

प्रदेश लोक सेवा आयोग

गण्डकी प्रदेश, पोखरा

स्वास्थ्य सेवा, मेडिसिन समूह, नवौं (९) तह कन्सल्टेण्ट जनरल फिजिसियन पदको खुला र आन्तरिक
प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम

Paper II: Technical Subject

1. Infectious and other Diseases

1.1. Infections Diseases

- 1.1.1. Hiv
- 1.1.2. Tuberculosis including MDR
- 1.1.3. Malaria
- 1.1.4. Enteric fever
- 1.1.5. Brucellosis
- 1.1.6. Venereal Diseases
- 1.1.7. Leptospirosis
- 1.1.8. Dengue Fever
- 1.1.9. Scrub Typhus
- 1.1.10. H. Pylori infection
- 1.1.11. Tetanus
- 1.1.12. Rabies
- 1.1.13. Filaria
- 1.1.14. Kala-zar
- 1.1.15. Japanese encephalitis
- 1.1.16. Diarrhoea and Dysentery
- 1.1.17. Helminthiasis
- 1.1.18. Chlamydial and Rickettsial infections
- 1.1.19. Sepsis

1.2. Hematology:

- 1.2.1. Acute Leukemia
- 1.2.2. Chronic-II
- 1.2.3. Myelofibrosis
- 1.2.4. Anemia in detail
- 1.2.5. Polycythemia
- 1.2.6. Lymphoma
- 1.2.7. Myeloma
- 1.2.8. Myelodysplastic Syndrome
- 1.2.9. Myeloproliferative disorders

1.3. Autoimmune Diseases

- 1.3.1. Rheumatoid Arthritis
- 1.3.2. SLE
- 1.3.3. GB syndrome
- 1.3.4. CIDP (Chronic inflammatory Demyelinating Polynuropathy)
- 1.3.5. Myasthenia Gravis
- 1.3.6. Addison Disease
- 1.3.7. Graves Disease
- 1.3.8. Hashimoto Thyroiditis
- 1.3.9. Vasculitis

1.4. Endocrine

- 1.4.1. Diabetes Mellitus
- 1.4.2. Diabetes Insipidus
- 1.4.3. Acromegaly
- 1.4.4. Cushing Disease

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- 1.4.5.Conn Syndrome
- 1.4.6.Thyroid Disorders
- 1.4.7.Parathyroid Diseases
- 1.4.8.MEN I & II (Multiple Endocrine Neoplasia)
- 1.4.9.Hypopituitarism
- 1.4.10. Adrenal insufficiency
- 1.4.11. PCOD
- 1.4.12. Prolactinoma

2. Cardiology

2.1. Clinical:

(Definition, Pathophysiology, Epidemiology, Features of History, Examination findings, Differential Diagnosis, Investigations indicated, detailed initial management and principles of ongoing management (counselling, lifestyle, medical, surgical, care setting and follow up)

- 2.1.1. Coronary artery Diseases
- 2.1.2. Rheumatic Fever and Rheumatic Heart Diseases
- 2.1.3. Congenital Heart diseases
- 2.1.4. Vascular Disorders
- 2.1.5. Pulmonary Thrombo-embolism and Pulmonary Hypertension
- 2.1.6. Systemic Hypertension
- 2.1.7. Systemic Diseases involving Heart and its Vessels
- 2.1.8. Heart Muscle Diseases
- 2.1.9. Tumors of Heart
- 2.1.10. Genetics, molecular biology and immunology related to Cardiology
- 2.1.11. Geriatric heart diseases
- 2.1.12. General Anaesthesia and non-cardiac surgery in heart patients
- 2.1.13. Pregnancy and heart diseases
- 2.1.14. Epidemiology, preventive and rehabilitative cardiology
- 2.1.15. Pericardial Diseases
- 2.1.16. Cardiac Arrhythmias
- 2.1.17. Approach to common cardiac symptoms like Chest pain, Shortness of Breath and Syncope.

2.2. Core Procedures and Investigations:

- 2.2.1. Basic Investigations: (Investigations for the diagnosis and assessment of patients with cardiac disease - Level 3)
- 2.2.2. Electrocardiogram
- 2.2.3. Ambulatory ECG
- 2.2.4. Exercise Testing
- 2.2.5. CXR
- 2.2.6. Ambulatory BP
- 2.2.7. Echocardiography (Core) - Role of echocardiography in the management of patients with cardiac disease (Level 3)
- 2.2.8. Indications for echocardiography in emergency, in-patient and out patient settings.
Ethics and sensitivities of patient care.

2.3. Nuclear cardiology (Core): To be able to define the indications for nuclear Cardiology investigations

2.4. Cardiac CT (core) :- Indications for: Calcium score Exam and CT coronary angiography

2.5. Heart Rhythm Training (core):

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2.5.1. Common cardiac arrhythmia particularly in emergency setting like supra ventricular tachycardia, atrial fibrillation, ventricular tachycardia and do temporary pacing

2.5.2. Basic concepts, and theoretical knowledge of different rhythm management procedures like permanent pacing, AICD, CRT etc.

2.6. Invasive and Interventional Cardiology (core)

2.6.1. Basic understanding, indications, contraindications and technical aspects of various invasive diagnostic procedures like, coronary angiography, right heart catheterization, left heart catheterization, hemodynamic study, Pericardiocentesis, electrophysiological study and others.

2.6.2. Basic understanding, indications, contraindications and technical aspects of temporary and permanent pacemaker implantation.

2.6.3. Basic understanding, indications, contraindications and technical aspects of coronary angioplasty, mitral balloon valvoplasty and other non-coronary percutaneous interventions.

3. Gastroenterology

3.1. Basic Sciences

3.1.1. Gene Therapy

3.1.2. GI Tumors & Tumor biology

3.1.3. Gastrointestinal hormones in health & diseases

3.1.4. GI related microbiology, clinical chemistry & haematology

3.2. Problems related to GIT, Hepatobiliary and Pancreatic system

3.2.1. Upper & lower G.I. bleeding

3.2.2. Gastrointestinal tuberculosis

3.2.3. HIV and the GIT, hepatobiliary and pancreatic system

3.2.4. GIT & liver in systemic diseases

3.2.5. Cutaneous manifestation of G.I. disease

3.2.6. Gastrointestinal side effects of drugs especially NSAIDS

3.2.7. Gastro-intestinal symptoms physiology and interpretation:

3.2.7.1. Nausea, vomiting

3.2.7.2. Pain abdomen

3.2.7.3. Diarrhoea, constipation

3.2.7.4. Dysphagia

3.2.7.5. Jaundice

3.3. Esophagus

3.3.1. Congenital anomalies

3.3.2. Motor physiology and motor disorder of the esophagus.

3.3.3. GERD & its complication

3.3.4. Esophageal disorders caused by infection, systemic illness, medication Radiation & Trauma

3.3.5. Esophageal tumors

3.3.6. Stomach

3.3.7. Gastritis (specific & nonspecific)

3.3.8. H pylori

3.3.9. Peptic ulcer & its complications, their management

3.3.10. Stress & stomach

3.3.11. Gastric hypersecretory states including Zollinger Ellison Syndrome (ZES)

3.3.12. Surgery for peptic ulcer

3.3.13. Post gastrectomy complication

3.3.14. Tumors of stomach

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3.3.15. Bezoars

3.3.16. Diverticuli & hernia of the stomach

3.4. Small intestine

3.4.1. Normal absorption of the nutrients

3.4.2. Intestinal electrolyte absorption and secretion

3.4.3. Malabsorption syndrome

3.4.3.1. Pathophysiology, manifestations & approach

3.4.4. Celiac sprue

3.4.5. Infection related diseases

3.4.5.1. Intestinal microflora in health & diseases

3.4.5.2. Tropical sprue

3.4.5.3. Infectious diarrhoea & food poisoning

3.4.5.4. Parasitic diseases

3.4.6. Small intestinal ulcers

3.4.7. Short bowel syndrome

3.4.8. Eosinophilic gastroenteritis

3.4.9. Management of diarrhoea.

3.4.10. G.I. lymphomas

3.5. Colon

3.5.1. Megacolon

3.5.2. Constipation

3.5.3. Colonic pseudo-obstruction.

3.5.4. Fecal incontinence

3.5.5. Antibiotic associated diarrhoea

3.5.6. Inflammatory bowel disease

3.5.6.1. Ulcerative colitis

3.5.6.2. Crohn's disease

3.5.6.3. Indeterminate colitis

3.5.6.4. Ileostomies & its management

3.5.7. Diverticular disease of colon.

3.5.8. Radiation enterocolitis.

3.5.9. Malignant disease of colon.

3.5.10. Other inflammatory diseases of the colon including

3.5.10.1. Solitary rectal ulcer syndrome

3.5.10.2. Diversion colitis

3.5.10.3. Collagenous & microscopic colitis

3.5.10.4. Non specific ulceration of the colon

3.6. Pancreas

3.6.1. Acute, recurrent & chronic pancreatitis

3.6.2. Cystic fibrosis & other childhood disorder of the pancreas

3.7. Biliary Tree

3.7.1. Approach to the patient with jaundice

3.7.2. Gall stone, its complications & management

3.7.3. Acute calculous cholecystitis

3.7.4. Acute cholangitis

3.7.5. Endoscopic management of biliary obstruction

3.7.6. Sclerosing cholangitis & recurrent pyogenic cholangitis

3.8. Liver

3.8.1. Function of liver

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- 3.8.2. Liver function test
- 3.8.3. Portal hypertension
 - 3.8.3.1. Extrahepatic portosplenic vein obstruction
 - 3.8.3.2. Non cirrhotic portal fibrosis
 - 3.8.3.3. Cirrhosis
- 3.8.4. Acute viral hepatitis
- 3.8.5. Chronic hepatitis
- 3.8.6. Fulminant hepatic failure
- 3.8.7. Cirrhosis of liver with the emphasis on the spectrum of alcohol related disorder
- 3.8.8. Ascites
- 3.8.9. Hepatorenal syndrome
- 3.8.10. Autoimmune liver disease
- 3.8.11. Metabolic liver disease
- 3.8.12. Primary biliary cirrhosis
- 3.8.13. Hepatic venous outflow tract obstruction
- 3.8.14. Fibrocystic disease of the liver
- 3.8.15. Wilson's disease
- 3.8.16. Hemochromatosis
- 3.8.17. Liver abscess & Bacterial, parasitic, Fungal and granulomatous liver disease.
- 3.8.18. Liver in porphyria, pregnancy & Congestive heart failure
- 3.8.19. Hepatic tumors
- 3.8.20. Liver biopsy

3.9. Peritoneum and Retroperitoneum:

- 3.9.1. Chronic peritonitis
- 3.9.2. Malignant ascites
- 3.9.3. Diseases of retroperitoneum
- 3.9.4. G.I. Radiology
- 3.9.5. Reading and interpreting the common x-ray film's including
 - 3.9.5.1. X-ray films of the abdomen
 - 3.9.5.2. Barium studies, ultrasound of abdomen, EUS

3.10. Adequate understanding and training of procedures including upper G.I. endoscopy and lower G.I. procedures

4. Nephrology

4.1. General

- 4.1.1. Path physiology of Haematuria and approach to the patient
- 4.1.2. Path physiology of proteinuria
- 4.1.3. Physiology of fluid and electrolytes balance
- 4.1.4. Physiology of acid and base balance
- 4.1.5. Investigations related to kidney diseases

4.2. Glomerular Diseases

- 4.2.1. Glomerulonephritis
 - 4.2.1.1. Primary
 - 4.2.1.2. Postinfectious GN (Poststreptococcal GN)
 - 4.2.1.3. Systemic disease causing glomerulonephritis
 - 4.2.1.3.1. SLE
 - 4.2.1.3.2. Infective Endocarditis
 - 4.2.1.3.3. Good pastur syndrome

4.3. Systemic diseases affecting glomerulous

- 4.3.1. Diabetes mellitus

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- 4.3.2.Hypertension
- 4.4. Functional defect and the diseases of the renal tubules and urinary tract**
 - 4.4.1.Urinary tract infection
 - 4.4.2.Acute tract infection
 - 4.4.3.Renal tuberculosis
 - 4.4.4.Renal tubular acidosis
- 4.5. Drug induced renal disease**
 - 4.5.1.Analgesics nephropathy
- 4.6. Malignant disease of the kidney**
 - 4.6.1.Hypernephroma
- 4.7. Failure of the renal function**
 - 4.7.1.Acute renal failure
 - 4.7.2.Chronic renal failure
- 4.8. Metabolism**
 - 4.8.1.Calcium and phosphorus metabolism
- 4.9. Renal replacement therapy**
 - 4.9.1.Diseases
 - 4.9.1.1. Peritoneal
 - 4.9.1.1.1. Intermittent peritoneal dialysis
 - 4.9.1.1.2. Chronic ambulatory peritoneal dialysis
 - 4.9.2.Haemodialysis
 - 4.9.3.Vascular access for haemodialysis
 - 4.9.4.Basic Concept on Renal transplantation
- 4.10. Congenital diseases of the kidney**
 - 4.10.1. Adult polycystic kidney disease
- 4.11. Renal vascular disease causing hypertension**
 - 4.11.1. Renal artery stenosis
- 4.12. Acid base balance**
 - 4.12.1. Acidosis
 - 4.12.1.1. Respiratory
 - 4.12.1.2. Metabolic
 - 4.12.2. Alkalosis
 - 4.12.2.1. Respiratory
 - 4.12.2.2. Metabolic
- 4.13. Electrolyte imbalance**
 - 4.13.1. Sodium
 - 4.13.1.1. Hyponatracmia
 - 4.13.1.2. Hypernatracmia
 - 4.13.2. Potassium
 - 4.13.2.1. Hypookalaemia
 - 4.13.2.2. Hyperkalaemia
- 4.14. Prescribing drugs in renal failure**
- 4.15. Diet in renal diseases**
- 5. Neurology**
 - 5.1. Lumber puncture and CSF examination**
 - 5.2. Infections in brain : Meningitis, encephalitis : Various agents responsible, their diagnosis, pathogenesis and complications**
 - 5.3. Pharmacology of drugs used in various neurological disorders: Epilepsy, Parkinsonism, stroke, Myasthenia, Migraine, dementia, various medications used in critical care**

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- 5.4.** Side effects, interactions, overdose of various medication sedatives
- 5.5.** Clinical methods of neurology
 - 5.5.1. Cardinal manifestations of neurological diseases
 - 5.5.2. Localisation in neurology and syndromic approach: in cases of Delirium, episodic impairment of consciousness, falls and drop attacks, stupor and coma, memory impairment, Apraxias, aphasia, agnosia, dysphagia, vision loss, diplopia, Nystagmus, dizziness and vertigo, tinnitus and hearing loss, brainstem syndromes, ataxic disorders, movement disorders, gait disorders, hemiplegia, paraplegia and spinal cord disorders, pattern of weakness, hypotonic child, delayed milestone and regression of milestone, sensory abnormalities of limbs, trunk and face
- 5.6.** Meningitis
- 5.7.** Encephalitis and infectious encephalopathies
- 5.8.** Intracranial space occupying infections and neurological HIV disease
- 5.9.** Lower cranial nerves and dysphagia
- 5.10.** Polyneuropathy
- 5.11.** Focal peripheral neuropathy
- 5.12.** Motor neuron disorders
- 5.13.** Electrical & lightning injury
- 5.14.** Vascular, demyelinating, inflammatory and degenerating disorders of central nervous system
 - 5.14.1. Cerebrovascular disease
 - 5.14.2. Cerebral & cerebellar haemorrhage
 - 5.14.3. Subarachnoid haemorrhage
 - 5.14.4. Cerebral veins & sinuses thrombosis
 - 5.14.5. Vascular disease of the spinal cord
 - 5.14.6. Disorders of cerebrospinal & brain fluid
 - 5.14.7. Hydrocephalus
 - 5.14.8. Brain oedema& disorders of intracranial pressure
 - 5.14.9. Vaculitis and collagen vascular disease
 - 5.14.10. Multiple sclerosis and other demyelinating disease
 - 5.14.11. Paraneoplastic disorders and neuro-immunology
 - 5.14.12. Tremor, ataxia and cerebellar disorders
 - 5.14.13. Movement disorders : (Huntington disease, Sydenham & other forms of chorea, Myoclonus, Gilles de la Tourette syndrome, Dystonia, Essential tremor, Parkinsonism, Progressive supranuclear palsy, Tardive dyskinesia & other neuroleptic induced syndrome)
- 5.15.** Vascular diseases of nervous system – Stroke – ischemic, haemorrhagic, aneurysm and SAH, AV malformation. Spinal cord vascular diseases, CNS vasculitis
- 5.16.** Neurofibromatosis
- 5.17.** Peripheral neuropathies
 - 5.17.1. Hereditary neuropathy
 - 5.17.2. Acquired neuropathy
- 5.18.** Infections of nervous system :Bacterial infections, Viral infections, Acquired immunodeficiency syndrome, Fungal & yeast infections, Neurosarcoidosis, Spirochete infections, Parasitic infections, Prion diseases, Whipple disease, Reye syndrome
- 5.19.** Spinal cord diseases
 - 5.19.1. Hereditary & acquired spastic paraplegia
 - 5.19.2. Hereditary & acquired motor neuron diseases
 - 5.19.3. Syringomyelia

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- 5.20.** Disorders of the neuromuscular junction
 - 5.20.1. Myasthenia gravis
 - 5.20.2. Lambert-Eaton syndrome
 - 5.20.3. Botulism & antibiotic- induced neuromuscular disorder
 - 5.20.4. Acute quadriplegic myopathy
- 5.21.** Myopathies
 - 5.21.1. Progressive muscular dystrophies
 - 5.21.2. Muscle cramps & stiffness
- 5.22.** Multiple sclerosis
- 5.23.** Autonomic disorders
 - 5.23.1. Neurogenic orthostatic hypotension & autonomic failure
 - 5.23.2. Acute autonomic neuropathy
 - 5.23.3. Familial dysautonomia
- 5.24.** Paroxysmal disorders
 - 5.24.1. Migraine and other headaches
 - 5.24.2. Epilepsy and disorders of consciousness
 - 5.24.3. Transient global amnesia
 - 5.24.4. Meniere syndrome
 - 5.24.5. Sleep disorders
- 5.25.** Brain Death
- 5.26.** Psychiatric disorders
 - 5.26.1. Anxiety neuroses, hysteria and personality disorders
 - 5.26.2. Depression and bipolar diseases
 - 5.26.3. Schizophrenias and paranoid states
 - 5.26.4. Myasthenia gravis
 - 5.26.5. Multiple Sclerosis
 - 5.26.6. Parkinson's Disease
- 6.** Oncology
 - 6.1.** Pharmacology of Chemotherapeutic Drugs
 - 6.1.1. Classification
 - 6.1.2. Plant alkaloids
 - 6.1.3. Alkylating agents
 - 6.1.4. Antimetabolites
 - 6.1.5. Anthracyclines, Antitumor antibiotics
 - 6.1.6. Topo isomerase inhibitors, proteasome inhibitors
 - 6.1.7. Corticosteroids
 - 6.2. Cancer of various Systems : Solid Tumors**
 - 6.2.1. Respiratory system
 - 6.2.2. GI Malignancies
 - 6.2.3. CNS Tumors
 - 6.2.4. Hepatobiliary and pancreatic cancers
 - 6.2.5. Cardiovascular malignancies
 - 6.3.** Manifestation of complications of cancer and cancer treatment in various systems and their management
 - 6.3.1. Infection and sepsis
 - 6.3.2. Para- Neoplastic syndrome

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- 6.3.3. Cardiovascular complications
- 6.4. Cancer Diagnostics**
 - 6.4.1. Radiological diagnostics
 - 6.4.2. Tumor markers, IHC (Immunohistochemistry), Flowcytometry
- 6.5. Recent Advances in cancer management**
 - 6.5.1. Essentials of Molecular Biology
 - 6.5.2. Molecular Biology of cancer
 - 6.5.3. Newer approaches in cancer; Immunotherapy, Biotherapy, Genetherapy
- 6.6. Palliative Care**
 - 6.6.1. Introduction and basic concept including definition
 - 6.6.2. Pain assessment and management, WHO ladder, balanced use of opioids
 - 6.6.3. Common symptom management
 - 6.6.4. Communication, Breaking Bad News
 - 6.6.5. Ethical issues in Palliative care
 - 6.6.6. Psychosocial issues
 - 6.6.7. End of life care
 - 6.6.8. Supportive care and quality of life
 - 6.6.9. Rehabilitation of cancer patient
- 7. Pulmonology**
 - 7.1. Pneumonia**
 - 7.1.1. Epidemiology
 - 7.1.2. Causative agents
 - 7.1.3. Signs and symptoms
 - 7.1.4. Investigations and severity scoring
 - 7.1.5. Management plan
 - 7.1.6. Complications
 - 7.1.7. Types of pneumonias
 - 7.1.7.1. Community Acquired Pneumonia
 - 7.1.7.2. Health Care Associated Pneumonia
 - 7.1.7.3. Aspiration/ Ventilator Associated Pneumonia
 - 7.1.7.4. Atypical pneumonia
 - 7.2. Tuberculosis**
 - 7.2.1. Etiopathology
 - 7.2.2. Pulmonary and Extra pulmonary TB
 - 7.2.3. Clinical presentation
 - 7.2.4. Investigations
 - 7.2.5. Management/Treatment regimens
 - 7.2.6. Resistance TB
 - 7.2.7. Antitubercular drugs/side effects/management
 - 7.2.8. National Tuberculosis Program in Nepal
 - 7.3. Obstructive Airway Disease**
 - 7.3.1. Chronic Obstructive Pulmonary Disease
 - 7.3.2. General principles, risk factors, signs and symptoms, investigations and management
 - 7.3.3. Evaluation and management of acute exacerbation of COPD
 - 7.3.4. Smoking Cessation
 - 7.3.5. Pulmonary Rehabilitation
 - 7.4. Bronchial Asthma**
 - 7.4.1. General principles, risk factors, signs and symptoms, investigations and management
 - 7.4.2. Evaluation and management of acute severe asthma

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- 7.4.3. Allergic Bronchopulmonary Aspergillosis
- 7.5. Bronchiectasis**
 - 7.5.1. General principles, etiology, risk factors, signs and symptoms, investigations and management
 - 7.5.2. Evaluation and management of Cystic Fibrosis
 - 7.5.3. Central Airway Obstruction
 - 7.5.3.1. Causes and management - malignant and benign
 - 7.5.4. Evaluation and management of Small airway disease
- 7.6. Interstitial Lung Diseases**
 - 7.6.1. General principles - classification, sign and symptoms, clinical and laboratory evaluation and management of interstitial pneumonias
 - 7.6.2. Evaluation, classification and management of idiopathic interstitial pneumonias
 - 7.6.3. Evaluation, classification and management of connective tissue disease associated ILD
 - 7.6.4. Evaluation, classification and management of rare ILDs including cystic ILD's
 - 7.6.5. Occupational lung diseases - Evaluation, classification and management
- 7.7. Malignant Diseases/ Lung Cancer**
 - 7.7.1. Lung Cancer - Types, signs and symptoms, investigations, staging, treatment modalities and Rehabilitation
 - 7.7.2. Evaluation and management of Solitary Pulmonary Nodule
 - 7.7.3. Other rare benign and malignant lung and airway tumors
 - 7.7.4. Evaluation and management of secondaries in lung
 - 7.7.5. Evaluation and management of mediastinal lesion – benign and malignant
- 7.8. Pleural diseases**
 - 7.8.1. Pleural Effusion/Empyema
 - 7.8.2. Pneumothorax
 - 7.8.3. Malignant pleural effusion
 - 7.8.4. Pleural tumors – benign and malignant
- 7.9. Pulmonary Vascular Disorders**
 - 7.9.1. Evaluation and management of venous thromboembolism
 - 7.9.2. Classification, evaluation and management of pulmonary hypertension
 - 7.9.3. Evaluation and management of pulmonary vasculitis
- 7.10. Evaluation and Management of common respiratory symptoms**
 - 7.10.1. Cough
 - 7.10.2. Breathlessness
 - 7.10.3. Hemoptysis
 - 7.10.4. Chest pain
 - 7.10.5. Stridor
- 7.11. Critical Care Medicine**
 - 7.11.1. Types of Respiratory Failure and its management
 - 7.11.2. Cardiopulmonary Resuscitation
 - 7.11.3. Endotracheal intubation
 - 7.11.4. Invasive mechanical ventilation and management, including titration of FiO₂, PEEP, application and adjustment of ventilator mode, weaning and extubation
 - 7.11.5. ABG interpretation and Management
 - 7.11.6. Noninvasive ventilation
- 7.12. Sleep Medicine**
 - 7.12.1. General principles - Normal Sleep physiology, stages, interpretation of polysomnography
 - 7.12.2. Obstructive sleep Apnea - risk factors, comorbidities, evaluation and management
 - 7.12.3. Obesity Hypoventilation Syndrome - evaluation and management

प्रदेश लोक सेवा आयोग

गण्डकी प्रदेश, पोखरा

स्वास्थ्य सेवा, मेडिसिन समूह, नवौं (९) तह कन्सल्टेण्ट जनरल फिजिसियन पदको खुला र आन्तरिक
प्रतियोगितात्मक लिखित परीक्षाको पाठ्यक्रम

- 7.12.4. Sleep related movement disorders, Cheyne- stokes breathing, management of morbid obesity, Multiple sleep latency test.
- 7.13. Basic Science, Radiology and Pathology in Respiratory Diseases**
 - 7.13.1. Pulmonary physiology including principles and interpretation of pulmonary function tests
 - 7.13.2. Ultrasonography for respiratory diseases
 - 7.13.3. Principles and interpretation of Chest radiograph and CT scan
- 7.14. Pulmonary involvement in other systemic diseases**
- 7.15. Intervention and diagnostic procedures in respiratory diseases**
 - 7.15.1. Bronchoscopy - indications, preparation and complications
 - 7.15.2. Medical Thoracoscopy - indications, preparation and complications
- 7.16. ARDS and its management**
- 7.17. Covid-19, signs, symptoms, Diagnosis and management**
- 7.18. Approach to the patients with fever of unknown origin**
- 7.19. Sarcoidosis**
- 8. Forensic Medicine**
 - 8.1. Medical jurisprudence**
 - 8.1.1. Universal principles of medical ethics and the Geneva Declaration, 1948
 - 8.1.2. Consent, types of consents, the doctrine of informed expressed consent
 - 8.1.3. Euthanasia and its ethics and legality
 - 8.1.4. Medical ethics in specific situations such as HIV/AIDS, terminal cancer patients; role of treating doctors in hunger strikes and management of patients in critical conditions
 - 8.1.5. Medical negligence and professional misconduct
 - 8.1.6. Medical evidences and their application in a court of law
 - 8.1.7. Witness and expert witness testimony in a court of law
 - 8.2. Forensic pathology**
 - 8.2.1. Thanatology
 - 8.2.1.1. Death; cause of death, mechanism of death and manner of death
 - 8.2.1.2. WHO classification of diseases and death; hospital and medico-legal certification of death
 - 8.3. Forensic Toxicology**
 - 8.3.1. Corrosive poisons
 - 8.3.2. Irritant poisons
 - 8.3.3. Neurotoxins
 - 8.3.4. Cardiac poisons
 - 8.3.5. Asphyxiants
 - 8.3.6. Domestic poisons
 - 8.3.7. Poisoning by therapeutic substances
 - 8.3.8. Food poisoning and poisonous foods
 - 8.3.9. Management of different poisonings
 - 8.4. Snake bite**
 - 8.5. High Altitude sickness Syndrome**
- 9. Principle of Geriatric medicine and palliative care.**