



## **NIHS RESIDENCY TRAINING PROGRAM**

### **Diagnostic Radiology**

### **Final Written Examination**

#### **Examination Format:**

National Institute for Health Specialties NIHS (Emirate Board) final specialty written examination shall consist of two papers each with 100-125 Single Best Answer MCQs. Up to 10 % unscored items can be added for pretesting purposes.

#### **Passing Score:**

The pass mark in the Final Written Examination will be determined according to the scientific standards and based on reliable practices in assessment.





### Suggested References:

- Janette Collins and Eric J. Stern, 2014. Chest Radiology: The Essentials. 3rd Edition.
- Theresa C. McCloud, 2010. Thoracic Radiology: The Requisites, 2nd Edition.
- W. Richard Webb, 2010. Thoracic Imaging: Pulmonary and Cardiovascular Radiology.
- W. Richard Webb and Nestor L. Muller, 2014. High-Resolution CT of the Lung.
- Jill E. Jacobs, 2010. Cardiac CT, An Issue of Radiologic Clinics of North America.
- Jan Bogaert and Steven Dymarkowski, 2012. Clinical Cardiac MRI, 2nd Edition.
- Elsevier, 2016. Neuroradiology: The Requisites.
- Thieme, 2008. Practical Differential Diagnosis for CT and MRI.
- Elsevier, 2015. Diagnostic Imaging: Brain.
- W. Richard Webb and William E. Brant, 2014. Fundamentals of Body CT, 4th Edition. Page | 2 Saudi Board Final Written Examination; Diagnostic Radiology-BP (Final) Apr 2020 v.1
- Joseph K.T. Lee, Stuart S. Sagel, Robert J. Stanley and Jay P. Heiken, 2005. Computed Body Tomography with MRI Correlation (2 Volume Set) 4th Edition.
- John R. Haaga, MD FACR FSIR FSCBT FRS and Daniel Boll MD FSCBT, 2016. CT and MRI of the Whole Body, 2-Volume Set, 6th Edition.
- William E. Brant , Eduard E. de Lange, 2012. Essentials of Body MRI 1st Edition.
- Evan Siegelman, 2004. Body MRI, 1st Edition.
- Richard C. Semelka and Michele A. Brown, 2016. Abdominal-Pelvic MRI, 4th Edition.
- James C. Reed, 2018. Chest Radiology: Patterns and Differential Diagnoses, 7th Edition.
- Rohini Nadgir MD and David M. Yousem, 2016. Neuroradiology: The Requisites, (Requisites in Radiology), 4th Edition.
- Anne G. Osborn Gary Hedlund Karen L. Salzman, 2017. Osborn's Brain, 2nd Edition.
- Nick Watson, 2013. Chapman & Nakielný's Guide to Radiological Procedures:, 6th Edition.
- Jeffrey D. Houston and Michael Davis, 2001. Fundamentals of Fluoroscopy, (Fundamentals of Radiology), 1st Edition.
- Daniel Johnson, 2013. Mayo Clinic Gastrointestinal Imaging Review (Mayo Clinic Scientific Press), 2nd Edition.
- Ronald J. Zagoria and Christopher M Brady, 2015. Genitourinary Imaging: The Requisites, (Requisites in Radiology), 3rd Edition.
- N. Reed Dunnick and Jeffrey H. Newhouse, 2017. Genitourinary Radiology, 6th Edition.
- Michele Walters and Richard L. Robertson, 2016. Pediatric Radiology: The Requisites, (Requisites in Radiology), 4th Edition.
- Harvey A. Ziessman and Janis P. O'Malley, 2013. Nuclear Medicine: The Requisites, (Requisites in Radiology), 4th Edition.
- Barbara S. Hertzberg and William D. Middleton, 2015. Ultrasound: The Requisites, (Requisites in Radiology) 3rd Edition.
- John A. Kaufman and Michael J. Lee, 2013. Vascular and Interventional Radiology: The Requisites, (Requisites in Radiology) Sep 2, 2013, 2nd Edition.
- Professionalism and Ethics, Handbook for Residents, Practical guide, Prof. James Ware, Dr. Abdulaziz Fahad Alkaabba, Dr. Ghaiath MA Hussein, Prof. Omar Hasan Kasule, SCFHS, Latest Edition.





- Essentials of Patient Safety, SCHS, Latest Edition. Page | 3 Saudi Board Final Written Examination; Diagnostic Radiology-BP(Final) Apr2020 v.1
- Krishna Kandarpa , Lindsay Machan and Janette Durham, 2016. Handbook of Interventional Radiologic Procedures, 5th Edition.
- Clyde A. Helms, Mark W. Anderson, Nancy M. Major, and Phoebe Kaplan, 2001. Musculoskeletal MRI, 2nd Edition.
- Donald Resnick and Mark Kransdorf, 2004. Bone and Joint Imaging, 3rd Edition.
- Clyde A. Helms, 2013. Fundamentals of Skeletal Radiology, 4th Edition.
- Brian Coley, 2013. Caffey's Pediatric Diagnostic Imaging, 2-Volume Set, 12th Edition.
- James Barkovich, Charles Raybaud, 2012. Pediatric Neuroimaging (Pediatric Neuroimaging (Barkovich)) 5th Edition.
- Peter M. Som, and Hugh D. Curtin, 2011. Head and Neck Imaging - 2 Volume Set: Expert Consult- Online and Print, 5th Edition
- James Barkovich, 2015. Diagnostic Imaging: Pediatric Neuroradiology, 2nd Edition
- Beth M. Kline-Fath, Dorothy I. Bulas, and Ray Bahado-Singh, 2014. Fundamental and Advanced Fetal Imaging: Ultrasound and MRI, 1st Edition.
- Lane F. Donnelly, 2016. Fundamentals of Pediatric Imaging, (Fundamentals of Radiology) 2nd Edition.
- Lucaya, Javier, Strife, Janet L, 2002. Pediatric Chest Imaging: Chest Imaging in Infants and Children (Medical Radiology / Diagnostic Imaging) 2nd Edition.
- Marilyn J. Siegel, 2011. Pediatric Sonography, 4th Edition.
- Marilyn J. Siegel, 2010. Pediatric Body CT, 2nd Edition.
- Medina, L Santiago, Applegate, Kimberly E., Blackmore, Craig, 2010. Evidence-Based Imaging in Pediatrics: Improving the Quality of Imaging in Patient Care.

**Note:**

This list is intended for use as a study aid only. NIHS does not intend the list to imply endorsement of these specific references, nor are the exam questions necessarily taken solely from these sources.





### Blueprint Outlines:

No.	Sections	Percentage
1	Musculoskeletal	9%
2	Neuroradiology	10%
3	Head and Neck	6%
4	Chest	11%
5	Cardiac	5%
6	Gastrointestinal	15%
7	Genitourinary	8%
8	Vascular & Interventional	8%
9	Pediatrics	10%
10	Nuclear Medicine	10%
11	Breast Imaging	8%
<b>Total</b>		<b>100%</b>

### Notes:

- Blueprint distributions of the examination may differ up to +/-5% in each category.
- Percentages and content are subject to change at any time. See the website for the most up-to-date information.
- Research, Ethics, Professionalism, and Patient Safety are incorporated within various domains.





## Example Questions

### EXAMPLE OF K2 QUESTIONS

#### Question 1

A 23-year-old girl came to the Emergency Room with complaints of abdominal pain, abnormal vaginal bleeding and abdominal distension. On ultrasound imaging, she was found to have an echogenic mass with dirty acoustic shadowing in a predominantly cystic lesion. A CT abdomen revealed round mass of fat floating in interface between two water-density components.

What is the most likely diagnosis?

- A. Dysgerminoma
- B. Ovarian dermoid
- C. Serous cystadenoma
- D. Mucinous cystadenoma

### EXAMPLE OF K1 QUESTIONS

#### Question 2

What is the most common adult primary malignant bone tumor?

- A. Metastasis
- B. Lymphoma
- C. Chondrosarcoma
- D. Multiple Myeloma

