if you have a fixed dose of a drug, the individuals respond very differently to one and the same dose"

- Arvid Carlsson



Oncology & Hematology

Neoplastic Disorders

- Approach to the Patient with Cancer
- Prevention and Early Detection of Cancer
- Cancer Genetics
- Cancer Cell Biology
- Principles of Cancer Treatment
- Infections in Patients with Cancer
- Oncologic Emergencies
- Cancer of Skin: Melanoma
- Cancer of Skin: Non Melanoma
- Head and Neck Cancer
- Neoplasms of the Lung
- Lung Cancer: Pulmonologist Perspective
- Breast Cancer
- Upper Gastrointestinal Tract Cancers
- Lower Gastrointestinal Cancers
- Tumors of the Liver and Biliary Tree
- Pancreatic Cancer
- Neuroendocrine Tumors of Gastrointestinal tract and pancreas: Approach
- Functional Neuro Endocrine Tumor
- Renal Cell Carcinoma
- Cancer of the Bladder and Urinary Tract
- Benign and Malignant Diseases of the Prostate
- Testicular Cancer
- Gynecologic Malignancies
- Primary Tumors of the Nervous System
- Metastatic Tumors of the Nervous System
- Soft Tissue and Bone Sarcomas and Bone Metastases
- Carcinoma of Unknown Primary
- Paraneoplastic Neurologic Syndromes & Autoimmune Encephalitis
- Paraneoplastic Syndromes: Endocrinologic/Hematologic
- Late consequences of Cancer and it's treatment

Hematopoietic Disorders

- Hematopoietic Stem Cells
- Iron Deficiency and Other Hypoproliferative Anemias
- Disorders of Hemoglobin
- Megaloblastic Anemias
- Hemolytic Anemias
- Case Discussion : Dark Clues
- Anemia Due to Acute Blood Loss
- Approach to Pancytopenia by Professor Sudha Vidyasagar
- Bone Marrow Failure Syndromes Including Aplastic Anemia & Myelodysplasia Part 1 & 2
- Polycythemia Vera and Other Myeloproliferative Neoplasms
- Autoimmune Hemolytic Anemia By Hematologist
- Acute Myeloid Leukemia
- Chronic Myeloid Leukemia
- Acute Lymphoid Leukemia
- Chronic Lymphocytic Leukemia Part-1 & 2
- Approach to Lymphoma
- Non-Hodgkin's Lymphoma: Introduction and Classification
- Mantle cell Lymphoma
- Hodgkin's Lymphoma
- Hairy cell leukemia
- Follicular Lymphoma
- Multiple Myeloma
- Waldenstrom Macroglobulinemia
- POEMS syndrome and Heavy chain disease
- Amyloidosis
- Transfusion Biology and Therapy Part-1, 2 & 3
- Hematopoietic Cell Transplantation

Disorders of Hemostasis

- Disorders of Platelets: Thrombotic Microangiopathy (TMA)
- Disorders of Platelets: Immune Thrombocytopenia (ITP)
- Disorders of Platelets: Miscellaneous Platelet Disorder
- Heparin Induced Thrombocytopenia (HIT)
- Von Willebrand Disease
- Coagulation Disorders
- DIC by Hematologist
- Arterial and Venous Thrombosis
- Antiplatelet & Fibrinolytic Drugs Part-1 &2
- Approach to Stroke in young
- Practical approach to NOACs By Cardiologist

“Superficial thrombophlebitis is most often found on the medial tibia and characterized by tender, erythematous subcutaneous nodules.”



Infectious Diseases

Basic considerations in Infectious Diseases

- Approach to the Patient with an Infectious Disease
- Molecular Mechanisms of Microbial Pathogenesis
- Approach to the Acutely Ill Infected Febrile Patient
- Interpretation of Cultures and Practice Pearls
- Immunization Principles and Vaccine Use
- Vaccination in adults By ID specialist Part-1 & 2
- Health Recommendations for International Travel
- Climate Change and Infectious Disease

Clinical Syndromes: Community-Acquired Infections

- Approach to community acquired Pneumonia Assessment & Management
- Ventilator Associated Pneumonia & Hospital Acquired Pneumonia
- Lung Abscess
- Infective Endocarditis
- Infections of the Skin, Muscles, and Soft Tissues
- Infectious Arthritis
- Osteomyelitis
- Intraabdominal Infections and Abscesses
- Acute Infectious Diarrheal Diseases and Bacterial Food Poisoning
- Clostridioides difficile Infection, Including Pseudomembranous Colitis
- Urinary Tract Infections, Pyelonephritis, and Prostatitis
- Sexually Transmitted Infections: Overview & Clinical Approach
- Encephalitis
- Acute Meningitis
- Chronic and Recurrent Meningitis
- Brain Abscess and Empyema
- Infectious Complications of Bite



Clinical Syndromes: Health Care–Associated Infections

- Infections Acquired in Health Care Facilities
- Infections in Transplant Recipients

Therapy for Bacterial Diseases

- Treatment and Prophylaxis of Bacterial Infections
- Bacterial Resistance to Antimicrobial Agents

Diseases Caused by Gram-Positive Bacteria

- Pneumococcal Infections
- Staphylococcal Infections
- Streptococcal Infections
- Enterococcal Infections*
- Diphtheria & Other Corynebacterial Infections*
- Listeria monocytogenes Infections*
- Tetanus*
- Botulism
- Gas Gangrene and Other Clostridial Infections*

Diseases Caused by Gram-Negative Bacteria

- Meningococcal Infections
- Gonococcal Infections
- Haemophilus And Moraxella Infections
- Infections Due To The HACEK Group And Miscellaneous Gram-negative Bacteria
- Bacteria Legionella Infections
- Pertussis And Other Bordetella Infections
- Gram-negative Enteric Bacilli
- Acinetobacter Infections
- Helicobacter Pylori Infections
- Infections Due To Pseudomonas, Burkholderia, And Stenotrophomonas Species
- Salmonellosis
- Shigellosis
- Infections Due To Campylobacter And Related Organisms
- Cholera And Other Vibrioses
- Brucellosis
- Tularemia**
- Plague And Other Yersinia Infections
- Bartonella Infections, Including Cat-Scratch Disease*
- Donovanosis**

Miscellaneous Bacterial Infection

- Nocardiosis
- Actinomycosis
- Whipple's Disease*
- Infections Due to Mixed Anaerobic Organisms*

Mycobacterial Diseases

- Managing Tuberculosis: Updated with Guidelines
- Drug Resistant Tuberculosis
- Management of Extra Pulmonary Tuberculosis
- Treating TB beyond ATT
- Tuberculosis update in Diagnosis, Management and Prevention
- TB Therapeutics and Difficult situations
- Nontuberculous Mycobacterial Infections
- Leprosy*

Spirochetal Diseases

- Syphilis*
- Endemic Treponematoses**
- Leptospirosis
- Relapsing Fever**
- Lyme Borreliosis**

Diseases Caused by Rickettsiae Mycoplasmas & Chlamydiae

- Scrub Typhus
- Infections Due to Mycoplasmas*
- Chlamydia Infections*

Viral Diseases: General Considerations

- Medical Virology**
- Antiviral Chemotherapy**

Infections Due to DNA Viruses

- Herpes Simplex Virus Infections*
- Varicella-Zoster Virus Infections*
- Epstein-Barr Virus Infections, Including Infectious Mononucleosis*
- Cytomegalovirus & Human Herpesvirus Types 6, 7 & 8 *
- Molluscum Contagiosum, Monkeypox, and Other Poxvirus Infections*
- Parvovirus infection*
- Human Papillomavirus Infections*

Influenza and COVID-19

- Influenza update by Pulmonologist
- Immunology of COVID & Long COVID
- Microbiological Diagnosis COVID 19
- Imaging in Diagnosis & Management of COVID-19 patients
- Prevention of COVID 19 in Healthcare Worker
- COVID Vaccine By Pulmonologist
- COVID treatment Guidelines by Pulmonologist
- Non-Pharmacological Management of COVID-19

Infections Due to Human Immunodeficiency Virus & other Human Retroviruses

- HIV Introduction, Epidemiology, Virology & Transmission
- HIV Pathogenesis: Natural History, Viral Dynamics & Immune Escape
- HIV Pathogenesis: Viral Receptor & Co receptor, Lymphoid Organ, Cytokine and Lymphocyte Turn Over
- HIV Pathogenesis: Cellular targets & Immune response
- HIV & Genetics
- HIV and Pulmonary disease by Pulmonologist
- TB in HIV By Pulmonologist
- HIV Neurological Manifestations By Neurologist
- Immune Reconstitution Inflammatory Syndrome (IRIS)
- Diffuse infiltrative lymphocytosis syndrome (DILS)
- HIV Management Series by ID Specialist
- HIV Series (HIV Stories) By ID Specialists
- Introduction to HIV (HIV Stories) By ID Specialists
- HIV Management By ID Specialists

Infections Due to DNA & RNA Viruses

- Viral Gastroenteritis*
- Enterovirus, Parechovirus & Reovirus Infections**
- Measles (Rubeola)*
- Rubella (German Measles)*
- Mumps*
- Rabies and Other Rhabdovirus Infections*
- Dengue Fever
- Chikungunya Infection
- Ebolavirus & Marburgvirus Infection*

Fungal Infection

- Diagnosis & Treatment of Fungal Infections
- Fungal Infections in ICU
- Histoplasmosis
- Coccidioidomycosis
- Blastomycosis
- Cryptococcosis
- Invasive Candidiasis
- Aspergillosis
- Mucormycosis
- Pneumocystis Infections by Pulmonologist
- Superficial Mycoses and less Common Systemic Mycoses**

Protozoal & Helminthic Infection: General Considerations

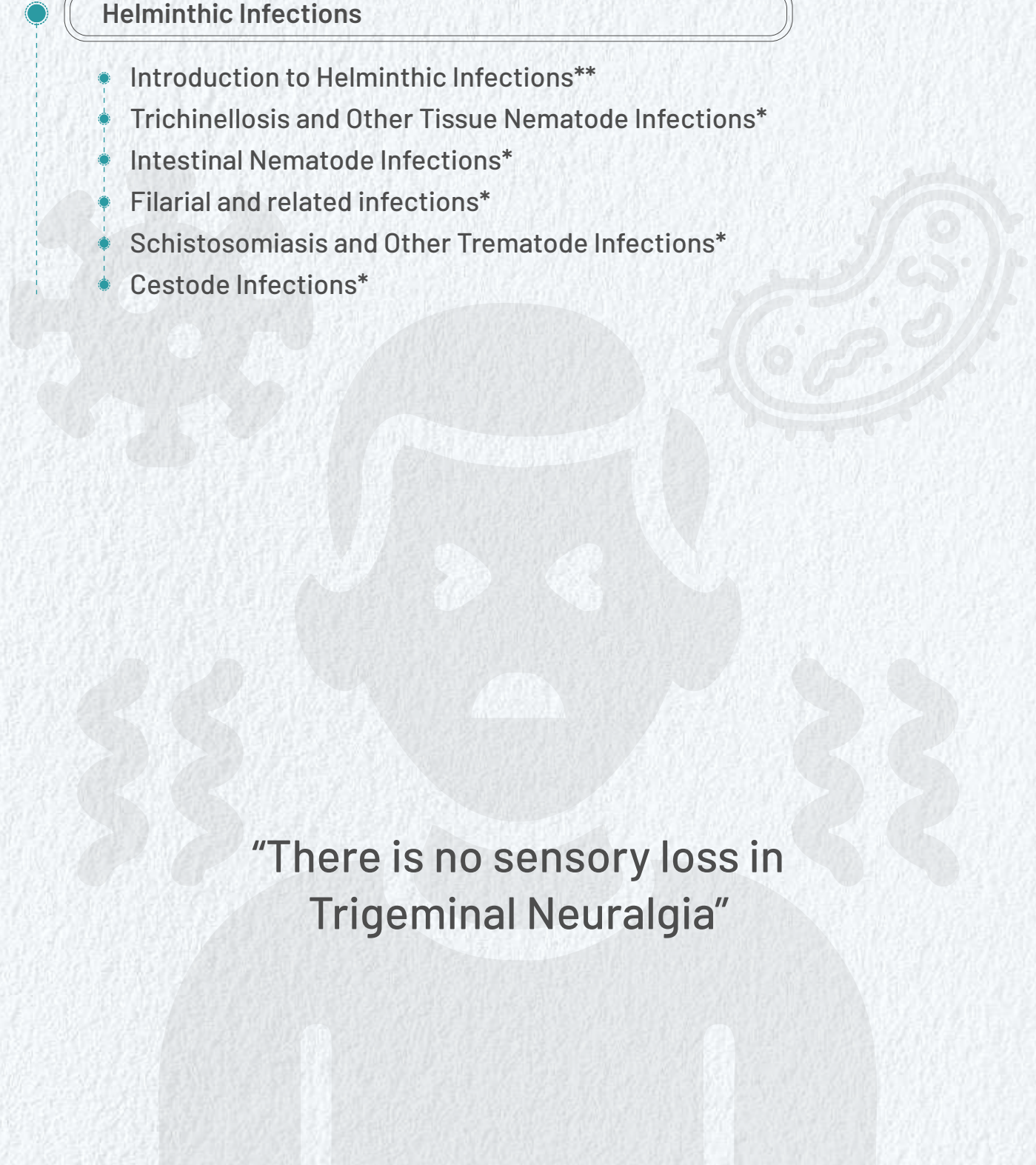
- Introduction to Parasitic Infections**
- Agents Used to Treat Parasitic Infections**

Protozoal Infections

- Amebiasis & Infection with Free-Living Amebae*
- Malaria
- Babesiosis*
- Leishmaniasis
- Chagas Disease & African Trypanosomiasis*
- Toxoplasma Infections
- Protozoal Intestinal Infections and trichomoniasis

Helminthic Infections

- Introduction to Helminthic Infections**
- Trichinellosis and Other Tissue Nematode Infections*
- Intestinal Nematode Infections*
- Filarial and related infections*
- Schistosomiasis and Other Trematode Infections*
- Cestode Infections*



“There is no sensory loss in Trigeminal Neuralgia”

*Notes Available , **Notes Available: Self Read



Disorders of Cardiovascular System

Introduction to Cardiovascular Disorders

- Approach to the Patient with Possible Cardiovascular Disease
- Pathophysiology of Atherosclerosis

Diagnosis of Cardiovascular Disorders

- General Examination in Cardiology
- Pulse Examination and Viva
- JVP Discussion for Case Presentation & clinics
- Approach to cardiac impulse and diagnosis
- Diagnostic Cardiac Catheterization and Coronary Angiography

ECG

- Basics of ECG
- Understanding Normal ECG
- Chamber Enlargement
- Bradyarrhythmia : SA & AV Node Dysfunction
- Bundle Branch Block
- Acute Coronary Syndrome
- ECG Localisation of Culprit Vessel in MI
- ST Segment Elevation beyond MI
- Mechanisms of Cardiac Arrhythmias
- Wide Complex Tachycardia-Approach
- Narrow Complex Tachycardia
- Atrial Fibrillation
- Atrial Fibrillation Evaluation and Management
- Approach to SVT: Concepts
- SVT: AVNRT & Atrial Flutter
- Anti Arrhythmic Agents
- Management of Cardiac Arrhythmia
- ECG Electrolytes & Miscellaneous



Disorders of the Heart

- Heart Failure: Pathophysiology and Diagnosis
- Chronic Heart failure -Concept Class
- Chronic Heart failure - Management update
- Acute Heart Failure
- Dilated Cardiomyopathy (DCM) and Myocarditis
- Hypertrophic and Restrictive cardiomyopathy
- Cardiac Transplantation and Prolonged Assisted Circulation
- Clinical approach to Valvular Heart Disease
- Mitral Stenosis By Cardiologist
- Mitral Valve Prolapse
- Acyanotic Congenital Heart Disease
- Cyanotic Congenital Heart Disease
- Pericardial Disease
- Atrial Myxoma and Other Cardiac Tumors
- Sudden Cardiac Death By Cardiologist

Coronary & Peripheral Vascular Disease

- Ischemic Heart Disease
- Non-ST-Segment Elevation Acute Coronary Syndrome (Non-ST-Segment Elevation Myocardial infarction and Unstable Angina)
- ST-Segment Elevation Myocardial Infarction
- Percutaneous Coronary interventions and Other Interventional Procedures
- Hypertensive Vascular Disease
- Renovascular Disease
- Deep-Venous Thrombosis and Pulmonary Thromboembolism
- Diagnosis & Management of Pulmonary Thromboembolism: Update
- Management of VTE - Basics to Update By Hematologist
- Diseases of the Aorta
- Arterial Diseases of the Extremities
- Chronic Venous Disease and Lymphedema
- Pulmonary Hypertension
- Pulmonary Hypertension: Case Based Discussion



Disorders of The Respiratory System

Diagnosis of Respiratory Disorders

- Approach to Respiratory Causes of Breathlessness
- Respiratory Examination
- Breath sound Mechanism
- Pulmonary Function Test
- Case Based Practice - Pulmonary Function Test
- Impulse Oscillometry Part 1 & 2
- Interventional Pulmonology
- Cardio Pulmonary Exercise Testing By Pulmonologist

Diseases of the Respiratory System

- Prescribing in asthma-Translating Guideline into Practice
- Asthma Management Update
- Managing Severe Asthma
- Inhaler devices & Nebulization
- Eosinophilic Lung Disease
- Hypersensitivity Pneumonitis
- Occupational and Environmental Lung Disease
- Bronchiectasis
- Cystic Fibrosis
- Chronic Obstructive Pulmonary Disease
- COPD Management Update
- Diagnosis and Management of COPD in 2024 By Pulmonologist
- Approach to ILD
- Approach to CTD-ILD Patient
- CT in ILD Pulmonologist Perspective Series
- Pleural Effusion
- Pneumothorax
- Disorders of the Mediastinum
- Disorders of Ventilation
- Approach to a Sleepy Patient
- COPD + OSA By Pulmonologist
- Lung Transplantation
- Interventional Pulmonary Medicine
- Approach to Lung Nodules by Pulmonologist





Critical Care Medicine

Respiratory Critical Care

- Scoring system in ICU
- USG & Echo in Critical Care
- Fluid Resuscitation in Critically ill Patients
Concepts & Evidence
- Respiratory Failure: Concept Class
- Acute Respiratory Distress Syndrome (ARDS) Series
- NIV in Respiratory Disease
- Mechanical Ventilations Series
- Oxygen Devices

Shock and Cardiac Arrest

- Approach to the Patient with Shock
- Sepsis and Septic Shock
- Cardiovascular Collapse, Cardiac Arrest, and Sudden
Cardiac Death
- Inotropes
- Assessment of Right Ventricle on POCUS

Neurologic Critical Care

- ICU Acquired Illness
- Subarachnoid Hemorrhage



Disorders Of The Kidney & Urinary tract

Cellular and Molecular Biology of the Kidney

Urine Analysis By Nephrologist

Acute Kidney Injury

- Nutrition Management in AKI in Critical Care

Chronic Kidney Disease

- Anemia in CKD
- CKD Associated Mineral Bone Disease (MBD) Part 1 & 2

Dialysis in the Treatment of Renal Failure

- IHD vs SLED vs CRRT
- CRRT Components and Circuits

Transplantation in the treatment of Renal Failure

Glomerular Diseases

- RPGN: Case Based Discussion

Polycystic Kidney Disease and Other Inherited Disorders of Tubule Growth and Development

Tubulointerstitial Diseases of the Kidney

Vascular Injury to the Kidney

Nephrolithiasis

Urinary Tract Obstruction





Disorders Of The Gastrointestinal System

Disorders of the Alimentary Tract

- Approach to the Patient with Gastrointestinal Disease
- Gastrointestinal Endoscopy
- Diseases of the Esophagus
- Peptic Ulcer Disease and Related Disorders
- Disorders of Absorption
- Inflammatory Bowel Disease
- Irritable Bowel Syndrome
- Diverticular Disease and Common Anorectal Disorders
- Mesenteric Vascular Insufficiency
- Acute Intestinal Obstruction
- Acute Appendicitis and Peritonitis

Nutrition

- Nutrient Requirements and Dietary Assessment
- Vitamin and Trace Mineral Deficiency and Excess
- Malnutrition and Nutritional Assessment
- Enteral and Parenteral Nutrition

Liver and Biliary Tract Disease

- Approach to the Patient with Liver Disease
- Evaluation of Liver Function
- The Hyperbilirubinemias
- Acute Viral Hepatitis: A, E, & D
- Chronic Hepatitis B, C and Autoimmune Hepatitis
- Toxic and Drug-Induced Hepatitis
- Vascular disorders of the Liver (EHPVO)
- Alcoholic Liver Diseases
- Non-alcoholic Fatty Liver Diseases and Non-alcoholic Steatohepatitis
- Cirrhosis and Its Complications
- Liver Transplantation
- Diseases of the Gallbladder and Bile Ducts

Disorders of the Pancreas

- Approach to the Patient with Pancreatic Disease
- Acute and Chronic Pancreatitis
- Critical Care Issues in Necrotising pancreatitis



Immune-Mediated, Inflammatory and Rheumatologic Disorders

The Immune System in Health & Disease

- Introduction to the Immune System
- The Major Histocompatibility Complex
- Primary Immune Deficiency Diseases

Disorders of Immune-Mediated Injury

- Urticaria and Angioedema
- Anaphylaxis
- Mastocytosis
- Autoimmunity and Autoimmune Diseases
- Systemic Lupus Erythematosus
- Antiphospholipid Syndrome
- Rheumatoid Arthritis
- RF and Anti CCP in clinical practice
- Acute Rheumatic Fever
- Systemic Sclerosis
- Sjögren's Syndrome
- ANA for Postgraduates
- The Spondyloarthritides
- The Vasculitis Syndromes
- ANCA in medicine practice
- Behçet Syndrome
- Inflammatory Myopathies
- Relapsing Polychondritis
- Sarcoidosis
- Sarcoidosis by Pulmonologist: Case based Discussion
- IgG4-Related Disease
- Familial Mediterranean Fever and Other Hereditary Autoinflammatory Diseases
- Adult Onset Still's Disease
- HLH & Macrophage Activation Syndrome



Disorders of the Joints and Adjacent Tissues

- Approach to Arthritis
- Approach to Back Pain
- Determinants of Test Accuracy
- Agglutination/Precipitation/ELISA/RIA
- Interpretation of Inflammatory Marker
- Osteoarthritis
- Gout and Other Crystal-Associated Arthropathies
- Fibromyalgia
- Arthritis Associated with Systemic Disease, & Other Arthritis
- Periarticular Disorders of the Extremities

“Great apes, dalmatian dogs, & humans are the only mammals that lack a functional uricase gene and, thus, are the only mammals who get gout.”



Endocrinology & Metabolism

Endocrinology

- Mechanisms of Hormone Action: Cell Surface Hormone Receptors
- Mechanisms of Hormone Action: Nuclear Receptor
- Physiology of Anterior Pituitary Hormones
- Hypopituitarism
- Pituitary Masses & Tumors introduction
- Prolactinoma
- Acromegaly
- Disorders of the Neurohypophysis
- Thyroid Gland Physiology Basics & Genetic Syndromes
- Thyroid Gland Physiology: Part 2
- Thyroid Function Test
- Hypothyroidism
- Hyperthyroidism
- Thyroiditis
- Thyroid Nodular Disease and Thyroid Cancer
- Physiology of Adrenal Cortex: Basics & Concepts
- Cushing's syndrome
- Renin Angiotensin System & Hyperaldosteronism
- Adrenal Insufficiency
- Multiple Endocrine Neoplasia-1 (MEN-1)
- Endocrine Hypertension and Pheochromocytoma
- Autoimmune Polyendocrine Syndromes

Sex & Gender- Based Medicine

- Disorders of Sex Development, Testes & Male Reproductive System and Female Reproductive System: Series
- Menstrual Disorders and Pelvic Pain
- Hirsutism
- Menopause and Postmenopausal Hormone Therapy



Obesity, Diabetes Mellitus & Metabolic Syndrome

- Pathobiology of Obesity
- Evaluation and Management of Obesity
- Classification of Diabetes
- Pathophysiology of diabetes the ominous octet concept & beyond
- Diabetes in Pregnancy
- Diabetes Mellitus: Diagnosis, Treatment & Monitoring
- Diabetes Management: Focussed on Insulin
- Management of Hyperglycemia in hospitalised patients By Endocrinologist
- Diabetes Mellitus: Complications
- Diabetic Emergencies: DKA & HHS
- Hypoglycemia : Discussion by Professor Sudha Vidyasagar
- Disorders of Lipoprotein Metabolism
- Familial Dyslipidemia - Case based approach by Cardiologist
- The Metabolic Syndrome

Disorders of Bone & Mineral Metabolism

- Disorder of Phosphorus Metabolism
- Disorder of Calcium Metabolism & Hypercalcemia
- Disorder of Calcium Metabolism & Hypocalcemia
- Osteoporosis
- Osteoporosis update 2023
- Glucocorticoid induced Osteoporosis
- Glucocorticoid Induced Osteoporosis By Endocrinologist
- Paget's Disease and Other Dysplasias of Bone

Disorders of Intermediary Metabolism

- Heritable Disorders of Connective Tissue
- Hemochromatosis
- Wilson's Disease
- Porphyrrias
- How I Approach High Uric Acid
- Disorders of Purine and Pyrimidine Metabolism
- Lysosomal Storage Diseases
- Glycogen Storage Diseases & Other Diseases of Carbohydrate Metabolism
- Inherited Disorders of Amino Acid Metabolism in Adults
- Inherited Defects of Membrane Transport



Neurologic Disorders

Diseases of Neurologic Diseases

- Approaching Neurology Case in Final Exam
- Higher Mental Function
- Cranial Nerve, 3,4 and 6
- Cranial Nerve 5 & 7
- Nystagmus
- Neuroimaging in Neurologic Disorders
- Pathobiology of Neurologic Diseases

Diseases of the central Nervous System

- Status Epilepticus by Neurologist
- First-Time Seizure - Diagnosis & Management
- Classification Of Epilepsy - Definition & Overview
- Classification Of Epilepsy: TLE: Diagnosis & Management
- Seizures and Epilepsy
- Cerebrovascular Diseases
- Ischemic Stroke
- Intracranial Hemorrhage
- Migraine and Other Primary Headache Disorders
- Alzheimer's Disease
- Frontotemporal Dementia
- Vascular Dementia
- Dementia with Lewy Bodies
- Parkinson's Disease
- Movement Disorders: Part- 1 Hyperkinetic Disorders
- Movement Disorders: Part- 2 Hypokinetic Disorders
- Motor Neuron Disease Series
- Amyotrophic Lateral Sclerosis and Other Motor Neuron Diseases
- Prion Diseases
- Ataxic Disorders
- Disorders of the Autonomic Nervous System
- Trigeminal Neuralgia, Bell's Palsy, and Other Cranial Nerve Disorders
- Diseases of the Spinal Cord Series
- Concussion and Other Traumatic Brain Injuries
- Multiple Sclerosis
- Neuromyelitis Optica



Nerve and Muscle Disorders

- Peripheral Neuropathy
- Guillain-Barré Syndrome and Other Immune-Mediated Neuropathies
- Myasthenia Gravis and Other Diseases of the Neuromuscular Junction
- Muscular Dystrophies and Other Muscle Diseases

Chronic Fatigue Syndrome

Psychiatrist and Addiction Disorders

- Mood Disorders
- Schizophrenia and Other Psychotic Disorders
- Alcohol & Alcohol Use Disorders
- Cannabis Use Disorders By Psychiatrist
- Hallucinogen Use Disorders By Psychiatrist
- Opioid Use Disorders By Psychiatrist
- Stimulants Use Disorders By Psychiatrist
- Tobacco Use Disorders By Psychiatrist

“When the pupil is affected in an acquired isolated third cranial nerve palsy, the risk of an enlarging aneurysm is high, and urgent vascular imaging is required, generally with cerebral angiography.”



Poisoning, Drug Overdose & Envenomation

Heavy Metal Poisoning

Poisoning & Drug Overdose

- Organophosphate (OP) Poisoning
- Drug Overdose

Disorders Caused by Venomous Snakebites & Marine Animal Exposures

- Disorders caused by Venomous Snakebite & Marine Animal Exposures, Ectoparasite Infestations & Arthropod Injuries
- Snake Bite Management: Indian Guidelines
- Marine Envenomations

Ectoparasite Infestations & Arthropod Injuries

- Scorpion Sting



Disorders Associated with Environmental Exposures

Altitude Illness

Hyperbaric & Diving Medicine

Hypothermia & Peripheral Cold Injuries

Heat-Related Illnesses

Environmental Exposure





Genes, The Environment, & Disease

Genetics

Principles of Human Genetics

The Practice of Genetics in Clinical Medicine

Mitochondrial DNA & Heritable Traits & Diseases

Telomere Disease

Gene & Cell Based Therapy in Clinical Medicine

The Human Microbiome

Genes, Environment & Diseases



Global Medicine

Global issues in Medicine, Worldwide Changes in Patterns of Infectious Disease, Primary Care & Global Health



Aging

The Biology of Aging

Clinical Problems Associated with the Aging Process



Consultative Medicine

Approach to Medical Consultation

Medical Disorders During Pregnancy

Medical Evaluation of the Surgical Patient

Consultative Medicine



Frontiers

Behavioral Economics & Health

Complementary, Alternative & Integrative Health Approaches

The Role of Epigenetics in Disease & Treatment

Applications of Stem Cell Biology in Clinical Medicine

The Role of Circadian Biology in Health and Disease

Network Medicine: Systems Biology in Health & Disease

Emerging Neurotherapeutic Technologies

Machine Learning and Augmented Intelligence in Clinical Medicine

Metabolomics

Circulating Nucleic Acids as Liquid Biopsies and Noninvasive Disease Biomarkers

Protein Folding Disorders

Novel Approaches to Diseases of Unknown Etiology

Frontiers





Biostatistics

Types of Data & Data Presentation

Estimation

Measures of Central Tendency

Normal Distribution

Measures Of Dispersion

Correlation & Regression

Evaluation of a Test

Probability

Tests of Statistical Significance

Sampling

How to Prepare Journal Club, MedCAS

Data & Variables – The Chi of the Statistic Martial Art™

Superiority, Non-Inferiority & Equivalence trial -
Statistics not the Semantics



Clinical Medicine

Planning your Residency

- How to Plan your Medicine Resident Journey
- How I approach Super-speciality
- Presenting Journal Club During Residency
- Updating your knowledge through Journals

History taking in Medicine

- The Art of History taking by Professor Sudha Vidyasagar

Clinical Notes

- Clinical Cardiology System
- Clinical Neurology System
- Clinical Abdomen (GIT) System
- Clinical Respiratory System

Clinical Case Discussion: Neurology

- CNS Clinical Case: CVA: Posterior Circulation
- CNS clinical case : Brainstem Syndrome
- CNS clinical case : CVA : Posterior Circulation
- CNS clinical case : CVA : Posterior Circulation
- CNS clinical case : CVA : Middle Cerebral Artery (Approach & History)
- CNS Clinical Case : Myopathy
- CNS Clinical Case : GBS
- CNS Clinical Case : Peripheral Neuropathy (Approach & History)
- CNS Clinical Case : Peripheral Neuropathy (Examination)

Clinical Case Discussion: Cardiology

- Cardiology Case : Valvular Heart Disease
- Cardiology case Approach (1): Discussion with Professor Sudha Vidyasagar
- Cardiology case Approach (2) - Discussion with Professor Sudha Vidyasagar



Clinical Case Discussion: Respiratory System

- Clinical Respiratory Case : History: Airway Disease
- Clinical Respiratory Case : Examination: Airway Disease
- Clinical Respiratory Case : History: Pleural Disease
- Clinical Respiratory Case : Examination: Pleural Disease
- Clinical Respiratory case : History : Pleural Disease
- Clinical Respiratory case : Examination : Pleural Disease
- Clinical Respiratory case : Hisotry : Perenchymal disease
- Respiratory case scenarios Discussion with Professor Sudha Vidyasagar Part 1
- Respiratory case scenarios Discussion with Professor Sudha Vidyasagar Part 2

Clinical Case Discussion: Gastroenterology

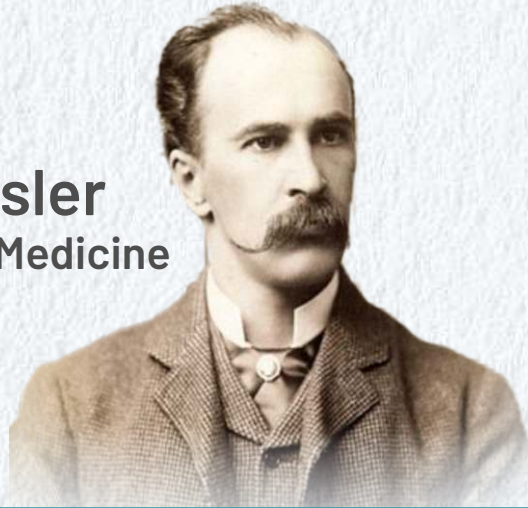
- Clinical Approach to Liver Disease By Professor Sudha Vidyasagar

Radiology

- Chest X-Ray By Pulmonologist Part 1 and 2
- Chest X-ray Basics By Cardiologist
- Chest X-Ray : Pericardial Effusion, Calcification, Pulmonary Hypertension By Cardiologist.
- Chest X-Ray in Valvular Heart Disease By Cardiologist

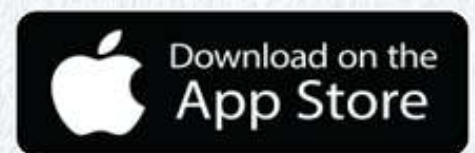
Sir William Osler

Father of Modern Medicine



Observe, record, tabulate, communicate.
Use your five senses.
Learn to see, learn to hear,
learn to feel, learn to smell, and
know that by practice alone
you can become expert.

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