# Programme Specification 2025-26



# **CLINICAL MEDICINE: STANDARD COURSE**

Awarding Body University of Cambridge

Teaching Institution Faculty of Clinical Medicine

Accreditation Details General Medical Council (GMC)

Name of Final Award MB/BChir

Programme Title Clinical Medicine: Standard Course

UCAS Code A100

HECoS Code 100276 pre-clinical medicine, 100267 clinical

medicine

Benchmark Statement(s) Medicine; Clinical Medicine; Medical Science

Qualifications Framework Level Professional clinical training post-Honours

Date specification produced January 2025

The University of Cambridge School of Clinical Medicine (Clinical School) was formally established in January 1975 when it subsumed the School of Clinical Research and Postgraduate Teaching that had existed since 1946; the first entry of 50 Clinical Students was admitted in October 1976. For the last few years, and up to and including 2016 entry, the annual intake to the Standard Clinical Course was around 160 students. Since September 2017, all preclinical students have continued on in Cambridge for the clinical component of the course, subject to satisfactory progression. This has increased the annual intake to around 270 students. Around 10 of those students are offered places on the MBPhD programme; in addition, around 40 students are admitted to the Cambridge Graduate-entry Course (CGC).

The Clinical School is situated on the Cambridge Biomedical Campus, an outstanding centre for clinical practice, medical education and biomedical research. Formal teaching often takes place in the School building and in an adjacent purpose-built training centre with skills laboratory facilities (The Deakin Centre). The focus of the Clinical School's clinical training activities is the Cambridge University Hospitals NHS Foundation Trust (Addenbrooke's and the Rosie Hospitals) – CUHFT, In addition, there are significant links in teaching and research with the Royal Papworth Hospital on the Cambridge Biomedical Campus, and with Regional Partner NHS Trust hospitals and in general practices throughout the East of England.

## **Educational Aims**

The University of Cambridge School of Clinical Medicine will

- Educate and nurture student doctors within a supportive, sustainable, diverse, and inclusive learning community
- Empower students to develop lifelong learning and research skills, scientific understanding, clinical expertise, and professional values and behaviours
- Equip our graduates to adapt, thrive and lead in a complex and evolving clinical environment
- Develop graduates work in partnership with their patients and colleagues, valuing their needs and opinions
- Train future doctors who will serve the wider society locally, nationally and globally, with integrity and excellence

## **Programme Structure**

The duration of the standard clinical course is three academic years, starting in September of the first year and finishing in June of the final year. The second and third academic years start in August. Each year has its own focus, which complies with the General Medical Council (GMC) guidance in *Promoting Excellence: Standards for Medical Education and Training (2016), and the GMC Outcomes for Graduates (2018):* 

Year 4: Core Clinical Practice

Year 5: Specialist Clinical Practice Year 6: Applied Clinical Practice

The curriculum timetable is arranged to ensure experience of all common clinical problems and integration of teaching across the core curriculum themes, covering all major specialties, in a spiral curricular structure. The course intended learning outcomes are addressed by collaborative cross-curricular working between groups of specialists. The course intended learning outcomes are mapped to the GMC's Outcomes for Graduates; the Core Clinical Presentations, that are integrated throughout the clinical course, are mapped to the GMC/MLA Content Map.

# Year 4 - Core Clinical Practice (CCP)

The aims of Year 4 are:

- To enable students to acquire the core clinical assessment, diagnostic and professional skills required
  of a doctor.
- To provide students with experience of patient care in a variety of clinical settings (primary care, secondary care, emergency departments, ward care, elective/day case units, ambulatory/outpatient care).
- To build on the scientific foundation of the MVST programme with opportunities for student selected research activity.

CCP objectives are achieved by the integration of curriculum themes with clinical material. Students are supported in moving into the clinical environment and towards self-directed, experiential learning. They begin their personal and professional development through exploration of ethical dilemmas, through examining students' own attitudes and values and via an appreciation of the patients' perspective of illness.

#### Introductory Course - 2 weeks

Students start Year 4 with a two-week introductory course which provides a grounding in the core professional skills required – clinical reasoning and communication skills, clinical examination skills, practical procedural skills and prescribing skills. In addition, they are introduced to professional responsibilities, to health promotion/illness prevention and to palliative care. There is a mixture of large group lecture style sessions, smaller group experiences and a blend of asynchronous (pre-recorded) and synchronous (face-to-face) learning events.

# CCP Core Clinical Method - 2 x 4 weeks

Students will have four weeks of experience based in the clinical school and at CUHFT and four weeks of clinical experience at one of the University's other partner hospitals (Royal Papworth, Bedford, Hinchingbrooke, Ipswich, Bury St Edmunds, Kings Lynn, Stevenage or Peterborough). During this time, students will be embedded in a clinical team and will develop their skills in communication, clinical assessment, management, and basic reasoning (including regular radiology teaching). This block also includes core clinical method teaching relating to maternal and child health. The hospital placements are supported by regular placements in General Practice.

Following these two core clinical method blocks there will be a formative review process to ensure that students have developed the required core skills to proceed, and to identify students who may be experiencing difficulties in order to provide additional clinical teaching support.

#### CCP Placements - 4 x 6 weeks

After completing the core clinical method block, students will enter a rotation of four placements; three of these will be clinical placements either at CUHFT or at one of eight partner hospitals (Royal Papworth, Bedford, Hinchingbrooke, Bury St Edmunds, Ipswich, Kings Lynn, Stevenage or Peterborough). During these placements students are again embedded within a clinical team and are expected to be involved in

day-to-day clinical work as well as undertaking shift work alongside their team. Students will obtain experience in:

- General Medicine (including Elderly Care)
- Emergency Care (including Accident & Emergency and Acute Medical Assessment unit experience)
- Elective Surgery and Peri-operative care
- Two x 2-week placements in General Practice are included in the General Medicine and Emergency Care placements in a teaching practice in Cambridge or linked to the regional teaching hospital.

The fourth placement is a six-week Student Selected Component (SSC), during which there is an opportunity to obtain clinical research and scholarship experience. The SSC experiences offer students the opportunity to get involved in clinical research activities, across the Cambridge biomedical campus and undertake projects in an area of interest.

The student clinical experiences and learning are supplemented by weekly small group bedside teaching sessions, wherever they are on placement. The teaching sessions (undergraduate clinical supervisions) are organised and delivered by appropriately trained resident doctors (undergraduate clinical supervisors).

#### Educational resources

Learning in the clinical environment will be supported by online learning resources. Several pre-recorded CPCs (see Review and Integration weeks) are available for students to support self directed study during placements. In addition there are seminars and tutorials throughout the year which cover clinical pharmacology, practical prescribing, radiology, clinical communication skills, professional responsibilities, and palliative care. Learning outcomes and clinical presentations are also mapped to the Year 4 learning events to provide a scaffold for student learning. Students also receive regular facilitated small group discussions in professional practice groups (PPGs). These are designed to support students developing reflective practice.

## Review and Integration Weeks

These include several Clinico-pathological Conferences (CPCs) relating to the clinical subjects being studied. The CPCs frequently focus on the application of biomedical science knowledge, pathology and radiology learning to the process of clinical reasoning. Other core clinical curricular material covered in R&I weeks includes Pharmacology/Practical Prescribing, Improving Health, Palliative Care and topics from the Professional Responsibilities theme including medical ethics and law. This additional material is linked, wherever possible, with the presentations discussed in the CPCs. Learning outcomes and clinical presentations are mapped to the review and integration week learning events to provide further scaffolding for the student learning "The Patient's Voice" programme enables a set of expert patients to meet the students and discuss their experiences of the health service and their illness. There is a regular Schwartz round for students.

#### Year 5 - Specialist Clinical Practice (SCP)

The aims of Year 5 are:

- To enable students to build on their clinical assessment, diagnostic and professional skills, including in more specialist clinical environments
- To provide students with experience of patient care in a variety of clinical settings based on the stages of the human lifespan
- To enable students to pursue areas of clinical and research interest in specialist and tertiary clinical
  care settings in a programme built around the research interests of the Clinical School and Cambridge
  Biomedical Campus.

SCP objectives are achieved by the integration of curriculum themes with clinical material. Learning outcomes and clinical presentations are mapped to the Year 5 learning events to provide a scaffold for student learning. Students continue their personal and professional development through exploration of further ethical dilemmas relating to the provision of specialist clinical services and this programme is supported by a continuation of the regular facilitated small group discussions in professional practice

groups (PPGs), which support students in developing reflective practice.

#### SCP Placements - 4 x 8 weeks

The SCP course comprises four x 8-week placements:

- Maternal and Child Health
- Neurosciences and Mental Health
- Specialist Medicine (including specialist cardiorespiratory practice and Infectious Diseases)
- Specialist Surgery (including Oncology)

The Specialist Medicine and Specialist Surgery blocks are Student Selected Placements in which students are able to choose a specialist clinical area of interest to pursue in more depth. The majority of these placements are based on the Cambridge Biomedical Campus, but there are also placements available elsewhere, including at the Royal Papworth Hospital and at Cambridgeshire and Peterborough NHS Foundation Trust. Undergraduate Clinical Supervisions continue every week, whenever students are based in Cambridge, providing ongoing bedside clinical teaching with adult medical and surgical patients, and guiding students' ongoing development of clinical assessment and reasoning skills.

## Hospital Placements

These are in Maternal and Child Health (8 weeks), and in Neurosciences and Mental Health (6 weeks). Students will be based at CUHFT and/or at a partner regional hospital. During these placements students are again embedded within a clinical team and are expected to be involved in day to day clinical work as well as undertaking shift work (including night duties) alongside their team.

## Primary and Community Care, three x 2 weeks

The Neurosciences and Mental Health, Specialist Medicine, and Specialist Surgery rotations include linked placements studying the relevant specialties in primary care and the community. The placements explore the realities of living with illness in the community including meeting with community-based carers and organisations.

#### Student Selected Placements

Two of the four rotations in Year 5 (Specialist Medicine and Specialist Surgery) are Student Selected Placements (SSPs). In these SSPs students are given the opportunity to explore some specialist and tertiary clinical care, which in most cases will be at Addenbrooke's Hospital or elsewhere on the Cambridge Biomedical Campus. The SSPs may include undertaking projects in clinical or translational research. There are also a small number of opportunities available to undertake SSPs at other Trusts, such as the Royal Papworth Hospital, and Cambridge and Peterborough NHS Foundation Trust. The Specialist Medicine and Specialist Surgery placements also include core experiences in specialist cardiorespiratory care (delivered at Royal Papworth Hospital), Oncology (delivered at CUHFT), and Infectious Diseases (delivered at CUHFT).

#### Review and Integration Weeks

Core clinical curriculum teaching continues in the Year 5 R&I weeks, the CPC programme forming the "backbone" of the programme, together with the linked themes (Professional Responsibilities, Improving Health, Prescribing/Pharmacology and Palliative Care.

## Year 6 - Applied Clinical Practice (ACP)

The final year builds on the core learning and the clinical experiences students have had in previous years of the course and there are regular opportunities (through R&I weeks) to embed core learning, linking this with clinical experiences. The focus of the final year is on equipping students with the knowledge, skills and attitudes that allow them to practice independently. Senior placements in Medicine, Surgery, Acute Care/Perioperative care, and General Practice, enable students to build on their clinical experiences and learning, over the previous 5 years, improve their confidence and play a supervised participatory role in

direct patient care.

The aims of Year 6 are to enable students to:

- Recognise the severity of illness and institute immediate and continuing care to patients of any age group who are acutely and seriously unwell;
- Demonstrate an understanding of general medicine, surgery and acute care;
- Have acquired the Intermediate Life Support (ILS) Certificate;
- Demonstrate the knowledge, skills and attitudes required by the Clinical School in Final MB and by the General Medical Council to practise as a doctor in the Foundation programme.

By the end of Year 6 students will have developed the consultation, clinical management, diagnostic judgement and professional skills required for graduation. Students will have had responsibility for patient care, under close supervision, in a variety of clinical environments.

#### **Elective**

The Elective Studies Student Selected Component occupies seven weeks between Year 5 and Year 6. During this placement, students may study at home or abroad, following a clinical or research area of their own interest.

#### ACP Clinical Placements

Students rotate through four x 6-week placements in Senior Surgery, Senior Medicine, Senior Emergency (Acute) Care/Perioperative Care, and Senior General Practice. All students will have at least one ward-based attachment (Senior Medicine or Senior Surgery) prior to taking their Final MB Part III written papers (including the Medical Licencing Assessment Applied Knowledge Test) early in the Lent Term.

While some of the same subject matter may be covered in these placements as in previous years, the emphasis in ACP is very different. Students will be focused on 'preparing for practice' in this final year. They will have acquired, and been signed off for, key practical procedures as defined in the GMC Practical Skills and Procedures document (2019), and will be expected to play a direct part in the care and management of patients under appropriate close supervision.

In hospital placements, either at CUHFT or at one of eight regional hospitals (Royal Papworth, Bedford, Huntingdon, Ipswich, Bury St Edmunds, Kings Lynn, Stevenage or Peterborough), students are involved in clinical teams, and they may be rostered to work in the evenings, overnight and at weekends. In each of the hospitals, Undergraduate Clinical Supervisors (resident doctors trained to teach) continue to meet students every week (wherever they are on clinical placement). Prior to their Final MB Part III clinical examinations the focus of the supervisions is on pulling together students' clinical reasoning and assessment skills. Post Final MB Part III the focus is moved to 'wardcraft' and the practicalities of working as a resident doctor post-graduation.

#### General Practice - 6 Weeks

Students are attached in pairs to a practice that they have not attended earlier in the course. They will see patients independently under the supervision of GP tutors, taking supported clinical decisions and following patients up. They are introduced to a patient with terminal illness in order to gain experience of palliative and terminal care in the community.

Hospital Placements: Senior Medicine, Senior Surgery – two x 6 Weeks

Students are attached to medical and surgical teams around the region. As far as possible, they play an integral role in the day to day work of patient care. They take responsibility for clerking and following up identified patients, including presenting the patients on rounds, performing practical procedures, escorting patients to investigation or therapy units, attending discharge planning meetings and other activities related to direct patient care. During these placements, students will also build on their sub-specialty skills including Dermatology, Rheumatology, Orthopaedics, ENT, Medicine for the Elderly, Ophthalmology, Palliative Care and Radiology.

#### Acute Care/Perioperative Care - 6 Weeks

Students learn about the practicalities of assessing and managing patients in a peri-operative setting, and with serious, acute and life-threatening illness across all specialties, to ensure that they are both competent and confident in this area before qualification. Time on this attachment will be divided between Emergency Departments, Intensive Care Unit and Theatres.

# Review and Integration Weeks

Review and Integration programmes continue, the focus in Year 6 being on clinical management and all aspects of professionalism, alongside applied knowledge of dermatology, ENT and ophthalmology.

#### Practical Prescribing

This is a three-year teaching programme which runs throughout the clinical years. It includes on-line teaching, at the end of which students should be able to use the British National Formulary (BNF) correctly to support decisions about drug prescription; apply BNF general prescribing advice and current legislation regarding prescribing controlled drugs; record and report adverse drug reactions; carry out a range of drug dosage calculations and use Trust guidelines on good prescribing to identify and resolve inappropriate prescribing practice. Students will take the National Prescribing Safety Assessment (PSA) exam during Year 6; this must be passed before the degrees of Bachelor of Medicine and Bachelor of Surgery can be awarded.

# Apprenticeship Block - 6 weeks

After the clinical final MB Part III exams, there is a formal apprenticeship block where students work semi-independently under supervision of nominated consultants to deliver direct patient care in an in-patient environment. This will be under close mentorship by both junior and senior doctors. It will be a unique opportunity to develop further working knowledge of what it really means to be a Foundation doctor, to practice key skills, to experience night shifts, and to hone the 'wardcraft' needed to be a successful junior doctor. Alongside this, students will also spend a day in a Hospice, will participate in Liaison psychiatry seminar(s), and will continue to build on their Communication Skills and Professional Responsibilities learning. Satisfactory completion of this block involves sign-off of a handbook in which students complete several supervised learning events and in which both senior and junior mentors write a report. The Apprenticeship block must be satisfactorily completed before the degrees of Bachelor of Medicine and Bachelor of Surgery can be awarded.

## Foundation programme – 2 years

To be eligible for full registration with the General Medical Council, a doctor must complete a period of supervised service in an approved post.

Recruitment is by preference informed allocation through the UK Foundation Programme, which students apply to in the Michaelmas Term of Year 6.

#### Overall aims of the clinical course years

#### Knowledge and understanding

Before the clinical course starts, students are directed to complete a set of eLearning for Health modules, including Information Governance, to meet the mandatory requirements of all staff working within the NHS.

At the start of the clinical programme, there is a two-week Introductory Course comprising a mixture of large group lecture style sessions and smaller group rotational experiences.

By the end of the Introductory Course, students will:

- have received a grounding in the core skills required clinical communication skills, clinical
  examination skills, practical procedural skills/resuscitation, professional skills and palliative care. They
  will also have received advice about experiential learning and using the available learning resources
  (including the on-line learning materials).
- have met their undergraduate clinical supervisors and followed a programme of instruction in basic clinical method including fundamentals of clinical communication and reasoning skills (basic history taking) and clinical examination (through a peer-peer teaching programme with more senior students).
- have been introduced to basic concepts of patient investigation and clinical reasoning.

By the end of **Year 4**, the Core Clinical Practice course, students will be competent in basic clinical method. They will have met patients in hospital and in primary care with a wide range of acute and chronic general medical and surgical problems and pursued a clinically-orientated student-selected placement or research project. Students will be able to:

- Communicate effectively in a range of clinical settings
- Take a clinical history
- Perform a physical examination
- Document their findings appropriately
- Show competence in basic practical skills
- Prepare and discuss a differential diagnosis
- Suggest appropriate investigations
- Interpret the results of simple clinical investigations

By the end of **Year 5** (the Specialist Clinical Practice course), students will be competent in the clinical, communication and practical skills relevant to the medical specialities throughout all stages of life. They will have had an introduction to the specialist medical practice in the Cambridge University Hospitals NHS Trust and exposure to the translational and clinical research underpinning major healthcare challenges, reflecting the research themes of the Cambridge Biomedical Campus and including Neurosciences and Mental Health, Maternal and Child Health, Cardiovascular Medicine, Inflammation and Cancer. Students will have met diverse patients both in hospital and in primary care and will:

- Recognise different patterns of health and disease throughout life and in different communities
- Demonstrate a range of portfolio cases
- Discuss issues relating to physical and mental disability at all ages
- Describe public health aspects of medicine relating to screening, prevention and population health at different stages of life
- Describe their involvement with clinical or translational research

By the end of **Year 6**, the Applied Clinical Practice course, by integrating the curriculum themes in further clinical practice, and by undertaking an Apprenticeship period after the Final MB examinations, students will have developed the consultation, clinical management, diagnostic judgement and professional skills required for graduation. Students will have responsibility for patient care under close supervision in a variety of clinical environments. Students will:

- Recognise the severity of illness and institute immediate and continuing care to patients of any age group who are acutely and seriously unwell
- Demonstrate an understanding of general medicine, surgery and acute care
- Have acquired the Intermediate Life Support (ILS) Certificate
- Demonstrate the knowledge, skills and attitudes required by the Clinical School and by the General Medical Council to pass Final MB (including the Medical Licensing Assessment (MLA)) and to practise as a doctor in the Foundation programme

## **Integrated Curriculum Themes**

Integrated curriculum themes serve as scaffolding around which different specialties specify coordinated learning objectives and collaborate to deliver an integrated programme over the three-year period of the clinical course. These integrated themes run throughout the three-year course and learning and teaching in these areas forms the backbone of the Review and Integration programme.

The integrated curriculum themes are as follows:

- Applied Biomedical Science
- Clinical Reasoning and Communication Skills
- Practical Procedures
- Practical Prescribing Skills
- Therapeutics and Patient Management
- Professional Responsibilities, comprising:
  - o Professional behaviour
  - Medical Ethics and Law
  - Multiprofessional Teamworking
  - Reflection, learning and teaching
  - Management and Leadership
  - Patient Safety
  - Career development
- Improving Health
- Palliative Care
- · Research and the INSPIRE programme

#### Transferable Skills

There are several transferable skills that are developed through students' experience at medical school. A description of some of these skills and how they can be acquired and demonstrated, is included on the NHS medical careers website: https://www.healthcareers.nhs.uk/i-am/considering-or-university/studying-be-doctor/medical-school/transferable-skills-whilst-medical<sup>1</sup>.

## **Teaching & Learning Methods**

#### Environment

Throughout the course, the emphasis is on experiential learning in clinical settings, seeing patients with a variety of clinical presentations, supported by small group seminars, tutorials and discussion groups. This learning from clinical experiences is further supported by large group activities including clinicopathological conferences and lectures.

## Learning Methods

Clinical teaching is delivered on the wards (with additional opportunities to attend general and specialist outpatient clinics, ambulatory care services, and operating theatres) and in general practice. There are also supervisions, tutorials and lectures The clinical course is based in Cambridge, on the Cambridge Biomedical Campus, although at least one third of the student experience and learning is delivered in regional hospitals/practices to take advantage of the different educational opportunities which they are able to offer including:

- Small student group sizes
- Experience of different hospital/general practice environments
- Exposure to a different range of patients and ethnic populations
- Building relationships between students and consultants/GPs throughout the region, facilitating progression to the pre-registration/foundation period

Students are expected to play an active role (supervised) in their clinical team, to follow up a group of patients including watching special investigations or treatment and to regularly present patients on ward rounds and in clinical and MDT (Multi-disciplinary Team) and MPT (Multi-professional Team) meetings. Weekly Undergraduate Clinical Supervisions are organised for students (in Cambridge College groups) whenever students are based at Addenbrooke's. Similar student groups are organised during Regional Hospital placements in Year 4 and Year 6 (Regional Undergraduate Clinical Supervisions). The weekly

<sup>&</sup>lt;sup>1</sup> External weblink; correct at time of printing

Supervisions focus on improving clinical assessment skills and reinforcing the lessons of Clinical Reasoning and Communication Skills teaching. Supervisions are generally delivered by appropriately trained resident doctors as near-peer teaching sessions. Topic-based tutorials and discussions of ethical problems may also be included.

Small group tutorials supporting student reflective practice development is delivered through the professional responsibilities integrated clinical theme. Students have regular Professional Practice Groups (PPGs) where they have facilitated discussions of different professionalism issues that they may encounter during clinical placements.

Self-directed learning is encouraged during clinical placements; students are given guidance on learning methods in Year 4 and autonomous learning is supported by the on-line learning materials. Learning outcomes and clinical presentations are mapped to the learning events to provide a scaffold for this student self-directed learning.

Much of the material in the integrated **curriculum themes** is delivered in small groups, including clinical reasoning and communication skills work with simulated patients and actors and Professional Practice Groups, both of which occur throughout the course.

# Review and Integration (R&I) Weeks

Students are brought together as a whole year group regularly, throughout the clinical course for a series of 'Review and Integration' weeks, spread throughout the clinical course. These include a programme of lectures covering subject matter that, for educational or practical reasons, is best delivered in large groups. These weeks also facilitate student interaction within their year group.

#### Practical Skills and Procedures

Opportunities for learning practical skills and procedures are provided in all placements. Academic leadership and co-ordination of the practical skills programme is delivered via the clinical school under the supervision of the academic lead and the senior clinical skills tutors. There are clinical skills units/centres (CSUs) and clinical skills tutors based in Addenbrooke's Hospital and all the University's NHS partner hospitals. This allows an integrated programme of practical clinical skills to be delivered simultaneously in Cambridge and in all the regional NHS partner hospitals throughout the course.

# Library and IT Facilities

All Clinical Students are registered with the Medical Library on their arrival. As well as electronic resources available via University RAVEN logins, students are automatically registered for login to NHS ATHENS. All the key resources for learning and practicing evidence based medicine are available including Cochrane Library, Medline, Embase, NHS Evidence. Self-service networked printing, scanning and photocopying facilities are available, as well as private study space both in the library and in a dedicated E-Learning suite. Some private study spaces are equipped with PCs, and all can be used with Bring Your Own Device. There are additional PCs in the Sherwood Room (the student common room). There is Wifi throughout the Clinical School building.

All regional partner NHS Trusts have library, IT provision, and Wifi access.

The Clinical School virtual learning environment (VLE) hosts all the academic and administrative material for the curriculum. The online student and programme evaluation system and certain online assessments also form part of the Clinical School VLE.

#### **Assessment Methods**

A range of formative and summative assessments are in place using a variety of methodologies. All assessments are produced and marked according to validated standard-setting and marking techniques. Information about individual assessments and the theory underpinning them is discussed with students in a

series of 'Demystifying Assessment' sessions, designed to remove some of the 'myths and legends' that often surround exams!

#### **Progression**

Formative assessments provide an important opportunity for students and staff to check on a student's progress and to ensure targets are being met. They provide feedback that can then be acted upon to further improve performance and remedy any deficits in knowledge and/or skills. For the most part, formative assessments tend to occur at the end of placements, while summative assessments are usually held towards the end of each academic year, but there is some overlap.

Summative assessments are also used to monitor progress, but unlike formative assessments they require a minimum level of performance to be achieved to allow progression on the course. In essence, they serve as checkpoints that must be cleared to continue to the next stage. This is a professional practice course, with a spiral curriculum in which learning in one year builds on learning from the years before. Therefore, it is very important that students meet the academic and professional standards of the clinical course, at each stage of study, before being able to progress any further through the course. Students who are not able to do this will be required to take intermission whilst they discuss future plans with their College and the Clinical School. For example, if a student is unable to sit their summative assessments at the end of Year 4 or Year 5, they will be able to start the next clinical year in August and take their first attempt in September/October. However, if they fail the examination, they will not be able to continue on the course; they will be required to take intermission during that academic year and sit and pass their outstanding Final MB examinations prior to rejoining the course the following August.

Students cannot be entered for Final MB summative examinations unless they have passed all placements and other relevant requirements for that year of study. Students who do not satisfactorily complete a placement are given, at the discretion of the Clinical Dean, the opportunity to attend remedial teaching during holidays and self-directed study periods. Any student failing two placements may be required to meet with the Clinical Dean to determine whether he/she will be allowed to continue on the course or be required to intermit and then resit the year.

Students are permitted two attempts at each Final MB examination; exceptionally, if there are extenuating circumstances, the Faculty Board of Clinical Medicine may give permission for an additional attempt; ahead of this, a programme of revision and clinical placements to maintain their skills is organised.

#### All Years

Assessment occurs at the end of each clinical placement and may include the result of observation of student performance by the multidisciplinary clinical team together with more formal assessments such as written tests, objective structured clinical examinations (OSCE's), or Mini-Clinical Evaluation Exercises (Mini-CEX's) organised by the clinical team. The assessment methods for each course component are determined by the Deanery team in consultation with Specialty Directors and Theme Co-ordinators; they are explained to students in the information published in the Clinical School VLE.

Students will have a one-to-one progress review meeting in years 5 and 6, either with their College Clinical Director of Studies, or with a senior member of the academic teaching team at the Clinical School.

## Student Selected Components

Throughout the course, each Student Selected Component (SSC) is assessed by SSC supervisors in a way designed to be most appropriate to the activity concerned. There is an SSC Portfolio which must be completed satisfactorily before entry to the Final MB Part III examinations.

#### Placement Records

For each year of the course, assessment results are recorded in a written report. A Placement Record for each student is completed at the end of individual placements by the Specialty Director, regional hospital Undergraduate Specialty Tutor or responsible consultant. Students are graded on their performance in three areas: attendance, knowledge and skills, and professionalism. In addition to this, students receive an

overall grade. If students fail a placement, they must remediate and pass it, prior to being allowed to enter Final MB examinations. If students receive two or more borderline passes for placements, they may not be entered for final MB.

Placement evaluative criteria are as follows:

	For Review (/Fail)	Borderline	Pass	Outstanding
Attendance	<ul> <li>Was absent for significant proportion of the placement</li> </ul>	<ul> <li>Missed a number of regular and scheduled activities</li> </ul>	<ul> <li>Was present for all regular and scheduled activity</li> </ul>	☐ Goes beyond the requirements of the placement
Knowledge & Skills	<ul> <li>□ Insufficient         clinical skills         and knowledge</li> <li>□ Inability to         learn from         clinical practice</li> <li>□ Very poor         time         management</li> </ul>	□ Limited clinical skills and knowledge □ Some ability to learn from clinical practice □ Poor time management	<ul> <li>□ Satisfactory         clinical skills and         knowledge</li> <li>□ Able to learn         from clinical         practice</li> <li>□ Adequate time         management</li> </ul>	<ul> <li>□ Excellent clinical skills and knowledge</li> <li>□ Able to learn effectively from clinical practice</li> <li>□ Excellent time management</li> </ul>
Professionalism	□ Significant concerns about professional behaviour □ Very poor communicator □ Unwilling to take on responsibility □ Does not integrate with the team	☐ Has demonstrated some unprofessional behaviour ☐ Poor communicator ☐ Limited ability to take on responsibility ☐ Ineffective team member	<ul> <li>□ Caring</li> <li>□ Respectful</li> <li>□ Un-biased</li> <li>□ Effective</li> <li>communicator</li> <li>□ Accepts</li> <li>responsibilities</li> <li>□ Works with the team</li> </ul>	<ul> <li>□ Caring</li> <li>□ Respectful</li> <li>□ Un-biased</li> <li>□ Effective and confident communicator</li> <li>□ Keen to accept responsibilities</li> <li>□ Outstanding team member</li> </ul>

#### Year 4 Assessments (including Final MB Part I)

#### **Formative**

During the **Core Clinical Method** module there is an opportunity for students to gain experience of the format of clinical examination and practical skills stations through a short formative assessment. This also allows students with particular difficulties, and requiring additional teaching support/remediation, to be identified at an early stage.

#### Final MB Part I

Year 4 concludes with Final MB Part I comprising:

- Single Applied knowledge Test (AKT): a 3-hour written examination, comprising single best answer (SBA) questions covering all of the major clinical specialties represented in Year 4, including pathology.
- Clinical Exam: comprising simulated clinical encounter examination (SCEE), objective structured clinical examination (OSCE), and practical skills stations. The exam typically comprises 10 stations, which are split principally between SCEE and OSCE formats, with a single practical skills station included in the OSCE circuit.

Students who fail Final MB Part I in the Easter Term, will receive remedial teaching and be reassessed in September/October of that year; if they fail the reassessment they will not be able to continue with the Clinical Course. In exceptional circumstances, and where mitigating circumstances have been declared, students may apply to the Faculty Board of Clinical Medicine for an exceptional third attempt. However,

students will need to intermit from the course for an academic year whilst they make the case to the Board and await the outcome. If their request is approved, the examination would need to be taken and passed in the Easter Term, prior to rejoining the course and re-starting the year, in August.

## Year 5 Assessments (including Final MB Part II)

There are a series of practical skills that map to the GMC's Practical Skills and Procedures document. Students will be expected to be competent at all of these skills, in a supervised setting, by the end of Year 5. Competence is assessed in various ways, including via repeated observation and feedback, throughout Years 4 and 5.

# **Year 5** concludes with Final MB Part II comprising:

- Single Applied knowledge Test (AKT): a 3-hour written examination, comprising single best answer (SBA) questions covering all of the major clinical specialties represented in Years 4 and 5, with a specific emphasis on the pathological aspects of disease, and obstetrics and gynaecology and paediatrics.
- Single Short Answer Question (SAQ) exam: a 3-hour written examination, comprising 10 short answer
  questions (extended clinical cases) covering all of the major clinical specialties represented in Years 4
  and 5, with a specific emphasis on the pathological aspects of disease, and obstetrics and
  gynaecology and paediatrics.
- Clinical Exam: comprising simulated clinical encounter examination (SCEE) and objective structured clinical examination (OSCE) stations. The exam typically includes 12 stations, which are split equally between those testing aspects of Obstetrics and Gynaecology and those testing Paediatrics. This assessment comprises part of the Medical Licensing Assessment (MLA) Clinical and Professional Skills Assessment (CPSA) see Year 6 Assessment section for further details.

Students who fail Final MB Part II in the Easter Term, will receive remedial teaching and be reassessed in September/October of that year; if they fail the reassessment they will not be able to continue with the Clinical Course. In exceptional circumstances, and where mitigating circumstances have been declared, students may apply to the Faculty Board of Clinical Medicine for an exceptional third attempt. However, students will need to intermit from the course for an academic year whilst they make the case to the Board and await the outcome. If their request is approved, the examination would need to be taken and passed in the Easter Term, prior to rejoining the course and re-starting the year, in August.

#### Year 6 Assessments

# Elective Report

All students submit a report on their elective the purposes of which are to:

- Provide a detailed record of the elective period;
- Provide experience in presentation of considered written work;
- Contribute to data bank of elective opportunities for succeeding generations of students;
- Be assessed for 'best elective report' award.

#### Prescribing Safety Assessment

Students will take the National Prescribing Safety Assessment (PSA) exam during Year 6; this is an online exam and must be passed before the degrees of Bachelor of Medicine and Bachelor of Surgery can be awarded.

# Apprenticeship block

After Final MB Part III clinical examinations, there is a formal apprenticeship block where students work semi-independently under supervision of nominated consultants to deliver direct patient care in an inpatient environment. Satisfactory completion of this block involves sign-off of a handbook in which students complete several supervised learning events and in which both senior and junior mentors write a report. The Apprenticeship block must be satisfactorily completed before the degrees of Bachelor of Medicine and Bachelor of Surgery can be awarded.

#### National Medical Licensing Assessment (MLA)

The Medical Licensing Assessment (MLA) is a two-part assessment made up of an applied knowledge test (AKT) and a clinical and professional skills assessment (CPSA) which all students will need to pass as part of their degree. The MLA tests the core knowledge, skills and behaviours of doctors who want to practise in the UK and provides the assurance that anyone who obtains a UK medical degree has shown they can meet a common and consistent threshold for safe practice before they are licensed to practice. For students at UK medical schools, the assessment is led and delivered by medical schools and regulated by the General Medical Council (GMC).

The AKT and CPSA form part of the Final MB examinations, as described in these sections. As such, they are subject to the rules and regulations governing all Final MB examinations, as set out in the University's Statutes and Ordinances. This includes regulations around the timing of examinations, and the number of permitted sittings.

#### Final MB Part III

The Final MB Part III examination is designed to assess:

- Knowledge and experience of Medicine and Surgery in their widest sense
- Ability to apply that knowledge and experience to the management of patients
- Ability to communicate effectively with patients and to respect their autonomy
- Knowledge and experience of ethical and legal principles relevant to clinical medicine

Final MB Part III is divided into three components:

- Single Applied knowledge Test (AKT): this comprises two, 2 hour digitally delivered papers, comprising single best answer (SBA) questions covering all of the major clinical specialties represented in Years 4, 5 and 6 of the course. This assessment is the MLA AKT exam.
- Single Short Answer Question (SAQ) exam: a 2 hour written examination, comprising 5 or 6 short answer questions covering key aspects of public health, ethics and law as applied to medicine.
- Clinical Exam (CPSA): comprising simulated clinical encounter examination (SCEE) and objective structured clinical examination (OSCE) stations. The exam typically includes 14 stations, which are split equally between SCEE and OSCE format, and delivered in two separate circuits. This assessment represents a major component of the MLA CPSA.

Students who fail one or more of the Final MB Part III written components may resit later in the Lent Term in Year 6, and before the Final MB Part III Clinical Exams.

Students will be expected to repeat Year 6 and resit all Final MB Part III components if they fail:

- the clinical component at the first sitting in April/May
- a written component resit (if a request for an exceptional third attempt is granted)

For all examinations, performance is reported: 'Pass with Distinction'; 'Pass' or 'Fail'. Exceptional performance is also recognised by the award of prizes.

# **Programme requirements**

## Attendance requirements

Clinical medicine can only be learned through experience in a range of clinical environments. Clinical teachers guide students' patient-based learning, and this is supported by lectures, seminars and private study. Full attendance at clinical placements is required by the Clinical School and the General Medical Council; it is expected that students will attend all clinical placements and scheduled clinical teaching diligently, and students are trusted to take responsibility for their own learning and professional behaviour.

It is understood that illness and other factors mean that 100% attendance is not always possible. Nonetheless, there is a threshold of attendance beyond which the Clinical School needs to take action, for the purposes of both welfare monitoring and educational governance. In line with other UK medical schools,

the minimum threshold for attendance is 80% of the days of a clinical placement. There are various attendance monitoring processes in place at CUHFT and other regional hospitals, and students are expected to engage fully with these. These processes ensure that the School has the required data to identify inadequate attendance.

#### Attendance

Students should attend all timetabled teaching and other scheduled clinical activities. If students expect to be absent, they should notify their placement administrator in advance. Information about approved absence from the course (for example illness, compassionate leave, academic reasons, or discretionary leave) is available on the Welfare pages of the student VLE. Unsatisfactory attendance (due to fewer than 80% of days attended and/or poor engagement when present) will result in students failing the placement. In that situation, students will need to liaise with the placement lead to devise a plan to make up the missed experiences to the satisfaction of the placement lead and the Deanery team. Students need to pass all clinical placements and complete all coursework before sitting end-of-year exams each year.

#### Personal learning log

Students are expected to keep their own personal learning log, noting what clinical activities they have undertaken on a weekly basis and reflecting on their learning. Students must also record their attendance at core clinical teaching during R&I weeks. Random checks of student attendance logs will be made and regular head counts performed during R&I weeks.

#### Working Hours

The expectation is that students work 48 hours per week, which includes both clinical time and personal study. Students should expect to be doing clinical work every day and sometimes during the evenings and weekends. Students who are regularly absent from placements on Fridays will be given a Fail grade for that placement and required to do additional work to achieve a pass.

The following is a general guideline for required attendance at clinical placements:

• Monday - Friday 0900h - 1700h

Start times may be variable, and students should expect that on some placements their attendance is required before 0900h or after 1700h. Friday afternoons can be flexible. If clinical work such as Outpatients, theatre lists or consultant ward rounds on a student's firm or specialty are on Friday afternoons, then students must attend them. If there is no obvious learning opportunity available, students may use Friday afternoons for administration tasks, personal study, attending appointments etc.

# Throughout the Course

#### Placement Records

Specialty Directors/Undergraduate Specialty Tutors provide a report on each student at the end of a placement, their purpose is to:

- monitor attendance and performance information is held in a student's personal electronic record
- identify students with specific problems, ensuring that early action may be taken
- monitoring the quality of education provided

## Undergraduate Clinical Supervisor Reports

Colleges require Undergraduate Clinical Supervisors to provide termly reports on student progress; the Senior Tutor/Director of Studies refer any serious difficulties to the Clinical Dean.

# **Student Support**

The college tutorial system, Directors of Studies and University Counselling Service offer personal support and advice to students. In the Clinical School, the Clinical Dean and Sub-Deans, and all members of the Education Division team are always pleased to talk to students and to offer help and advice. There is a dedicated Welfare team within the School, and there are a number of welfare related resources on the clinical student VLE.

To support students who experience serious mental health difficulties, the Clinical School has set up and funds a rapid referral mental health service, through which students have fast access to a psychiatrist and to a psychologist, if required.

## **Managing Teaching Quality and Standards**

Opinions from students about teaching and educational facilities are actively sought throughout all courses and changes are made in response to the suggestions received.

## Placement Evaluation

At the end of most placements and course modules, students are invited to comment by completing online forms. Course organisers value feedback from students on the strengths and weaknesses of placements and hospitals. Many changes to courses and provision for students, have been made following student feedback.

## Committees

Courses are managed by formal and informal committees most of which have student representative members. Key committees are the Faculty Board of Clinical Medicine, Medical Education Committee, Clinical Education Quality Committee, Curriculum Committee, Assessment Committee, and Student/Staff Liaison Group.

#### Student Feedback

Students may raise any concerns, at any time during the course, with the Clinical Dean, Clinical Sub-deans (including Regional Sub-Deans), MB/PhD Programme Director, their Clinical Supervisors, College Director of Studies or the administrators either in the Education Division in the Clinical School, or in regional hospitals.

In addition, during each R & I week, representatives of the deanery and administrative team are available at the end of a dedicated session (the 'Feedback to Faculty' session) to answer questions from students; notes are taken and circulated to student representatives and the Chair of the Student/Staff Liaison Group.

## **Quality assurance**

There are various processes in place for monitoring placements. These include Quality Assurance visits at which students attached to the hospital at the time are invited to give feedback on all aspects of the provision of teaching and facilities. All teaching General Practices are visited on commencement of teaching and marked against a set of quality criteria; teaching quality is then regularly monitored.

#### Staff Development and Appraisal/Performance Review

All staff contributing to the education of students are encouraged to attend relevant training courses; there are regular reviews of their professional performance include their role as educators. The School provides an HEA accredited staff development programme (the Integrated Foundations of Medical Education) free of charge to all undergraduate educators. All junior doctors involved with the Undergraduate Clinical Supervisor programme are selected, inducted and appraised (through an annual appraisal process), as well as being invited to attend the School's HEA accredited staff development programme. Staff are invited to apply to study for the University's Postgraduate Certificate, Diploma, and Masters programmes in Medical Education, through the University's Institute of Continuing Education.

#### **Graduate Employability**

All students who successfully complete the course secure pre-registration Foundation posts; over 80 % secure their first choice of post.

The University's Careers Service maintains links with relevant employers and takes into account employer needs and opinions in the services which is provides for students. The Careers Service also allocates a Careers Adviser to each College, Faculty and Department to act as a point of contact.

# **Indicators of Quality**

The MBBChir completion rate is nearly 100 % with most students passing at first attempt; there are usually no more than one or two withdrawals from the course each year.

Cambridge students also have a good record of winning national prizes, bursaries and contributions to educational and research conferences within the UK and nationally.

Reports from external Examiners and Consultants who have supervised Student-selected Components and Electives are generally highly complimentary of student knowledge, performance and conduct.

Every effort has been made to ensure the accuracy of the information in this programme specification. At the time of publication, the programme specification has been approved by the relevant Faculty Board (or equivalent). Programme specifications are reviewed annually, however, during the course of the academical year, any approved changes to the programme will be communicated to enrolled students through email notification or publication in the *Reporter*. The relevant faculty or department will endeavour to update the programme specification accordingly, and prior to the start of the next academical year.

Further information about specifications and an archive of programme specifications for all awards of the University is available online at: https://www.camdata.admin.cam.ac.uk/