



MOHAMMED VI
FACULTY OF MEDICINE
UM6SS



MOHAMMED VI UNIVERSITY
OF SCIENCES AND HEALTH
UM6SS

MEDICAL RESIDENCY PROGRAM



RABAT



CASABLANCA



DAKHLA

DECEMBER 2026



I. ADMISSION TEST

1. ANATOMY

- 1- The axillary fossa: walls, contents and relationships
- 2- The brachial plexus: origin, termination and relationships
- 3- The scapulohumeral joint: descriptive anatomy, topographical anatomy, and functional anatomy.
- 4- The radial nerve: origin, course, termination and relationships.
- 5- The elbow joint: descriptive anatomy, topographical anatomy and functional anatomy.
- 6- The anatomy of the hand: vascularization and innervation.
- 7- The femoral triangle: walls, contents and relationships.
- 8- The popliteal fossa: walls, contents and relationships
- 9- The hip joint: descriptive anatomy, topographical anatomy, and functional anatomy
- 10- The sciatic nerve: origin, course, termination and relationships
- 11- The femoral artery: origin, course, collateral branches, terminal branches and relationships.
- 12- The knee joint: descriptive anatomy, topographical anatomy and functional anatomy.
- 13- The pulmonary pedicle: constituent elements: functional pedicle (airways and major pulmonary vessels) and a nourishing pedicle (bronchial vessels, nerves, and lymphatics).and relationships
- 14- Lung: external configuration and pulmonary segmentation
- 15- The diaphragm: external configuration and vascularization
- 16- The thoracic esophagus: external configuration and relationships
- 17- The heart: descriptive anatomy and vascularization
- 18- The vascularization of the stomach: arterial, venous and lymphatic
- 19- The duodeno-pancreas: descriptive anatomy and relationships
- 20- The hepatic pedicle: structure and relationships
- 21- The liver: descriptive anatomy and segmentation
- 22- The abdominal aorta: origin, course, collateral branches, relationships and termination
- 23- The rectum: vascularization (the mesorectum) and innervation
- 24- The renal compartment: structure, relationships and contents

- 25-** The bladder: external configuration, relationships and vascularization
- 26-** The uterus: description, means of fixation, and relationships
- 27-** The pathways of proprioceptive sensitivity and pathways of exteroceptive sensitivity: origin, course and termination.
- 28-** The pathways of voluntary and involuntary motor skills.
- 29-** Vascularization of the brain: the circle of Willis.
- 30-** The cerebral hemispheres: external configuration and cortical functional areas.
- 31-** The spinal cord: external configuration, relationships and means of fixation.
- 32-** Visual conduction pathways: origin, path, terminations.
- 33-** The facial nerve: origins, path and termination.
- 34-** The intracerebral ventricular system: composition and circulation of cerebrospinal fluid
- 35-** Cranial nerves: nomenclature and functions.
- 36-** The thyroid compartment: walls and contents.
- 37-** The carotid region: walls and contents.
- 38-** Internal carotid artery: origin, course, relationships, collateral branches and termination
- 39-** The macroscopic anatomy of the eyeball.

2. BIOLOGY

- 1- Humoral immunity: The B lymphocyte and antibody production
- 2- Cellular immunity: The T lymphocyte and cytokines
- 3- Major Histocompatibility Complex: characteristics and properties
- 4- Anti-infectious immunity: Mechanisms of action
- 5- The Phagocyte Mononuclear System (PMS): description and role in immune responses
- 6- Hematopoiesis: regulatory factors
- 7- Hemolysis: mechanisms and methods of investigation
- 8- Red blood cell group systems: diagnosis, transfusion and transplantation
- 9- Human hemoglobins: biochemical and genetic aspects
- 10- Hemostasis: factors, mechanisms and methods of investigation
- 11- Serum enzymes: cardiac and muscle enzymes
- 12- Biological exploration of inflammation: sedimentation rate and inflammatory proteins (also at the interface with immunology and medical biology)
- 13- Hydro-electrolyte balance: physiology, regulation, investigation and pathologies
- 14- Phosphocalcium metabolism: physiology, regulation, biological investigation and pathologies
- 15- Plasma lipoproteins: structure, metabolism, biological investigation and pathologies
- 16- Cholesterol: metabolism and pathological implications
- 17- The liver: physiology, biological investigation and pathologies
- 18- Biliary function: secretion, excretion
- 19- Gastric secretion: origin and regulation
- 20- Intestinal absorption: carbohydrates, lipids and proteins
- 21- The kidney: physiology, biological investigation and pathologies
- 22- Kidney: glomerular filtration and tubular functions
- 23- Renin-angiotensin-aldosterone system
- 24- Physiology of ventilation: respiratory mechanics, flow rates, volumes, respiratory capacities, regulation
- 25- Blood gas transport
- 26- Acid-base balance: physiology, regulation, investigation and pathologies
- 27- Adrenal medulla: physiology, investigation and pathologies

- 28-** The adrenal cortex: physiology, investigation and pathologies
- 29-** The endocrine ovary and testicle: physiology, biological investigation and pathologies
- 30-** Thyroid hormones: nature, origin, physiological actions and regulation
- 31-** Neurotransmission and neuromodulation: neurotransmitters and receptors
- 32-** Regulation of blood glucose: physiology and investigation.
- 33-** Hypothalamic-pituitary axis: physiology and exploration
- 34-** Acute coronary syndromes: biological investigation
- 35-** The physical foundations of blood circulation: nature of blood flow, Bernoulli's and Poiseuille's laws, viscosity and work of the heart, clinical applications.
- 36-** Cardiac output: factors and regulation.
- 37-** Regulation of arterial blood pressure (ABP): factors and regulation
- 38-** Physiology of nerve impulses: membrane potential, action potential, and nerve impulse conduction.
- 39-** Components of a reflex bow: Description and main components
- 40-** The autonomic nervous system: description and main functions
- 41-** Superficial sensitivity and deep sensitivity: description and main functions
- 42-** The Na⁺/K⁺ pump: mechanisms of action at the tissue level
- 43-** Ionizing radiation: biological effects and radioprotection
- 44-** Nucleic acids (DNA and RNA): structure, role and different abnormalities.
- 45-** Cytogenetic techniques and their indications

3. MEDICINE

- 1- Hyperthyroidism: diagnosis and initial management
- 2- Hypothyroidism: diagnosis and initial management
- 3- Diffuse goiters: diagnostic approach
- 4- Hypercorticism: diagnosis and initial management
- 5- Slow-onset adrenal insufficiency: diagnosis and initial management
- 6- Diabetes mellitus: diagnosis, initial management and degenerative complications
- 7- Hyperlipidemia: classification and initial management
- 8- Polyuria-polydipsia syndrome: diagnostic approach and initial management
- 9- Morbid obesity: diagnosis and management methods
- 10- Microcytic anemias: diagnostic approach.
- 11- Macrocytic anemias: diagnostic approach
- 12- Hemolytic anemias: diagnostic approach
- 13- Autoimmune hemolytic anemias: diagnosis and initial management
- 14- Purpura: diagnostic approach and initial management
- 15- Hodgkin lymphomas and non-Hodgkin lymphomas: Classification and diagnostic approach
- 16- Acute leukemias: diagnosis and initial management
- 17- Myeloproliferative syndromes: diagnosis and initial management
- 18- Lymphoproliferative syndromes: diagnosis and initial management
- 19- Multiple myeloma: pathophysiology, diagnosis and initial management
- 20- Bone marrow aplasia: pathophysiology, diagnosis and initial management
- 21- Hemophilia: positive diagnosis, initial management
- 22- Community-acquired bacterial pneumonia
- 23- Chronic obstructive pulmonary diseases: diagnosis and initial management
- 24- Latent tuberculosis infection
- 25- Common pulmonary tuberculosis: diagnostic circumstances and management
- 26- Serofibrinous pleurisy: diagnosis and initial management
- 27- Lung abscesses: diagnosis and initial management
- 28- Bronchiectasis: diagnosis and initial management
- 29- Viral and related pneumonias: diagnosis and initial management

- 30-** Asthma: pathophysiology, etiology, diagnosis, progression, prognosis
- 31-** Lung cancer: epidemiology, diagnosis, progression, treatment
- 32-** Sleep apnea syndrome: diagnosis and initial management
- 33-** Bulbar ulcer and gastric ulcer: pathophysiology, diagnosis, treatment
- 34-** Malabsorption syndrome: pathophysiology and diagnostic approach
- 35-** Crohn's disease: diagnosis, initial management and complications.
- 36-** Ulcerative colitis: diagnosis, initial management and complications
- 37-** Viral hepatitis: causative agents, clinical forms and initial management
- 38-** Liver cirrhosis: diagnosis, initial management and complications
- 39-** Gastroesophageal reflux: diagnosis, initial management and complications
- 40-** Portal hypertension: pathophysiology, complications, principles of treatment.
- 41-** Cholestatic jaundice: diagnostic approach
- 42-** Skin cancers: diagnostic approach and initial management
- 43-** Genital discharge and ulcerations: diagnostic approach, initial management and complications.
- 44-** Viral dermatoses (herpes, shingles): diagnosis and initial management
- 45-** Drug eruptions: diagnostic approach and initial management
- 46-** Systemic lupus erythematosus: diagnostic criteria, clinical forms and management
- 47-** Erythema nodosum: diagnostic approach and initial management
- 48-** Sarcoidosis: clinical forms and initial management
- 49-** Systemic vasculitis: diagnostic criteria and initial management
- 50-** Prolonged unexplained fevers: diagnostic approach
- 51-** Raynaud's phenomenon: diagnostic approach and initial management
- 52-** Spondyloarthropathies: diagnostic approach and initial management
- 53-** Rheumatoid arthritis: diagnosis and initial management
- 54-** Sciatic neuralgia: diagnostic approach and initial management
- 55-** Cervicobrachial neuralgia: diagnostic approach and initial management
- 56-** Osteoporosis: diagnostic approach and management
- 57-** Osteoarticular tuberculosis: clinical forms and initial management
- 58-** Low back pain: diagnostic approach, clinical forms and initial management
- 59-** Venous thrombosis: clinical forms and initial management.
- 60-** Post-streptococcal syndromes: clinical forms and initial management
- 61-** High blood pressure: clinical forms, initial management and complications

- 62-** Mitral valve disease: diagnosis and management
- 63-** Aortic valve disease: diagnosis and management
- 64-** Infective endocarditis: diagnosis, initial management and complications
- 65-** Heart failure: diagnosis and initial management
- 66-** Pericarditis: diagnosis and treatment
- 67-** Mediterranean spotted fever: diagnosis, initial management and complications
- 68-** Leptospirosis: clinical forms, initial management and complications
- 69-** HIV infection: pathophysiology, diagnosis, progression
- 70-** Meningitis with clear cerebrospinal fluid: diagnostic approach and initial management
- 71-** Nephrotic syndrome: clinical forms and complications
- 72-** Nephritic syndrome: pathophysiology, diagnosis and etiologies
- 73-** Urinary tract infections: Classification, initial management and complications
- 74-** Acute obstructive renal failure: diagnosis and initial management
- 75-** Chronic kidney disease: pathophysiology and initial management
- 76-** Preeclampsia: pathophysiology, diagnosis and initial management
- 77-** Tremors in adults: diagnostic approach and initial management
- 78-** Vertigo in adults: diagnostic approach and initial management
- 79-** Dementia syndromes: diagnostic approach and initial management
- 80-** Demyelinating diseases of the nervous system: clinical forms and initial management
- 81-** Slow spinal cord compressions: topographic forms and management modalities
- 82-** Ischemic strokes: clinical forms and initial management
- 83-** Paraplegia: diagnosis, positive and etiological
- 84-** Hemiplegia: diagnostic approach and initial management
- 85-** Polyneuritis and multineuritis: classification and initial management
- 86-** Depressive disorders: diagnostic approach and initial management
- 87-** Anxiety disorders: diagnostic approach and initial management
- 88-** Antibiotics: classification, prescribing guidelines, side effects. Contraindications
- 89-** Non-steroidal anti-inflammatory drugs: mechanism of action, side effects, contraindications
- 90-** Long- and short-term corticosteroid therapy: indications, practical prescription methods, complications and contraindications
- 91-** Anticoagulants: prescription guidelines and therapeutic monitoring
- 92-** Diuretics: classification and prescription guidelines

- 93-** Anti-tuberculosis drugs: classifications, prescription methods
- 94-** Acute respiratory infections in infants and children: diagnosis and initial management
- 95-** Infant vomiting: diagnosis and initial management
- 96-** Acute diarrhea in infants: diagnosis and initial management
- 97-** Abdominal pain in infants and children: diagnosis and initial management
- 98-** Protein-energy malnutrition: pathophysiology, diagnosis and initial management
- 99-** Rickets and osteomalacia: pathophysiology, diagnosis and treatment
- 100-** Childhood ataxia: pathophysiology, diagnosis and initial management
- 101-** Congenital heart disease: pathophysiology, classification, principles of treatment
- 102-** Eruptive fevers in children: classification, initial management
- 103-** Tonsillitis: diagnosis and treatment
- 104-** Stunting in children: diagnosis, etiologies, treatment
- 105-** Child abuse: diagnosis, medico-legal aspects, management, prevention
- 106-** Childhood vaccinations: national program, indications and contraindications.
- 107-** Hypereosinophilia: diagnostic approach and initial management



4. SURGERY

- 1- Pelvic fractures: classification, damage control, orthopedics
- 2- Acetabular fractures: pathological anatomy, classification, complications, and therapeutic principles
- 3- Trochanteric fractures: Diagnosis, classification, treatment
- 4- Femoral fractures: pathological anatomy and classification, complications
- 5- Tibial plateau fractures: pathological anatomy, classification, complications
- 6- Meniscal lesions of the knee: pathological anatomy, diagnosis
- 7- Fractures of the humerus: diagnosis and treatment
- 8- Carpal tunnel syndrome: diagnosis and treatment
- 9- Colles' fracture: diagnosis and treatment, complications
- 10- Scaphoid fracture: diagnosis and treatment, complications
- 11- Malignant bone tumors: classification, diagnosis and therapeutic principles
- 12- Hernias: inguinal, femoral, and umbilical: diagnosis, progression, and treatment principles
- 13- Hydatid cyst of the liver: epidemiology, diagnosis, complications, treatment and prevention
- 14- Surgical complications of hiatal hernias: diagnosis and therapeutic principles
- 15- Surgical treatment of IBD (ulcerative colitis and Crohn's disease): principles, indications and main methods
- 16- Congenital megacolon: pathophysiology, diagnosis and treatment
- 17- Hypertrophic pyloric stenosis: diagnosis and treatment
- 18- Diagnosis of an abdominal tumor in children: clinical manifestations and investigations
- 19- Endocrine tumors of the pancreas: discovery, diagnostic approach, main clinical forms
- 20- Postoperative Incisional Hernias: Diagnosis, Classification, Treatment
- 21- Colon Cancer: Diagnosis, Classification, Treatment
- 22- Rectal Cancer: Diagnosis, Classification, Treatment
- 23- Esophageal Cancer: Diagnosis, Classification, Treatment
- 24- Stomach Cancer: Diagnosis, Classification, Treatment
- 25- Pancreatic Cancer: Diagnosis, Classification, Treatment
- 26- Prostate adenoma: Diagnosis, Complications, Treatment
- 27- Prostate Cancer: Diagnosis, Classification, Treatment

- 28- Kidney Cancer: Diagnosis, Classification, Treatment**
- 29- Enlarged scrotum: diagnosis and treatment**
- 30- Urethral strictures: Diagnosis, Classification, Treatment**
- 31- Malformation uropathies: circumstances of discovery and diagnosis**
- 32- Bladder Tumors: Diagnosis, Classification, Treatment**
- 33- Testicular Cancer: Diagnosis and Treatment**
- 34- Complications of urinary lithiasis: Diagnosis and Treatment**
- 35- Breast Cancer: Epidemiology, Diagnosis, Classification, Treatment**
- 36- Cervical Cancer: Diagnosis, Classification, Treatment**
- 37- Endometrial Cancer: Epidemiology, Diagnosis, Classification, Treatment**
- 38- Ovarian Tumors: Epidemiology, Diagnosis, Classification, Treatment**
- 39- Uterine Fibroids: Epidemiology, Diagnosis, Classification, Treatment**
- 40- Complications of abortions: diagnosis and management**
- 41- Endometriosis: definition, clinical forms and management**
- 42- Trophoblastic disease: definition, clinical forms and management**
- 43- Chronic otitis media: Diagnosis and Treatment**
- 44- Acute otitis media: Diagnosis and Treatment**
- 45- Tongue Cancer: Diagnosis and Treatment**
- 46- Laryngeal cancer: Epidemiology, Diagnosis, Treatment**
- 47- Nasopharyngeal cancer: Epidemiology, Diagnosis, Treatment**
- 48- Primary angle-closure glaucoma: Diagnosis and Treatment**
- 49- Senile cataracts: diagnosis, prognosis and treatment**
- 50- Thyroid cancer: Epidemiology, Diagnosis, Classification, Treatment**
- 51- Cervical disc herniation: diagnosis and treatment**
- 52- Childhood hydrocephalus: diagnosis and treatment**
- 53- Intracranial tumors: diagnosis and treatment principles**
- 54- Tumors of the posterior cranial fossa in children: diagnosis, pathology and treatment**
- 55- Lumbar disc herniation: diagnosis, therapeutic indications and treatment**
- 56- Varicose veins of the lower limbs: Epidemiology, Diagnosis, Treatment**
- 57- Peripheral arterial disease of the lower limbs: Anatomical and clinical forms and management modalities**

II. ADMISSION TEST

1. MEDICINE

Diagnosis and treatment or course of action

- 1- Management of hemoptysis
- 2- Management of cardiac arrest
- 3- Management of a stroke
- 4- Management of a tetany crisis
- 5- Management of a blood transfusion accident
- 6- Management of acute chest pain
- 7- Management of altered consciousness in diabetics
- 8- Management of cholestatic jaundice
- 9- Management of a dysenteric syndrome
- 10- Management of epigastric pain
- 11- Management of proctalgia (hemorrhoid, abscess, fissure)
- 12- Management in the presence of ascites
- 13- Management of fulminant hepatitis
- 14- Management in the face of dysphagia
- 15- Management in the face of mental confusion
- 16- Management of purulent meningitis in adults
- 17- CAT in the case of non-traumatic flaccid paraplegia
- 18- Management (emergency medical service) for a bite, scratch, or scorpion sting
- 19- Management of flu-like symptoms
- 20- Management of red eye
- 21- Management of neonatal jaundice
- 22- Management of laryngeal dyspnea in infants
- 23- Management of acute fever in infants
- 24- Management of an infant seizure
- 25- Management of acute infant dehydration

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- 26-** Management of gastrointestinal bleeding in infants and children
 - 27-** Management of a drowning man
 - 28-** Management of acute urticaria
 - 29-** Management of a sharply red leg
 - 30-** Management of renal colic
 - 31-** Management of hypercalcemia
 - 32-** CAT in the case of febrile neutropenia
 - 33-** Management of acute monoarthritis
 - 34-** Management of a joint gout attack
 - 35-** Management of a malaria access point
 - 36-** Management of complications following cancer chemotherapy
 - 37-** Management of mediastinal syndrome
 - 38-** Management of recent polyarthritis
 - 39-** Management of a non-traumatic coma
 - 40-** Management of an epileptic seizure
 - 41-** Management of a brief loss of consciousness
 - 42-** Eclampsia: Diagnosis and treatment
 - 43-** Severe Acute Asthma: Diagnosis and Treatment
 - 44-** Septic shock: Diagnosis and treatment
 - 45-** Anaphylactic shock: Diagnosis and treatment
 - 46-** The disorders of Fluid and electrolyte balance: Diagnosis and treatment
 - 47-** Hypovolemic shock: Diagnosis and treatment
 - 48-** Cardiogenic shock: Diagnosis and treatment
 - 49-** Carbon monoxide poisoning: Diagnosis and treatment
 - 50-** Barbiturate poisoning: diagnosis and treatment
 - 51-** Tetanus: Diagnosis and Treatment
 - 52-** Severe Hypoglycemia: Diagnosis and Treatment
 - 53-** Diabetic ketoacidosis: Diagnosis and treatment
 - 54-** Acute adrenal insufficiency: Diagnosis and treatment
 - 55-** Massive pulmonary embolism: Diagnosis and treatment

- 56- Acute pulmonary edema: Diagnosis and treatment
- 57- Spontaneous pneumothorax: Diagnosis and treatment
- 58- Purulent pleurisy: diagnosis and treatment
- 59- Hepatic colic: Diagnosis and treatment
- 60- Acute coronary syndromes: Classification and management
- 61- Cardiac tamponade: Diagnosis and treatment
- 62- Acute renal failure: Diagnosis and treatment
- 63- Suicidal behavior: Diagnosis and treatment
- 64- Acute bronchiolitis in infants: Diagnosis and treatment
- 65- Respiratory distress in newborns: Diagnosis and treatment
- 66- Hemorrhagic syndrome of the newborn: Diagnosis and treatment
- 67- Purulent meningitis in infants: diagnosis and initial management



2. SURGERY

Diagnosis and treatment or Management

- 1- Management of a strangulated inguinal hernia
- 2- Management of an abdominal contusion
- 3- Management of a penetrating abdominal wound
- 4- Management of a penetrating chest wound
- 5- Management of acute intussusception in infants
- 6- Management of appendicitis
- 7- Management of upper gastrointestinal bleeding
- 8- Management of lower gastrointestinal bleeding
- 9- Management of postpartum hemorrhage
- 10- Management of a hand wound
- 11- Management of acute lower limb ischemia
- 12- Management of acute urinary retention
- 13- Management of necrotizing fasciitis
- 14- Management of an ankle sprain
- 15- Management an open leg fracture
- 16- Management of Volkmann's syndrome
- 17- Management of epistaxis
- 18- Skin burns: Classification and management
- 19- Acute intestinal obstructions: Diagnosis and treatment
- 20- Sigmoid volvulus: Diagnosis and treatment
- 21- Caustic esophageal and gastric burns: diagnosis and treatment
- 22- Complications of gastroduodenal ulcers: Diagnosis and treatment
- 23- Cholecystitis and cholangitis: Diagnosis and treatment:
- 24- Liver abscesses: Diagnosis and treatment
- 25- Acute pancreatitis: Diagnosis and treatment
- 26- Peritonitis and pelvic peritonitis: Diagnosis and treatment
- 27- Ectopic Pregnancy: Diagnosis and Treatment

- 28- Uterine Rupture: Diagnosis and Treatment
- 29- Retroplacental hematoma: Diagnosis and treatment
- 30- Placenta previa: Diagnosis and treatment
- 31- Testicular torsion and its appendages: Diagnosis and treatment
- 32- Traumatic rupture of the urethra: Diagnosis and treatment
- 33- Acute angle-closure glaucoma: Diagnosis and treatment
- 34- Head injuries: emergency department assessment of injury severity and initial management
- 35- Spinal injuries: emergency department assessment of injury severity and initial management
- 36- Shoulder dislocation: diagnosis and initial management
- 37- Hip dislocation: diagnosis and initial management
- 38- Aortic Dissection: Diagnosis and Treatment
- 39- Skin burns: Classification and management
- 40- The polytrauma patient: procedures to follow at the accident scene
- 41- Infrarenal abdominal aortic aneurysm: Diagnosis and treatment
- 42- Subarachnoid hemorrhage: diagnosis and initial management
- 43- Extradural hematoma: diagnosis and treatment
- 44- Recent ligament injuries of the knee: Diagnosis and treatment
- 45- Acute Osteomyelitis: Diagnosis and Treatment
- 46- Fractures of both forearm bones: diagnosis and treatment
- 47- Supracondylar fracture in children: Diagnosis and treatment
- 48- Bimalleolar fractures: Diagnosis and treatment
- 49- Fingertip infection (panaritium) and phlegmon of the hand: Diagnosis and treatment
- 50- Radiocarpal dislocations: Diagnosis and treatment
- 51- Intracranial hypertension: Diagnosis and treatment
- 52- Brain abscesses: Diagnosis and treatment