

PROVISIONAL SOUTH SCHOOL FRCA TUTORIAL PROGRAMME

2019-2020 *(updated 15/08/19 by JC)*

Please note that the **Special Wednesdays** (written in bold) are held at the hosting Trust. Registration is essential to attend and study leave applied for and secured. To register for these days, please email janet.coulson@mft.nhs.uk
All other tutorials held in the Anaesthetic Seminar Room, Anaesthetic Department, Wythenshawe Hospital, starting at 09:30am.

Date	Topic	Lead / Tutor	Hospital (place of work of tutor)	Notes
28/08/19	Non-theatre	Briggs	Wythenshawe - MFT	
04/09/19	Paeds 1	R Morley	RMCH - MFT	
11/09/19	Bronchoscopy	Greig	Wythenshawe - MFT	
18/09/19	Head and Neck Cancer	Hirani	NMGH Kausar.Hirani@pat.nhs.uk	
25/09/19	Tracheostomy/Laser	McGrath	Wythenshawe - MFT	
02/10/19	Middle Ear Surgery	Allen	Wythenshawe - MFT	
09/10/19	Trauma	Tyrrell-Marsh	Oxford Road - MFT	
16/10/19	Paeds 2	R Morley	RMCH - MFT	
23/10/19	Orthopaedics	Hardy	SHH	
30/10/19	Regional - Upper	Conroy	Wythenshawe - MFT	
06/11/19	Regional - Lower	Chandra	SHH	
13/11/19	Neuro (Full Day)	M Jones	Preston	
20/11/19	Cardiac (Full day)	L Feddy	Wythenshawe - MFT	
27/11/19	Paeds 3	R Morley	RMCH - MFT	
04/12/19	Airway Assessment	Conlon	Oxford Road - MFT	
11/12/19	Neuro Disease (Half Day)	J Sebastian	SRFT	
18/12/19	Thoracic (Half Day)	L Feddy	Wythenshawe - MFT	
25/12/19	No Tutorial			Christmas
01/01/20	No Tutorial			New Year
08/01/20	Paeds 4	R Morley	RMCH - MFT	
15/01/20	Vascular	Bishop	Wythenshawe - MFT	
22/01/20	Oesophagectomy	Moore	Wythenshawe - MFT	
29/01/20	Carcinoid/Phaeo	S Smith	Wythenshawe - MFT	
05/02/20	No Tutorial			Change-over
12/02/20	Transplant	Bhattia	Oxford Road - MFT	
19/02/20	Paeds 1	R Morley	RMCH - MFT	
26/02/20	Bariatric	Brammar	Oldham Andrew.Brammar@pat.nhs.uk	
04/03/20	Risk Scoring/CPEX	Mallaber	Oxford Road - MFT	
11/03/20	ERAS	Nazir	SHH	
18/03/20	Obs Medical Disease	Peckitt	SHH	
25/03/20	Paed 2	R Morley	RMCH - MFT	
01/04/20	Obs CMACE	Howie	Oxford Road - MFT	
08/04/20	Cardiac (Full day)	L Feddy	Wythenshawe MFT	
15/04/20	Neuro (Full Day)	J Sebastian	SRFT	
22/04/20	Acute Pain		Wythenshawe - MFT	
29/04/20	Ophthalmology	Suprapaneni	Oldham Sridhar.Surapaneni@pat.nhs.uk	
06/05/20	Plastics/Burns	Maguire	Wythenshawe - MFT	
13/05/20	Paeds 3	R Morley	RMCH - MFT	
20/05/20	Neuro Disease (Half Day)	M Jones	Preston	

27/05/20	Statistics	Shelton	Wythenshawe - MFT	
03/06/20	ICU Renal	Bennington	Oxford Road - MFT	
10/06/20	ICU Sepsis	Hopper	Wythenshawe - MFT	
17/06/20	Paeds 4	R Morley	RMCH - MFT	
24/06/20	Thoracic (half day)	L Feddy	Wythenshawe MFT	
01/07/20	ICU Resp	Shakieh	SHH	
08/07/20	Pancreas/Spleen/Liver	TBC	Oxford Road - MFT	

North/South Tutorials

Term 1 - 21/08/19 - 29/1/20

14 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

General – 2 tutorials

Oesophagectomy/One-Lung Ventilation Revision/Chemotherapy/Radiotherapy

Carcinoid/Phaeochromocytoma/Thyroid

Term 2 - 12/2/20 - 24/7/19

14 Tutorials

To cover:

General – 5 tutorials

Pancreatectomy/Liver Resection/Splenectomy

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

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 the Le Fort fractures and fractures of the mandible

Bronchoscopy/Venturi/Fiberoptic scope/Helium/Fiberoptic 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 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

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
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

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

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, stair 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
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

Ophthalmic**Anaesthesia for – Cataract/Strabismus/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

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

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