

# PATHOLOGY

*Pathology is part of our curriculum that includes a module within the Principles of Biomedical Sciences course and integrated content in other courses over the program*

## **Year One Term One:**

### **Principles of Biomedical Sciences: Pathology**

Overview of Pathology	Atherosclerosis and Amyloidosis
Cellular Injury/Death/Adaptation	Oxidative Stress
Laboratory Investigations/Interpretation	Neoplasia I-III, Cancer Epidemiology
Inflammation I & II (Tissue Repair)	Cancer risk reduction
Hemorrhage, Thrombosis, Embolism, Infarction	
Applied Pathology: Clinical Cases – Contribution of pathology and imaging to the diagnostic process	

**\*\*Shadowing opportunities with clinical pathologists may be available upon request**

## **Year One Term Two -Year Two: Foundations of Clinical Medicine I-III**

Pathology related content is included in the following locations within the three linked Foundations courses:

**Haematology:** CBC and peripheral blood smear, anemias, hemoglobinopathies, malignant haematology (lymphoma, multiple myeloma, leukemias, myeloproliferative disorders)

**Respiratory:** lung pathology, pediatric upper airway problems (croup, tracheitis, epiglottitis), asthma, bronchiectasis/cystic fibrosis, COPD, pleural disease, interstitial lung disease, pulmonary hypertension, mediastinal masses/lung cancer.

**Cardiovascular:** Pathology of ischemia, Pathology of heart failure, other cardiac disease

**Gastroenterology:** Peptic ulcer disease, Esophageal disease/disorders, Hepatitis, Cirrhosis, Inflammatory bowel diseases, Other intra-abdominal diseases/disorders in adults and children.

**Kidney & Urinary Tract:** Acute kidney injury pathology, chronic kidney disease, prostate disease, GU pathology-renal masses and bladder cancer

**Musculoskeletal:** crystalline arthritis (monoarthritis), polyarthritis (inflammatory arthropathies, osteoarthritis), connective tissue disorders, vasculitis, approach to bone lesions/MSK masses, osteoporosis.

**Neurosciences:** Neuroinfections, dementia, movement disorders, stroke, multiple sclerosis, neuro-oncology, ophthalmologic disorders.

**Endocrine:** Histology and Pathology in Endocrine disorders

**Reproductive Medicine:** Histology of the Female Reproductive Tract, Diseases of the cervix, Gynecological malignancies, Gestational trophoblastic disease, Breast disease

**Dermatology:** Pathology: Skin Basics; Dermatopathology of various skin disorders and pre-malignant/malignant lesions are included within disorder specific lectures.

## **Year Three and Four:**

**Selected Topics in Medicine:** Pathology content is integrated into disorder/presentation specific sessions

**Core Rotations in Medicine:** Opportunities for clinic-pathologic correlation are frequent within clinical practice during rotations.

**Clinical Electives Course:** An elective in Pathology is an option for students in Year Four