

# Postgraduate Medical Education

FOR EXPERIENCED MEDICAL PRACTITIONERS



Faculty of  
Health and Social Care



[www.canterbury.ac.uk/about/maps](http://www.canterbury.ac.uk/about/maps)



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 (June 2013).

Please contact the University for the latest information.

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Minimally Invasive Surgery (General Surgery)

Minimally Invasive Surgery (Gynaecology)

Minimally Invasive Surgery (Orthopaedics)

Minimally Invasive Surgery (Urology)

### Contact us

Before applying please register your interest with the Programme Administrator, [allison.allen@canterbury.ac.uk](mailto:allison.allen@canterbury.ac.uk)  
For further information and to download an application form, international students should visit [www.canterbury.ac.uk/international](http://www.canterbury.ac.uk/international)

### General enquiries

t: 00 44 (0) 1634 894 600

e: [medway-healthadmin@canterbury.ac.uk](mailto:medway-healthadmin@canterbury.ac.uk)

### 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](http://www.canterbury.ac.uk/opendays)

### Connect with us



[www.canterbury.ac.uk/social](http://www.canterbury.ac.uk/social)

## INTRODUCTION

Canterbury Christ Church University

## A thriving and inspiring community

Canterbury Christ Church is a modern university, immersed in culture, and with a strong reputation in delivering high quality education in health and social care.

Each year, the University attracts over 17,000 students from the UK and across the world, and this success has led to the growth of campuses across Kent in the south east of England, all with good links to London and Europe.

Our University offers a forward thinking and dynamic approach to teaching, learning and research. Much of our activity supports and

impacts on regional, national and international health and social care services.

The experience and expertise we have in education for the health and social care sector puts us amongst the leading universities in the south east of England, and we are continually investing in our students to offer the very best educational experience to support personal and career development.

Our evolving postgraduate medical education programmes, which are delivered at our Medway Campus, focus on the rapidly advancing areas within Cardiology and Minimally Invasive Surgery.

"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.



## INTRODUCTION

## 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)

\* 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.

### 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 Social Care

## Inspiring and innovative medical education

Our postgraduate medical education in Cardiology and Minimally Invasive Surgery 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 and Minimally Invasive Surgery, 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
- MCh Minimally Invasive Surgery





# Cardiology

## MSc / PgDip / PgCert

**Duration**  
1 year full-time  
2 or 3 years part-time

**Start date**  
October

**Location**  
Medway Campus

**Assessment**  
This will involve the use of exams, presentations and essays

✓ Suitable for international students

**Fees**  
For further information, visit  
[www.canterbury.ac.uk/studyhere](http://www.canterbury.ac.uk/studyhere)

**Find out more online**  
[www.canterbury.ac.uk/prospectus/cardiology](http://www.canterbury.ac.uk/prospectus/cardiology)

**Contact details**  
**Programme Administrator**  
Allison Allen  
t: 01634 894 479  
e: [allison.allen@canterbury.ac.uk](mailto:allison.allen@canterbury.ac.uk)

**Programme Director**  
Professor Michael Henein

## 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 three module dissertation.

## 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 200 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.

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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 at Ipswich Hospital. 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

Dr Ashraf Khir - Institute of Bioengineering, Brunel University

Dr Chiara Bucciarelli-Ducci - Consultant Senior Lecturer, Bristol Heart Institute

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

#### Module 2 - Ischaemic heart disease

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

#### Module 3 - Cardiovascular imaging

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

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

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

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

Congenital heart disease	Artificial valve disease
Rheumatic heart disease	Endocarditis
Degenerative valve disease	Diseases of the aorta and pulmonary arteries

## Module 6 - Dysrhythmias and syncope

Atrial fibrillation and flutter

Re-entry tachycardias

Ventricular tachycardias

Syncope

## Module 7 - Developing a research proposal

## Module 8 - Research Dissertation

### 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/studyhere](http://www.canterbury.ac.uk/studyhere) or contact the Programme Administrator Allison Allen. Email: [allison.allen@canterbury.ac.uk](mailto:allison.allen@canterbury.ac.uk)

### How to apply

Before applying please register your interest with the Programme Administrator, [allison.allen@canterbury.ac.uk](mailto:allison.allen@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](http://www.canterbury.ac.uk/international)

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

t: 01634 894 600 e: [medway-healthadmin@canterbury.ac.uk](mailto:medway-healthadmin@canterbury.ac.uk)

# Minimally Invasive Surgery

with specialist pathways in: General Surgery, Gynaecology, Orthopaedics, Urology

## MCh / PgDip / PgCert

### Duration

MCh - 1 year full-time

PgDip - 6 months full-time

PgCert - 9 months full-time

### Start date

October

### Location

Medway Campus

### Assessment

Practical examinations, oral presentations and written essays

✓ Suitable for international students

### Fees

For further information, visit [www.canterbury.ac.uk/studyhere](http://www.canterbury.ac.uk/studyhere)

### Find out more online

[www.canterbury.ac.uk/prospectus/mis](http://www.canterbury.ac.uk/prospectus/mis)

### Contact details

#### Programme Administrator

Allison Allen

t: 01634 894 479

e: [allison.allen@canterbury.ac.uk](mailto:allison.allen@canterbury.ac.uk)

#### Director of Postgraduate Medical Education

Peter Milburn

t: 01634 894 400

e: [peter.milburn@canterbury.ac.uk](mailto:peter.milburn@canterbury.ac.uk)

## 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 Orthopedic 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 'Developing a Research Proposal' 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 (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.



## PROGRAMME INFORMATION IN DETAIL

## 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.

## Minimally Invasive Surgery

### General Surgery, Gynaecology, Orthopaedics, Urology

#### 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:

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 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 H Wegstapel, Consultant General Surgeon, Medway Maritime Hospital, Kent  
Mr 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.

Professor H Ahmed, Consultant Obstetrician and Gynaecological Surgeon, Medway Maritime Hospital, Kent  
Mr Ahmed has special expertise in pelvic reconstructive surgery, led the process of an integrated continence care pathway and is Clinical Director for Women's Health.

#### 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 minimally invasive surgery

##### History of Laparoscopy

- |   |                              |
|---|------------------------------|
| a) Medical ethics, law and evidence base for MIS practice | c) Enhanced recovery pathway |
| b) Implementation of a laparoscopic service               |                              |

##### Preoperative Considerations

- |                           |                            |
|---------------------------|----------------------------|
| a) Laparoscopic equipment | d) Patient selection       |
| b) Energy sources         | e) Preoperative assessment |
| c) Theatre ergonomics     |                            |

### Intraoperative Considerations

- |  |                        |
|--|------------------------|
| a) Anaesthesia and patient positioning | c) Trocar placement    |
| b) Physiology of pneumoperitoneum      | d) Exiting the abdomen |

### Basic Laparoscopic Procedures

- |                           |                                |
|---------------------------|--------------------------------|
| a) Diagnostic laparoscopy | d) Haemorrhage and haemostasis |
| b) Biopsy                 | e) Exiting the abdomen         |
| c) Laparoscopic suturing  |                                |

### Postoperative Care and Complications

#### Emergency Laparoscopy

#### Robotic MIS

#### Three dimensional MIS

#### NOTES – Natural Orifice Transluminal Endoscopic Surgery

#### SILS – Single Incision Laparoscopic Surgery

#### Microrobotics (Nanosurgery)

## Module 2 - Specialist module

### GENERAL SURGERY PATHWAY

#### Upper Tract Gastrointestinal (GI) Diseases

- |   |   |
|---|---|
| a) Upper GI endoscopy   | b) Laparoscopic appendicectomy              |
| i. Indications, contraindications and complications of upper GI endoscopy | c) Laparoscopic cholecystectomy             |
| ii. Tissue biopsy and handling  | d) Laparoscopic nissen fundoplication       |
| iii. Interpretation of upper GI endoscopic findings                       | e) Bariatric surgery                        |
| iv. Technique for endoscopic haemostasis                                  | f) Laparoscopic gastric resection           |
| v. Overcoming upper GI endoscopic difficulties                            | g) Complex laparoscopic upper GI procedures |

#### Colorectal Diseases

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

## Minimally Invasive Surgery

### General Surgery, Gynaecology, Orthopaedics, Urology

#### GYNAECOLOGY PATHWAY

##### Surgery for Benign Adnexal and Uterine Disease

- |  |                                  |
|--|----------------------------------|
| a) Benign adnexal disease: Ectopic gestation | i. Hysteroscopic techniques      |
| b) Benign ovarian disease                    | ii. Ablative techniques          |
| c) Conception/contraceptive issues           | iii. Hysterectomy techniques     |
| d) Benign uterine disease:                   | iv. Alternatives to hysterectomy |

##### Pelvic floor dysfunction

- |                                   |                                 |
|-----------------------------------|---------------------------------|
| a) Anterior compartment prolapse  | c) Apical prolapse              |
| b) Posterior compartment prolapse | d) Lower urinary tract symptoms |

#### ORTHOPAEDICS PATHWAY

##### Lower Limb Diseases

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

##### Upper Limb Diseases

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

#### UROLOGY PATHWAY

##### Renal and Adrenal Diseases

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

##### Prostatic Diseases

- |   |  |
|---|--|
| a) Laparoscopic enucleation of the prostate           | d) Laparoscopic radical retropubic prostatectomy |
| b) Laparoscopic pelvic lymph node dissection          |  |
| c) Laparoscopic radical transperitoneal prostatectomy |  |



### Module 3 - Specialist module

#### GENERAL SURGERY PATHWAY

##### Hepatobiliary Diseases

- |   |                                      |
|---|--------------------------------------|
| a) Complex laparoscopic cholecystectomy           | e) Laparoscopic hepatic resection    |
| b) Endoscopic retrograde cholangiopanreatiography | f) Laparoscopic pancreatic resection |
| c) Laparoscopic common bile duct exploration      | g) Laparoscopic Whipples procedure   |
| d) Laparoscopic repairs of biliary fistula        | h) Laparoscopic splenectomy          |

##### Vascular Diseases

- |   |  |
|---|--|
| a) Role of laparoscopy in vascular surgery                            | d) Techniques in management of aorto-iliac occlusive and aneurysmal diseases |
| b) Laparoscopic suturing, instrument handling and new instrumentation | e) Endovascular aneurysm repair  |
| c) Totally laparoscopic aortobifemoral bypasses procedures            |  |

#### GYNAECOLOGY PATHWAY

##### Surgery for Advance Endometriosis and Adhesions

- |                                   |                                    |
|-----------------------------------|------------------------------------|
| a) Understanding patho-physiology | c) Deep infiltrative endometriosis |
| b) Endometrioma                   | d) Rectovaginal disease            |

##### Surgery for Malignant Disease

- |  |                                     |
|--|-------------------------------------|
| a) Cervical carcinoma                            | c) Malignant ovarian disease        |
| b) Moderate/high grade disease of uterine corpus | d) Rare gynaecological malignancies |

#### ORTHOPAEDICS PATHWAY

##### Diseases of the Spine

- |  |   |
|--|---|
| a) Surgical anatomy of spine                     | ii. Inflammatory disorders                  |
| b) Diagnostic interventions and contrast imaging | iii. Degenerative disorders                 |
| c) Endoscopic assessment and biopsy of:          | d) Endoscopic microdiscectomy               |
| i. Traumatic disorders                           | e) Kyoplasty                                |
|  | f) Endoscopic assisted spinal stabilisation |

##### Limb Reconstruction

- |   |  |
|---|--|
| a) Fracture classification  | f) Minimally invasive management of delayed union and non-union of fractures |
| b) Endoscopic assisted periarticular and intraarticular fracture surgery                        | g) Minimally invasive surgery – limb lengthening                             |
| c) LISS-Less invasive plate fixation of fractures   | h) Minimally invasive surgery – deformity correction                         |
| d) Closed nailing of long bone fractures  |  |
| e) Fine wire stabilisation of fractures – anatomy of wire placement and technique of ring frame |  |

## General Surgery, Gynaecology, Orthopaedics, Urology

## UROLOGY PATHWAY

## Bladder and Ureteric Diseases

- |  |   |
|--|---|
| a) Laparoscopic excision of bladder diverticulum | e) Laparoscopic sacrocolpopexy and pelvic floor repairs |
| b) Laparoscopic ureteric re-implantation         | f) Laparoscopic radical cystectomy and reconstruction   |
| c) Laparoscopic clam ileocystoplasty             |   |
| d) Laparoscopic colposuspension                  |   |

## Testes and Retroperitoneal Diseases

- |   |   |
|---|---|
| a) Laparoscopic orchidopexy                                   | c) Laparoscopic excision of retroperitoneal lesions |
| b) Laparoscopic radical retroperitoneal lymph node dissection |   |

## Module 4 - Practical skills (basic/intermediate)

## Structured Practical Teaching of Core Skills in MIS

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

## Module 5 - Practical skills (advanced)

## Structured practical teaching of specialist skills in MIS

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

## Module 6 - Developing a research proposal

## Modules 7, 8 &amp; 9 - Research Dissertation

Critical evaluation of professional practice or systematic review or empirical project or service improvement (18,000 words).

## 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 questions, which will be held at the end of terms one and two
- Module 6 - 4,000 word written proposal
- 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/studyhere](http://www.canterbury.ac.uk/studyhere) or contact the Programme Administrator Allison Allen. Email: [allison.allen@canterbury.ac.uk](mailto:allison.allen@canterbury.ac.uk)

## How to apply

Before applying please register your interest with the Programme Administrator, [allison.allen@canterbury.ac.uk](mailto:allison.allen@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](http://www.canterbury.ac.uk/international)

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

t: 01634 894 600 e: [medway-healthadmin@canterbury.ac.uk](mailto:medway-healthadmin@canterbury.ac.uk)

Faculty of Health and Social Care

Telephone 00 44 (0) 1634 894 600 Email [medway-healthadmin@canterbury.ac.uk](mailto:medway-healthadmin@canterbury.ac.uk)

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