

Resources

July 2022

Exam reading and resources list

Candidates are required to manage their own preparation for the national exam for medical radiation practice. Part of that preparation will often include reading and revising academic textbooks and other professional resources. The reading and resources list provided below are suggested items and are intended to help a candidate's preparation.

The list of resources provides a good cross section of academic and professional material commonly used in medical radiation practice. It is not an exhaustive list and will be updated from time to time.

When searching for other reference and resource material, candidates should take care to ensure that the material is relevant to current professional practice. Please take care when using resources that reference overseas laws, regulatory requirements or specific requirements in those jurisdictions as they may differ from practice in Australia.

Medical Radiation Practice Board of Australia

- [Code of conduct](#)
- [Mandatory notification guidelines](#)
- [Professional capabilities for medical radiation practice \(2020\)](#)
- [Video: See something, Say Something – Communicating for Safety](#)
- Other registration standards, codes, guidelines and policies of the [National Board](#)

Cultural safety

- National Scheme's [Aboriginal and Torres Strait Islander health and cultural safety strategy](#)
- Queensland Government, Queensland Health, *Aboriginal and Torres Strait Islander patient care guidelines* see: [Aboriginal and Torres Strait Islander patient care guidelines \(health.qld.gov.au\)](#)
- Victorian Government, Department of Health and Human Services, *Aboriginal and Torres Strait Islander cultural safety webpage*, see: [Department of Health and Human Services Victoria | Aboriginal and Torres Strait Islander cultural safety framework \(dhhs.vic.gov.au\)](#)
- Australian Government, Australian Institute of Health and Welfare (AIHW), *Cultural safety in health care for Indigenous Australians: monitoring framework*, see: [Cultural safety in health care for Indigenous Australians: monitoring framework, Summary - Australian Institute of Health and Welfare \(aihw.gov.au\)](#)

Other resources

- Australian Radiation Protection and Nuclear Safety Agency (ARPANSA), Radiation Protection Series, see: [www.arpansa.gov.au/regulation-and-licensing/regulatory-publications](#)
- Australian Commission on Safety and Quality in Healthcare (accessible from website) relevant publications, including:
 - [Australian charter of healthcare rights](#)
 - [NSQHS standards](#)

- [Patient clinician communication](#)
- [Communicating for safety](#)
- [Recognising and responding to acute physiological deterioration](#)
- [Reduction in radiation exposure to children and young people from CT scans](#)

Professional practice

- Hand Hygiene Australia, '5 Moments of Hand Hygiene', see: www.hha.org.au
- National Health and Medical Research Council [Guidelines and Publications](#) website section
- Berglund, C (2012) Ethics for Health Care. 4th edition. OUP Australia & New Zealand
- Scher, S Kozlowska, K (2018) Rethinking Health Care Ethics. Springer
- Allan, S (2019) Law and ethics for health practitioners. Elsevier Health Sciences

Anatomy, physiology and pathophysiology

- Martini, F. H. Nath, J.L. Bartolomew, E.F. (2019) Fundamentals of Anatomy & Physiology. 11th edition. Person Education Ltd. Harlow. United Kingdom
- Moore, K.L. Dalley, A.F. Agur, A.M.R. (2017) Clinically Oriented Anatomy 8th edition. Lippincott Williams and Wilkins, United States of America
- Widmaier EP, Raff, H and Strang KT, (2018) Vander's Human Physiology: The Mechanisms of Body Function, 15th edition. McGraw-Hill: Sydney
- Hubert, R.J. Vanmeter, K.C. (2018) Gould's Pathophysiology for the Health Professions. 6th edition. Elsevier - Health Sciences Division

Pharmacology

- Katzung, B.G (2017) Basic and Clinical Pharmacology. 14th Edition. McGraw-Hill Education

Radiation physics and protection

- Bushong S.C. (2020) Radiologic Science for Technologists: Physics, Biology and Protection, 12th edition. Elsevier - Health Sciences Division
- Samei, E Peck, D.J (2019) Hendee's Physics of medical imaging. 5th edition. John Wiley & Sons
- Seeram, E (2019) Rad Techs Guide to Radiation Protection. 2nd edition. John Wiley & Sons
- Abrahams, R.B Huda, W Sensakovic, W (2019) Imaging Physics Case Review. Elsevier Health Sciences

Digital image processing and storage

- Carter, C. Veale, B (2018) Digital Radiography and PACS. 3rd edition. Elsevier - Health Sciences Division
- Seeram, E (2019) Digital Radiography: Physical principles and quality control 2nd edition. Springer

Radiomics and clinical data measurement

- Juijiang Li, Lei Xing, Napel, S Rubin, D.L. (2019) Radiomics and radiogenomics: technical basis and clinical applications. CRC Press

Computed tomography

- Seeram, E. (2018). 'CT at a glance'. John Wiley & Sons
- Hsieh, J. (2015). 'Computed Tomography: Principles, design, artifacts, and recent advances', SPIE Optical Engineering Press, Bellingham, WA

Radiographic pathology

- Chowdhury, R Wilson, I Rofe, C Lloyd-Jones, G (2017) Radiology at a Glance. 2nd edition. John Wiley & Sons

- Eisenberg, R Johnson, N.M. (2020) Comprehensive Radiographic Pathology 7th Edition. Mosby
- Singh, A (2019) Emergency Radiology: Imaging of Acute Pathologies 2nd edition. Springer International Publishing

Ultrasound

- Gill, Robert (2020) The Physics and Technology of Diagnostic Ultrasound: A Practitioner's Guide. High Frequency Publishing; 2nd ed
- Rumack, C.M. Levine, D (2018) Diagnostic ultrasound. 5th edition. Elsevier
- Australian Sonographers Association - *Clinical guidelines*, see: www.sonographers.org/resources-tools/clinical-guidelines

MRI

- Hashemi, R.H., Bradley, W.G., Lisanti, C. (2017) MRI: The Basics. 4th edition. Lippincott Williams and Wilkins

Diagnostic radiography

- Long, B.W. Rollins, J Smith, B (2018) Merrill's Atlas of Radiographic Positioning and Procedures, 14th Edition. Elsevier – Health Sciences Division
- Lampignano, J Kendrick, L.E. (2017) Bontrager's Textbook of radiographic positioning and related anatomy. 9th edition. Elsevier Health Sciences
- McQuillen Martensen K (2020) Radiographic Image Analysis, 5th edition, Elsevier – Health Sciences Division

Nuclear medicine

- Mettler, F.A. Guiberteau, M.J. (2018) Essentials of nuclear medicine and molecular imaging. 7th edition. Elsevier Health Sciences
- Lin, E.C. Alavi, A (2019) PET and PET/CT: A clinical guide. 3rd edition. Thieme
- Chandra, R Rahmin, A (2017) Nuclear medicine physics: the basics. 8th edition. Lippincott Williams & Wilkins
- Zimmerman, R (2017) Nuclear medicine: Radioactivity for diagnosis. 2nd edition. EDP Science
- Saha, G.B. (2017) Fundamentals of nuclear pharmacy. 7th Ed. Springer

Radiation therapy

- Gibbons, J (2019) Khan's The Physics of Radiation Therapy. 6th Edition. Lippincott Williams and Wilkins
- Washington, C.M. Leaver, D.T. (2019) Washington & Leaver's Principles and Practice of Radiation Therapy. 5th edition. Elsevier Health Sciences
- Small, W Tarbell, N.J Yao, Min (2017) Clinical radiation oncology: Indications, techniques and results. 3rd edition. John Wiley & Sons
- Pawlicki, T. Dunscombe, P Mundt, A Scalliet, P (2011) Quality and Safety in Radiation Therapy. CRC Press
- Cancer Institute NSW, *Radiation Oncology protocols*, see: www.eviQ.org.au