

# MEDIIMAGE 719

## PAEDIATRIC IMAGE EVALUATION

15 points  
Semester 2, 2018

### Course Description

Provides students with the knowledge to evaluate radiographs of common paediatric trauma and pathologies in the clinical setting. Using a systematic method of image interrogation and a critical approach, students will develop the ability to provide a preliminary clinical image evaluation of common paediatric radiographs.

### Objectives of the Course

This course aims to provide students with the knowledge to evaluate paediatric images in the clinical setting. The student will develop the ability to apply this knowledge using a systematic approach of image interrogation. This course will also look critically at imaging technique and its relationship to providing accurate image evaluation. The focus is on common findings on paediatric radiographs.

### Learning Outcomes

1. Critically discuss principles of paediatric image evaluation.
2. Critically analyse and integrate anatomy, physiology and pathology with radiological presentations to reach accurate diagnoses.
3. Evaluate the impact of radiographic technique on interpreting paediatric images.
4. Understand the role of various imaging modalities in patient diagnosis and management.
5. Critically evaluate paediatric radiographs and be capable of forming a radiological opinion.



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### Programme and Course Advice

This course may be selected as one of the two required image evaluation courses within the PGCertHSc(Medical Imaging – Image Evaluation pathway) programme. This course is compulsory within the PGDipHSc(Medical Imaging – Image Evaluation pathway) programme.

Students enrolled in the PGDipHSc/PGCertHSc (Medical Imaging) programmes may choose this course to contribute 15 points towards the MEDIMAGE/CLINIMAG point requirements. Students from the PGDipHSc(MRI) and PGCertHSc (Mammography) programmes may choose this course as an elective.

All Medical Imaging Technologists are eligible for direct entry to this course. For all other students, departmental approval is required and a concession request must be submitted when applying to enrol in this course. Access to a clinical Medical Imaging department is highly recommended.

### Course Delivery

The course is delivered fully online by distance via the University of Auckland's learning management system 'Canvas'. It will incorporate a range of learning approaches including videos, webpages, links to the library databases and resources, and utilising online technologies to promote shared learning opportunities.

Students are urged to discuss privately any impairment-related requirements face-to-face and/or in written form with the Course Coordinator.

### Workload and contact hours

The total expected workload for this course is approximately **150 hours**. This may be broken down as follows:

- Set readings relevant to image evaluation theory (40 hours)
- Other resources provided on Canvas e.g. videos, websites (10 hours)
- Assignments and self-directed learning (100 hours)

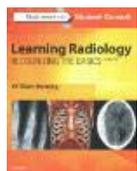
## Communication

All official communication to a student will be sent to the student's current University email address (username@aucklanduni.ac.nz) and the student is responsible for ensuring that any desired forwarding to other addresses is in place and operating correctly. Staff will not be responsible for any consequences if students fail to read and respond to University correspondence in a timely manner.

Students are encouraged to use the course discussion forum as much as possible for communication with staff and other students. Email may be used for more private matters. Staff will endeavour to respond to email queries as soon as possible.

## Course Textbook

The **required textbook** for this course is:



**Learning radiology: recognizing the basics** (3rd ed.)  
William Herring  
Philadelphia, PA: Elsevier c2016

This book is available online and in hardcopy from the Philson Library. In addition, a large selection of other readings and resources

## Pre-course Reading

It is highly recommended that students access the following online textbook via the Philson Library and read 'Chapter 1: Radiation bio effects and dose reduction strategies' and 'Chapter 2: Contrast media: posology, risks and side effects' as preparatory pre-reading for this course. This should be revision and will be assumed prior knowledge when you begin the course:



**Paediatric imaging manual**  
Jochen Tröger; Peter Seidensticker (Peter Reinhardt); SpringerLink (Online service)  
Heidelberg: Springer c2008

## Assessment

An aggregated mark of 50% or more is required to successfully pass this course. Resubmission of failed assessments is not permitted.

Penalties for excessive word count and/or late submission (without prior written approval for an extension) will be applied in accordance with the 'Medical Imaging Assessment Requirements and Presentation Criteria' document.

The following is indicative of the type of assessments to be completed for this course:

- |                             |     |
|-----------------------------|-----|
| • Written Assessment        | 15% |
| • Image Reading Test        | 15% |
| • Case Study Critique       | 35% |
| • MCQ and Short Answer Test | 35% |

## Academic Integrity

The University of Auckland will not tolerate cheating, or assisting others to cheat, and views cheating in coursework as a serious academic offence. The work that a student submits for grading must be the student's own work, reflecting his or her learning. Where work from other sources is used, it must be properly acknowledged and referenced. This requirement also applies to sources on the world-wide web. All students' assessed work will be reviewed against electronic source material using computerised detection mechanisms.

## Student Feedback

Assessments will be marked, moderated and returned within 3 weeks of submission, with the possible exception of the last course assessment which will be returned after the Board of Examiners meeting. Feedback will be provided on all assessments in the form of a marking rubric and/or individual or class comments. This feedback will be accessed via email or Canvas as identified by the Course Coordinator.

Near the end of this course, feedback from students may be requested in the form of an online course evaluation survey.

## Disclaimer

*Although every reasonable effort is made to ensure accuracy, the information in this document is provided as a general guide only for students and is subject to alteration.*

