

CLINIMAG 710

MRI CLINICAL APPLICATIONS

15 points
Semester 1, 2018

Course Description

Addresses normal and abnormal imaging appearances, protocol selection and development, and applications associated with standard neurological, musculoskeletal and body MRI examinations.

Objectives of the Course

This course aims to cultivate a critically questioning approach to MR imaging practice. An emphasis will be placed on integrating theory and clinical practice elements in order to facilitate clinical competence. The course will expect students to assimilate the underlying physical principles of MRI with relevant biological processes and imaging appearances.

Learning Outcomes

1. Differentiate and explain normal and abnormal MR imaging appearances of the head, neck, spine, abdomen, pelvis and musculoskeletal system.
2. Make informed clinical judgements with regard to the selection of imaging protocols and technical parameters in relation to the head, neck, spine, abdomen, pelvis and musculoskeletal system.
3. Develop appropriate imaging protocols for specific pathologies of the head, neck, spine, abdomen, pelvis, and musculoskeletal system applications.
4. Critically evaluate a range of standard MRI techniques to investigate specific regions and pathologies.
5. Apply an evidence-based approach to clinical decision-making and problem solving.

Teaching Staff



Shelley Park
Course Coordinator
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Programme and Course Advice

Prerequisite: MEDIMAGE 714

Restrictions: CLINIMAG 701, CLINIMAG 702

This course is a compulsory course within the PGDipHSc(MRI) programme.

All students enrolled in the PGDipHSc(MRI) programme are eligible for direct entry to this course on completion of the prerequisite 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 MRI department is highly recommended.

Course Delivery

This 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:

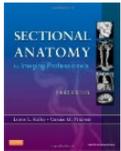
- Set readings relevant to MRI clinical practice (40 hours)
- Other resources provided on Canvas e.g. videos, websites (10 hours)
- Assignments and self-directed learning (100 hours)

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 Textbooks



Students will be **required to purchase** a copy of '**Workbook for sectional anatomy for imaging professionals**' (3rd ed.) by Lorrie Kelley and Connie Petersen (2012).

Access to the corresponding textbook '**Sectional anatomy for imaging professionals**' (3rd ed.) by the same authors would be helpful although the information required to complete the workbook is available in a range of other textbooks.

A large selection of other readings and resources will be able to be accessed online via the course website and the Philson Library databases.

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:

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| • Case-Based Discussion | 40% |
| • Clinical Decision-Making Portfolio | 35% |
| • MCQ, Short Answer and Image Evaluation Test | 25% |

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.

At 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.

