

# 2011/12



## MEDICAL & SCIENCE MEDIA

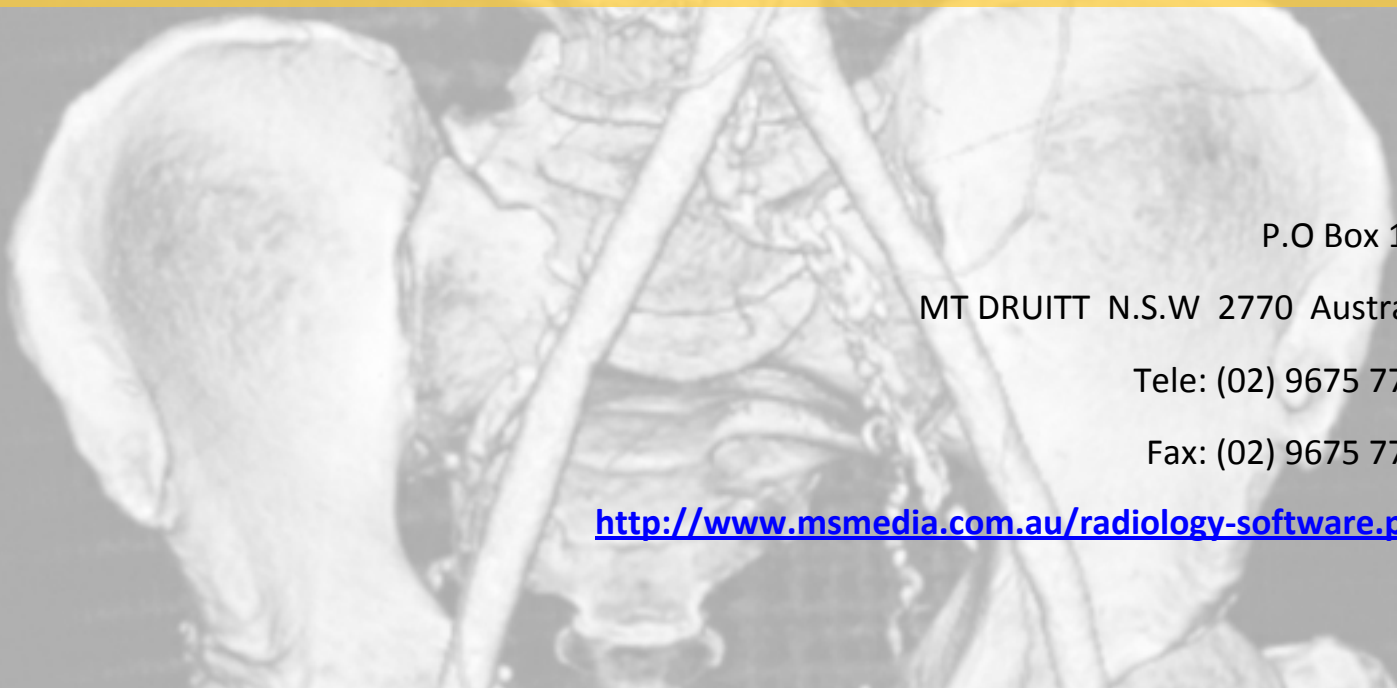
### Medical Imaging SOFTWARE

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<http://www.msmedia.com.au/radiology-software.php>



[Cat #: MU-25](#)**Medical Imaging - Wins**

Medical Imaging is a new teaching and learning resource developed by "The University of Melbourne Department of Radiology" to provide medical students with an understanding of clinical radiology, but it is also appropriate for other groups, including physiotherapy students, postgraduate medical & surgical trainees, and nurses. It covers the clinical role of radiology in general and specialist adult medicine and surgery, women's health and children's and adolescent's health. About 130 topics describe the role of radiology in common clinical presentations, and the important radiological features of common or important diseases.

The emphasis is in placing radiology in clinical context. In addition a generic section outlines the principles of image generation, image interpretation, risks, benefits and costs, and includes a substantial section on nuclear medicine. A terminology section provides definitions including those of commonly used abbreviations. A library of annotated normal radiological images is included which can be viewed in a self-test mode.

It is delivered using a Web browser interface on CD-ROM, and comprises approximately 220,000 words and 2,000 images which are presented as enlargeable thumbnails.

[Cat #: PR-40](#)**Radiological Cross Sectional****Anatomy with Multi-detector CT: Thorax, Abdomen and Pelvis - Wins & Mac**

An exciting new resource for anyone using cross sectional anatomy or involved in the interpretation of radiological scans. Thousands of clear and accurate images, in an intuitive digital format, provide the user with an invaluable aid to cross section anatomy, CT and MRI interpretation and a stunning 3D anatomy image library.

View hundreds of clear and accurate 3D anatomy images of the thorax, abdomen and pelvis. Interactive functions allow you to add and remove layers, rotate and label any structure with the click of a mouse.

In the cross sectional anatomy section, use advanced functionality to select a region, modality, plane and contrast - (for CT) then scroll through labeled cross sections and compare with CT scans of the whole trunk, thorax, abdomen and pelvis plus MRI of the male and female pelvis. Label any structure on either the cross section or the scans and follow through all the available slices using the scrolling function. Structures labels are clearly mapped in 2D, rather than just pointed to give the structure circumference. You can also view the structure labels as a color overlay over the scans.

**Benefits:**

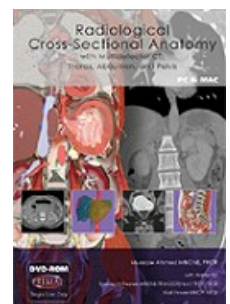
- Learn, revise and teach more easily using clear, accurate labeled cross sectional anatomy linked to high quality CT and MRI scans
- Quick and easy access to thousands of clear and accurate 3D and cross section images for presentations and lectures.
- You are in control. Intuitive interactive functions allow the user to select area, modality and plane and label relevant structures.
- Interface designed to complement packages used to interpret radiological scans in a clinical environment

**Detailed List of Views****Thorax**

Respiratory System  
Bronchial tree  
Lungs – including segmentation.  
Pleura

**The Heart**

Position of the heart  
Pericardium  
Chambers of the Heart  
Cardiac cycle right and left  
Conducting System

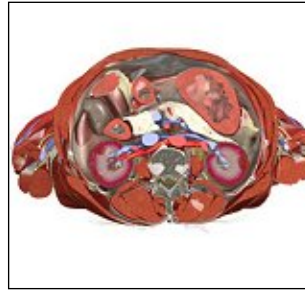
**Breast and Mammary Glands**

**Abdomen**

Quadrants of the abdomen  
Regions of the abdomen  
Peritoneum

**Digestive System**

Stomach  
Stomach wall  
Small intestines  
Large intestines  
Rectum and anal canal  
Spleen  
Liver – including segmentation views

**Heptatic System**

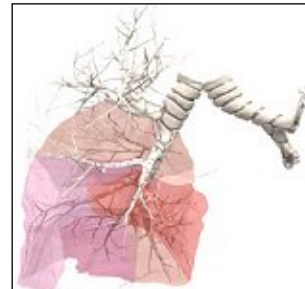
Gall bladder and biliary tree  
Pancreas

**Urinary System**

Suprarenal glands  
Kidney  
Renal calyces  
Renal Vessels  
Ureters

**Female Pelvis**

Bladder and urethra  
Muscles of the female pelvic floor  
Female reproductive system  
Female reproductive tract  
Position and support of the uterus  
Female external genitalia

**Male Pelvis**

Bladder and urethra  
Muscles of the male pelvic floor  
Male reproductive system  
Testis  
Spermatic cords and scrotum  
Spermatic ducts  
Male reproductive accessory glands  
Penis

**Anatomy Section****Cross sectional anatomy and radiology section**

Advanced functionality allows you to select the region, modality, plane and contrast (for CT) you want, label any structure, compare to detailed and labeled cross section anatomy and scroll through all the layers available.

**Multidetector CT**

Choose to view CT of the whole trunk, chest, abdomen or pelvis in axial, sagittal or coronal planes and at 1.5mm slices.  
Includes over 300 labeled structures  
Choice of 3 CT contrasts

**MRI**

Female Pelvis MRI in T1 and T2 at 5mm slices.  
Male Pelvis MRI in T1 and T2 at 5mm slices

**System Requirements:** *PC/Windows OS:* Windows XP, Vista. *Macintosh:* Mac OSX inc Leopard 1.5Ghz Processor or greater, 200MB RAM, 24-bit colour. 1024x768 screen resolution.

[Cat #: CH-30](#)**Challenger EM Ultrasound - Wins****Fundamentals for Emergency and Acute Care Physicians**

Challenger EM Ultrasound is a unique, CD-ROM-based course designed to teach the basic techniques of emergency ultrasound. The course contains a combination of still and video segments, as well as diagrams, animations, and interactive multimedia that describe the key concepts of ultrasonography.

Challenger EM Ultrasound educates the physician on the emergency ultrasound exam, including evaluation of abdominal trauma, RUQ pain, pericardial effusion, ectopic pregnancy, abdominal aortic aneurysm, and many more presentations. The course also covers all clinical applications as well as ultrasound. Make yourself the expert in your practice with this unique state-of-the-art program!

Challenger EM Ultrasound is a novel, CD-ROM-based course designed to teach the basic techniques of emergency ultrasound. Eight robust chapters teach the most sought-after ultrasound diagnostic skills. A combination of still and narrated video segments, diagrams, and animations describe and explain the key concepts of ultrasonography. Now you will understand and be able to explain the spectrum of ultrasound technologies, the physics behind each, and the mechanics of image generation. Labels on imagery, diagrams, and ultrasound videos can be switched on and off for quick reference and self-testing. Images, illustrations, even videos enlarge for detailed examination. Interactive animations and multimedia case-studies allow you to manipulate elements on the screen and see your results in real time. Sleek pop-up navigation tools let you pause, fast forward, rewind, and skip narrative screens. A powerful **search tool** lets you find specific screens and topics. You can also quickly browse screens using our intuitive submenus.

Listen to the professional narration and then read the transcript. Finding the topic you need has never been easier. Print your screens and transcripts on the fly. A unique "marker" feature allows on-screen write up in a variety of colours for demonstration and classroom use. You can print your marked screens, erase marks, and clear all marks. The "carousel" feature allows you to create your own custom slideshow from the over 500 screens provided. Share your custom presentations with colleagues, students, and patients.

**Chapter Listings**

- |                                 |                                    |
|---------------------------------|------------------------------------|
| ▪ Introduction                  | ▪ Right Upper Quadrant Examination |
| ▪ Physics and Orientation       | ▪ Abdominal Aorta Examination      |
| ▪ Trauma Ultrasound Examination | ▪ Renal Examination                |
| ▪ Cardiac Examination           | ▪ OB/GYN Examination               |

**System Requirements:** Windows 2000 sp4+, XP sp1+ (Home, Professional or MCE) or Vista (Home Basic/Premium, Business or Ultimate) (Windows 2000 or XP sp2 preferred). Pentium III - 1GHz or faster, 24X CD-ROM drive or faster, Video Card and Monitor capable of at least 1024x768 resolution; Sound Card and Speakers, Microsoft Mouse or compatible pointing device. Windows 2000 sp4+, or Windows XP sp1+ (Home/Prof/MCE): 512MB or greater, Windows Vista (Home Basic/Premium, Business, or Ultimate): 1GB or greater. Run from CD-ROM: 1MB with CD-ROM, Full Installation: Amount varies with each product. Microsoft Internet Explorer 6.x or Internet Explorer 7.x, Netscape Navigator 7.x or later, Mozilla Firefox 1.x or later. Sun Java2 (JRE) 1.4.2\_07 - 1.4.2\_16. Internet Access with a 56K modem or faster (DSL, Cable, Broadband, etc.). Macromedia Flash 6 player or later, A media player\* with codecs for ".mp3" audio and ".mpg" MPEG1 video/audio.

[Cat #: CH-29](#)**Fundamental Pediatric Radiology - Wins****Acute Care Radiology Cases For Primary and Emergency Physicians**

Fundamental Acute Care Radiology is an interactive training program designed to refine the primary care, or emergency physician's ability to quickly diagnose the entire spectrum of problems recognisable on radiographs.

**Table of Contents:****Abdominal, Pelvis, and Genitourinary Cases:**

Abdomen  
Introduction



Injuries to the Spleen and Hemoperitoneum  
 Ileus and Bowel Obstruction  
 Branching Air Patterns within the Biliary System  
 Bowel Wall Thickening: Ischemic, Infectious, or Inflammatory  
 Important Radiographic Findings on Periphery of Film, "Cornershots"  
 Diaphragmatic Hernia  
 Free Air in the Abdominal Cavity - Pneumoperitoneum  
 Vascular and Non-Vascular Calcifications Found on Abdominal Imaging  
 Foreign Bodies

### **Pelvis and Genitourinary Tract**

Introduction to Imaging of the Pelvis: Detection of Subtle Fractures and Joint Effusions  
 Acetabular Fractures  
 Slipped Femoral Capital Epiphysis and Adolescent Hip Injuries  
 Hip Dislocations  
 Major Pelvic Disruptions  
 Renal Calculi Imaging  
 Urethral Disruptions  
 Perivesical Hematomas  
 Bladder Disruption  
 Renal Parenchymal/Retroperitoneal Injuries

### **Chest Cases**

Introduction  
 Introduction & Approach to Reading Chest Radiographs

### **The Lungs**

Focal Densities, Infiltrates, and Atelectasis  
 Homogeneous Densities  
 Multiple and Diffuse Lung Densities  
 Pulmonary Contusions  
 Pulmonary Embolism  
 Congestive Heart Failure

### **The Pleural Spaces**

Pleural Effusions and Hemothoraces  
 Airway Leaks and Pneumothoraces

### **The Mediastinum and Its Contents**

Pneumomediastinum, Pneumopericardium and Subcutaneous Emphysema  
 Hemomediastinum  
 Traumatic Aortic Disruptions  
 Thoracic Aortic Dissection  
 Hiatal Hernia  
 Esophageal Rupture

### **The Diaphragm & Miscellaneous Topics**

Diaphragmatic Abnormalities & Injuries  
 Sternal Fractures  
 Miscellaneous Cases

### **Extremity Cases**

Extremity Cases  
 Shoulder  
 Traumatic Injuries to the Elbow  
 Traumatic Injuries to the Distal Forearm/Wrist  
 Imaging of the Knee  
 Air in the Joints and Soft Tissues  
 Ankle Fractures  
 Destructive Bone Lesions

### **Lumbar and Thoracic Spine Cases**

Lumbar and Thoracic Spine  
 Introduction  
 Lumbar and Sacral Fractures  
 Infection Involving the Vertebra or Disc Spaces  
 Degenerative, Congenital, and Neoplastic Lumbar Disease  
 Presentation of Myelopathies versus Radiculopathies

**Neuro-Imaging (CNS), Facial Bones, & Cervical Spine Cases**

Central Nervous System  
 Introduction to CNS Imaging  
 Subarachnoid Hemorrhage  
 Subdural vs Epidural Hemorrhage  
 Intraparenchymal Contusion/Hematoma: Traumatic vs Spontaneous  
 Arteriovenous Malformation (AVM)  
 Cerebral Edema  
 Skull Fractures  
 CNS Infection, Cerebritis vs Abscess  
 Mass Lesions of the Brain  
 Congenital Intrauterine Transmission of Infection to the Fetal Brain  
 Neuroimaging in the AIDS Patient  
 Cerebral Infarction  
 Extra-Axial Low Density Fluid Collection  
 Hydrocephalus

**Facial Bones**

Introduction  
 Fractures of the Facial Bones  
 Soft Tissue Changes on Facial Images

**Cervical Spine**

Introduction to Cervical Spine Imaging  
 Evaluation of the Prevertebral Soft Tissue Space (PVSTS)  
 Evaluation of the Pediatric Prevertebral Soft Tissue Space (PVSTS)  
 Epiglottitis and Other Soft Tissue Infections  
 Evaluation of the Subglottic Airway  
 Evaluation of the Atlanto-Occipital Relationship  
 Fractures of the Odontoid  
 Evaluation of the Upper Cervical Spine  
 Evaluation of the Lower Cervical Spine  
 Epidural Fluid Collection: Abscess vs Hematoma  
 Evaluation of Foreign Bodies vs. Anatomical Variants  
 Evaluation of the Pediatric Cervical Spine X-ray  
 Unilateral and Bilateral Facet Dislocation  
 Soft Tissue of the Neck

**Target Audience:**

Fundamental Acute Care Radiology is intended for all medical practitioners who use radiographs for medical diagnosis; and who need to be familiar with the radiographic manifestations of diseases.

**Educational Objectives:**

On completing this program, the medical practitioner will be able to:

1. Recognize typical radiographic examples of disorders causing abdominal, pelvic, and genitourinary abnormalities.
2. Given specific patient presentations with radiographs, diagnose disorders causing abdominal, pelvic, and genitourinary abnormalities.
3. Describe the key radiographic features of disorders causing abdominal, pelvic, and genitourinary abnormalities.
4. Recognize typical radiographic examples of disorders causing chest x-ray abnormalities.
5. Given specific patient presentations with radiographs, diagnose disorders causing chest x-ray abnormalities.
6. Describe the key radiographic features of disorders causing chest x-ray abnormalities.
7. Recognize typical radiographic examples of disorders causing extremity and lumbar spine abnormalities.
8. Given specific patient presentations with radiographs, diagnose disorders causing extremity and lumbar spine x-ray abnormalities.
9. Describe the key radiographic features of disorders causing extremity and lumbar spine abnormalities.
10. Recognize typical radiographic examples of disorders causing head and neck abnormalities.
11. Given specific patient presentations with radiographs, diagnose disorders causing head and neck x-ray abnormalities.
12. Describe the key radiographic features of disorders causing head and neck abnormalities.
13. Demonstrate mastery of the knowledge and cognitive skills required to achieve the above objectives by scoring at least 80% on all topics studied for CME credit.

**New and Revised Pedagogic Content**

- Ileus and Bowel Obstruction

- Bowel Wall Thickening: Ischemic, Infectious, or Inflammatory
- Free Air in the Abdominal Cavity - Pneumoperitoneum
- Vascular and Non-Vascular Calcifications Found on Abdominal Imaging
- Hip Dislocations
- Pulmonary Embolism
- Hemomediastinum
- Traumatic Injuries to the Elbow
- Ankle Fractures
- Destructive Bone Lesions
- Lumbar and Sacral Fractures
- Infection Involving the Vertebra or Disc Spaces
- Degenerative, Congenital, and Neoplastic Lumbar Disease
- Subdural vs Epidural Haemorrhage
- CNS Infection, Cerebritis vs Abscess
- Mass Lesions of the Brain
- Introduction to Orbital Scanning
- Fractures of the Facial Bones
- Soft Tissue Changes on Facial Images
- Introduction to Cervical Spine Imaging
- Epiglottitis and Other Soft Tissue Infections

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[Cat #: CH-28](#)

## Fundamental Acute Care Radiology - Win

### Acute Care Radiology Cases For Primary and Emergency Physicians

Fundamental Acute Care Radiology is an interactive training program designed to refine the primary care, or emergency physician's ability to quickly diagnose the entire spectrum of problems recognisable on radiographs.

#### Table of Contents:

#### Abdominal, Pelvis, and Genitourinary Cases:

Abdomen  
 Introduction  
 Displacement Phenomena and Mass Effects on Abdominal Images  
 Injuries to the Spleen and Hemoperitoneum  
 Ileus and Bowel Obstruction  
 Branching Air Patterns within the Biliary System  
 Bowel Wall Thickening: Ischemic, Infectious, or Inflammatory  
 Important Radiographic Findings on Periphery of Film, "Cornershots"  
 Diaphragmatic Hernia  
 Free Air in the Abdominal Cavity - Pneumoperitoneum  
 Vascular and Non-Vascular Calcifications Found on Abdominal Imaging  
 Foreign Bodies

#### Pelvis and Genitourinary Tract

Introduction to Imaging of the Pelvis: Detection of Subtle Fractures and Joint Effusions  
 Acetabular Fractures  
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 Hip Dislocations  
 Major Pelvic Disruptions  
 Renal Calculi Imaging  
 Urethral Disruptions  
 Perivesical Hematomas



Bladder Disruption  
Renal Parenchymal/Retroperitoneal Injuries

### **Chest Cases**

Introduction  
Introduction & Approach to Reading Chest Radiographs

### **The Lungs**

Focal Densities, Infiltrates, and Atelectasis  
Homogeneous Densities  
Multiple and Diffuse Lung Densities  
Pulmonary Contusions  
Pulmonary Embolism  
Congestive Heart Failure

### **The Pleural Spaces**

Pleural Effusions and Hemothoraces  
Airway Leaks and Pneumothoraces

### **The Mediastinum and Its Contents**

Pneumomediastinum, Pneumopericardium and Subcutaneous Emphysema  
Hemomediastinum  
Traumatic Aortic Disruptions  
Thoracic Aortic Dissection  
Hiatal Hernia  
Esophageal Rupture

### **The Diaphragm & Miscellaneous Topics**

Diaphragmatic Abnormalities & Injuries  
Sternal Fractures  
Miscellaneous Cases

### **Extremity Cases**

Extremity Cases  
Shoulder  
Traumatic Injuries to the Elbow  
Traumatic Injuries to the Distal Forearm/Wrist  
Imaging of the Knee  
Air in the Joints and Soft Tissues  
Ankle Fractures  
Destructive Bone Lesions

### **Lumbar and Thoracic Spine Cases**

Lumbar and Thoracic Spine  
Introduction  
Lumbar and Sacral Fractures  
Infection Involving the Vertebra or Disc Spaces  
Degenerative, Congenital, and Neoplastic Lumbar Disease  
Presentation of Myelopathies versus Radiculopathies

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Cerebral Edema  
Skull Fractures  
CNS Infection, Cerebritis vs Abscess  
Mass Lesions of the Brain  
Congenital Intrauterine Transmission of Infection to the Fetal Brain  
Neuroimaging in the AIDS Patient  
Cerebral Infarction  
Extra-Axial Low Density Fluid Collection  
Hydrocephalus

### **Facial Bones**

Introduction  
Fractures of the Facial Bones

## Soft Tissue Changes on Facial Images

### **Cervical Spine**

Introduction to Cervical Spine Imaging  
 Evaluation of the Prevertebral Soft Tissue Space (PVSTS)  
 Evaluation of the Pediatric Prevertebral Soft Tissue Space (PVSTS)  
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 Evaluation of the Subglottic Airway  
 Evaluation of the Atlanto-Occipital Relationship  
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 Evaluation of the Lower Cervical Spine  
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 Evaluation of Foreign Bodies vs. Anatomical Variants  
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 Unilateral and Bilateral Facet Dislocation  
 Soft Tissue of the Neck

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- Vascular and Non-Vascular Calcifications Found on Abdominal Imaging
- Hip Dislocations
- Pulmonary Embolism
- Hemomediastinum
- Traumatic Injuries to the Elbow
- Ankle Fractures
- Destructive Bone Lesions
- Lumbar and Sacral Fractures
- Infection Involving the Vertebra or Disc Spaces
- Degenerative, Congenital, and Neoplastic Lumbar Disease
- Subdural vs Epidural Haemorrhage
- CNS Infection, Cerebritis vs Abscess
- Mass Lesions of the Brain
- Introduction to Orbital Scanning
- Fractures of the Facial Bones
- Soft Tissue Changes on Facial Images
- Introduction to Cervical Spine Imaging

- Epiglottitis and Other Soft Tissue Infections

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