

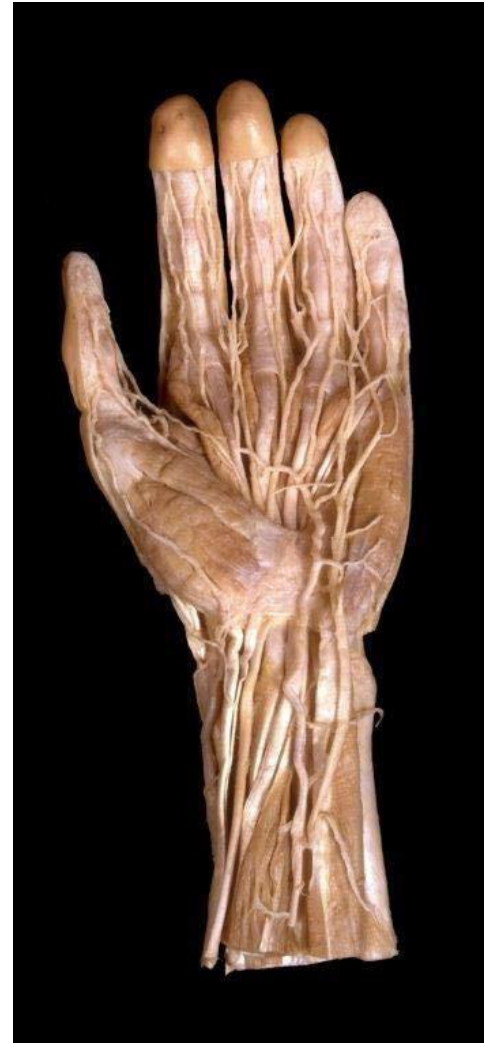


UNIVERSITY OF  
CAMBRIDGE

Department of Physiology, Development  
and Neuroscience

**NST Tripos Part II BBS (Biological & Biomedical Sciences) Minor Module**

## **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 students who are not studying medicine cannot attend hospital placements, they 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. For the past several years, we have been able to accept all the students who selected this option. However, if there is a large number of applicants, scores in the anatomy modules (FAB and HNA for MedST students) and their overall class in Parts IA and IB will be considered for selection purposes. If you are especially interested in this course, 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 SaRA. VetST students may liaise with the Queen's Veterinary School Hospital to arrange placements in Lent Term. Students not studying medicine may only choose Option 3 in Lent.

## Course Overview

### ***Michaelmas Term***

14 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.

- **Single Best Answer MCQs** (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)  
Mr T Santarius (Neurosurgery)

### **Radiologists**

Dr B Agrawal (Cardiothoracic)  
Dr T Das (Head & Neck Imaging)  
Dr E Gerety (Musculoskeletal)  
Dr E Godfrey (Endoscopic US)  
Dr T Sadler (Abdominal Imaging)  
Dr J Scott (Neuroradiology)  
Dr J Smith (Pelvic Imaging)

## Course Facilitators

**Contact Email:** [hacteaching@pdn.cam.ac.uk](mailto:hacteaching@pdn.cam.ac.uk)

### **Clinical Anatomist**

Prof Cecilia Brassett (cb457)

### **Administrative Staff**

Ms Jasmine Guizzetti (jg2100)