**DESCRIPTION**

Describes the most common imaging technologies and their diagnostic applications so that pharmacists and other health professionals, as well as imaging researchers, can understand and interpret medical imaging science.

This book guides pharmacists and other health professionals and researchers to understand and interpret medical imaging. Divided into two sections, it covers both fundamental principles and clinical applications. It describes the most common imaging technologies and their use to diagnose diseases. In addition, the authors introduce the emerging role of molecular imaging including PET in the diagnosis of cancer and to assess the effectiveness of cancer treatments. The book features many illustrations and discusses many patient case examples.

*Medical Imaging for Health Professionals: Technologies and Clinical Applications* offers in-depth chapters explaining the basic principles of: X-Ray, CT, and Mammography Technology; Nuclear Medicine Imaging Technology; Radionuclide Production and Radiopharmaceuticals; Magnetic Resonance Imaging (MRI) Technology; and Ultrasound Imaging Technology. It also provides chapters written by expert radiologists in well-explained terminology discussing clinical applications including: Cardiac Imaging; Lung Imaging; Breast Imaging; Endocrine Gland Imaging; Abdominal Imaging; Genitourinary Tract Imaging; Imaging of the Head, Neck, Spine and Brain; Musculoskeletal Imaging; and Molecular Imaging with Positron Emission Tomography (PET).

- Teaches pharmacists, health professionals, and researchers the basics of medical imaging technology.
- Introduces all of the customary imaging tools—X-ray, CT, ultrasound, MRI, SPECT, and PET—and describes their diagnostic applications.
• Explains how molecular imaging aids in cancer diagnosis and in assessing the effectiveness of cancer treatments

• Includes many case examples of imaging applications for diagnosing common diseases

*Medical Imaging for Health Professionals: Technologies and Clinical Applications* is an important resource for pharmacists, nurses, physiotherapists, respiratory therapists, occupational therapists, radiological or nuclear medicine technologists, health physicists, radiotherapists, as well as researchers in the imaging field.

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**ABOUT THE AUTHOR**

**Raymond M. Reilly, PhD,** is a Professor and Director of the Centre for Pharmaceutical Oncology in the Leslie Dan Faculty of Pharmacy at the University of Toronto. He teaches the elective course "Medical Imaging for Pharmacists" for third year pharmacy students. Dr. Reilly has published 159 full research papers, 11 books or book chapters, and 137 abstracts. His areas of research are imaging and treatment of cancer using radiopharmaceuticals. His first book, *Monoclonal Antibody and Peptide-Targeted Radiotherapy of Cancer*, won first prize in the oncology category at the British Medical Association book awards in 2011.

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