

Central School Final FRCA Program 2017-18

Please note that the Study Days (written in Green) are held at the hosting Trust.
Registration is essential to attend and Study Leave applied for & secured. To register for these days, please email janet.coulson@uhsm.nhs.uk

All other tutorials are held in the Stanley Foulds Room, Anaesthetic Department, SRFT commencing at 09:30a.m.

	Subject	Lead	Tutor Source Hospital	Date Clashes	Host Venue
	TERM 1				
23/08/17	Tracheostomy	Kirk	NMGH		SRFT
30/08/17	No tutorial				SRFT
06/09/17	Paeds 1	R Morley	RMCH		RMCH
13/09/17	Middle Ear Surgery	Masheter	Bolton		SRFT
20/09/17	Head and Neck Ca	Hirani	NMGH		SRFT
27/09/17	Bronchoscopy	Bates	Bolton		SRFT
04/10/17	Chronic Pain	J Aduoken	NMGH		NMGH
11/10/17	Non Theatre	Eadsforth	SRFT		SRFT
18/10/17	Paeds 2	R Morley	RMCH		RMCH
25/10/17	Spines	C Carroll	SRFT		SRFT
01/11/17	Regional - Upper	Sharma	WWL	Changeover	SRFT
08/11/17	Cardiac (Full Day)	L Feddy	UHSM		UHSM
15/11/17	Neuro (Full Day)	M Jones	Preston		Preston
22/11/17	Thoracic (Half Day)	L Feddy	UHSM		UHSM
29/11/17	Paeds 3	R Morley	RMCH		RMCH
06/12/17	Regional - Lower	Darshan	Bolton		SRFT
13/12/17	Neuro Disease (Half Day)	J Sebastian	SRFT		SRFT
20/12/17	No Tutorial			Christmas Break	
27/12/17	No Tutorial			Christmas Break	
03/01/18	Trauma	J Butler	CMFT		SRFT
10/01/18	Ultrasound				SRFT
17/01/18	Vascular	Pichel	CMFT		CMFT *
24/01/18	Paeds 4	R Morley	RMCH		SRFT
31/01/18	Oesophagus Sx etc	Naisbitt	SRFT		SRFT
	TERM 2				
07/02/18	No Tutorial			Changeover	SRFT
14/02/18	Endocrine	Carroll	SRFT		SRFT
21/02/18	Transplant Surgery	???	CMFT		SRFT
28/02/18	Paeds 1	R Morley	RMCH		RMCH
07/03/18	Bariatric Surgery	O'Connor	SRFT		SRFT
14/03/18	Cardiac (Full Day)	L Feddy	UHSM		UHSM
21/03/18	Thoracic (Half Day)	L Feddy	UHSM		UHSM
28/03/18	Risk Scoring/CPET	Mallaber	CMFT		SRFT
04/04/18	Paeds 2	Morley	RMCH		RMCH
11/04/18	ERAS and haemodynamic monitoring	Watt	SRFT		SRFT
18/04/18	Neuro (Full Day)	J Sebastian	SRFT		SRFT
25/04/18	Obs - Concurrent Disease	Ochana	CMFT		SRFT
02/05/18	Neuro Disease (Half Day)	M Jones	Preston	Changeover	Preston
09/05/18	Obs - CMACE	Kimber-Craig	Bolton		SRFT
16/05/18	Acute Pain	Flatt	WWL		SRFT
23/05/18	Paeds 3	R Morley	RMCH		RMCH
13/06/18	Ophthalmology	Ryan	Bolton		SRFT

Central School Final FRCA Program 2017-18

06/06/18	Plastics/Burns	Kuruvilla	NMGH		SRFT
13/06/18	Statistics	Lalkhen	SRFT		SRFT
20/06/18	ICM - Renal	Bennington	CMFT		SRFT
27/06/18	Paeds 4	R Morley	RMCH		RMCH
04/07/18	ICM - Sepsis	Cochran	NMGH		SRFT
11/07/18	ICM - Respiratory	?			SRFT
18/07/18	Pancreas/Liver	Varshney	NMGH		SRFT
25/07/18	Airway Assessment	?	CMFT		

North/Central/South Tutorials

Central School Final FRCA Program 2017-18

Term 1 – 23/8/17 - 31/1/18

12 Tutorials

To cover:

Airway – 2 tutorials
Airway assessment
Tracheostomy/Laser Surgery

ENT – 3 tutorials
Middle Ear Surgery
Head and Neck Cancer/Emergencies
Bronchoscopy/Venturi/Fibreoptics/Helium/Jet Ventilation

Non Theatre – 1 tutorial

Orthopaedics – 1 tutorial

Regional – 3 tutorials
Upper Limb
Lower Limb
Ultrasound/Local Anaesthetics

Trauma – 1 tutorial

Vascular – 1 tutorial

Term 2 – 31/1/18 - 25/7/18

16 Tutorials

To cover:

General – 7 tutorials
Pancreatectomy/Liver Resection/Splenectomy
Oesophagectomy/One-Lung Ventilation Revision/Chemotherapy/Radiotherapy
Carcinoid/Phaeochromocytoma/Thyroid
Transplant Surgery
Bariatric Surgery
Risk Scoring/CPET
Enhanced Recovery/Haemodynamic Monitoring

Obstetrics – 2 tutorials
Concurrent disease
CMACE

Pain – 1 tutorial

Ophthalmology – 1 tutorial

Plastics/Burns – 1 tutorial

Statistics – 1 tutorial

ICM – 3 tutorials
Renal
Sepsis
Respiratory

Term 1

Airway Management

Airway assessment – including C-spine/MRI/CT/Flow-volume loops

- AM_IK_02 Discusses the identification and assessment of pathology in and around the airway, including
History and examination
Anaesthetic chart review
Interpretation of investigations such as lateral C-spine X-ray, cross sectional imaging of the upper airway (MRI/CT), flow volume loops
Discussion with surgeons
- EN_IK_09 Explains the use of specialised imaging techniques [CT, MRI] in planning anaesthesia and surgery for head and neck surgery
- AN_IK_05 Anatomy of the airway including anatomical knowledge relevant to the performance of fiberoptic intubation.

Laser Surgery and Tracheostomy – indications/anaesthetic principles/management of problems

Laser Surgery

- AM_IK_07 Describes the specialized airway techniques used for laser surgery in, or near, the airway
- EN_IK_05 Recalls/describes the characteristics of the lasers used for surgery and the circumstances in which they are used
- EN_IK_06 Recalls the hazards of laser surgery
- EN_IK_07 Recalls/describes the specialised airway techniques used for laser surgery in, or near, the airway

Tracheostomy

- AM_IK_04 Lists the indications for tracheostomy
- AM_IK_05 Outlines the anaesthetic principles for tracheostomy
- AM_IK_06 Describes the management of the obstructed/misplaced tracheostomy
- EN_IK_13 Describes the emergency management of the obstructed airway including tracheostomy
- EN_IK_14 Recalls the indications for tracheostomy
- EN_IK_15 Describes the principles of the care of the tracheostomy

ENT/Maxfax/Dental

Middle ear surgery – TIVA/Hypotensive anaesthesia/Anaesthetic management of - Bleeding tonsil/Epiglottitis/Croup/Foreign Bodies

- EN_IK_02 Recalls/explains the principles of anaesthesia for middle ear surgery, including use of TIVA and hypotensive techniques
- AN_IK_01 Relevant anatomy for understanding of surgical procedures
- EN_IK_11 Explains the principles of the recognition and appropriate management of acute ENT emergencies, including bleeding tonsils, epiglottitis, croup, and inhaled foreign body

Head and neck cancer/Emergencies – co-morbidities/pathophysiological changes

- EN_IK_03 Explains the principles of management of anaesthesia for major head and neck surgery and:
Recalls/describes the pathophysiological changes and co-morbidities associated with head and neck cancer
Identifies the particular requirements for acute maxillo-facial emergencies e.g. fractured mandible, intra-oral abscesses and other pathological causes of upper airway obstruction
- EN_IK_12 Describes appropriate emergency management of fractures of the face including Le Fort fractures and fractures of the mandible

Bronchoscopy/Venturi/Fibreoptic scope/Helium/Fibreoptic Scope

- EN_IK_08 Describes the safe use of equipment and airways devices used for surgery on and below the vocal chords, including bronchoscopes, Venturi devices and fibre-optic scopes
- AM_IK_01 Lists the risks associated with awake fibreoptic endotracheal intubation and describe the process of obtaining consent for this procedure
- AN_IK_05 Anatomy of the airway including anatomical knowledge relevant to the performance of fibreoptic intubation
- PC_IK_19 Principles of hygiene, including cleaning and sterilization of equipment, and care of fibreoptic instruments
- PC_IK_20 Principles of fibreoptic instruments
- AM_IK_13 Describes the principles of jet ventilation
- AM_IK_14 Recalls the principles underlying the use of helium
- EN_IK_16 Recalls/explains the principles of jet ventilation
- EN_IK_17 Recalls/explains the principles underlying the use of helium

Non-Theatre

ECT/MRI Scanner/Radiology

- DI_IK_05 Describes the specific physical and physiological effects of ECT
- DI_IK_06 Explains the rationale behind the choice of anaesthetic technique for ECT
- DI_IK_07 Discusses the physical and psychological needs of patients who present for ECT
- DI_IK_08 Discusses the place of the Mental Capacity Act in relation to the provision of ECT
- PC_IK_13 Principles of imaging: principle characteristics of medical imaging devices [MRI], including principles, construction, artefacts, bio-effects, hazards and safety
- PC_IK_14 Radiation protection

Orthopaedics

Spinal Surgery – Scoliosis surgery and neurophysiological monitoring/Spinal trauma and its complications/Blood conservation strategies

- OR_IK_02 Recalls/describes the principles of perioperative anaesthetic care for elective and emergency spinal surgery including but not exclusively:
Scoliosis surgery including the need for, and implications of, neurophysiological monitoring
Spinal trauma and the associated complications of spinal cord trauma
- PC_IK_04 Operative spinal cord monitoring
- PC_IK_23 Measurement of evoked potentials in the clinical situation
- PC_IK_08 Measurement of coagulation of the blood and interpretation of data
- OR_IK_04 Recalls/discusses blood conservation strategies that are used in orthopaedic surgery

Regional

Basic sciences – anatomy for upper limb

- RA_IK_01 Demonstrates understanding of basic sciences as applied to all regional anaesthetic blocks [Cross reference applied basic sciences]
- RA_IK_02 Recalls/discusses advantages and disadvantages, techniques and complications [including management] of a wide variety of blocks including, but not exclusively, major peripheral blocks of the limbs, some cranial nerve blocks and blocks used to treat chronic pain conditions [Cross ref pain medicine]
- AN_IK_04 Anatomy relevant to the regional anaesthetic techniques [central and peripheral blocks, including ophthalmic] as outlined in the regional anaesthesia section of the intermediate syllabus; includes anatomy as visualised using ultrasound imaging during regional anaesthesia

Basic sciences – anatomy for lower limb

- RA_IK_01 Demonstrates understanding of basic sciences as applied to all regional anaesthetic blocks [Cross reference applied basic sciences]
- RA_IK_02 Recalls/discusses advantages and disadvantages, techniques and complications [including management] of a wide variety of blocks including, but not exclusively, major peripheral blocks of the limbs, some cranial nerve blocks and blocks used to treat chronic pain conditions [Cross ref pain medicine]
- AN_IK_04 Anatomy relevant to the regional anaesthetic techniques [central and peripheral blocks, including ophthalmic] as outlined in the regional anaesthesia section of the intermediate syllabus; includes anatomy as visualised using ultrasound imaging during regional anaesthesia

Ultrasound/Local anaesthetics/Opioids/Additives/Administration

- RA_IK_05 Demonstrates an in-depth understanding of the principles of ultra sound guided nerve blocks including:
The principles of scanning including machine ergonomics, probe selection/handling and the use of acoustic couplant [ultrasound gel] to improve skin contact
The importance of the angle of insonation on visibility of structures [anisotropy] specifically related to nerves and tendons
The normal sonoanatomy of peripheral nerves and surrounding structures
The basic concepts of needling techniques relating to ultrasound guidance (in plane / out of plane)
Understanding and recognition of spread of local anaesthetic under ultrasound guidance, distinction between normal intraneural and intravascular injection
- RA_IK_03 Demonstrates understanding in the choice of local anaesthetic agents, opioids, use of additives and techniques of administration

Trauma and Stabilisation

Assessment/Management of Trauma/Electrical injuries/Drowning/Hypothermia/Poisoning

- MT_IK_05 Describes the initial assessment, management and resuscitation of patients with:
Severe burns
Electrical injuries
Drowning and near drowning
Hypothermia
- MT_IK_11 Discusses the principles of clinical management for stabilisation of patients with multiple injuries requiring inter-hospital transfer strategies used, how safe

Central School Final FRCA Program 2017-18

- transfer is undertaken, monitoring requirements and the options for modes of transfer [ATLS]
- PR_IK_02 Management of acute poisoning: including aspirin; paracetamol; opioids; aminophylline; digoxin; ecstasy and other social drugs; antidepressants; alcohol

Vascular

Aneurysms/Carotid/Sympathectomy

- VS_IK_01 Recalls/describes the cardiovascular physiology and pharmacology relevant to perioperative vascular surgery
- VS_IK_02 Lists the methods of assessment of the patient's functional cardiovascular capacity
- VS_IK_03 Explains the preoperative management of the patient with atherosclerotic disease
- VS_IK_04 Describes the perioperative management of the patient for major vascular surgery
- VS_IK_05 Describes the resuscitation and management of major vascular accidents including the management of ruptured aortic aneurysms
- VS_IK_06 Explains the management of patients for endovascular radiological procedures [e.g. Stenting] including anaesthesia in isolated locations [Cross reference non-theatre anaesthesia]
- VS_IK_07 Describes the management of elective carotid artery surgery with general or regional anaesthesia
- VS_IK_08 Explains the principles and anaesthetic implications of sympathectomy, including thoracoscopic procedures
- VS_IK_13 Recalls the pathophysiology of aortic cross-clamping and of renal protection strategies
- DI_IK_10 Describes the anaesthetic management of patients for endovascular procedures [Cross Ref vascular]
- AN_IK_01 Anatomy relevant for understanding of surgical procedures

Term 2

Gen/Gyn/Urol

Anaesthesia for

Pancreatic/Liver Resection/Splenectomy

- GU_IK_01 Recalls/describes the principles off the peri-operative management of the commoner complex cases including, but not exclusively:
Pancreatic and liver resection
- AN_IK_01 Relevant anatomy for understanding of surgical procedures
- PB_IK_16 Hepatic failure
- PB_IK_17 Jaundice
- GU_IK_01 Recalls/describes the principles off the peri-operative management of the commoner complex cases including, but not exclusively:
Splenectomy
- AN_IK_01 Relevant anatomy for understanding of surgical procedures

Oesophagectomy/One-Lung Ventilation/Chemotherapy/Radiotherapy and Anaesthesia

- GU_IK_01 Recalls/describes the principles off the peri-operative management of the commoner complex cases including, but not exclusively:
Oesophagectomy [including one lung ventilation]
- AN_IK_01 Relevant anatomy for understanding of surgical procedures
- CT_IK21 Describes the airway management of a patient undergoing one-lung ventilation and anaesthesia including placement of double lumen endobronchial tubes and bronchial blockers
- CT_IK_22 Recalls/explains the changes that occur during one-lung ventilation and the strategies to manage these changes

Central School Final FRCA Program 2017-18

- GU_IK_02 Explains the effects of chemotherapy/radiotherapy, and the implications for anaesthesia
- PR_IK_16 Therapeutics in pathologic states: problems associated with organ transplantation; anaesthetic relevance of drugs used in malignancy; therapy in acute and chronic respiratory distress
- PR_IK_16 Therapeutics in pathologic states: problems associated with organ transplantation; anaesthetic relevance of drugs used in malignancy; therapy in acute and chronic respiratory distress

Carcinoid/Phaeochromocytoma/Thyroid

- GU_IK_01 Recalls/describes the principles off the peri-operative management of the commoner complex cases including, but not exclusively:
Resection of neuroendocrine tumours [e.g. carcinoid and phaeochromocytoma]
- AN_IK_01 Relevant anatomy for understanding of surgical procedures
- PR_IK_07 Management of hypertension before anaesthesia, including acute management and phaeochromocytoma. Manipulation of blood pressure to assist surgery

Transplant Surgery – management of patients having/with transplants/Brain Stem Death/Organ Donation

- GU_IK_04 Recalls/ describes the ethical considerations of cadaveric and live-related organ donation for the donor [and relatives], recipient and society as a whole
- GU_IK_05 Describes the issues of anaesthesia for renal transplant surgery
- GU_IK_06 Explains the anaesthetic management of patients with transplanted organs for non-transplant surgery
- PR_IK_16 Therapeutics in pathologic states: problems associated with organ transplantation; anaesthetic relevance of drugs used in malignancy; therapy in acute and chronic respiratory distress
- MT_IK_09 Describes the specific ethical and ethnic issues associated with managing the multiply injured patient, including issues that relate to brain stem death and organ donation

Bariatric Surgery – including obstructive sleep apnoea

- GU_IK_08 Recalls/describes the anaesthetic implications of bariatric surgery
- AM_IK_08 Describes the causes, pathophysiology and management of obstructive sleep apnoea and the surgical procedures used to treat it
- EN_IK_04 Recalls/describes the causes, pathophysiology and management of obstructive sleep apnoea and the surgical procedures used to treat it
- PB_IK_37 Starvation/obesity
- PC_IK_18 Sleep studies - principles

Risk Scoring of patients/CPET

- GU_IK_11 Recalls / describes the principles of preoperative evaluation of patients at risk of post-operative morbidity, including risk stratification tools, for example scoring systems and measures of functional capacity [including cardiopulmonary exercise testing]
- PC_IK_02 Assessment of cardiac function, including exercise testing: METS, starir climbing, shuttle tests
- PC_IK_25 Anaesthetic and surgical outcome scoring systems; including Goldman, Detsky, APACHE, POSSUM, etc.

Enhanced Recovery/Haemodynamic monitoring

- GU_IK_09 Recalls/describes the principles of enhanced recovery programmes
- GU_IK_10 Recalls / describes the rationale and principles of perioperative haemodynamic management and optimisation

Central School Final FRCA Program 2017-18

PC_IK_11 Cardiac output measurement: interpretation and limitation of derived indices: PICO, LiDCO, bioimpedance, contour analysis

Obstetrics

Common concurrent diseases/Basic Sciences/Premature Delivery/Multiple Pregnancy/PDPH

OB_IK_01 Recalls/describes the influence of common concurrent medical diseases on pregnancy

AN_IK_09 Maternal and fetal anatomy relevant to the practice of obstetric anaesthesia

PB_IK_41 Physiology of normal and abnormal pregnancy, including physiology of labour and childbirth

OB_IK_02 Discusses the obstetric and anaesthetic management of a premature delivery

OB_IK_03 Discusses the obstetric and anaesthetic management of multiple pregnancy

OB_IK_07 Demonstrates understanding of the methods of treating post dural puncture headache

CMACE/Placenta Praevia/Amniotic Fluid Embolus

OB_IK_04 Explains the classification of placenta praevia and the associated risk to the patient

OB_IK_05 Recalls/describes the recognition and management of amniotic fluid embolus

OB_IK_08 Discusses common causes of maternal morbidity and mortality, including national reports

Pain

Assessment and management of – Acute Pain/Acute Non-surgical Pain

PM_IK_01 Describes the assessment and management of acute pain in all types of surgery

PM_IK_02 Describes the assessment and management of acute non surgical pain

AN_IK_02 Anatomy relevant to acute and chronic pain management, including the whole range of neural blockade techniques outlined in the pain management section of the intermediate syllabus

PR_IK_01 Analgesia: principles of analgesia including infusions, patient controlled analgesia; medications for chronic pain including antidepressants, anticonvulsants, antiarrhythmics; routes of administration including oral; sublingual; subcutaneous, IM; IV; inhalational analgesia, patient controlled analgesia, epidural; agents used for regional techniques and local blocks

PB_IK_27 Mechanisms of pain; somatic, visceral, neuropathic

Ophthalmic

Anaesthesia for – Cataract/Stabismus/Glaucoma/Vitreoretinal

OP_IK_01 Discusses the preoperative assessment of ophthalmic patients with particular reference to associated co-morbidities and how the care of high risk patients requiring ophthalmic surgery may be optimised

OP_IK_02 Recognises that a relatively large proportion of patients requiring ophthalmic surgery are elderly and understands their particular needs including, but not exclusively, the effects of physiological changes associated with ageing and altered pharmacological responses

Central School Final FRCA Program 2017-18

OP_IK_03	Recalls/discusses the choice of local or general anaesthetic techniques in relation to the patient and surgery including their advantages, disadvantages and indications with particular reference to some or all of the following: Cataract surgery Strabismus surgery Glaucoma surgery Vitreoretinal surgery Oculoplastic surgery
OP_IK_04	Recalls/describes the oculocardiac reflex, its treatment and prevention
OP_IK_05	Recalls/describes the action of anaesthetic drugs on the eye
OP_IK_06	Recalls the physiological mechanisms which control intraocular pressure
OP_IK_07	Recalls/discusses the drugs which may alter intraocular pressure
AN_IK_04	Anatomy relevant to the regional anaesthetic techniques [central and peripheral blocks, including ophthalmic] as outlined in the regional anaesthesia section of the intermediate syllabus; includes anatomy as visualised using ultrasound imaging during regional anaesthesia

Plastics/Burns

Free Flap Surgery/Pathophysiology of Burns/Airway Injury/Inhalational Injury Initial Management/Management of patients with burns undergoing procedures

PL_IK_01	Can explain the specific features of preoperative assessment of patients for major plastic surgery procedures
PL_IK_02	Explains and critically evaluates anaesthetic techniques appropriate for plastic surgical procedures including major reconstructive cases procedures
PL_IK_03	Explains the factors affecting tissue blood flow with respect to free-flap surgery
PL_IK_04	Describes methods for improving blood flow to the surgical field during plastic surgery
PL_IK_05	Describes the pathophysiology of burn injury including thermal airway injury and smoke inhalation
PL_IK_06	Describes the initial assessment and management of a patient with severe burns, including electrical & chemical burns
PL_IK_07	Explains the principles of anaesthetic management of burns patients for surgery including dressing changes, grafting and related procedures

Statistics

SM_IK_01	Explains the simple aspects of study design defining the outcome measures and the uncertainty of measuring them
SM_IK_02	Explains the difference between statistical and clinical significance
SM_IK_03	Recalls the limits of clinical trials
SM_IK_04	Recalls the basics of systemic review and its pitfalls
SM_IK_05	Recalls how to define a clinical research question
SM_IK_06	Explains the effects of bias
SM_IK_07	Recalls the use of controls, placebos, randomisation and blinding exclusion criteria
SM_IK_08	Explains statistical issues including sample size and ethical issues

Intensive Care Medicine

Renal

Intermediate

4.7	Initiates, manages and weans patients from renal replacement therapy
PB_IK_12	Assessment of renal function
PB_IK_13	Renal failure and its management
PC_IK_21	Principles of haemofiltration and renal support

Central School Final FRCA Program 2017-18

Sepsis

Basic

3.9 Recognises and manages the septic patient

4.2 Manages antimicrobial drug therapy

PR_IK_08 Antibiotics: principles of action, choice of drug. Antibiotic prophylaxis against surgical infection including subacute bacterial endocarditis. Therapy of bacterial, fungal and viral infections.

Respiratory – ARDS, etc

Basic

3.8 Recognises and manages the patient with acute lung injury syndromes

PB_IK_19 Disorders of respiratory mechanics, gas exchange and gas transport

PB_IK_21 Respiratory failure and ventilator support; consequences of positive pressure ventilation