Surgical and Radiological Anatomy
**Course Rationale**

**Surgical and Radiological Anatomy (SaRA)** is a BBS Minor Module to help students prepare for safe surgical and radiological practice. The need for a good working knowledge of anatomy in operative surgery and interventional radiology is evidenced by the increasing number of medicolegal negligence claims due to errors resulting from ignorance of the location of key anatomical structures and the existence of common anatomical variations.

Postgraduate membership and fellowship examinations of the Royal College of Surgeons and the Royal College of Radiologists include a number of OSCE (Objective Structured Clinical Examination) stations to test a candidate’s knowledge of relevant clinical anatomy. In addition, applicants for Core Surgical Training and Specialty Radiology Training may improve their scores in the *Experience in and commitment to specialty* component by having chosen to take a relevant module such as this SaRA course.

The SaRA course provides the opportunity for students to attend operating theatre sessions or to spend time with radiologists in interventional and/or reporting sessions, thus widening their experience and enabling them to see at first-hand how these specialties operate on a daily basis. As an alternative, students may complete an anatomical prosection from a list of available specimens.

**Course Objectives**

- Introduces students to aspects of anatomy especially relevant to surgical practice and radiological imaging
- Provides opportunities to attend operating theatre sessions or interventional radiology/reporting sessions or to produce an anatomical prosection
- Enables students to research and evaluate specific procedures related to their practical experience

**Selection Criteria**

Students doing medical, veterinary medicine and natural sciences are all welcome to apply. However, please note that if there is a large number of applicants, scores in the FAB and HNA modules (MedST students) and their overall class in Parts IA and IB will be considered for selection purposes. These criteria had to be applied in the first year of the course as we were oversubscribed, but for the past three years, we have been able to take all the students who selected this option. If you are especially interested in this subject, please do consider applying and do email the course organiser if you have any queries.

**NST and VetST students:**

Please submit a 500-word written statement explaining your interest in taking this course. VetST students may liaise with the Queen’s Veterinary School Hospital to arrange relevant placements in Lent Term. Please note that NST may choose Option 3 only in the Lent Term.
Course Overview

Michaelmas Term

12 lectures delivered by Consultant Surgeons and Radiologists from Addenbrooke’s Hospital and the Royal Papworth Hospital to prepare students for the practical aspect of the course in Lent Term. These provide students with the relevant anatomical knowledge of a specific region that will inform the student during their practical experience. Each lecture will focus on either the surgical or the radiological approach for a significant clinical area. Lecture titles will include, for example, Cardiac Anatomy and Musculoskeletal Imaging.

Lent Term

Students can choose one of the following options:

OPTION 1: Attendance at operating sessions, researching and recording procedures witnessed with discussion of preoperative preparation and postoperative complications, conducting and writing up a literature review pertaining to the procedure and/or evaluation of relevant research on the subject, OR

OPTION 2: Attendance at diagnostic reporting and/or interventional radiology sessions, researching and evaluating the challenges for specific regions, conducting and writing up a literature review pertaining to the procedure and/or evaluation of relevant research, OR

OPTION 3: Preparation of an anatomical prosection from a list of available specimens, researching, conducting a literature review, and writing up known variations and potential pathological conditions.

In addition, there are 2 skills sessions, one in Michaelmas Term to prepare students for the clinical placement, and one in Lent Term on the written report and presentation.
Assessment

Assessment is by coursework. There is no final examination.

- **Short Answer Questions** (1 hour, 20%) based on Michaelmas Term lectures, to be taken on the first Wednesday of Full Lent Term.

- **Written Report** (2,500-3,000 words, 50%) on operating theatre or radiology session or anatomical prosection, including literature review, evaluation of research, imaging modality, anatomical variations and pathological conditions, to be submitted on the last day of Lent Term.

- **Oral Presentation** with 5 PowerPoint slides (30%) on the content of practical sessions, to be submitted in Week 2 or 3 of Full Easter Term.

Participating Clinicians

**Surgeons**

- Mr A Abood (Plastic Surgery)
- Miss S Biers (Urology)
- Mr J Davies (Colorectal Surgery)
- Ms I Fitzgerald-O’Connor (ENT)
- Mr S McDonnell (Orthopaedics)
- Mr N Moorjani (Cardiothoracic)

**Radiologists**

- Dr B Agrawal (Cardiothoracic)
- Dr T Das (Neuroradiology)
- Dr E-L Gerety (Musculoskeletal)
- Dr A Helmy (Interventional)
- Dr T Sadler (Abdominal Imaging)
- Dr J Smith (Pelvic Imaging)

Course Facilitators

*Contact Email:* hacteaching@pdn.cam.ac.uk

**Clinical Anatomist**

Prof Cecilia Brassett (cb457)

**Administrative Staff**

Dr Richard Lloyd (rl643), *Human Anatomy Centre Manager*

Ms Jade de Quincey (jd2029), *Human Anatomy Teaching Administrator*