



SMLE Study Guide

2025



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Created by a team of dedicated physicians, AMBOSS is an interactive library of 20,000+ medical topics interlinked with a Question Bank with nearly 5,000 clinical case-based questions. With all the necessary resources in one place, AMBOSS delivers up-to-date medical knowledge to students, physicians, and faculty around the world.

In this SMLE Study Guide, we've provided you with a comprehensive checklist of the Medical Expert Objectives linked to the corresponding AMBOSS article. Click on each topic to access library articles, from which you can navigate seamlessly into the Question Bank at anytime.

Please note: to visit the articles, you will need to have an AMBOSS account with access. If you already have an account, you can log in [here](#). If you're new to AMBOSS, you can register for a free five-day trial [here](#).

S03: NERVOUS SYSTEM / NEUROLOGY
May include: brain, cranial nerves, cerebrospinal fluid, spinal cord, peripheral nerves, regional anaesthesia and autonomic nervous system.

Theme Topic

Parkinson disease Parkinson disease ☐

Click here to open library article

Spinal disorders

AMBOSS

Parkinson disease

Click here to answer multiple choice questions

QBank Session

Summary

Parkinson disease (PD) is a neurodegenerative disease involving a progressive depletion of dopaminergic neurons in the basal ganglia, particularly the substantia nigra. PD usually manifests at approximately 60 years of age. Although PD is considered an idiopathic disease, genetic factors seem to play a role in about 10–15% of cases and, accordingly, familial clustering has been observed. The typical clinical picture seen in PD is called parkinsonism and features the classical cardinal symptom of bradykinesia along with resting tremor and/or rigidity. Postural instability is another frequent finding. While PD is the main cause, parkinsonism may also result from other factors, e.g., medication (secondary parkinsonism). Atypical parkinsonism may appear similar to PD, but often features additional or atypical symptoms. To date, there is no cure for PD. Symptomatic treatment includes physical therapy and, depending on patient age and individual symptoms, various medications (e.g., levodopa, dopamine agonists). In specific cases, deep brain stimulation (DBS) surgery may be beneficial.

We recommend that all candidates read the [Saudi Commission for Health Specialities Website](#).

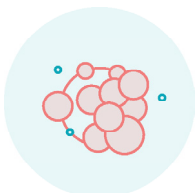
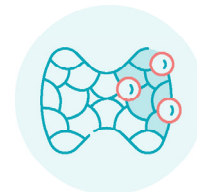
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Finally, the AMBOSS team is here to support you. If you have questions, suggestions or comments, please do not hesitate to contact us at hello@amboss.com.

Happy studying!



Internal Medicine



1. Cardiology



Theme	Topic	
Coronary artery disease	Principles of coronary artery disease	
	Acute coronary syndrome	
	Cardiac catheterization	
	Coronary artery bypass grafting	
Heart failure	Congestive heart failure	
Arrhythmias and ECG	Overview of cardiac arrhythmias (Cardiac arrhythmias)	
	ECG	
	Atrial fibrillation	
Cardiovascular risk reduction	Metabolic syndrome	
	Hypertension	
	Atherosclerosis	
	Lipid disorders	
Valvular Heart Diseases	Valvular heart diseases	
	Aortic valve stenosis	
	Aortic regurgitation	
	Mitral stenosis	
	Mitral regurgitation	
	Mitral valve prolapse	
Pericarditis and myocarditis	Pericarditis	
	Myocarditis	

2. Pulmonology



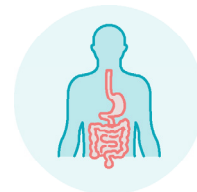
Theme	Topic	
Obstructive pulmonary diseases	Asthma	
	Chronic obstructive pulmonary disease	
Lung mass	Lung cancer	
Pleural effusion	Pleural effusion	
Pulmonary vascular disease	Pulmonary embolism	
	Deep vein thrombosis	

2. Gastroenterology



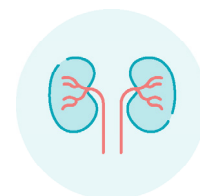
Theme	Topic	
Diseases of the stomach and duodenum	Peptic ulcer disease	
	Gastroesophageal reflux disease (GERD)	
Diseases of the bowel	Crohn disease	
	Ulcerative colitis	
	Irritable bowel syndrome	
	Celiac disease	
Diseases of the Pancreas	Acute pancreatitis	
	Chronic pancreatitis	
	Pancreatic Carcinoma	
Peritonitis	Peritonitis	

4. Hepatology



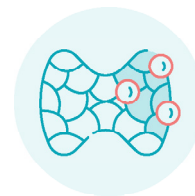
Theme	Topic	
Hepatitis	Hepatitis A	
	Hepatitis B	
	Hepatitis C	
	Autoimmune hepatitis	
Cirrhosis	Cirrhosis	
	Portal hypertension	
	Ascites	
Liver masses	Hepatocellular carcinoma	
	Benign Liver tumors and hepatic cysts	
Diseases of the biliary tract	Cholelithiasis, choledocholithiasis, cholecystitis, and cholangitis	

5. Nephrology



Theme	Topic	
Acute kidney injury	Acute kidney injury	
Chronic kidney disease	Chronic kidney disease	
Nephrotic syndrome	Nephrotic syndrome	
	Proteinuria	
Fluid and electrolyte imbalances	Sodium disorders	
	Disorders of potassium balance	
Acid-base disorders	Acid-base disorders	
Renal tubular disorders	Renal tubular disorders	
Diabetes insipidus	Diabetes insipidus	

6. Endocrinology



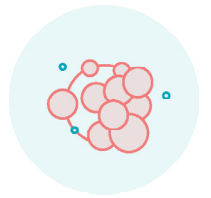
Theme	Topic	
Hypoglycemia	Hypoglycemia	
Diabetes mellitus	Diabetes mellitus	
	Hyperglycemic crises	
	Hypoglycemia	
	Antidiabetic drugs	
	Inpatient management of hyperglycemia	
	Insulin	
Prolactinoma	Hyperprolactinemia	
Adrenal diseases	Adrenal insufficiency	
Hypopituitarism	Hypopituitarism	
Hypothyroidism	Hypothyroidism	
Osteoporosis	Osteoporosis	

7. Rheumatology



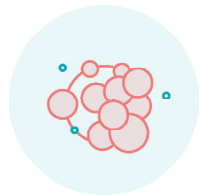
Theme	Topic	
Systemic connective tissue disease	Rheumatoid arthritis	
	Systemic lupus erythematosus (SLE)	
Arthritis	Osteoarthritis	
	Osteoarthritis of the hip and knee	
	Reactive arthritis (Reiter syndrome)	
Gout and other microcrystalline arthropathies	Gout and hyperuricemia	
Myositis	Inflammatory myopathies	

8. Hematology



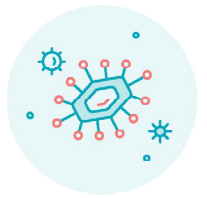
Theme	Topic	
Anemias	Anemia	
	Iron deficiency anemia	
	Vitamin B12 deficiency	
	Hemolytic anemia	
Sickle cell disease	Sickle cell disease	
Leukemias	Acute leukemia	
Bleeding disorders	Hemostasis and bleeding disorders	
Coagulation	Hypercoagulable states	
	Oral anticoagulants	
	Parenteral anticoagulation	
Thrombocytopenia	Thrombocytopenia	

9. Oncology



Theme	Topic	
Oncological emergencies	Tumor lysis syndrome	
	Superior Vena Cava Syndrome	
	Febrile neutropenia	
Prostate cancer	Prostate cancer	

10. Infectious diseases



Theme	Topic	
Cardiological infections	Infective endocarditis	
Pulmonary infections	Pneumonia	
	Tuberculosis	
Neurological infections	Meningitis	
Soft tissue and bone infections	Skin and soft tissue infections	
	Osteomyelitis	
	Septic arthritis	
Sexually transmitted diseases	Sexually transmitted infections	
	Candidiasis	
	Gonorrhea	
	Syphilis	
	Chancroid	
	Herpes simplex virus infections	
	Chlamydia infections	
	Pelvic inflammatory disease	
Urinary tract infections	Urinary tract infections	
Influenza	Influenza	
Hospital acquired infections	Nosocomial infections	
Chicken pox and shingles	Chickenpox	
	Shingles	
Zoonoses and arthropod-borne infections	Dengue	
	Malaria	
	Brucellosis	
Enteric fever	Typhoid and paratyphoid fever	
Parasitic infections	Leishmaniasis	
	Helminth infections	

11. Neurology



Theme	Topic	
Stroke	Overview of stroke	
	Ischemic stroke	
Migraine	Migraine	
Seizure disorders and epilepsy	Seizure disorders (Epilepsy)	
	Focal seizures and syndromes	
	Anticonvulsant drugs	
	Status epilepticus	
Multiple sclerosis	Multiple sclerosis	
Spinal disorders	Degenerative disc disease	
	Spinal cord compression	
	Spinal stenosis	
Polyneuropathy	Guillain-Barre syndrome	
Neuromuscular disease	Myasthenia gravis	

12. Critical Care



Theme	Topic	
Airway management and ventilation	Airway management and ventilation	
Shock	Shock	
	Sepsis and septic shock	
Cardiac tamponade	Cardiac tamponade	

13. Geriatrics



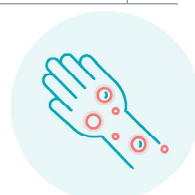
Theme	Topic	
Confusional state	Delirium	
	Dementia (Major neurocognitive disorder)	

14. Psychiatry



Theme	Topic	
Depression	Major depressive disorder	
	Antidepressants	
	Suicidality	
Substance related and addictive disorders	Alcohol use disorder (Alcoholism)	
	Substance-related and addictive disorders	
	Wernicke encephalopathy and Korsakoff syndrome	
Psychosis	Schizophrenia	
	Bipolar disorder	
	Lithium	
	Antipsychotics	

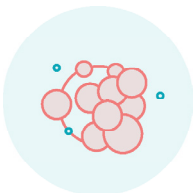
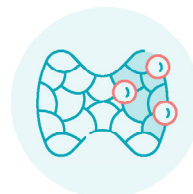
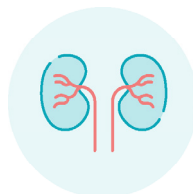
15. Dermatology



Theme	Topic	
Cellulitis	Cellulitis	
Autoimmune skin disease	Autoimmune blistering diseases	
	Vitiligo	
Acne	Acne	
Inflammatory skin disease	Lichen Planus	
	Psoriasis	



Pediatrics



1. Neonatology and Child Development



Theme		
Assessment and care and major problems of the newborn	The newborn infant	
	Birth traumas	
	Neonatal respiratory distress syndrome	
	Intrauterine Growth Restriction	
	Congenital visceral malformations	
	Hemolytic disease of the fetus and newborn	
	Vitamin K deficiency bleeding of the newborn	
Neonatal jaundice	Neonatal jaundice (Icterus neonatorum)	
Neonatal screening	The newborn infant	
Infectious diseases in pregnancy affecting the newborn	Congenital TORCH infections	
	HIV in pregnancy	
	Perinatal hepatitis B	
Pregnancy disorders affecting the newborn	Hypertensive pregnancy disorders	
	Gestational diabetes mellitus	
	Hyperthyroidism in pregnancy	
Child development and milestones	Child development and milestones	
Vaccination	Vaccination	

2. Cardiology



Theme		
Congenital heart defects	Acyanotic congenital heart defects	
	Cyanotic congenital heart defects	
Rheumatic heart disease	Rheumatic heart disease	
Kawasaki disease	Kawasaki disease	

3. Pulmonology



Theme		
Respiratory tract infections	Bronchiolitis	
	Croup	
	Pertussis	
Recurrent wheezing and asthma	Asthma	
Anaphylaxis	Hypersensitivity reactions	

4. Gastroenterology



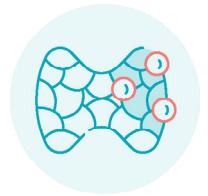
Theme		
Congenital gastrointestinal abnormalities	Congenital visceral malformations	
Approach to the vomiting child	Hypertrophic pyloric stenosis	
	Gastroesophageal reflux	
	Acute appendicitis	
	Intussusception	
	Testicular torsion	
Approach to the constipated child	Constipation	
Approach to the child with chronic diarrhoea and malabsorption	Diarrhea	
	Celiac disease	
	Crohn disease	
	Ulcerative colitis	
Acute gastroenteritis	Bacterial gastroenteritis	

5. Nephrology



Theme		
Urinary tract infections	Urinary tract infections	
Nephrotic syndrome	Nephrotic syndrome	
Renal and urinary tract malformations	Congenital anomalies of the kidneys	
	Poststreptococcal glomerulonephritis	
	Henoch-Schönlein purpura	
Enuresis	Elimination disorders	

6. Endocrinology and Growth



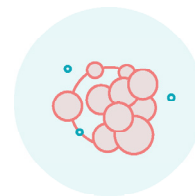
Theme		
Puberty disorders	Puberty	
	Disorders of sex development	
Disordered growth	Tall stature and abnormally rapid growth	
	Short stature	
	Obesity	
Diabetes Mellitus	Diabetes mellitus	

7. Rheumatology and Musculoskeletal



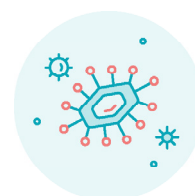
Theme		
Pediatric rheumatology	Osteomalacia and rickets	
	Juvenile idiopathic arthritis	
Osteomyelitis and infectious arthritis	Septic arthritis	
	Osteomyelitis	

8. Hematology and Oncology



Theme		
Thrombotic microangiopathy	Hemolytic uremic syndrome	
Thrombocytopenia	Immune thrombocytopenia	
	Thrombotic thrombocytopenic purpura	
Diagnostic approach and referral criteria for paediatric neoplasia	Acute leukemia	
Common paediatric tumours	Neuroblastoma	
	Wilms tumour (Nephroblastoma)	
	Retinoblastoma	

9. Infectious diseases



Theme		
Dermatology and rashes	Measles	
	Mumps	
	Scarlet fever (Second disease)	
	Rubella	
	Chickenpox	
	Atopic dermatitis	
	Impetigo	

10. Neurology



Theme		
Neuro infections	Meningitis	
	Herpes simplex encephalitis	
Seizure disorders and febrile convulsions	Seizure disorders	
	Generalized epilepsy in childhood	
	Febrile seizures (Febrile seizure)	

11. Critical Care



Theme		
Paediatric basic life support	Foreign body aspiration (FBA)	

12. Ear, Nose and Throat



Theme		
Ear	Acute otitis media	
	Chronic otitis media	
	Otitis externa	
Nose and throat	Acute tonsillitis	
	Sinusitis	
	Rhinitis	

13. Child Psychiatry and Neurodevelopment



Theme		
Cerebral palsy	Cerebral Palsy	
Maltreatment in child and youth	Child maltreatment	
Child psychiatry	Emotional and behavioral disorders in children and adolescents	

14. Congenital and Inherited Disorders



Theme		
Congenital and inherited disorders	Down syndrome (Trisomy 21)	
	Ehlers-Danlos syndrome and Marfan syndrome	
	Inborn errors of carbohydrate metabolism	
	Congenital immunodeficiency disorders	
	Cleft lip and cleft palate (Cleft lip)	
	Congenital adrenal hyperplasia	
	Inborn errors of metabolism	



Obstetrics and Gynecology





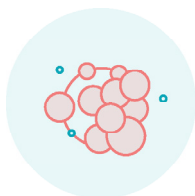
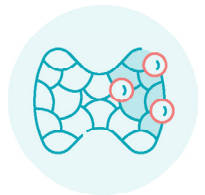
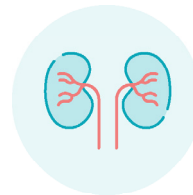
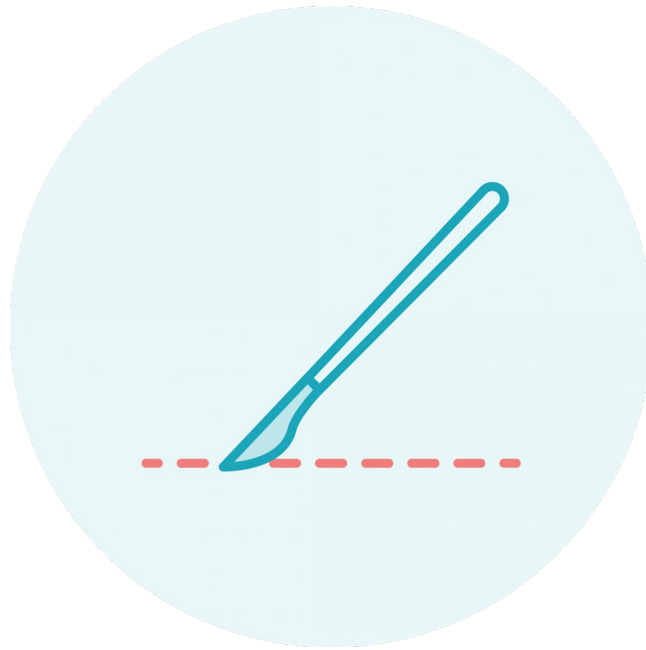
Theme	Topic	
Menopause, urogynaecology and prolapse	Diagnostic procedures in gynecology	
	Menopause	
	Pelvic organ prolapse	
	Stress incontinence	
	Urinary incontinence	
	Urinary tract infections	
Oncology and gynaecological surgery	Human papillomavirus infection	
	Cervical cancer (Cervical carcinoma)	
	Breast cancer	
	Vulvar and vaginal cancer	
	Ovarian tumors	
Menstrual cycle, puberty and hormones	Menstrual cycle and menstrual cycle abnormalities	
	Disorders of sex development	
Vaginal bleeding	Endometriosis	
	Uterine leiomyoma (Fibroids)	
	Polycystic ovary syndrome (PCOS)	
	Pregnancy loss	
	Ectopic pregnancy	
	Vulvovaginitis	
	Sexually transmitted infections	



Theme	Topic	
Contraception, preconception and infertility	Infertility	
	Nonhormonal contraception	
	Hormonal contraceptives	
	Prenatal care	
	Pregnancy	
	Hypertensive pregnancy disorders	
	Gestational diabetes mellitus	
	Gestational trophoblastic disease	
	Placental insufficiency	
	Multiple pregnancy	
	Intrauterine growth restriction	
	Pharmacotherapy during pregnancy	
	Chorioamnionitis, neonatal infection and omphalitis.	
Labour and birthing	Childbirth	
	Mechanics of childbirth	
	Uterine rupture	
	Preterm labor and birth	
Obstetric emergencies	Birth traumas	
	Postpartum hemorrhage	
	Antepartum hemorrhage	
Puerperium	Postpartum period	
	Prenatal and postnatal physiology	



Surgery

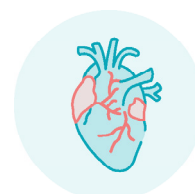


1. Principles of Surgery, Trauma, Intensive Care and Anesthetics



Theme	Topic	
Surgery	Perioperative management	
	Laparoscopic surgery	
Surgical infections	Finger infections	
	Local inflammatory responses	
	Surgical site infections	
Airway management and ventilation	Airway management and ventilation	
	Acute respiratory distress syndrome	
Shock	Shock	
Trauma	Management of trauma patients	
	Penetrating trauma	
	Blunt trauma	
	Splenic rupture	
Anesthesia	Pain management	
	Local anesthetic agents	
	Local and regional anesthesia	

2. Vascular Surgery



Theme	Topic	
Vascular diseases of the aorta and limbs	Abdominal aortic aneurysm (AAA)	
	Peripheral arterial disease	
	Acute limb ischemia	
	Gangrene	
	Diabetic foot	

3. Cardiothoracic Surgery



Theme	Topic	
Approach to the patient with chest pain	Chest pain	
Approach to the patient with edema	Edema	
Pericardial disease	Pericardial effusion and cardiac tamponade	
Pulmonary vascular disease	Pulmonary embolism	
Atelectasis	Atelectasis	
Pneumothorax	Pneumothorax	

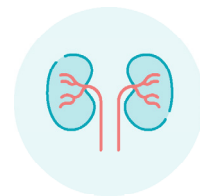
4. Gastrointestinal Surgery



Theme	Topic	
Approach to the patient with digestive bleeding	Gastrointestinal bleeding	
	Mallory-Weiss syndrome	
Peritoneum	Peritonitis	
Esophagus, stomach and duodenum	Esophageal cancer	
	Esophageal perforation	
	Esophageal diverticula	
	Gastroesophageal reflux disease	
	Peptic ulcer disease	
	Gastric cancer	
Diseases of the Pancreas	Acute pancreatitis	
	Chronic pancreatitis	
	Pancreatic Carcinoma	

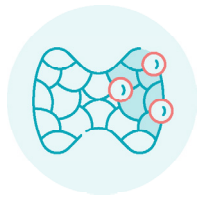
Theme	Topic	
Diseases of the Small and Large Intestines	Acute appendicitis	
	Diverticular disease	
	Colorectal cancer	
	Colonic polyps	
	Bowel obstruction	
	Bowel surgery	
	Abdominal hernias	
	Inguinal hernia	
	Femoral hernia	
	Internal hernia	
	Congenital diaphragmatic hernias	
	Acquired diaphragmatic hernia	
Anorectal Disorders	Intestinal ischemia	
	Rectal prolapse	
	Hemorrhoids	
	Thrombosed external hemorrhoid	
	Anal fissures	
	Anal abscess and fistula	
	Anal cancer	
Approach to the jaundiced patient	Pilonidal cyst	
	Jaundice and cholestasis	
Liver	Benign Liver tumors and hepatic cysts	
	Pyogenic liver abscess	
Gallbladder and biliary tract diseases	Cholelithiasis, choledocholithiasis, cholecystitis, and cholangitis	

5. Urology



Theme	Topic	
Kidney and retroperitoneal trauma	Kidney	
Acute kidney and urinary tract diseases	Pyelonephritis	
	Nephrolithiasis	
	Hematuria	
Chronic kidney and urinary tract diseases	Urinary retention	
	Vesicoureteral reflux	
	Retroperitoneal fibrosis	
Renal replacement therapy	Renal replacement therapy	
Hereditary renal disorders	Congenital anomalies of the kidneys	
Prostate	Benign prostatic hyperplasia	
	Prostatitis	
	Prostate cancer	
Male reproductive system	Bladder exstrophy, abnormalities of the male urethra, and webbed penis	
	Disorders of the glans penis and foreskin	
	Epididymitis	
	Testicular tumors	
	Testicular torsion	
	Priapism	

6. Thyroid and Breast Surgery



Theme	Topic	
Thyroid disorders	Neck mass evaluation	
	Thyroid gland and parathyroid glands	
	Goiter	
	Hyperthyroidism	
	Thyroid nodules	
	Thyroid cancer (Thyroid carcinoma)	
	Thyroid surgery	
Parathyroid diseases	Hyperparathyroidism	
Breast disorders	Breast cancer	
	Benign breast conditions	
	Nipple discharge	

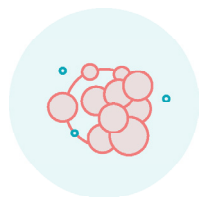
7. Orthopedics



Theme	Topic	
Bone tumours	Benign bone tumors	
	Malignant bone tumors	
Compartment syndrome	Compartment syndrome	
General principles of fractures	General principles of fractures	
	Conservative treatment of fractures (Conservative fracture management)	
Shoulder	Shoulder dislocation	
Clavicle	Clavicle fracture	
Humerus and elbow	Humerus fracture	
	Insertional tendiopathy (epicondylitis)	
	Elbow dislocation	
	Radial head subluxation (Pulled elbow)	

Theme	Topic	
Forearm, wrist and hand	Scaphoid fracture	
	Distal radius fractures	
	Finger injuries	
Spine	Vertebral fractures	
	Degenerative disc disease	
Pelvis	Pelvic fracture	
Hip	Hip fractures	
Femur	Femoral shaft fracture	
	Osteonecrosis of the femoral head	
Knee	Knee ligament injuries	
	Meniscus tear (Meniscus rupture)	
Tibia	Tibial fracture	
Ankle and foot	Ankle fracture	
	Achilles tendon rupture	
	Foot deformities	
Sports injuries	Sports injuries	
Pediatric fractures	Pediatric fractures	

8. Hematology



Theme	Topic	
Approach to the patient with adenopathy and splenomegaly	Splenomegaly	
	Lymphadenopathy	
Coagulation and bleeding disorders	Hypercoagulable states	
	Disseminated intravascular coagulation	
Blood products	Transfusion	
Other	Parenteral anticoagulation	

9. Neuro Surgery



Theme	Topic	
Cranial nerve disorders	Cranial nerve palsies	
	Trigeminal neuralgia	
	Facial nerve palsy/Bell palsy	
Infections of nervous system	Meningitis	
	Herpes simplex encephalitis	
	Brain abscess	
Peripheral neuropathy	Carpal tunnel syndrome	
	Median nerve neuropathy	
	Peripheral nerve injuries	
	Radial neuropathies	
	Ulnar nerve entrapment	
Cerebrovascular system	Stroke	
	Cerebral aneurysms	
	Cerebral venous thrombosis	
	Epidural hematoma	
	Subdural hematoma	
	Subarachnoid hemorrhage	
	Intracerebral hemorrhage	
Traumatic brain injury	Traumatic brain injury	
Brain tumours	Brain tumours	
Intracranial pathology	Elevated intracranial pressure and brain herniation	
Hydrocephalus	Hydrocephalus	

10. Dermatology



Theme	Topic	
Wounds	Wound treatment	
	Wound healing	
Burns	Burns	
Infections	Cellulitis	
	Necrotizing fascitis	
	Skin and soft tissue infections	
	Tetanus prophylaxis	
Skin tumors	Lipoma	
	Squamous cell carcinoma	
	Basal cell carcinoma	

11. Ear Nose and Throat, and Head and Neck Surgery



Theme	Topic	
Ear	Hearing loss	
	Otitis externa (Swimmer's ear)	
	Acute otitis media (Middle ear infection)	
	Chronic otitis media	
Dizziness and Vertigo	Case: Dizziness	
	Ménière disease	
	Benign paroxysmal positional vertigo	
	Vestibular Neuronitis (labyrinthitis)	
	Acoustic neuroma (vestibular schwannoma)	
	Phobic postural vertigo	
Nose	Sinusitis	
	Epistaxis	
Throat	Tonsillitis	

Theme	Topic	
Throat	Acute tonsillitis	
	Larynx	
	Laryngitis	
	Laryngeal carcinoma	
	Pharyngeal cancer	
	Juvenile nasopharyngeal angiofibroma	
	Adenoid hypertrophy	
Miscellaneous ear, nose, and throat disorders	Miscellaneous ear, nose, and throat disorders	
	Diseases of the salivary glands	
Head and Neck	Head and Neck Examination	
	Overview of head and neck region	
	Deep neck infections	
	Congenital neck masses	

12. Ophthalmology



Theme	Topic	
Ocular trauma	Traumatic eye injuries	
Orbit	Orbital disorders	
Lacrimal apparatus	Diseases of the lacrimal apparatus	
Lids and lashes	Inflammation of the eyelids	
Conjunctiva	Conjunctivitis	
Cornea	Corneal disorders	
Uveal tract	Diseases of the uvea	
	Uveal melanoma	
Lens	Diseases of the lens	
	Cataract	
Vitreous	Endophthalmitis	
Retina	Diseases of the retina	
	Retinal vessel occlusion	
	Retinal detachment	
	Retinoblastoma	
	Diabetic retinopathy	
Glaucoma	Glaucoma	
Vision	Disorders of the visual pathway	
	Night blindness	

13. Pediatric Surgery



Theme	Topic	
Assessment of the newborn	Birth traumas	
Common paediatric tumours	Neuroblastoma	
	Wilms tumour (Nephroblastoma)	
Gastroenterology	Hypertrophic pyloric stenosis	
	Esophageal atresia	
	Hirschsprung's disease	

14. Epidemiology



Theme	Topic	
Epidemiology	Epidemiology	