



UND Department of Radiology
Medical Student Elective Rotation Syllabus
June 2022-June 2023

Week 1

Day 1:

- Syllabus
- radiologyassistant.nl – Assigned Reading
- Blackboard Radiology Q-Bank – Appropriateness Criteria Questions
- **ACR Appropriateness Criteria and Ordering Studies Lecture** – will be on reading Test
- **Radiology Lines and Tubes Powerpoint**

- Reading
 - Chest
 - Chest X-Ray
 - Basic Interpretation
 - Heart Failure
 - Lung Disease
 - HRCT
 - Basic Interpretation
 - Common Diseases
 - COVID-19
 - COVID-19 Imaging Findings
 - 32 cases of suspected COVID-19

Day 2 Reading:

- Chest
 - Esophagus I: anatomy, rings, inflammation
 - Esophagus II: Strictures, Acute Syndromes, Neoplasms, and Vascular Impressions
 - Mediastinum
 - Masses Differential Diagnosis
 - Pulmonary nodule
 - Fleischner 2017 Guideline
 - Solitary Pulmonary Nodule
 - Benign versus Malignant
- Head/Neck
 - Swallowing Disorders Update
- TIRADS
 - TIRADS – Thyroid Imaging Reporting and Data System

Day 3 Reading:

- Cardiovascular
 - Anatomy
 - Cardiac Anatomy
 - Coronary Anatomy and anomalies
 - Cardiomyopathy

- Ischemic and non-ischemic cardiomyopathy
 - Devices
 - Cardiovascular Devices
 - Thoracic Aorta
 - Acute Aortic Syndrome
 - Vascular Anomalies of the Aorta, Pulmonary and Systemic Vessels
- Breast
 - BI-RADS
 - BI-RADS for mammography and ultrasound 2013

Day 4 Reading:

- Pediatrics
 - Acute Abdomen
 - Acute Abdomen in Neonates
 - Acute Scrotum
 - Acute Scrotum in Children
 - Child Abuse
 - Diagnostic Imaging in Child Abuse
 - Hip
 - Developmental Dysplasia of the Hip-Ultrasound
 - Hip Pathology in Children
 - Lines and Tubes
 - Lines and Tubes in Neonates
 - Neonatal Brain US
 - Neonatal Brain US

Week 2:

Day 1 Reading:

- Abdomen
 - Acute Abdomen
 - Appendicitis and Mimics
 - CT in Trauma
 - Practical Approach to Acute Abdomen
 - Aorta
 - Aneurysm Rupture
 - Biliary System
 - Gallbladder obstruction
 - Biliary Duct Pathology
 - Gallbladder wall thickening

Day 2 Reading:

- Abdomen
 - Bowel
 - Bowel Ischemia – video series
 - CT-pattern of Bowel wall thickening
 - Crohn's disease – role of MRI

- Sharp foreign bodies in GI tract
- Kidney
 - Cystic Masses
 - Solid Masses
- Ovarium
 - Ovarian Cystic Lesions
 - Roadmap to evaluate ovarian cysts

Day 3 Reading:

- Abdomen
 - Liver
 - Characterization of Liver Masses
 - Common Liver Tumors
 - Segmental Anatomy
 - LI-RADS
 - Pancreas
 - Acute Pancreatitis
 - Pancreatic Cancer
 - Pancreatic Cystic Lesions

Day 4 Reading:

- Neuroradiology
 - Brain
 - Anatomy
 - Brain Ischemia
 - Imaging in Acute Stroke
 - Vascular Territories
 - Brain Tumor
 - Systematic Approach
 - Hemorrhage
 - Traumatic Intracranial Hemorrhage
 - Non-traumatic Intracranial Hemorrhage
 - Epilepsy
 - Role of MRI

Week 3:

Day 1 Reading:

- Neuroradiology
 - Multiple Sclerosis
 - Multiple Sclerosis – Diagnosis and differential diagnosis
 - Multiple Sclerosis – Updated Version
 - Sella Turcica
 - Sella Turcica and Parasellar Region
 - Spine
 - Cervical Injury
 - Lumbar Disc Herniation

- Lumbar Disc Nomenclature 2.0
- Myelopathy
- Thoracolumbar Injury

Day 2 Reading:

- Musculoskeletal
 - Ankle
 - Fracture Mechanism and Radiography
 - Algorithm for Ankle Fractures
 - Weber and Lauge-Hansen Classification
 - Special Cases of Ankle Fractures
 - Elbow
 - Fractures in Children
 - Hip
 - Arthroplasty
 - Wrist
 - Carpal Instability
 - Fractures

Day 3 Reading:

- Musculoskeletal
 - Knee
 - Meniscal Pathology
 - Non-Meniscal Pathology
 - Shoulder
 - Shoulder Anatomy – MRI
 - Shoulder Instability – MRI
 - Spine
 - TLICS Classification of Fractures
 - Stress Fractures
 - Stress Fractures

Day 4:

- Lock it up

Week 4:

Day 1:

- Lock it up

Day 2:

- Lock it up

Day 3:

- Lock it up

Day 4:

- Lock it up



Day 5: Game Day

- **Test**
 - **25 Blackboard Q-Bank Questions worth 2 point each total of 50 points**
 - **25 Reading Questions worth 2 point each total of 50 points**

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