

SAUDI BOARD RESIDENCY TRAINING PROGRAM

DIAGNOSTIC RADIOLOGY

Promotion Examination

Written Examination Format:

- A written examination consists of 25 questions, the exam for first, second-, and third-year residents as SAQ (short essay questions). The duration of the exam will be 3 hours for all levels.
- The examination shall contain type K2 questions (interpretation, analysis, reasoning, and decision-making) and type K1 questions (recall and comprehension).
- The examination shall include basic concepts and clinical topics relevant to the specialty.
- Anatomy questions; include the normal anatomy, mark-lines, and normal variants. Materials and Technical questions; including material properties, usage, and selection of instruments and equipment used as well as the technical errors & artefacts. Health maintenance questions; include health promotion, disease prevention, risk factors assessment, and prognosis. Diagnosis and investigation questions; include the possible diagnosis and diagnostic methods. Management questions; including clinical management, either therapeutic or non-therapeutic.





Passing Score:

The trainee's performance is assessed in each of the evaluation formulas according to the following scoring system:

Score	Less than 50%	50% – 59.4%	60% - 69.4%	More than 70%
Description	Clear Fail	Borderline Fail	Borderline Pass	Clear Pass

- 1. To upgrade the trainee from a training level to the next level, she/he must obtain at least a Borderline Pass in each evaluation form.
- 2. The program director may recommend to the local supervision committee to request the promotion of the trainee who did not meet the previous promotion requirement according to the following:
 - A. In case the trainee gets a **Borderline Fail** result in one of the evaluation forms, the remaining evaluation forms must be passed with **Clear Pass** in at least one of them.
 - B. In case the trainee gets a **Borderline Fail** result in two of the evaluation forms to a maximum, provided they do not fall under the same theme (Knowledge, Attitude, Skills). The remaining evaluation forms must be passed with **Clear Pass** in at least two of them.
 - C. The promotion must be approved in this case by the scientific council for the specialization.





Blueprint Outlines:

No.	R1 Sections	Percentage
1	Neuroradiology (Brain & Spine)	11%
2	Head and neck Imaging	5 %
3	Musculoskeletal Imaging	12%
4	Chest Imaging	12%
5	Ultrasound	8%
6	Gastrointestinal Imaging	11%
7	Genitourinary Imaging	8%
8	Breast Imaging	5%
9	Anatomy	20%
10	Techniques and applied Physics	8%
	Total	100%

No.	R2 Sections	Percentage
1	Neuroradiology (Brain & Spine)	11%
2	Head and neck Imaging	5 %
3	Musculoskeletal Imaging	16%
4	Chest Imaging	11%
5	Breast Imaging	5%
6	Gastrointestinal Imaging	12%
7	Genitourinary Imaging	8%
8	Pediatrics Imaging	11%
9	Nuclear Medicine	8%
10	Ultrasound	5%
11	Basic Radiology Sciences	8%
	Total	100%





No.	R3 Sections	Percentage
1	1 Neuroradiology (Brain & Spine)	
2	Head and neck Imaging	5 %
3	Musculoskeletal Imaging	12%
4	Cardiovascular Imaging	5%
5	Chest Imaging	11%
6	Gastrointestinal Imaging	11%
7	Genitourinary Imaging	8%
8	Pediatrics Imaging	11%
9	Breast Imaging	5%
10	Vascular and Interventional Radiology	8%
11	Nuclear Medicine	8%
12	Radiology Basic Sciences	5%
	Total	100%

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 SCFHS website for the most up-to-date information.
- Research, Ethics, Professionalism, and Patient Safety are incorporated within various domains.
- Basic Radiology Sciences would include Anatomy, Applied clinical physics and techniques.



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Suggested References:

Neuroradiology:

- The Requisites, Publisher: Elsevier; 2016, Language: English, ISBN-10: 1455775681, ISBN-13: 978-1455775682
- Diagnostic Imaging: Brain, Publisher: Elsevier; 2015, Language: English, ISBN-10: 0323377548, ISBN-13: 978-0323377546
- Diagnostic Imaging: Spine, Publisher: Elsevier, 2015, ISBN-10: 032337705X, ISBN-13: 978-0323377058
- Neuroradiology: Key Differential Diagnoses and Clinical Questions, Publisher: Saunders, 2012, Language: English, ISBN-10: 1437717217, ISBN-13: 978-1437717211

Case based books:

- Radcases Neuro Imaging, Publisher: Thieme; ,Language: English, ISBN-10: 1604061898, ISBN-13: 978-1604061895.
- RadCases Head and Neck Imaging , Publisher: Thieme; , 2016, Language: English, ISBN-10: 1604061936, ISBN-13: 978-1604061932
- Neuroradiology Cases (Cases in Radiology), Publisher: Oxford University Press;, 2012, Language: English, ISBN-10: 0199735980, ISBN-13: 978-0199735983
- Case-based brain imaging, Publisher: Thieme, 2013, Language: English, ISBN-10: 978-1-60406-953-2, ISBN-13: 978-1-60406-954-9
- Top 3 Differentials in Neuroradiology, Publisher: Thieme, 2015, Language: English, ISBN-10: 1604067233. ISBN-13: 978-1604067231
- Neuroimaging: A Teaching File, Publisher: LWW, 2014, Language: Englishm ISBN-10: 1451173288, ISBN-13: 978-1451173284

Body Imaging:

- Webb, W. R., Brant, W. E., & Major, N. M. (2020). Fundamentals of body Ct. St. Louis: Elsevier.
- Federle, M. P., & Raman, S. P. (2015). Diagnostic imaging: gastrointestinal. Philadelphia: Elsevier.





• Tublin, M. E., Borhani, A. A., Furlan, A., & Heller, M. T. (2016). Diagnostic imaging: Genitourinary . Philadelphia, PA: Elsevier.

Case based books:

- OBrien, W. T. (2018). Top 3 differentials in radiology: a case review. New York: Thieme.
- Ros, P. R., Mortele, K. J., Pelsser, V., & Thomas, S. (2014). Ct and Mri of the abdomen and pelvis: a teaching file. Philadelphia: Wolters Kluwer Lippincott Williams & Wilkins Health.
- Hsu, W. C., & Cummings, F. P. (2016). Gastrointestinal imaging: a core review. Philadelphia: Wolters Kluwer.

Nuclear:

- Mettler, F. A., & Guiberteau, M. J. (2019). Essentials of nuclear medicine and molecular imaging. Philadelphia: Elsevier.
- Bennett, P. (2015). Diagnostic imaging: nuclear medicine. Amirsys.

Case based books:

- Donohoe, K. J., & D., V. den A. A. (2011). Case-based nuclear medicine. New York: Thieme.
- Appelbaum, D., Miliziano, J., Nayak, S., & Bradley, Y. (2011). Nuclear medicine. New York: Thieme.

MSK:

- Helms, C. A. (2014). Fundamentals of skeletal radiology. Philadelphia, PA: Elsevier Saunders.
- Helms, C. (2009). Musculoskeletal Mri. Philadelphia, PA: Sanders.

Case based books:

- Chew, F. S., Mulcahy, H., & Ha, A. S. (2012). Musculoskeletal imaging: a teaching file. Philadelphia: Wolters Kluwer/Lippincott Williams & Wilkins Health.
- Anderson, M. W., & Smith, S. E. (2014). Musculoskeletal imaging cases. Oxford: Oxford University Press.



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Chest:

- L., R. de C. M. (2012). Diagnostic imaging, chest. Salt Lake City, UT: Amirsys.
- Webb, W. R., & Higgins, C. B. (2011). Thoracic imaging pulmonary and cardiovascular radiology. Philadelphia: Wolters Kluwer/Lippincott Williams & Wilkins Health.

Case based books:

- Ajlan, A. M., & Semionov, A. (2016). Thoracic imaging. New York: McGraw-Hill Education.
- Bhalla, S. (2012). Chest imaging cases. New York: Oxford University Press.

Pediatrics:

- Donnelly, L. F., & Donnelly, L. F. (2017). Fundamentals of pediatric imaging. Philadelphia, PA: Elsevier, Inc.
- Merrow, A. C. (2017). Diagnostic imaging: pediatrics. Philadelphia: Elsevier.

Case based books:

- Chung, E. (2012). Pediatric imaging cases. New York: Oxford University Press.
- Restrepo, C. S., & Zangan, S. M. (2011). Radcases:Thoracic imaging. New York: Thieme.

Breast imaging:

- Cardenosa, G. (2015). Clinical breast imaging: the essentials. Philadelphia: Wolters Kluwer.
- DOrsi, C. J., Mendelson, E. B., Ikeda, . (2013). ACRr breast imaging and reporting data system: breast imaging atlas. Reston, VA: American College of Radiology.

Case based books:

Shah, B. A., & Mandava, S. (2018). Breast imaging: a core review. Philadelphia: • Wolters Kluwer.

Interventional:

Kandarpa, K., Machan, L., & Durham, J. (2016). Handbook of interventional • radiologic procedures. Philadelphia: Wolters Kluwer.

Case based books:

Covey, A. M., Pua, B., Aguado, A., & Madoff, D. C. (2015). Interventional radiology cases. New York: Oxford University Press.







General:

- Lippincott, Williams & Wilkins. (2019). Brant and Helms Fundamentals of Diagnostic Radiology.
- Harisinghani, M. G., Chen, J. W., & Weissleder, R. (2019). Primer of diagnostic imaging. Philadelphia, PA: Elsevier.
- Practical Differential Diagnosis for CT and MRI, Publisher: Thieme, 2008, Language: English, ISBN-10: 1588906558, ISBN-13: 978-1588906557

Case based books:

- OBrien, W. T. (2018). Top 3 differentials in radiology: a case review. New York: Thieme.
- Pope, T. L. (2014). Aunt Minnies atlas and imaging-specific diagnosis. Philadelphia: Wolters Kluwer Health/Lippincott Williams & Wilkins.

Crash Courses:

Outline of each course including suggested reading references given by the provider.

Note:

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

