Institute of Medical Sciences
Postgraduate Medical Education
FOR EXPERIENCED MEDICAL PRACTITIONERS

Faculty of Health and Wellbeing

Canterbury Christ Church University
Canterbury Christ Church University is committed to promoting equality of opportunity, and diversity and widening participation. The University ensures that all members are valued for their qualities, skills, experience, abilities and contribution to the organisation in their learning.

All details are correct at time of printing but may be subject to change (November 2014). Please contact the University for the latest information.
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Contact us
Before applying please register your interest with the Programme Administrator, Allison Allen, medicalsciences@canterbury.ac.uk
For further information and to download an application form, international students should visit www.canterbury.ac.uk/international/howtoapply

General enquiries
t: 00 44 (0) 1634 894 600

Open Days
We run regular open events where you can visit the University and meet the lecturers. Find out more at www.canterbury.ac.uk/opendays

Connect with us
www.canterbury.ac.uk/social
www.canterbury.ac.uk/IMS
INTRODUCTION

Canterbury Christ Church University

A thriving and inspiring community

Canterbury Christ Church University has over the past years developed an international reputation for the development and delivery of high quality postgraduate medical education for both international and UK based doctors, building on this success the university has created the Institute of Medical Sciences - a major development building on the success of current post graduate medical education and research.

The Institute is led by world class medical and academic staff working at the cutting edge of medical education, innovation and research.

A fundamental aim for the Institute is to develop an international reputation for excellence in postgraduate medical education and research – an ambition that can only be achieved through the proactive support, guidance and successful achievement of those medical staff who choose to study or research with the University.

The Institute provides an invigorating, vibrant educational environment that encourages and drives students to achieve their FULL potential and success.

I would encourage you to visit our website to learn more about our work and aspirations for the future – then decide to join us to be part of an exciting future.

Debra Teasdale
Dean of the Faculty of Health and Wellbeing

“Our postgraduate medical education has proved very popular with international students who have travelled to the UK to gain new skills and expertise in rapidly expanding areas of medical practice. The University’s close association with NHS and private hospitals means students gain excellent exposure to UK clinical practice.”

Peter Milburn, Director of Postgraduate Medical Education
Canterbury Christ Church University
Medway Campus

Medway Campus is a welcoming and supportive community with a particular focus on health and social care education.

Students chose to study at the campus because of the extensive clinical training labs, thriving study environment, and proximity to London.

In addition to our University, the campus site is shared with two other universities which creates a lively and vibrant atmosphere.

Medway is the largest urban area in the South East, outside of London and one of the fastest growing and vibrant regeneration regions in the South East of England. The area has excellent transport networks and it is located just 42 minutes from London by high speed train.
Canterbury Christ Church University
Information for international students

Canterbury Christ Church University is proud to support international students from over 80 different countries.

We are a popular choice with international students not just because of our wide range of programmes, but also because we offer dedicated support for international students from application through to admission.

English language support classes and on-programme academic English support are available, and there is also a dedicated International Student Adviser in our Student Support and Guidance Department who can help with visa and immigration issues.

International students who have accepted a firm offer of a place at the University and request residential accommodation by the 31 July are offered accommodation for the first year of their programme. For more information visit [www.canterbury.ac.uk/accommodation](http://www.canterbury.ac.uk/accommodation)

Many of our full-time programmes are available to international students. Students from European Union countries can apply to join any of the programmes. Students from outside the EU (on a Tier 4 student visa*) can only study on programmes classified as full-time.

For more information visit [www.canterbury.ac.uk/international](http://www.canterbury.ac.uk/international)

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* At the time of printing, the UKBA states that all students requiring a Tier 4 visa must be at Level B2 of the Common European Framework of reference.

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**International Sponsorship Scheme**

Canterbury Christ Church University has been approved by the General Medical Council (GMC) to run an International Sponsorship Scheme for International Medical Graduates (IMGs). This means that IMGs can apply to the University to be sponsored to receive full GMC registration whilst undertaking either the MCh in Otorhinolaryngology or MCh in Minimally Invasive Surgery. For further information on the scheme, and IELTS score required, please refer to pages 23 - 25.

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**English language requirements**

All students must be competent in the English language to be successful in their studies, and will need to show evidence of proficiency by an International English Language Testing System (IELTS) result or other equivalent Secure English Language Test (SELT). It may be that school leaving certificates grades in English are sufficient; the international admissions staff can advise. However, due to ongoing changes in UKBA requirements relating to SELT, please also refer to the following website [www.ukba.homeoffice.gov.uk/visas-immigration/studying/adult-students](http://www.ukba.homeoffice.gov.uk/visas-immigration/studying/adult-students)

In the majority of cases, an overall IELTS score of 6.5 with 6.0 in writing is required, and a minimum of 5.5 in all other areas or equivalent. For students who do not achieve these scores we can offer Pre-sessional English for Academic Purposes and Study Preparation courses for an agreed period. We also offer a four week Pre-sessional Study Preparation programme to all students progressing on to our postgraduate programmes.

The University is a well-established British Council accredited centre for English language teaching and organises programmes all year round.
The Faculty of Health and Wellbeing
Inspiring and innovative medical education

Our postgraduate medical education in Cardiology, Minimally Invasive Surgery and Otorhinolaryngology is designed to challenge you academically and provide you with enhanced skills and knowledge so that you can progress in your career and stand out as a leading practitioner.

We are proud to have world renowned surgical experts working alongside experienced academic staff to ensure you receive the very best educational experience.

Support from our staff is second to none. From your first contact with us, through to your graduation, we will provide you with all the guidance to help you succeed.

The University has a range of state-of-the-art clinical skills laboratories supporting both medical and non-medical clinical programmes. These include a skills lab designed to help develop technical skills associated with laparoscopic surgical practice, and a live video link with a local NHS Trust hospital for clinical observations.

As well as our Master programmes in Cardiology, Minimally Invasive Surgery and Otorhinolaryngology we work closely with the Kent, Surrey and Sussex Postgraduate Medical Deanery on projects related to General Practitioner training throughout Kent. We also work with a number of leading hospitals in London and the South East to provide clinical observation placements.

Programmes at a glance

- Postgraduate Certificate Cardiology
- Postgraduate Diploma Cardiology
- MSc Cardiology
- Postgraduate Certificate Minimally Invasive Surgery
- Postgraduate Diploma Minimally Invasive Surgery
- Postgraduate Diploma Minimally Invasive Surgery
- MCh Minimally Invasive Surgery
- Postgraduate Certificate Otorhinolaryngology
- Postgraduate Diploma Otorhinolaryngology
- MCh Otorhinolaryngology
Cardiology

Who is the programme aimed at?

This programme is designed for medical practitioners who wish to enhance their knowledge and skills in Cardiology.

The teaching team, which includes a number of internationally renowned speakers and consultant cardiologists, have specialist knowledge and research interests in the range of subject areas offered.

During the programme lectures, seminars and journal clubs will take place at Canterbury Christ Church University’s Medway Campus (30 minutes from London). Observation of clinical procedures and imaging modalities will take place at a major London teaching hospital during three separate periods of one week.

This flexible programme, based in the UK, can be completed on a full-time or part-time basis and includes the option to exit with a Postgraduate Diploma (PgD) or Postgraduate Certificate (PgC). It is also possible to undertake single modules as standalone elements.

The full-time programme consists of six taught PgD modules (each module carries 20 M level credit points) that are intended to be studied in the first two terms, followed by a three module dissertation (60 M level credits). To be awarded the MSc Cardiology students are normally expected to complete the PgD aspects of the programme in nine months followed by the Research Approaches and Methods (RAM) module and the Dissertation/Project.

Why choose MSc Cardiology at Canterbury Christ Church University?

Our programme

- Provides opportunities for one to one discussions on matters related to the programme as well as career advice;
- Delivers up-to-date knowledge on most clinical cardiology topics as well as subspecialties;
- Provides a clear evidence based approach to common clinical problems and syndromes;
- Highlights national and international guidelines and discusses their implementation;
- Involves weekly sessions on clinical difficult/rare cases and provides structured protocols for patient management;
- Includes a weekly journal club where recent clinical trials are discussed and learnt lessons highlighted;
- Involves an opportunity for students to complete a research project to gain experience in a topic of particular interest to them. This is based on reading, data collection and regular discussions with an appointed supervisor;
- Involves dedicated sessions on clinical trials design and organisation which help students to understand the principles of evidence based medicine;
- Provides a unique opportunity to expose candidates to European cardiology, highlighting recent advances and state of the art knowledge and technical developments;
- Provides an opportunity for candidates to observe various cardiology investigations at a world class heart centre;
- Provides an opportunity for long dedicated private study time.
The aims of the programme

- To provide clinicians with an advanced educational experience which will encourage critical and rigorous analysis of the literature, research evidence, documents, policies, guidelines and codes as they relate to advanced cardiological practice;
- To develop a conceptual understanding that enables you to evaluate critically current professional issues and the wider legal and ethical contexts within which cardiologists function;
- To enable you to complete, by independent study, a dissertation or systematic review which demonstrates a critical understanding and application of research methods and issues in a particular topic of the student’s interest in cardiology.

The teaching team

The programme is organised and delivered by Professors and Consultant Cardiologists, many of whom are internationally renowned experts, who have extensive clinical and academic experience.

Programme Director: Professor Michael Henein

Professor Henein is Director of the MSc Cardiology programme at Canterbury Christ Church University and Professor of Cardiology of Umeå University, Sweden. He is a senior consultant cardiologist in both Sweden and England, and has published over 250 papers and books and lectured worldwide. Professor Henein has a special interest in non-invasive cardiology and ground breaking research in cardiac physiology and disease prevention.

Programme Director: Professor Andrew Owen

Professor Andrew Owen (PhD, FRCP, FESC) is the Co-Director of the MSc Cardiology programme at Canterbury Christ Church University and consultant cardiologist. Professor Owen has a special interest in heart failure, cardiomyopathies and the application of clinical trial results to clinical practice.

Examples of supporting academics include:

- Professor William McKenna - Consultant Cardiologist, University College London Hospital
- Dr Wei Li - Adult Congenital Cardiologist, Royal Brompton Hospital
- Professor Margaret Hodson, Royal Brompton Hospital
- Dr Ashraf Khir - Institute of Bioengineering, Brunel University
- Dr Chiara Bucciarelli-Ducci - Consultant Senior Lecturer, Bristol Heart Institute
- Dr Chris Travill, Luton and Dunstable Hospital
# Cardiology

## Modules

The programme consists of nine modules (all offered at Masters level) with each module attracting 20 credits. The modules are completed over three terms.

To be awarded the MSc Cardiology, you must successfully complete the PgD/PgC (modules 1 - 6) and then progress to complete the research modules (7 & 8).

**Module 1 - General cardiology**

- Epidemiology of coronary artery disease
- Risk factors and prevention of coronary artery disease
- Cardiac rehabilitation
- Athletic training and the heart
- Heart disease and pregnancy
- Non cardiac surgery in the patient with heart disease
- Hyperlipidaemia
- Medical statistics
- Psychosocial aspects of cardiac conditions
- Orientation to study at HE Level 4
- Legal and ethical considerations
- Clinical trials

**Module 2 - Ischaemic heart disease**

- Angina
- Acute coronary syndromes
- PCI
- Cardiac catheterisation
- Non-invasive cardiac investigation; echocardiography, myocardial perfusion tomography, cardiac magnetic resonance, multislice coronary CT, PET scanning and exercise ECG testing
- Coronary artery bypass surgery; off pump and on pump
- Cardiac anaesthesia
- Post-operative cardiac care

**Module 3 - Cardiovascular imaging**

- Echocardiography
- Myocardial perfusion
- Conventional angiography
- Cardiac magnetic resonance
- CT coronary calcification and angiography

**Module 4 - Heart failure and the cardiomyopathies**

- Epidemiology of heart failure
- Types of heart failure; systolic and diastolic
- Pathophysiology of heart failure
- The cardiomyopathies
- Mitral regurgitation and heart failure
- Medical treatment
- Electrical treatment
- Surgical treatment
- Cardiac assist devices
- Heart transplantations
- Pericardial disease
- Ischaemic cardiomyopathy

**Module 5 - Valvular heart disease and the great vessels**

- Congenital heart disease
- Rheumatic heart disease
- Degenerative valve disease
- Artificial valve disease
- Endocarditis
- Diseases of the aorta and pulmonary arteries
Module 6 - Dysrhythmias and syncope
- Atrial fibrillation and flutter
- Ventricular tachycardias
- Re-entry tachycardias
- Syncope

Module 7 - Research Approaches & Methods (RAM)

Module 8 - Research Dissertation/Project
The aim of this module is to enable students to plan and manage a piece of work which demonstrates a critical understanding of the processes undertaken in order to produce a dissertation/project of professional relevance with appropriate academic rigour. The dissertation/project may be an empirical research study, a critical evaluation of practice/literature review or a systematic review.

Assessment
Assessment is based on:
- Final examinations in the form of written short answer questions, which will be held at the end of terms one and two, covering the topics studied in each of the first six modules
- A dissertation which must be submitted by the end of September for internal and external marking

Final results will be issued before Christmas and there will be a graduation ceremony in the local Cathedral in the following year.

Entry requirements
In order to apply you must be a qualified medical practitioner with a minimum of one year post qualification clinical experience.

The Admissions Department at Canterbury Christ Church University will check all international applications in terms of:
- a) Equivalence of qualifications (by using NARIC)
- b) English Language Level IELTS score of 6.5 (with minimum 6.0 in writing) or equivalent

Fees
For details of fees visit: [www.canterbury.ac.uk/funding-your-degree](http://www.canterbury.ac.uk/funding-your-degree) or contact the Programme Administrator, Allison Allen, Email: medicalsciences@canterbury.ac.uk

How to apply
Before applying please register your interest with the Programme Administrator, Allison Allen, medicalsciences@canterbury.ac.uk

International students should visit the International Office website for further information and to download an application form [www.canterbury.ac.uk/international/howtoapply](http://www.canterbury.ac.uk/international/howtoapply)

UK/EU students should request an application form by contacting us:
t: 01634 894 600   e: medicalsciences@canterbury.ac.uk
Minimally Invasive Surgery
with specialist pathways in: General Surgery, Gynaecology, Orthopaedics, Urology

Who is the programme aimed at?

The MCh Minimally Invasive Surgery programme is for qualified and registered medical practitioners with a minimum of 3 years post qualification clinical experience. It is one of the few programmes in the UK with the option to study a full MCh in Minimally Invasive Surgery and with guidance from world renowned leaders in the field of advancing laparoscopic surgical techniques.

The flexible programme is designed to enable you to develop your interest and practical skills in Minimally Invasive Surgery (MIS) and undertake specialist modules in general surgery, gynaecology, orthopaedics or urology. There is the option of obtaining a PgCert, PgDip or MCh.

The teaching team includes a number of internationally renowned experts who have specialist knowledge and research interests in the range of subject areas offered. The team is led by Professor Matin Sheriff, Consultant Urological and Laparoscopic Surgeon and Professor Anan Shetty, Consultant Orthopaedic Surgeon.

During the programme there will be lectures, seminars and journal clubs taking place at Canterbury Christ Church University’s Medway Campus (30 minutes from London). Three clinical attachment periods, each being of two week duration, are also included.

The programme, based in the UK, is a full-time programme and includes the option to exit with a Postgraduate Diploma (PgD) or Postgraduate Certificate (PgC).

The programme consists of five taught PgD modules and the ‘Research Approaches & Methods (RAM)’ module (each module carries 20 M level credit points) that are intended to be studied in the first two terms. This is followed by a three module dissertation/project (60 M level credits). To be awarded the MCh MIS students are normally expected to complete the PgD aspects of the programme in nine months followed by the three module dissertation.

Why choose MCh Minimally Invasive Surgery at Canterbury Christ Church University?

The programme is open to both UK and non-UK applicants who, on completion of the MCh, would either be in a stronger position to apply for posts and/or further specialised training within the UK or return to their own country to progress their careers. It is anticipated that you may wish to take the MCh rather than an MD, as is currently usual practice for newly qualified medical practitioners.
Our programme

- Delivers up-to-date knowledge on MIS (Minimally Invasive Surgery) topics as well as subspecialties;
- Offers the opportunity to develop practical skills and expertise in the MIS clinical skills laboratory;
- Provides a clear evidence-based approach to common clinical problems and procedures;
- Highlights national and international guidelines and discusses their implementation;
- Involves weekly sessions on difficult/rare clinical cases and provides structured protocols for patient management;
- Provides opportunities for one-to-one discussions on matters related to the programme as well as career advice;
- Includes a weekly journal club where recent clinical trials are discussed and learnt lessons highlighted;
- Involves an opportunity for you to complete a research project to gain experience in a topic of particular interest. This is based on reading, data collection and regular discussions with an appointed supervisor;
- Involves dedicated sessions on clinical trial design and organisation, which helps you to understand the principles of evidence-based medicine;
- Provides an opportunity for you to observe various MIS investigations at leading centres of expertise;
- Provides an opportunity for long dedicated private study time.

The aims of the programme

- Provide clinicians with an advanced educational experience which will encourage critical and rigorous analysis of the literature, research evidence, policies and guidelines related to the Minimally Invasive Surgery practice;
- Provide clinicians with advanced understanding of anatomy and patho-physiology of MIS procedures;
- Improve knowledge of ergonomics and its application to MIS;
- Provide the opportunity to learn basic, intermediate and advanced level practical skills in MIS;
- Provide a better understanding of identification and management of complications associated with MIS procedures;
- Provide a better understanding of the impact of MIS procedures on the healthcare economy;
- To enable you to complete, by independent study, a dissertation or systematic review which demonstrates a critical understanding and application of research methods and issues in MIS.
The teaching team

The programme is organised and delivered by Professors and Consultants, many of whom are internationally renowned experts, who have extensive clinical and academic experience:

**Programme Director:** Professor M Sheriff, Consultant Urological Surgeon, Medway Maritime Hospital, Kent

Professor Sheriff introduced laparoscopic radical prostatectomy in Kent, followed recently by laparoscopic radical cystectomy. Currently only 1000 of these procedures have been performed worldwide, and Medway NHS Foundation Trust Hospital (MFT), where Professor Sheriff is a leading specialist, is one of only five centres in the UK to offer these procedures. He is also the Lead Cancer Surgeon and Lead for West Kent Urology Cancer Centre at the hospital, and successfully led the regional bid for the for the Cancer Centre at MFT and now heads its implementation.

**Professor H Ahmed,** Consultant Obstetrician and Gynaecological Surgeon, Medway Maritime Hospital, Kent

Professor Ahmed has been a consultant for over 17 years and is the Divisional Director for Women’s and Children’s Health at Medway NHS Foundation Trust. He is a graduate of Imperial Medical Schools and obtained training at the John Radcliffe in Oxford and Guy’s and St Thomas’ in London.

Professor Ahmed offers the whole repertoire of keyhole surgical techniques which have revolutionised care for women. He is a founding director of MISTIK (Minimally Invasive Surgery Teaching in Kent), a not-for-profit organisation committed to training the keyhole surgeons of the future. Professor Ahmed is also a visiting lecturer at the University of Surrey and the International Minimal Access Centre for Surgery.

**Mr Saif Ahmed,** Consultant Orthopaedic Surgeon, Medway Maritime Hospital, Kent

Mr Ahmed is a Consultant Orthopaedic Surgeon, with interest in Digital Technologies in Medicine, Limb reconstruction, Navigated Surgery and Tissue Engineering. He was involved in culturing the first use of chondrocytes in Kent. Mr Ahmed is also interested in computer programming and electronics, and has developed software for artificially intelligent clinical decision support systems. He is a founder member and Executive Committee Member of CAOSUK (the British Association of Computer Assisted Orthopaedic Surgery). An emerging technology is clinical application of 3D printing, and some of his research explores ways that desktop rapid prototyping can be used to produce instruments, implants and perhaps combine this technology with his interests in Tissue Engineering.

**Professor A Shetty,** Consultant Orthopaedic Surgeon, Spire Alexandra Hospital, Kent

Professor Shetty has pioneered navigational minimally invasive orthopaedic surgery and stem cell treatment. He also holds overseas professorships in recognition of his contribution to this area of work.

**Mr Bijayendra Singh,** Consultant Orthopaedic Surgeon, Medway Maritime Hospital, Kent

Mr Singh provides expertise in the diagnosis and treatment of common Upper Limb problems from shoulder to hand. He specialises in arthroscopic surgery of the upper limb and has a keen interest in treating sports injuries of the upper limb. He also carries out joint replacement surgery for hand, wrist, elbow and shoulder joints.

He has been awarded the ‘Mahatma Gandhi Pravasi Samman’ by the NRI welfare society. In 2013 he was awarded ‘The Best in Medical Field’ at the Annual British Indian Awards. Surgeons Edinburgh.

**Professor H Wegstapel,** Consultant General Surgeon, Medway Maritime Hospital, Kent

Professor Wegstapel trained in the UK as a general surgeon and gained specialist expertise in gastrointestinal and laparoscopic surgery. He is lead clinician for colorectal cancer surgery in Medway and is one of the leading laparoscopic colorectal surgeons in the country. He also trains fellow surgeons in these advanced techniques.
Modules

The programme consists of nine modules (all offered at Masters level) with each module attracting 20 credits. The modules are completed over three terms.

To be awarded the MCh MIS, you must successfully complete the PgD/PgC (modules 1 - 6) and then progress to complete the research dissertation modules (7 - 9).

Module 1 - Foundations of Clinical Practice

The module will describe the importance of the history of the development of specialist medical and surgical interventions. Analysis of how to set up a specialist clinical service, patient selection, ergonomics of the theatre environment, essential aspects of anaesthesia, and ways to avoid potential complications will also be discussed/debated. The concept of enhanced recovery pathway and the importance of effective team working will be analysed. The role of emergency clinical practice will be examined. Medical ethics and law as applied to modern medicine will also be considered. In addition, there will be analysis of deployment of new technologies into healthcare.

Module 2 - Specialist module

**GENERAL SURGERY PATHWAY**

**Upper Tract Gastrointestinal (GI) Diseases**

a) Upper GI endoscopy
   i. Indications, contraindications and complications of upper GI endoscopy
   ii. Tissue biopsy and handling
   iii. Interpretation of upper GI endoscopic findings
   iv. Technique for endoscopic haemostasis
   v. Overcoming upper GI endoscopic difficulties

b) Laparoscopic appendicectomy
c) Laparoscopic cholecystectomy
d) Laparoscopic nissen fundoplication
e) Bariatric surgery
f) Laparoscopic gastric resection
g) Complex laparoscopic upper GI procedures

**Colorectal Diseases**

a) Evolution of laparoscopic colorectal surgery
b) Lower GI endoscopy
c) Selection of patients and learning curve
d) Surgical anatomy
e) Key technical points
f) Laparoscopic hernia repairs
g) Laparoscopic right hemicolectomy for cancer
h) Laparoscopic left hemicolectomy for cancer
i) Laparoscopic low anterior resection
   TME (Total Mesorectal Excision)
j) Right hemicolectomy for Crohns
k) Left hemicolectomy for Diverticulitis
l) Reconstruction after colectomy
m) Current status of laparoscopic colorectal surgery
n) Management of complications
## Minimally Invasive Surgery

### General Surgery, Gynaecology, Orthopaedics, Urology

#### GYNAECOLOGY PATHWAY

- **Surgery for Benign Adnexal and Uterine Disease**
  - a) Benign adnexal disease: Ectopic gestation
  - b) Benign ovarian disease
  - c) Conception/contraceptive issues
  - d) Benign uterine disease:
    - i. Hysteroscopic techniques
    - ii. Ablative techniques
    - iii. Hysterectomy techniques
    - iv. Alternatives to hysterectomy
- **Pelvic floor dysfunction**
  - a) Anterior compartment prolapse
  - b) Posterior compartment prolapse
  - c) Apical prolapse
  - d) Lower urinary tract symptoms

#### ORTHOPAEDICS PATHWAY

- **Lower Limb Diseases**
  - a) Surgical anatomy of hip, knee, foot and ankle
  - b) Rationale of portal placement
  - c) Endoscopic assessment of:
    - i. Traumatic disorders
    - ii. Inflammatory disorders
    - iii. Degenerative disorders
  - d) Endoscopic management of meniscal tears (resection and repair)
  - e) Endoscopic assisted ligament reconstruction
  - f) Endoscopic assisted stabilisation of the joints
  - g) Endoscopic management of hip impingement
  - h) Minimally invasive joint arthroplasty

- **Upper Limb Diseases**
  - a) Surgical anatomy of shoulder, elbow and wrist
  - b) Rationale of portal placement
  - c) Endoscopic assessment of:
    - i. Traumatic disorders
    - ii. Inflammatory disorders
    - iii. Degenerative disorders
  - d) Endoscopic management of impingement syndrome
  - e) Endoscopic rotator cup repair
  - f) Minimally invasive joint arthroplasty

#### UROLOGY PATHWAY

- **Renal and Adrenal Diseases**
  - a) Laparoscopic simple nephrectomy
  - b) Hand assisted laparoscopic techniques (HAL)
  - c) Laparoscopic radical right and left nephrectomy
  - d) Laparoscopic right and left nephroureterectomy
  - e) Laparoscopic donor nephrectomy
  - f) Minimally invasive nephron sparing therapies
  - g) Laparoscopic pyeloplasty
  - h) Laparoscopic ureterolithotomy
  - i) Laparoscopic right and left adrenalectomy

- **Prostatic Diseases**
  - a) Laparoscopic enucleation of the prostate
  - b) Laparoscopic pelvic lymph node dissection
  - c) Laparoscopic radical transperitoneal prostatectomy
  - d) Laparoscopic radical retropubic prostatectomy
Module 3 - Specialist module

**GENERAL SURGERY PATHWAY**

<table>
<thead>
<tr>
<th>Hepatobiliary Diseases</th>
<th>Vascular Diseases</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Complex laparoscopic cholecystectomy</td>
<td>e) Laparoscopic hepatic resection</td>
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<tr>
<td>b) Endoscopic retrograde</td>
<td>f) Laparoscopic pancreatic resection</td>
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<tr>
<td>cholangiopancreatography</td>
<td>g) Laparoscopic Whipples procedure</td>
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<td>c) Laparoscopic common bile duct</td>
<td>h) Laparoscopic splenectomy</td>
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<td>exploration</td>
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<tr>
<td>d) Laparoscopic repairs of biliary fistula</td>
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<td></td>
<td>d) Techniques in management of aorto-iliac occlusive and aneurysmal diseases</td>
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<td></td>
<td>e) Endovascular aneurysm repair</td>
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</tbody>
</table>

**GYNAECOLOGY PATHWAY**

<table>
<thead>
<tr>
<th>Surgery for Advance Endometriosis and Adhesions</th>
<th>Surgery for Malignant Disease</th>
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<tbody>
<tr>
<td>a) Understanding patho-physiology</td>
<td>a) Cervical carcinoma</td>
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<tr>
<td>b) Endometrioma</td>
<td>b) Moderate/high grade disease of uterine corpus</td>
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<td></td>
<td>c) Malignant ovarian disease</td>
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<td></td>
<td>d) Rare gynaecological malignancies</td>
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</table>

**ORTHOPAEDICS PATHWAY**

<table>
<thead>
<tr>
<th>Diseases of the Spine</th>
<th>i. Inflammatory disorders</th>
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<tbody>
<tr>
<td>a) Surgical anatomy of spine</td>
<td>ii. Degenerative disorders</td>
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<tr>
<td>b) Diagnostic interventions and contrast imaging</td>
<td>d. Endoscopic microdiscectomy</td>
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<tr>
<td>c) Endoscopic assessment and biopsy of:</td>
<td>e) Kypoplasty</td>
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<tr>
<td>i. Traumatic disorders</td>
<td>f. Endoscopic assisted spinal stabilisation</td>
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<tr>
<td>Limb Reconstruction</td>
<td>f) Minimally invasive management of delayed union and non-union of fractures</td>
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<tr>
<td>a) Fracture classification</td>
<td>g) Minimally invasive surgery – limb lengthening</td>
</tr>
<tr>
<td>b) Endoscopic assisted periarticular and</td>
<td>h) Minimally invasive surgery – deformity correction</td>
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<tr>
<td>intraarticular fracture surgery</td>
<td></td>
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<tr>
<td>c) LISS-Less invasive plate fixation of fractures</td>
<td></td>
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<td>d) Closed nailing of long bone fractures</td>
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<tr>
<td>e) Fine wire stabilisation of fractures – anatomy of wire placement and technique of ring frame</td>
<td></td>
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</tbody>
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PROGRAMME INFORMATION IN DETAIL

MCh / PgDip / PgCert

Minimally Invasive Surgery

General Surgery, Gynaecology, Orthopaedics, Urology

UROLOGY PATHWAY

Bladder and Ureteric Diseases
- a) Laparoscopic excision of bladder diverticulum
- b) Laparoscopic ureteric re-implantation
- c) Laparoscopic clam ileocystoplasty
- d) Laparoscopic colposuspension

Testes and Retroperitoneal Diseases
- a) Laparoscopic orchidopexy
- b) Laparoscopic radical retroperitoneal lymph node dissection
- c) Laparoscopic excision of retroperitoneal lesions

Module 4 - Practical skills (basic/intermediate)

Structured Practical Teaching of Core Skills in MIS
- a) Camera and scope manipulation
- b) Abdominal access
- c) Insufflation and ergonomics
- d) Practical exercises in sharp and blunt dissection
- e) Clip and staple applications
- f) Use of monopolar, bipolar, harmonic, ligasure and other energy sources
- g) Looping, tissue extraction and port site closure

Module 5 - Practical skills (advanced)

Structured practical teaching of specialist skills in MIS
- a) Extracorporeal and intracorporeal suturing
- b) Presentation and rehearsal of a number of specialist MIS procedures including laparoscopic nephrectomy, prostatectomy, colectomy, hysterectomy, pelvic floor repairs etc
- c) Mock objective structured practical examination

Module 6 - Research Approaches & Methods (RAM)

Modules 7, 8 & 9 - Dissertation/Project

The aim of this module is to enable students to plan and manage a piece of work which demonstrates a critical understanding of the processes undertaken in order to produce a dissertation/project of professional relevance with appropriate academic rigour. The dissertation/project may be an empirical research study, a critical evaluation of practice/literature review or a systematic review.
Assessment

Various assessment methods are used appropriate to the module content:
- Module 1 - 4,000 word essay
- Module 2 - Oral presentation and 1,000 word written synopsis
- Module 3 - Poster presentation
- Modules 4 & 5 - Final examinations in the form of written short answer question and completing timed practical tasks
- Module 6 - an outline proposal of 1,500 words and a detailed analysis of 2,500 words
- Modules 7, 8 & 9 - Dissertation (to be submitted by the end of September for internal and external marking)

Entry requirements

In order to apply you must be a qualified and registered medical practitioner with a minimum of three years post qualification clinical experience.

The Admissions Department at Canterbury Christ Church University will check all international applications in terms of:
- a) Equivalence of qualifications (by using NARIC)
- b) English Language Level IELTS score of 6.5 (with minimum 6.0 in writing) or equivalent

Fees

For details of fees visit: [www.canterbury.ac.uk/funding-your-degree](http://www.canterbury.ac.uk/funding-your-degree) or contact the Programme Administrator, Allison Allen, [medicalsciences@canterbury.ac.uk](mailto:medicalsciences@canterbury.ac.uk)

How to apply

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International students should visit the International Office website for further information and to download an application form [www.canterbury.ac.uk/international](http://www.canterbury.ac.uk/international)

UK/EU students should request an application form by contacting us:
- t: 01634 894 600  e: [medicalsciences@canterbury.ac.uk](mailto:medicalsciences@canterbury.ac.uk)
Otorhinolaryngology

Who is the programme aimed at?

The Masters in Otorhinolaryngology is a unique, ground breaking, innovative programme developed in collaboration with leading, internationally renowned consultant otorhinolaryngologists.

The programme is designed to lead to a Masters in Surgery (MCh), Postgraduate Diploma (PgDip) or Postgraduate Certificate (PgCert) in Otorhinolaryngology.

The programme is aimed at qualified and registered medical practitioners with a minimum of two years post-qualification clinical experience. It offers the opportunity to develop and enhance your career in the rapidly changing field of otorhinolaryngology, enabled through a flexible full-time programme.

The programme offers the opportunity of obtaining a full MCh after completion of the six modules plus the dissertation (one year full-time), a Postgraduate Diploma after the completion of six modules, or Postgraduate Certificate after the completion of three modules.

The experienced and renowned teaching team is led by Mr Rahul Kanegaonkar, Consultant Otorhinolaryngologist.

Why choose MCh Otorhinolaryngology at Canterbury Christ Church University?

The programme is open to both UK and non-UK applicants who, on completion of the MCh would either be in a stronger position to apply for posts and/or further specialised training with the UK or return to their own country to progress their careers. It is anticipated that you may wish to take the MCh rather than an MD, as is currently usual practice for newly qualified medical practitioners.

Our programme

The programme delivers up to date knowledge on Otorhinolaryngology topics and includes the following:

- the opportunity to develop practical skills and expertise in the otorhinolaryngology clinical skills laboratory
- a clear evidence based approach to common clinical problems and procedures
- national and international guidelines and discuss their implementation
- difficult/rare clinical case studies and provides structured protocols for patient management
- opportunities for one-to-one discussions on matters related to the programme as well as career advice
- an opportunity to complete a research project to gain experience in a topic of particular interest
- an opportunity for you to observe various surgical investigations at leading centres of expertise
- an opportunity for dedicated private study time
The aims of the programme

- enable you to enhance a sound knowledge of, and increased autonomous mastery of specialised clinical skills;
- enable you to develop skills of systematic independent thinking and innovative clinical practice based on a comprehensive understanding of the underpinning evidence base;
- develop you, as an otorhinolaryngologist within the health care sector to become an education leader, collaborate with other healthcare professionals and promote team working;
- enable you to critically analyse and evaluate the evidence base of otorhinolaryngology care and make sound judgements on the application of the evidence in a clinical setting.

The teaching team

The programme is organised and delivered by Professors and Consultants, many of whom are internationally renowned experts, who have extensive clinical and academic experience.

Programme Director: Mr Rahul Kanegaonkar MBBS (Lon), BSc, MRCS, DLO, FRCS (ORL-HNS)
Consultant Ear, Nose & Throat Surgeon Medway Maritime Hospital, Kent
Rahul Kanegaonkar completed his undergraduate training in 1995 from University College London Medical School. He was also the recipient of the Maurice Elton Prize in Oncology and the FMR Walshe Prize in Neurology. His basic and higher surgical training was conducted in London principally at Guy’s and St Thomas’ Hospitals.

His specialist interests include Hearing and Ear surgery, and the treatment of balance disorders. He continues to undertake research that is presented internationally. He has published books on both ENT and Dizziness and Vertigo, and has been featured on BBC Radio 3 and 4, and BBC News 24. He is currently the Secretary of the British Balance Network. He is an Honorary Senior Lecturer at Canterbury Christ Church University and is the Programme Director for the MCh/PGDip/PGCert in Otorhinolaryngology.

Mr Yogesh Bajaj MBBS MS (ENT), DNB (ENT), DLO, MRCS, MD, FRCS (ORL-HNS)
Consultant Paediatric Otorhinolaryngologist, Barts & Royal London Hospitals
Mr Bajaj qualified from University of Delhi, India (1993) and completed his postgraduate training in E.N.T before moving to the UK in 2000. He trained as a Senior Registrar in Yorkshire. He was awarded MD (Clinical Research) from University College London in 2007 while working at Great Ormond Street Hospital for 24 months. He was awarded FRCS in E.N.T from Royal College of Surgeons in 2009. He underwent further sub-specialist training in all aspects of Paediatric ENT for another 12 months at Great Ormond Street Hospital, London.

Mr Paul Chatrath MA, MBBS, FRCS, MD
Consultant Rhinologist & Facial Plastic Surgeon, Barking, Havering & Redbridge Hospitals
Paul Chatrath graduated from Cambridge University and The London Hospital Medical College with distinctions in three subjects and Proxime Accessit to the University of London Gold Medal.

He completed his higher surgical training in ENT Surgery in London and now works as a consultant ENT surgeon with Barking Havering & Redbridge Hospitals NHS Trust - based at King George Hospital in Goodmayes and at Queen’s Hospital in Romford, Essex.

During his final years of training, Mr Chatrath completed a higher research degree (MD) in the diagnosis of benign versus malignant laryngeal pathology. He was also awarded the Lionel College & New York Travelling Fellowships by the Royal College of Surgeons, and travel grants by the Royal Society of Medicine and the Journal of Laryngology & Otology to pursue further training in specialist units in Chicago and Amsterdam.
The teaching team (continued)

Mr Francis Vaz MBBS (Lon), BSc, FRCS  
Consultant Head & Neck Surgeon, University College London Hospitals  
Mr Vaz is a Consultant ENT Surgeon who qualified from Guy's and St Thomas' Hospitals. He has trained in the South East of England and has undertaken Fellowship training in Australia bringing an international flavor to his practice. Mr Vaz has surgical interests across the spectrum of ENT with specialist interests in Head and Neck Cancer, sinus and snoring surgery together with paediatric ENT surgery.

Modules

The programme consists of nine modules (all offered at Masters level) with each module attracting 20 credits. The modules are completed over three terms.

To be awarded the MCh Otorhinolaryngology, you must successfully complete the PgD/PgC (modules 1-6) and then progress to complete the dissertation/project modules (7-9).

Module 1 - Foundations of Clinical Practice

The module will describe the importance of the history of the development of specialist medical and surgical interventions. Analysis of how to set up a specialist clinical service, patient selection, ergonomics of the theatre environment, essential aspects of anaesthesia, and ways to avoid potential complications will also be discussed/debated. The concept of enhanced recovery pathway and the importance of effective team working will be analysed. The role of emergency clinical practice will be examined. Medical ethics and law as applied to modern medicine will also be considered. In addition, there will be analysis of deployment of new technologies into healthcare services within the specialist areas of clinical practice.
Module 2 – Otology and Neuro-otology
Provide advanced theoretical understanding of the relevant anatomy and pathology-physiology of specialist Otology and Neuro-otology conditions

Otology:
- Hearing assessment
- Tympanic membrane perforation
- Middle ear effusion
- Eustachian tube dysfunction
- Otosclerosis
- Chronic suppurative otitis media
- Cholesteatoma
- Sudden sensorineural hearing loss
- Auditory rehabilitation

Neuro-otology:
- Assessment of the dizzy patient
- Benign paroxysmal positional vertigo
- Vestibular migraine
- Acute peripheral vestibular deficit
- Meniere’s disease
- Superior semicircular canal dehiscence
- Vestibular schwannoma

Module 3 – Paediatric Otorhinolaryngology
Provide advanced theoretical understanding and practical understanding of the relevant anatomy and pathology-physiology of the specialist Paediatric otolaryngology sub-specialities/conditions to include:

General paediatric otolaryngology
Airway/laryngology
Head and neck
Otology/audiology
Rhinology
Paediatric otorhinolaryngology syndromes
Related case studies

Module 4 – Rhinology – Facial Plastics
Provide advanced theoretical understanding and practical understanding of the relevant anatomy and pathology-physiology of conditions to cover:

Allergic Rhinitis
Nasal polyps
Chronic rhino sinusitis
Fungal sinus disease
Blocked nose – DNS
Nasal valve problems
Sinonasal malignancy
Nasal deformity
Aesthetic assessment of the nose and face
Facial pain
Prominent ears
Local skin flaps
Lesions
Principles of scar revision
MCh / PgDip / PgCert

Otorhinolaryngology

Module 5 – Head and Neck

Provide advanced theoretical understanding and practical understanding of the relevant anatomy and pathology-physiology of conditions to cover anatomy and clinical examination pertinent to:

- Head and neck
- Dysphagia causes, investigations and management
- Human papilloma virus and head and neck cancer
- Laryngeal cancer
- Naso pharyngeal cancer
- Neoplasms in the airway
- Tracheostomy
- Oropharyngeal cancer
- Salivary gland pathology
- Voice disorders
- Thyroid cancer

Module 6 – Research Assessment & Methods (RAM)

Modules 7, 8 & 9 – Dissertation/Project

Assessment

Various assessment methods are used appropriate to the module content:

- Module 1 - 4,000 word essay
- Modules 2 to 5 – Oral presentations and written case studies
- Module 6 – an outline proposal of 1,500 words and a detailed analysis of 2,500 words
- Modules 7,8 and 9 – Dissertation/Project of 18,000 words (to be submitted by the end of September for internal and external marking)

Entry requirements

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UK/EU students should request an application form by contacting us:

t: 01634 894 600 e: medicalsciences@canterbury.ac.uk
International Sponsorship Scheme for International Medical Graduates

Canterbury Christ Church University has been approved by the General Medical Council (GMC) to run an International Sponsorship Scheme for International Medical Graduates (IMGs). This means that IMGs can apply to the University to be sponsored to receive full GMC registration whilst undertaking either the MCh in Otorhinolaryngology or MCh in Minimally Invasive Surgery.

Section 21B of the Medical Act 1983 sets out the framework for granting registration to IMGs. Applicants for full registration must satisfy the Registrar of the GMC that they have the necessary knowledge, skills and experience to practise as a fully registered medical practitioner in the UK by either:

a) Passing the test conducted by the Professional and Linguistic Assessments Board (the PLAB test);
b) Sponsorship by an approved sponsor (International Sponsorship Scheme);
c) Award of approved postgraduate qualifications;
d) Eligibility for entry onto the GP or Specialist Register.

The International Sponsorship Scheme is appropriate for those doctors who are already some way advanced in their chosen speciality and who wish to pursue further specialist training in the UK and for whom taking the PLAB test may not be appropriate. These doctors will typically intend to return to their home countries at the end of the sponsored year to practice and disseminate the specialist skills they have attained.

Before granting registration to a sponsored doctor, the GMC must be satisfied that the doctor has been selected under quality assured arrangements which have been designed to safeguard the interests and safety of patients. These arrangements must be objective, robust and evidence based. As such, the GMC sets out the criteria for application, selection and monitoring. It is this criteria that has determined the process of the University’s International Sponsorship Scheme and subsequently been approved.

There are clear guidelines for IMGs to follow on the GMC’s website (www.gmc-uk.org). The University is identified as a sponsor organisation on their website.

The process for IMGs is outlined overleaf:
## INTERNATIONAL SPONSORSHIP SCHEME PROCESS

1. **IMG applicant completes International Sponsorship Scheme Initial Application Form**
   - attaches up to date and detailed CV and IELTS documents
   - (overall score of 7.5 with a minimum of 7 in each area)

2. **Applicant sends form to the Institute of Medical Sciences Administrator**
   - (medicalsciences@canterbury.ac.uk)

3. **Director of MCh Programme, Clinical Pathway Director; Programme Director and Principal Lecturer for the Institute of Medical Sciences consider initial application form**

4. **Applicant meets initial requirements?**
   - **YES**
     - **APPLICATION PROCEEDS**
     - Applicant to pay Canterbury Christ Church University fee
   - **NO**
     - **APPLICATION REJECTED**
     - Applicant given written feedback

5. **APPLICANT SENDS TO PGME ADMINISTRATOR:**
   - Evidence of Primary Medical Qualification
   - Evidence of previous and current Post Qualification Training in general clinical practice and in specialty relevant to MCh MIS or MCh Otorhinolaryngology this must include assessment of clinical competence – a transcript of programme to include modules/content/number of attempts to pass
   - Evidence of a portfolio/log book/work contract from all previous and current work placements
   - Evidence of research undertaken and publications
   - Evidence of having been engaged in medical practice for 3 out of last 5 years including most recent 12 months
   - Evidence of formal and regular appraisals of clinical skills and performance during each of work experiences
   - Proof of Identity (passport) – this can be a photocopy
   - Evidence of English Language proficiency documents
   - Certificate(s) of Good Standing
   - Evidence of financial support to ensure completion of MCh programme (1 year)
   - Names and Addresses of referees (from all past and current work placements) who will provide confidential reference on request
   - Completed University International Application form for admission to study

6. **STRUCTURED INTERVIEW VIA VIDEO CONFERENCE/SKYPE**
   - Candidate interviewed by: Programme Director (Clinical)
   - Director of the Institute of Medical Sciences; Clinical Supervisor for Appropriate Pathway;
   - Institute of Medical Sciences Principal Lecturer. In attendance: Institute of Medical Sciences Administrator
   - NB – Candidate to show copy of passport and photograph during interview
<table>
<thead>
<tr>
<th>YES</th>
<th>NO</th>
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<tbody>
<tr>
<td>Applicant meets requirements and successful at interview?</td>
<td>APPLICANT REJECTED given comprehensive written feedback</td>
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<tr>
<td>University issues applicant with International Sponsorship Scheme Certificate</td>
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<tr>
<td>Applicant initiates GMC online application (<a href="http://www.gmc-uk.org">www.gmc-uk.org</a>) and sends copy to Institute of Medical Sciences Administrator</td>
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<tr>
<td>University submits GMC International Sponsorship Scheme Certificate and copies of applicant’s documents (as above) to GMC</td>
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<tr>
<td>GMC issues confirmation to applicant and Canterbury Christ Church University of approval of registration subject to ID check and original documents</td>
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<tr>
<td>Applicant to apply for visa from home country</td>
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<tr>
<td>Applicant comes to UK: attends GMC Reception with original documents and receives GMC Registration Certificate</td>
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<tr>
<td>Candidate attends Canterbury Christ Church University</td>
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<tr>
<td>IMG undertakes:</td>
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<td>Canterbury Christ Church induction to programme</td>
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<tr>
<td>Structured induction programme to Trust and NHS</td>
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<td>Commences MCh in MIS or MCh in Otorhinolaryngology</td>
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**IMPORTANT:**
Candidates should note that GMC regulations state that you MUST be engaged in medical practice for three out of the last five years including the most recent 12 months. The 12 month rule starts at the point the application for registration with the GMC is made. Clinical attachments and observerships are not counted as medical practice. A maximum gap of only 5 weeks in a 12 month period is allowed. Therefore it is vital that the candidate continues to practice medically up until the time they leave their home country to come to the UK.