



**WARWICKSHIRE**  
SCHOOL OF ANAESTHESIA

**Intermediate Level Training  
(ST3 & ST4)**

**CCT in Anaesthetics**

**2010 Curriculum**

**Guidebook**



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**Message from the Training Programme Director**

Hello,

This guide was initially developed by trainees from the Birmingham School to make navigating the Curriculum easier.

It does not replace the e-portfolio, but is to be used alongside it and serves as a guideline to the type of WPBA to be used as evidence.

Please contact me if you have any queries regarding your training.

A handwritten signature in black ink, appearing to read 'Bieker', with a horizontal line underneath.

Martina Bieker

[martina.Bieker@heartofengland.nhs.uk](mailto:martina.Bieker@heartofengland.nhs.uk)



## Contacts

Training Programme Director: Martina Bieker  
Birmingham Heartlands Hospital  
[martina.bieker@heartofengland.nhs.uk](mailto:martina.bieker@heartofengland.nhs.uk)

Hospital	College Tutor	Admin
University Hospital Coventry and Warwickshire (UHCW)	Andy Kelly <a href="mailto:andrew_kelly@mac.com">andrew_kelly@mac.com</a> Danha Ratidzo <a href="mailto:Ratidzo.Danha@uhcw.nhs.uk">Ratidzo.Danha@uhcw.nhs.uk</a>	
Birmingham Heartlands Hospital (BHH)	Nicola Osborn <a href="mailto:Nicola.osborn@heartofengland.nhs.uk">Nicola.osborn@heartofengland.nhs.uk</a> Ebrahim Hozefa <a href="mailto:hozefa.ebrahim@heartofengland.nhs.uk">hozefa.ebrahim@heartofengland.nhs.uk</a>	Jayne Cross <a href="mailto:Jayne.cross@heartofengland.nhs.uk">Jayne.cross@heartofengland.nhs.uk</a>
Good Hope Hospital Sutton Coldfield (GHH)	Naresh Sandur <a href="mailto:sandur.naresh@heartofengland.nhs.uk">sandur.naresh@heartofengland.nhs.uk</a>	Caroline Gardner <a href="mailto:caroline.f.gardner@heartofengland.nhs.uk">caroline.f.gardner@heartofengland.nhs.uk</a>
The Alexandra Hospital, Redditch (Red)	Cindy Persad <a href="mailto:Cindy.Persad@wrcsacute.nhs.uk">Cindy.Persad@wrcsacute.nhs.uk</a>	
George Elliott Hospital Nuneaton (GEH)	Kausik Dasgupta <a href="mailto:Kausik.Dasgupta@geh.nhs.uk">Kausik.Dasgupta@geh.nhs.uk</a>	
Warwick Hospital, Warwick (War)	Ratty Shanmugam <a href="mailto:Rathinavel.Shanmugam@swft.nhs.uk">Rathinavel.Shanmugam@swft.nhs.uk</a>	<a href="mailto:Anita.Turvey@swft.nhs.uk">Anita.Turvey@swft.nhs.uk</a> .  Phone: 01926495321.ext-4783.
Birmingham Children's Hospital (BCH)	Janet Stansfield <a href="mailto:Janet.Stansfield@bch.nhs.uk">Janet.Stansfield@bch.nhs.uk</a>	Sue Spargo <a href="mailto:Sue.Spargo@bch.nhs.uk">Sue.Spargo@bch.nhs.uk</a>

Warwickshire School of Anaesthesia Website: [www.wsoa.org](http://www.wsoa.org)

Training Programme Director for Core Training: Robin Correa ([robin.correa@uhcw.nhs.uk](mailto:robin.correa@uhcw.nhs.uk))

Training Programme Director for Intensive Care Training: Mamta Patel  
([mamta.patel@swbh.nhs.uk](mailto:mamta.patel@swbh.nhs.uk))



## Guidance

- Intermediate level training is divided into Essential and Optional Units of Training.
- As of August 2016, “Perioperative Medicine” becomes an Essential Unit of Training – those entering ST 3 and ST 5 in August 2016 **MUST** complete this – for trainees at other stages of their training it is optional.
- This guidebook sets out the requirements for satisfactory ‘Completion of Unit of Training’ (CUT) and the core clinical learning outcomes which are expected to be achieved.
- It is expected that for a CUT to be signed off the appropriate WBPAs for that module are completed, consultant feedback has been sought and logbook has been reviewed. Each unit will have a named lead in each trust you are working. It is that designated module lead who is required to sign the CUT form.
- All assessments should be completed using RCoA e-Portfolio.
- A Multi Source Feedback form should be completed annually on e-Portfolio.

## Educational Supervision Meetings

You will be allocated an educational supervisor each time you start in a trust. It is your responsibility to meet with them within the first few weeks of your placement. You are then required to have a formal meeting every three months until the end of your placement. If you work in more than one trust during a training year you need to complete an Interim Progress Report (IPR) each time you leave a trust, in the final trust you are at before your ARCP you need to complete an ESSR form.

### **ePortfolio requirements to document supervision.**

#### Yearly

- Declaration of health
- Declaration of probity
- Learning agreement
- ESSR form (complete prior to ARCP)
- MSF

#### Initial meeting with your supervisor

- Discuss/set PDP
- Upload copy of initial meeting with supervisor form

#### Three monthly until the end of your placement

- Review & sign off PDPs as appropriate
- Upload copy of meeting with supervisor form

#### End of placement

- Discuss/set PDP
- Form 5 (GMC Appraisal Document)
- Upload copy of final meeting with supervisor form
- HEPR if not the last trust you will work in before your next ARCP

## Units of Training

Unit of Training	Essential Unit	Optional Unit	Suggested Time for Completion (months)	Minimum number of clinical sessions (clinical session = half a day)	Suggested Hospital for Completion
Anaesthesia for neurosurgery, neuroradiology and neurocritical care	•		2	20	UHCW/QE
Cardiothoracic anaesthesia and cardiothoracic critical care	•		2	20	UHCW/BHH/QE
General duties (within this unit)	•		9		<b>Any but especially</b> UHCW, BHH
- Airway management			1		GHH
- Critical incidents			2		Any DGH
- Day surgery			2		UHCW, BHH
- General, urological and gynaecological surgery			2		Within ICM block
- Head, neck, maxillo-facial and dental surgery			1		Within ICM block
- Management of respiratory and cardiac arrest			1		Redditch
- Non-theatre					
- Orthopaedic surgery					
- <u>Perioperative medicine</u>					
- Regional					
- Sedation					Within ICM
- Transfer medicine					Within ICM, UHCW
- Trauma and stabilisation					
Intensive care medicine	•		3 months mandatory		Any
Obstetrics	•		2	20	Any
Paediatric	•		2	20	BCH
Pain medicine	•		2	20	Any
Ophthalmic		•			Any
Plastics / burns		•			Any
Vascular surgery		•			UHCW, BHH



## Courses

- Some individual Units of Training require completion of a relevant course or for a relevant course to be in date. For ease, below is a summary of such requirements.

<b>Unit of Training</b>	<b>Course</b>	<b>Completion</b>
Airway management	Difficult airway course	
Critical incidents	Simulator course	CUT form can be achieved either with direct clinical experience via the specified WPBAs and consultant feedback or by attendance at a suitable simulator course.
Management of respiratory and cardiac arrest	ALS	Mandatory or course within date of expiry
	APLS / EPLS	Mandatory or course within date of expiry
Transfer medicine	Transfer training course	
Trauma and stabilisation	ATLS or equivalent course	Only if you are not able to achieve the trauma competencies during your placements.



## Record of intermediate level units of training

Unit of training	Form received	Comments
<b>Anaesthesia for neurosurgery, neuroradiology and neurocritical care</b>		
<b>Cardiac/Thoracic</b>		
<b>Intensive care medicine</b>		
<b>Obstetrics</b>		
<b>Paediatric</b>		
<b>Pain medicine</b>		
<b>General duties</b>		
Airway management		
Critical incidents		
Day surgery		
General, urological and gynaecological surgery		
Head, neck, maxillo-facial and dental surgery		
Management of respiratory and cardiac arrest		
Non-theatre		
Orthopaedic surgery		
Perioperative medicine		
Regional		
Sedation		
Transfer medicine		
Trauma and stabilisation		
<b>Optional units</b>		
Ophthalmic		
Plastics/burns		
Vascular surgery		





**Anaesthesia for neurosurgery, neuroradiology and neurocritical care**

**Core Clinical Learning Outcomes**

1. Deliver safe perioperative anaesthetic care to uncomplicated ASA 1-3 adult patients undergoing non-complex elective intracranial and spinal surgery with direct supervision.
2. Deliver safe perioperative anaesthetic care to uncomplicated ASA 1-3 adult patients undergoing non-complex emergency surgery with distant (or indirect) supervision (e.g. insertion of V-P shunt/EVD).
3. Be an effective team member for resuscitation, stabilisation and transfer of adult patients with brain injury with distant supervision (this could also be completed during an ICM unit – see ICM training summary).

**Unit Requirements**

- Minimum of 20 clinical sessions.
- WPBA's as indicated.
- Consultant feedback (sought by the module lead from other neuro consultants)
- CUT form on e-Portfolio.

e-Portfolio WPBA	Index Case(s)	Minimum Number	Code
A-CEX	Craniotomy	1	NA_IS_03
	Shunt surgery		NA_IS_03
	Cervical and lumbar spinal surgery		NA_IS_03
	Emergency neurosurgery in acute head injuries		NA_IS_05
DOPS	Induction of GA with TCI propofol	1	NA_IS_04
	Safe patient positioning – prone, lateral (park bench)		NA_IS_06
	Manage emergence from anaesthesia in a smooth and controlled way		NA_IS_13
	Resuscitate, stabilise and transfer safely patients with a brain injury		NA_IS_07
CbD	Emergency case with indirect supervision	1	NA_IS_03
	Spinal surgery e.g. lumbar microdiscectomy, cervical laminectomy, anterior cervical discectomy		NA_IS_03
	Shunt surgery e.g. insertion of VP shunt, revision of VP shunt, insertion of LP shunt		NA_IS_03
	Neuroradiology e.g. emergency and elective imaging, interventional procedures		NA_IK_10



**Cardiothoracic Anaesthesia and Cardiothoracic Critical Care**

**Core Clinical Learning Outcomes**

- Deliver safe and effective perioperative anaesthetic care to patients undergoing elective coronary artery surgery and minor thoracic investigative procedures under direct supervision.

**Unit Requirements**

- Logbook of 10 pump cases.
- Minimum of 20 clinical sessions.
- WPBA's as indicated.
- Consultant feedback (sought by the module lead from other cardiac consultants)
- CUT form on e-Portfolio.

<b>e-Portfolio WPBA</b>	<b>Index Case(s)</b>	<b>Minimum Number</b>	<b>Code</b>
A-CEX	Coronary artery and/or valve surgery on cardio-pulmonary bypass	1	CT_IS_03
	Methods used to cool and re-warm patients during cardiac surgery, and the complications		CT_IK_11
	Indications for cardiac pacing and the different modes available		CT_IK_13
	Manage a patient undergoing one lung ventilation		CT_IS_14
DOPS	Establish anaesthesia including invasive arterial and central venous monitoring	1	CT_IS_05
	Insert a double lumen endobronchial tube		CT_IS_11
	Use of inotropes and vasodilators		CT_IS_06
	Forms postoperative care plans including postoperative analgesia and respiratory support		CT_IS_04
CbD	Coronary artery and/or valve surgery on cardio-pulmonary bypass	1	CT_IS_03
	Principles of cardiopulmonary bypass including the use of cardioplegia		CT_IK_02
	Post-cardiac surgery problems e.g. bleeding, cardiac tamponade (clinical signs and symptoms, and management)		CT_IK_09
	One lung ventilation e.g. changes that occur and the strategies to manage these changes		CT_IK_22



**Airway Management**

This unit may be completed as part of the 'Head, neck, maxillo-facial and dental surgery' unit of training.

**Core Clinical Learning Outcomes**

- To be able to demonstrate the ability to perform elective fiberoptic intubation, either for an awake or an anaesthetised patient, with local supervision.

**Unit Requirements**

- WPBA's as indicated.
- Consultant feedback (sought by the supervisor during general duties within the last six months)
- CUT form on e-Portfolio.

e-Portfolio WPBA	Index Case(s)	Minimum Number	Code
Certificate Uploaded	Difficult airway course	1	All
A-CEX	Management of case involving a difficult airway	1	AM_IK_03
	Anaesthetic principles for tracheostomy		AM_IK_05
	Risks and benefits of using various supraglottic airways for IPPV		AM_IK_10
	Safe use of equipment and airways devices used for surgery on and below the vocal cords		AM_IK_12
DOPS	Fiberoptic intubation with patient asleep or awake	1	AM_IS_01
	Teaching of basic airway manoeuvres, direct laryngoscopy and endotracheal intubation to novice students (e.g. nurses, CT1 anaesthetic trainees, paramedics, medical students)		AM_IS_02
CbD	Management of the obstructed/misplaced tracheostomy	1	AM_IK_06
	Specialised airway techniques used for laser surgery in, or near, the airway		AM_IK_07
	Discuss appropriate follow up of an unexpected difficult intubation		AM_IK_09
	Describe the principles of jet ventilation		AM_IK_13
ALMAT	Manage an operating list	1	All



**Critical Incidents**

**Core Clinical Learning Outcomes**

- To demonstrate leadership in the management of critical incidents as and when they arrive.
- To provide assistance/leadership to more inexperienced colleagues if called to assist in the management of critical incidents.
- To demonstrate leadership in ensuring good team work and communication to help reduce the risks of harm from critical incidents.

**Unit Requirements**

- Unit of training sign off can be achieved either with direct clinical experience via the specified WBPA's below, or by attendance at a suitable simulator course.
- Consultant feedback (sought by the supervisor during general duties within the last six months)
- CUT form on e-Portfolio.

<b>e-Portfolio WPBA</b>	<b>Index Case(s)</b>	<b>Minimum Number</b>	<b>Code</b>
Certificate Uploaded	Critical incident simulator course – this can be used as an alternative to the WPBAs below	As per guidance above	All
CbD	Discusses the importance of significant event analysis or root cause analysis to examine a locally reported incident	1	CI_IK_01
	Discusses the importance of regular practice of response protocols using simulation and their place in the development of team working and communication between professional groups		CI_IK_02



**Day Surgery**

**Core Clinical Learning Outcomes**

- Deliver safe perioperative anaesthetic care to ASA 1-3 patients having more extensive or specialized day surgery procedures with direct supervision.

**Unit Requirements**

- WPBA's as indicated.
- Consultant feedback (sought by the supervisor during general duties within the last six months)
- CUT form on e-Portfolio.

<b>e-Portfolio WPBA</b>	<b>Index Case(s)</b>	<b>Minimum Number</b>	<b>Code</b>
A-CEX	Knee arthroscopy	1	DS_IS_01
	Excision of lymph node		DS_IS_01
	Excision of breast lump		DS_IS_01
	Inguinal hernia repair		DS_IS_01
	Varicose vein surgery		DS_IS_01
CbD	Discuss the delivery of safe perioperative anaesthetic care for patients with significant co-morbidities e.g obese patients (BMI > 35), insulin dependent diabetics, significant cardiac and respiratory diseases, elderly patients	1	DS_IS_01
ALMAT	Manage an operating list	1	All



**General, Urological and Gynaecological Surgery (Incorporating Peri-Operative Care of the Elderly)**

**Core Clinical Learning Outcomes**

- Deliver safe perioperative anaesthetic care to complex ASA 1-3 adult patients requiring elective and emergency intra-abdominal surgery (both laparoscopic and open) with distant supervision.
- Manage a list with complex ASA 1-3 adult patients for elective and emergency surgery in all disciplines with distant supervision.

**Unit Requirements**

- WPBA's as indicated.
- Consultant feedback (sought by the supervisor during general duties within the last six months)
- CUT form on e-Portfolio.

e-Portfolio WPBA	Index Case(s)	Minimum Number	Code
A-CEX	Anaesthesia for colo-rectal surgery	1	GU_IK_01
	Laparoscopic surgery		GU_IK_01
	Commoner complex case e.g. oesophagectomy (including one lung ventilation), pancreatic and liver resection, resection of neuroendocrine tumours (e.g. carcinoid and phaeochromocytoma), splenectomy, resection of retroperitoneal masses (including management of pleural breach)		GU_IK_01
	Effects of chemotherapy/radiotherapy, and the implications for anaesthesia		GU_IK_02
CbD	Anaesthetic complications related to disturbance of fluid balance, oedema, and dehydration	1	GU_IK_07
	Anaesthetic implications of bariatric surgery		GU_IK_08
	Principles of enhanced recovery programmes		GU_IK_09
	Principles of perioperative haemodynamic management and optimisation		GU_IK_10
ALMAT	Manage an operating list with a mixture of ASA 1- 3 cases	1	GU_IS_04



**Head, Neck, Maxillo-Facial and Dental Surgery**

**Core Clinical Learning Outcomes**

- Deliver safe perioperative anaesthetic care to ASA 1-3 adult patients requiring routine and emergency non-complex minor/intermediate ENT and maxillo-facial surgery (including list management) under distant supervision.

**Unit Requirements**

- WPBA's as indicated.
- Consultant feedback (sought by the supervisor during general duties within the last six months)
- CUT form on e-Portfolio.

e-Portfolio WPBA	Index Case(s)	Minimum Number	Code
A-CEX	Middle ear surgery including hypotensive techniques	1	EN_IK_02
	Microlaryngoscopy including use of LASER		EN_IS_06
	Dental extraction		EN_IS_05
	Management of fractured jaw		EN_IS_07
DOPS	Manage the airway for laser surgery	1	EN_IS_06
	Manage the airway for laryngoscopy and micro-laryngeal surgery		EN_IS_06
	Manage induction of anaesthesia for and ENT emergency (bleeding tonsil, foreign body, stridor, abscess etc)		EN_IS_07
	Nasal intubation		EN_IS_03
CbD	Principles of anaesthesia for middle ear surgery, including use of TIVA and hypotensive techniques	1	EN_IK_02
	Pathophysiological changes and co-morbidities associated with head and neck cancer		EN_IK_03
	Emergency management of fractures of the face including le Fort fractures and fractures of the mandible		EN_IK_12
	Principles of the recognition and appropriate management of acute ENT emergencies, including bleeding tonsils, epiglottitis, croup, and inhaled foreign body		EN_IK_11
ALMAT	Manage an operating list	1	All



**Management of Respiratory and Cardiac Arrest in Adults and Children**

**Core Clinical Learning Outcomes**

- Is an effective member of the multi-disciplinary member of the resuscitation team and takes responsibility for the initial airway management.

**Unit Requirements**

- WPBA's as indicated.
- Consultant feedback (sought by the supervisor during general duties within the last six months)
- CUT form on e-Portfolio.

<b>e-Portfolio WPBA</b>	<b>Index Case(s)</b>	<b>Minimum Number</b>	<b>Code</b>
Certificate Uploaded	ALS	1	All
	APLS/EPLS		All
DOPS	Demonstrates leadership during resuscitation, including supporting less experienced members of the team	1	RC_IS_05
	Demonstrates ability to teach and assess basic level competencies		RC_IS_06
	Demonstrates ability to provide feedback to staff and relatives in post-resuscitation attempts debriefs		RC_IS_07
	Demonstrates the treatment of arrhythmias using drugs and cardioversion		RC_IS_02
CbD	Arrhythmias in the peri-arrest period	1	RC_IK_01
	Pharmacology of drugs used to treat common arrhythmias		RC_IK_02
	Therapeutic hypothermia after cardiac arrest		RC_IK_06
	Principles of safe inter-hospital transfer of the resuscitated patient		RC_IK_14





**Non-Theatre**

**Core Clinical Learning Outcomes**

- To deliver safe peri-procedure anaesthesia/sedation to adult patients outside the operating theatre, but within a hospital setting, for painful or non-painful therapeutic/diagnostic procedures under supervision.

**Unit Requirements**

- WPBA's as indicated.
- Consultant feedback (sought by the supervisor during general duties within the last six months)
- CUT form on e-Portfolio.

<b>e-Portfolio WPBA</b>	<b>Index Case(s)</b>	<b>Minimum Number</b>	<b>Code</b>
A-CEX	General anaesthesia for adult patient undergoing imaging procedure	1	DI_IK_01
	General anaesthesia for adult patient undergoing ECT		DI_IK_06
	General anaesthesia for adult patient undergoing cardioversion		DI_IK_02
DOPS	Provide safe peri-procedure anaesthesia to adult patients in one of the following environments: X-Ray, CT scan, Angiography, MRI scan, Radiotherapy, ECT	1	DI_IS_01
CbD	Sedation for patients in the non-theatre environment	1	DI_IK_02
	Problems of providing safe post- anaesthetic care for patients in the out of theatre environment		DI_IK_03
	Safety precautions required in the MRI environment		DI_IK_04
	Discuss the rationale behind the choice of anaesthetic technique for ECT		DI_IK_06



**Orthopaedic Surgery (Incorporating Peri-Operative Care of the Elderly)**

**Core Clinical Learning Outcomes**

- Deliver safe perioperative anaesthetic care to complicated ASA 1-3 adult patients for all elective and emergency orthopaedic/trauma surgery identified at the Basic Level as well as those requiring lower limb primary joint replacement surgery.
- Manage elective and emergency operating sessions with such patients with distant supervision.

**Unit Requirements**

- WPBA's as indicated.
- Consultant feedback (sought by the supervisor during general duties within the last six months)
- CUT form on e-Portfolio.

e-Portfolio WPBA	Index Case(s)	Minimum Number	Code
A-CEX	Lower limb joint replacement	1	OR_IK_01
	Scoliosis surgery		OR_IK_02
	Spinal surgery		OR_IK_02
CbD	Anaesthetic and surgical complexity between primary and secondary lower limb arthroplasty	1	OR_IK_01
	Blood conservation strategies that are used in orthopaedic surgery		OR_IK_04
	Discuss the delivery of safe perioperative anaesthetic care in an elderly patient with significant co-morbidities		OR_IS_01
ALMAT	Manage an operating list	1	All



## Perioperative Medicine

### Core Clinical Learning Outcomes

- To deliver high quality **preoperative** assessment, investigation and management of ASA 1-4 patients for elective and emergency surgery
- To deliver high quality individualised anaesthetic care to ASA 1-3 [E] patients, focusing on optimising patient experience and outcome
- To plan and implement high quality individualised post-operative care for ASA 1-3 [E] patients

### Unit Requirements

- WPBA's as indicated.
- Consultant feedback (sought by the supervisor during general duties within the last six months)
- CUT form on e-Portfolio.

e-Portfolio WPBA	Index Case(s)	Minimum Number	Code
A-CEX	Liaises effectively with colleagues in Intensive Care in planning care	1	POM_IS_02
	Explains risks and benefits of available anaesthetic techniques to patients in a manner they can understand		POM_IS_03
	Formulates an individualised perioperative plan with the patient, using an evidence-based approach		POM_IS_04
	Balances the need for early surgery against the need for further investigation, pre-habilitation and pre-optimisation		POM_IS_05
CbD	Recalls the principles of enhanced recovery pathways and planning of post-operative care	1	POM_IK_04
	Describes appropriate preoperative strategies for minimising the use of blood products		POM_IK_07
	Describes rationale for point of care testing and how the results may influence treatment		POM_IK_13
	Explains how a multidisciplinary team approach improves patient recovery and outcomes		POM_IK_16
ALMAT	Attends a medically led pre-operative assessment clinic and conducts a comprehensive pre-operative assessment for a patient with multiple co-morbidities	1	POM_IS_08



**Regional**

**Core Clinical Learning Outcomes**

- Perform a thoracic epidural and/or combined spinal/epidural under local supervision.
- Perform an upper/lower limb plexus block with peripheral nerve stimulation or ultrasound guidance under local supervision.

**Unit Requirements**

- WPBA's as indicated.
- Consultant feedback (sought by the supervisor during general duties within the last six months)
- CUT form on e-Portfolio.

e-Portfolio WPBA	Index Case(s)	Minimum Number	Code
A-CEX	Management of a patient with regional blockade as sole form of anaesthesia	1	RA_IS_01
	Principles of ultra sound guided nerve blocks		RA_IK_05
DOPS	Brachial Plexus Block (E)	E	RA_IS_04
	Upper Limb Block (elbow or wrist)		RA_IS_04
	Sciatic Nerve Block (E)		RA_IS_04
	Femoral Nerve Block (E)		RA_IS_04
	Lumbar Plexus Block		RA_IS_04
	Popliteal / Ankle Nerve Block		RA_IS_04
	Biers Block		RA_IS_04
	Epidural (E)		RA_IS_04
	Spinal (E)		RA_IS_04
	CSE		RA_IS_04
	Use of peripheral nerve stimulator		RA_IS_04
	Use of ultrasound		RA_IS_04
CbD	Management of a patient with regional blockade combined with a general anaesthetic	1	RA_IS_01
	Choice of local anaesthetic agents, opioids, use of additives and techniques of administration		RA_IK_03



**Sedation**

**Core Clinical Learning Outcomes**

- To recognise the important principle of minimum intervention, where the simplest and safest technique which is likely to be effective is used to achieve the clinical goal.
- Provision of safe and effective sedation to any adult patient using multiple drugs if required.

**Unit Requirements**

- WPBA's as indicated.
- Consultant feedback (sought by the supervisor during general duties within the last six months)
- CUT form on e-Portfolio.

e-Portfolio WPBA	Index Case(s)	Minimum Number	Code
A-CEX	Use of sedation in an adult patient	1	CS_IS_02
	Target-controlled infusions (TCI)		CS_IK_04
CbD	Discusses the unpredictable nature of sedation techniques in the 'extremes of life' and strategies for safe delivery	1	CS_IK_06
	Discusses the use of sedation in the high risk patient and the advantages/disadvantages of using general anaesthesia as opposed to sedation to cover the necessary investigation/procedures in such patients		CS_IK_07
ALMAT	Manage a sedation list	1	All



## Transfer Medicine

### Core Clinical Learning Outcomes

- To deliver safe and efficient transfer [with distant supervision] of complex patients for intra-hospital including retrieving a newly referred ITU patient from A&E or the wards.
- To deliver safe and efficient transfer [with distant supervision] of an uncomplicated ventilated patient for inter-hospital transfer by land [less than 4 hours].

### Unit Requirements

- Log book of transfer cases.
- WPBA's as indicated.
- Consultant feedback (sought by the supervisor during general duties within the last six months)
- CUT form on e-Portfolio.

e-Portfolio WPBA	Index Case(s)	Minimum Number	Code
Certificate Uploaded	Transfer Training Course	1	All
A-CEX	Inter-hospital transfer of adult patient	1	TF_IS_02
	Intra-hospital transfer of adult patient		TF_IS_01
DOPS	Optimise a patient's clinical condition for transfer	1	TF_IS_01
	Prepare a patient for inter-hospital transfer		TF_IS_02
	Demonstrates appropriate situational awareness		TF_IS_09
CbD	Discuss the increased risks to critically ill patients of transfer and the reasons for these risks	1	TF_IK_04
	Discuss a time-critical transfer		TF_IK_07
	Discuss the specific considerations for transfer of patients with specific clinical conditions e.g, <ul style="list-style-type: none"> <li>• Head, spinal, thoracic and pelvic injuries</li> <li>• Critically ill medical patients</li> <li>• Burns</li> <li>• Children</li> <li>• Pregnant women</li> </ul>		TF_IK_09
	Discuss the reasons for patients becoming unstable during transfer and strategies for management		TF_IK_16



**Trauma and Stabilisation**

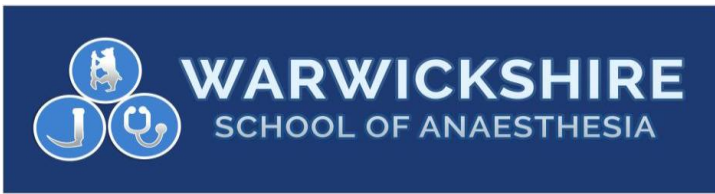
**Core Clinical Learning Outcomes**

- Be an effective member of the multi-disciplinary trauma team and takes responsibility for the initial airway management of the multiply injured patient with distant supervision.
- Be able to manage acute life-threatening airway problems safely and effectively with distant supervision. (This can also be assessed in the 'Airway management' or 'Head, neck, maxillo-facial and dental surgery' unit of training.)
- Provide safe perioperative anaesthetic care [from arrival in the Emergency Department through to post-operative discharge to the ward from recovery or intensive care] for ASA 1-3 patients with multiple injuries with distant supervision, whilst demonstrating understanding of knowing when to seek senior help.

**Unit Requirements**

- WPBA's as indicated.
- Consultant feedback (sought by the supervisor during general duties within the last six months)
- CUT form on e-Portfolio.

e-Portfolio WPBA	Index Case(s)	Minimum Number	Code
Certificate Uploaded	ATLS or equivalent course such as ETLIS	1	All
A-CEX	Management of massive blood loss	1	MT_IK_06
	Preparation of patients for safe transfer		MT_IS_05
	Advanced airway management skills in trauma patient		MT_IS_02
	Anaesthetic management of patients with multiple injuries		MT_IK_02
DOPS	Intubation with cervical spine immobilisation	1	All
	Review neck X rays for the integrity of the cervical spine		All
	Insert a chest drain		All
CbD	Management of a multiply injured patient	1	MT_IS_04
	Strategies for minimising secondary brain injury		MT_IK_04
	Management of a patient with e.g. severe burns, electrical injuries, drowning, near-drowning, hypothermia		MT_IK_05
	Management of coagulopathy, hypothermia and acidosis in multiply injured patients		MT_IK_07
ALMAT	Manage safe perioperative care for a patient from ED to discharge from theatre for an ASA 1-3 patient	1	All



## **Intensive Care Medicine**

Please refer to the separate Intensive Care Medicine guidebook





**Obstetrics**

**Core Clinical Learning Outcomes**

- Able to provide emergency and non-emergency obstetric anaesthetic care in the majority of patients including those with co-morbidities and obstetric complications with distant supervision.
- Perform immediate resuscitation of acute obstetric emergencies.

**Unit Requirements**

- Minimum of 20 clinical sessions.
- Consultant feedback (sought by the module lead from other obstetric consultants)
- CUT form on e-Portfolio.

<b>e-Portfolio WPBA</b>	<b>Index Case(s)</b>	<b>Minimum Number</b>	<b>Code</b>
A-CEX	Management of a patient for elective caesarean section	1	OB_IS_07
	Management of a patient for emergency caesarean section		OB_IS_07
	Anaesthetic management of multiple pregnancy		OB_IK_03
	Post-dural puncture headache		OB_IK_07
DOPS	Epidural analgesia for labour	1	OB_IS_03
	Spinal anaesthetic		OB_IS_03
	CSE (optional)		OB_IS_03
	Intravenous opiate analgesia including PCA for labour		OB_IS_04
CbD	Management of parturient with post partum haemorrhage	1	OB_IS_01
	Management of parturient with hypertensive disease of pregnancy		OB_IS_01
	Management of parturient with BMI above 35		OB_IS_01
	Management of parturient with inadvertent dural puncture		OB_IS_08



**Paediatrics**

**Core Clinical Learning Outcomes**

1. Deliver safe perioperative anaesthetic care to ASA 1 and 2 children aged 5 years and over for minor elective and emergency surgery (e.g. inguinal hernia repair, orchidopexy, circumcision, superficial plastic surgery, grommets, manipulation of fractures, appendicectomy) with distant supervision.

**Unit Requirements**

- Minimum of 20 clinical sessions.
- Consultant feedback (sought by the module lead from other paediatric consultants)
- CUT form on e-Portfolio.

e-Portfolio WPBA	Index Case(s)	Minimum Number	Code
A-CEX	Inguinal hernia / PPV ligation / orchidopexy / circumcision / hypospadias repair	1	PA_IS_03
	Tonsillectomy / adenotonsillectomy		PA_IS_03
	Squint repair		PA_IS_03
	Preoperative assessment in all ages down to 1 year		PA_IS_02
DOPS	Gas induction	1	PA_IS_03
	IV cannulation of the infant/child		PA_IS_03
	Use of T-piece and mask to maintain spontaneous ventilation/assisted ventilation		PA_IS_03
	Intubation in child		PA_IS_03
CbD	Postoperative pain management	1	PA_IS_07
	Discuss the implications of paediatric medical and surgical problems e.g, major congenital abnormalities, congenital heart disease, Down's Syndrome		PA_IK_02
	Thermoregulation in the newborn and measures to prevent hypothermia		PA_IK_06
	Management of perioperative physiology e.g. glucose, fluids and temperature in children		PA_IS_05



**Pain Medicine**

Wherever possible this unit should be completed as a dedicated block.

**Core Clinical Learning Outcomes**

1. To be competent in the assessment and management of acute surgical and non-surgical pain in most patient groups and circumstances.
2. To be an effective member of the acute pain team.
3. To understand the importance of managing acute on chronic pain in a timely manner.
4. To have knowledge of assessment and management of chronic and cancer pain.

**Unit Requirements**

- Minimum of 20 clinical sessions.
- Evidence of:
  - Number of chronic pain clinics attended.
  - Number of chronic pain procedure lists attended.
  - Number of acute pain ward rounds attended.
- WPBA's as indicated.
- Consultant feedback (sought by the module lead from other pain consultants)
- CUT form on e-Portfolio.

e-Portfolio WPBA	Index Case(s)	Minimum Number	Code
A-CEX	Taking history from chronic pain patient	1	PM_IK_04
	Management of acute pain round (observed – this may be by pain nurse)		PM_IS_01
DOPS	Facet joint injection	1	PM_IS_06
	Chronic pain epidural		PM_IS_06
	Post-op pain relief procedure eg PCA set up		PM_IS_02
CbD	Management of acute surgical pain	1	PM_IS_02
	Management of neuropathic pain		PM_IS_09
	Management of cancer pain patients		PM_IS_07



**Optional Units of Training**

- Ophthalmic
- Plastics / burns
- Vascular surgery



**Ophthalmic**

**Core Clinical Learning Outcomes**

1. Deliver safe perioperative anaesthetic care to adults and children requiring routine ophthalmic surgery under direct supervision, and emergency anaesthesia for ASA 1 and 2 patients requiring minor/ intermediate ophthalmic surgery under distant supervision.
2. Demonstrates the ability to provide local anaesthesia for eye surgery with competence in one technique.

**Unit Requirements**

- WPBA's as indicated.
- Consultant feedback (sought by the module lead from other ophthalmic consultants)
- CUT form on e-Portfolio.

e-Portfolio WPBA	Index Case(s)	Minimum Number	Code
A-CEX	Cataract surgery under local anaesthesia	1	OP_IS_03
	Eye surgery under general anaesthesia		OP_IS_04
DOPS	Sub-Tenon block (E)	1	OP_IS_08
	Peribulbar block		OP_IS_08
CbD	Risks associated with needle blocks	1	OP_IK_16
	Techniques of local anaesthesia available for ophthalmic surgery		OP_IK_15
	Special requirements of children undergoing ophthalmic surgery		OP_IK_11
	Sedation techniques for ophthalmic procedures		OP_IK_12



**Plastics / Burns**

**Core Clinical Learning Outcomes**

1. Delivers safe perioperative anaesthetic care to ASA 1-3 adult patients for minor to intermediate plastic surgery (e.g. tendon repair or split skin grafting) with distant supervision.

**Unit Requirements**

- WPBA's as indicated.
- Consultant feedback (sought by the module lead from other burns/plastics consultants)
- CUT form on e-Portfolio.

<b>e-Portfolio WPBA</b>	<b>Index Case(s)</b>	<b>Minimum Number</b>	<b>Code</b>
A-CEX	Excision and grafting of major burn (>15% BSA in one session)	1	PL_IK_07
	SSG to burn		PL_IK_07
	Anaesthesia for facial / airway burn		PL_IK_05
	Major free-flap repair e. g. DI-EPP flap breast reconstruction		PL_IK_03
	Rotational flap		PL_IK_02
	Breast augmentation		PL_IK_02
	Abdominoplasty		PL_IK_02
DOPS	Fluid therapy of the burned patient	1	PL_IS_03
	Pharmacological (including induced hypotension) and non-pharmacological methods to improve the surgical field		PL_IS_02
CbD	Airway management of a facial burn	1	PL_IK_05
	Factors affecting tissue blood flow in free-flap surgery		PL_IK_03
	Major reconstructive plastic procedures		PL_IK_02
	Management of burns patients for surgery		PL_IK_07



**Vascular Surgery**

**Core Clinical Learning Outcomes**

1. To gain knowledge of the perioperative anaesthetic management of patients undergoing elective and emergency abdominal aortic surgery and newer stenting techniques.
2. To anaesthetise patients for carotid endarterectomy and aortic aneurysm surgery with direct supervision.

**Unit Requirements**

- WPBA's as indicated.
- Consultant feedback (sought by the module lead from other obstetric consultants)
- CUT form on e-Portfolio.

e-Portfolio WPBA	Index Case(s)	Minimum Number	Code
A-CEX	Abdominal aortic aneurysm, elective or emergency open repair	1	VS_HS_03
	EVAR		VS_HS_04
DOPS	CVP line insertion	Not essential for vascular sign off	VS_HS_03
	A-line insertion		VS_HS_03
	Thoracic epidural		VS_HS_06
	Use of cell saver		VS_HS_03
CbD	Management of a peripheral vascular graft	1	VS_IK_04
	Management of elective carotid artery surgery with general or regional anaesthesia		VS_IK_07
	Aortic cross-clamping and of renal protection strategies		VS_IK_13
	Management of ruptured aortic aneurysm		VS_IK_05

### The ARCP process

The annual review of competence and progress is designed to map your path through your training by annual assessments of your progress and reviewing the work undertaken during the training year.

Every trainee has to be reviewed once a year to ensure adequate progression is taking place and to guide and advise in terms of career choices.

There are 5 dates throughout the year where a panel consisting of the Training Programme Director, a quorum of College Tutors, a Regional Advisor from the College and the deanery administrative staff meet to review the portfolios of trainees. Sometimes there is a lay advisor as well.

To adequately assess the progression of training the panel needs to be presented with **evidence** for the clinical and non- clinical work undertaken during the year.

The **clinical evidence** consists of the completed “units of training” and the logbooks for each placement while the **non –clinical** part consists of the College Tutor or Educational Supervisors report, an MSF and the continuing professional development undertaken – this includes audits or quality improvement programs completed, teaching and lecturing, attendance at educational meetings, research projects, presentations given, papers written etc.

The easiest way of capturing all this data is by using the e-portfolio throughout the year and assigning evidence to the ARCP when needed.

The **ESSR** (educational supervisors structured report) summarises all this information and the College has strongly suggested that it should be used. It also makes the TPDs job easy if all the information is found in one place.

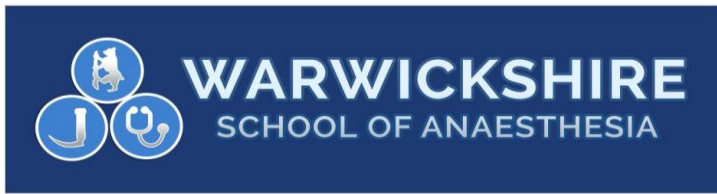
The ARCP you are assigned to does not always match your date of progression exactly – for example the April/May date may be 2 months after you have started your next year – if in doubt ask the TPD which year is under review.

It is up to **YOU** to ensure you have an ESSR report at the end of a completed year of training (i.e. at the end of ST 3, ST4 etc) and to ask the Educational Supervisor or College Tutor to complete it with you – you can fill most of it in prior to meeting up.

If you are rotating to a different hospital part way through a training year, you can use the “**interim progress report**” found on the college website. The ESSR is only open once a year, prior to your ARCP. At the end of every placement, you need to meet with your supervisor to obtain a report or sign off of a unit of training.

The TPD needs to review the evidence before the panel meet on the day of the ARCP to ensure that all the information is there – hence the need to have it completed 2 weeks in advance.





### **The e-portfolio**

Items have to be assigned to the ARCP so that they can be viewed without having to trawl through all the pieces of evidence. Log books and MSF etc can also be viewed in the ESSR which is why this is the easiest way of presenting the evidence.



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