

NORTH SCHOOL FINAL TUTORIAL PROGRAMME

Please note that the Specialist Study Days (written in Bold) 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 SEMINAR ROOMS, PRESTON OR BLACKBURN AS PER ROTA COMMENCING AT 09:30A.M.

	Subject	Lead	Hospital	Other Dates	Signature
23/08/17	Tracheostomy		Blackburn		
30/08/17	Airway Assessment		RPH		
06/09/17	Paeds 1	R Morley	RMCH		
13/09/17	Middle Ear Surgery		Blackpool		
20/09/17	Head and Neck Ca		Blackburn		
27/09/17	Bronchoscopy		Blackburn		
04/10/17	Chronic Pain	J Aduoken	NMGH		
11/10/17	Non Theatre		RPH		
18/10/17	Paeds 2	R Morley	RMCH		
25/10/17	Orthopaedics/Spines		RPH		
01/11/17	Regional - Upper		RLI		
08/11/17	Cardiac (Full Day)	L Feddy	UHSM		
15/11/17	Neuro (Full Day)	M Jones	Preston		
22/11/17	Thoracic (Half Day)	L Feddy	UHSM		
29/11/17	Paeds 3	R Morley	RMCH		
06/12/17	Regional - Lower		Blackpool		
13/12/17	Neuro Disease (Half Day)	J Sebastian	SRFT		
20/12/17	No Tutorial			Christmas Break	
27/12/17	No Tutorial			Christmas Break	
03/01/18	Trauma		RLI		
10/01/18	Ultrasound		Blackpool		
17/01/18	Vascular		RPH		
24/01/18	Paeds 4	R Morley	RMCH		
31/01/18	Oesophagus, etc		RPH		
07/02/18	No Tutorial			Changeover	
14/02/18	Carcinoid, etc		Blackpool		
21/02/18	Transplant Surgery		Blackburn		
28/02/18	Paeds 1	R Morley	RMCH		
07/03/18	Bariatric Surgery		Blackpool		
14/03/18	Cardiac (Full Day)	L Feddy	UHSM		
21/03/18	Thoracic (Half Day)	L Feddy	UHSM		
28/03/18	Risk Scoring/CPET		RPH		
04/04/18	Paeds 2	Morley	RMCH		
11/04/18	Enhanced Recovery		Blackburn		
18/04/18	Neuro (Full Day)	J Sebastian	SRFT		
25/04/18	Obs - Concurrent Disease		Blackpool		
02/05/18	Neuro Disease (Half Day)	M Jones	Preston		
09/05/18	Obs - CMACE		RLI		
16/05/18	Acute Pain		RPH		
23/05/18	Paeds 3	R Morley	RMCH		
30/05/18	Ophthalmology		RLI		
06/06/18	Plastics/Burns		RPH		
13/06/18	Statistics		Blackburn		
20/06/18	ICM - Renal		Blackpool		
27/06/18	Paeds 4	R Morley	RMCH		

04/07/18	ICM – Sepsis		RLI		
11/07/18	ICM – Respiratory		Blackburn		
18/07/18	Pancreas/Spleen		Blackburn		
25/07/18					

North/Central/South Tutorials

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 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

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 of 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, 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
PB_IK_27	Mechanisms of pain; somatic, visceral, neuropathic

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