Essential Medical Imaging

CD-ROM operating instructions

Instructions

1. Insert CD
2. *Macintosh*: Double click the CD "MI" icon on the desktop
   Windows PC: Double click the CD "MI" icon in "My Computer"
3. *Macintosh*: Double click on "Medical Imaging"
   Windows PC: Double click on "Medical Imaging.exe"

Medical Imaging requires QuickTime* to operate.
If you do not have QuickTime available on your PC then use either the Mac or PC installers included on this CD (or download QuickTime from the web at http://www.apple.com/quicktime/download/).

Installing QuickTime

1. Select and open the folder with the QuickTime installer for your operating system.
2. *Macintosh*: Double click the "Quicktime.pkg" icon
   Windows PC: Double click the "Quicktimeinstaller.exe" icon
3. Follow the instructions within the QuickTime installer

*QuickTime and the QuickTime logo are trademarks used under license. The QuickTime logo is registered in the U.S. and other countries.

Minimum requirements

256 MB RAM, Screen Resolution 800×600, CD-ROM drive.

Windows

450 MHz Intel Pentium II processor (or equivalent)
Win 2000: Internet Explorer 5.01x, QuickTime 6
Win XP: Internet Explorer 6x, QuickTime 6

Macintosh

500 MHz PowerPc G3, OS 10.3.9 or above, Safari 2.0, QuickTime 6

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Preface

Medical imaging has come to occupy a pivotal role in the delivery of patient care. Apart from the major area of medical diagnosis, imaging is integrated into basic and clinical research and in the teaching of anatomy.

This text evolved from the development of an integrated medical imaging curriculum for undergraduate medical students at The University of Melbourne. The contents also meet the needs of a much broader group of readers, including trainee physicians and surgeons, general practitioners, junior radiology trainees, and nursing and allied health professionals. As the curriculum is delivered via a web-browser interface, a CD-ROM is included, which includes an expanded version of the text and images, as well as a search engine.

The aim of this text is to provide a comprehensive but manageable coverage of medical imaging in clinical medicine, and assumes no prior knowledge of imaging modalities. All areas of general and specialist adult medicine and surgery are included, as well as obstetrics and gynecology, and pediatrics.

The emphasis is on placing medical imaging in clinical context and enabling the reader to learn how best to use imaging. The topics describe the role of imaging in common clinical presentations, and the important imaging features of common or important diseases. In addition, substantial sections outline the principles of image generation and interpretation, risks, benefits, and costs. We have included a comprehensive overview of nuclear medicine techniques and some of its common clinical applications, an area sometimes not covered in similar texts.

A section with annotated normal radiological images is included to act as a reference with which to compare the abnormal and to aid in the learning of anatomy. This section can be viewed on the CD-ROM in self-test mode.

Readers can use this text from any starting point, depending on the clinical situation. A useful place to start for many will be with the sections outlining how images are produced, how normal images appear, and how to develop a systematic way of looking at images.

The accompanying CD-ROM is an expanded version of the text. It is a comprehensive resource that provides a number of ways to browse its content and locate relevant information. Users should spend a few minutes reading the introduction for orientation and can then select topics of current interest, use the search engine to generate links to particular subjects, and use the library of normal images as a reference as well as using it in self-test mode.

Robert N. Gibson
and
L. Anne Mitchell
(Associate Editor)

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Finally, I am forever grateful to my family and to Bill Hare, who have supported me and inspired me.

Robert N. Gibson