

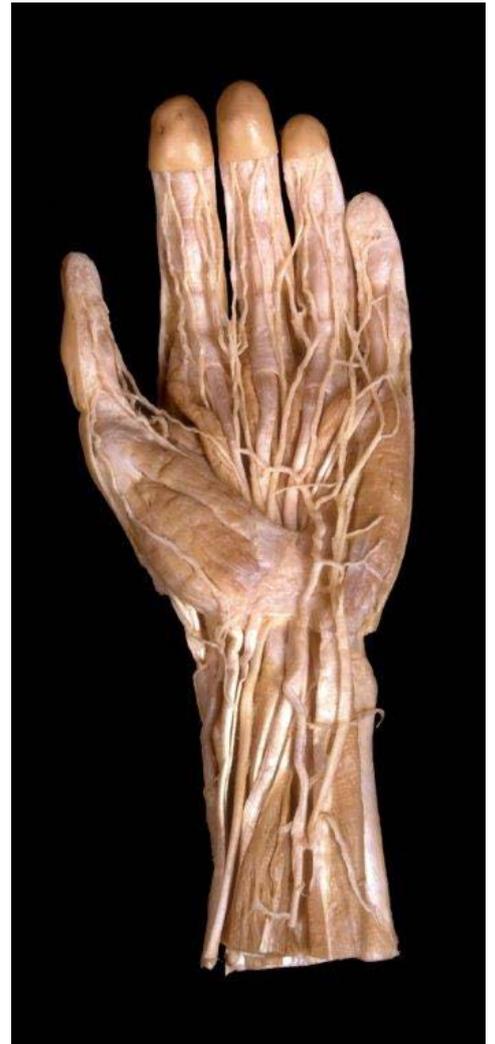


UNIVERSITY OF
CAMBRIDGE

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 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

MedST students:

Ranking in FAB (Part IA) and HNA (Part IB) examinations, and their overall Tripos class.

NST and VetST students:

Overall Tripos performance in Parts IA and IB and a 500-word written statement.

Please note that NST and VetST may choose Option 3 only in the Lent Term.

A maximum of 15 students will be accepted for the academic year 2020-21.

Course Overview

Michaelmas Term

12 lectures delivered by Consultant Surgeons and Radiologists from Addenbrooke's Hospital, the Royal Papworth Hospital and Hinchingsbrooke 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, *Surgical Anatomy of the Maxillofacial Tissues* and *Radiological Anatomy of the Female Pelvis*.

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 to prepare students for their Lent Term experience, and one in Lent on presentation skills.



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 variation and pathological conditions, to be submitted on the last day of Full Lent Term.
- **Oral Presentation** (10%) with 5 PowerPoint slides (20%) on the content of practical sessions, to be given in Week 2 or 3 of Full Easter Term.

Participating Clinicians

Surgeons

Mr A Abood (Plastic Surgery)
Miss S Biers (Urology)
Mr C Fowell (Oral Maxillofacial)
Mr A Harris (Upper GI Surgery)
Mr S McDonnell (Orthopaedics)
Mr N Moorjani (Cardiothoracic)

Radiologists

Dr B Agrawal (Cardiothoracic)
Dr N Carroll (GI Imaging)
Dr T Das (Neuroradiology)
Dr E-L Gerety (Musculoskeletal)
Dr A Helmy (Interventional)
Prof E Sala (GU Imaging)

Course Facilitators

Clinical Anatomists

Dr Cecilia Brassett (cb457) & Dr Helen Taylor (hlt37)

Administrative Staff

Mrs Lisa Arnold (la449), *Bequeathal & Teaching Secretary*

Technical Staff

Mr James Skeates (jts55), *Senior Teaching Technician*
Mrs Lisa Childs (lc688), *Senior Teaching Technician*