High-Level Learning Outcome (HLO)		ALS provider	ALS instructor
1. The doctor will be able to function successfully within NHS organisational and management systems whilst adhering to the appropriate legal and ethical framework.			
Descriptors	• Demonstrate the highest professional behaviours, individually and corporately	✓	✓
	• Continually strive to enhance and integrate knowledge into clinical practice and the NHS organisation as a whole, whilst observing legal and ethical obligations	✓	✓
2. The doctor will be focused on patient safety and will deliver effective quality improvement, whilst practising within established legal and ethical frameworks.			
Descriptors	• Optimise care of critically unwell patients by the critical appraisal of recent medical literature and the application of evidence-based guidelines	✓	✓
	• Demonstrate a commitment to learn from critical incidents and adverse events as well as sharing the learning points from these experiences	✓	✓
	• Communicate effectively with patients, their families and professional colleagues whilst recognising and effectively managing any barriers to effective communication	✓	✓
	• Ensure patient safety is the key priority at all times in their clinical practice both within the intensive care unit and in the wider clinical environment of the hospital	✓	✓
3. An Intensive Care Medicine specialist will know how to undertake medical research including the ethical considerations, methodology and how to manage and interpret data appropriately.			
Descriptors	• Remain up to date in their reading of current research literature and best practice guidelines	✓	✓
	• Apply information derived from population data to help inform individual treatment plans for their patients	✓	✓
4. To ensure development of the future medical workforce, a doctor working as a specialist in Intensive Care Medicine will be an effective clinical teacher and will be able to provide educational and clinical supervision.			
Descriptors	• Deliver effective teaching and training to medical students, doctors in training, colleagues and members of the wider multidisciplinary team. This will include understanding the teaching, assessment and feedback needs of learners from all groups with protected characteristics and being able to adapt teaching and provide supportive techniques to ensure successful and equitable learning outcomes		✓
	• Competently assess the performance of learners objectively and deliver timely and constructive feedback on learning activities in accordance with current educational standards and best practice		✓
	• Meet any regulatory requirements of a trainer and will keep these current as well as participating in quality assurance processes to ensure excellent undergraduate and postgraduate training		✓

5. Doctors specialising in Intensive Care Medicine can identify, resuscitate and stabilise a critically ill patient, as well as undertake their safe intra-hospital or inter-hospital transfer to an appropriately staffed and equipped facility.			
Descriptors	• Identify an acutely ill patient or one at risk of significant deterioration by taking account of their medical history, clinical examination, vital signs and available investigations	✓	✓
	• Administer intravenous fluids and inotropic drugs as clinically indicated utilising central venous access where required and monitoring the effectiveness of these treatments with invasive monitoring techniques	(✓)	(✓)
	• Stabilise and initiate an initial treatment plan for a critically ill acute surgical, acute medical or peripartum patient including those with sepsis or post-trauma and institute timely antimicrobial therapy	✓	✓
	• Where escalation of care is required, be able to arrange this and provide a succinct structured handover to clinical colleagues	✓	✓
	• Recognise when a patient has the potential to deteriorate or requires future treatment escalation and be able to provide explicit instructions regarding an ongoing treatment plan and contact details should a further review be required	✓	✓
	• Be mindful at all times that whilst assessing and treating patients they must maintain optimum safety for their patients by recognising any limitations of their current clinical environment, the available equipment and personnel and employing best practice guidelines where these exist	✓	✓
6. Intensive Care Medicine specialists will have the knowledge and skills to initiate, request and interpret appropriate investigations and advanced monitoring techniques, to aid the diagnosis and management of patients with organ systems failure. They will be able to provide and manage the subsequent advanced organ system support therapies. This will include both pharmacological and mechanical interventions.			
Descriptors	• Initiate, perform, interpret and integrate point-of-care testing, radiological and laboratory investigations with their patient's clinical findings	(✓)	(✓)
	• Integrate knowledge, skills and investigations to treat a patient who is deteriorating and institute or escalate organ support therapies	✓	✓
	• Perform invasive procedures to aid the diagnosis and management of a critically ill patient, and provide advanced organ-support therapies as well as monitor the effectiveness of these therapies in improving the patient's overall condition	(✓)	(✓)
	• Use their knowledge, apply their skills, and interpret investigations and advanced therapeutic monitoring data to manage critically ill patients, including safe prescribing practices and advanced organ system support modalities, throughout the course of their critical illness	✓	✓
7. Specialists in Intensive Care Medicine can provide pre-operative resuscitation and optimisation of patients, deliver post-operative clinical care including optimising their physiological status, provide advanced organ system support and manage their pain relief.			
Descriptors	• Be expert in resuscitating and stabilising patients before and after a wide range of operative procedures including solid organ transplantation	✓	✓

9. Intensive Care Medicine specialists will have the skillset and competence to lead and manage a critical care service, including the multidisciplinary clinical team and providing contemporaneous care to a number of critically ill patients.			
Descriptors	• Providing support to colleagues and contributing to the management of acutely unwell patients outside of the critical care unit when requested to do so	✓	✓
	• Having the leadership and communication skills to head a culturally diverse multidisciplinary team providing care to an equally diverse range of patients on the critical care unit	✓	✓
	• Involving patients and their relatives in as many treatment decisions as circumstances will allow whilst ensuring patients and relatives are kept abreast of the current treatment plan and options	✓	✓
10. Intensive Care Medicine specialists will have developed the necessary skills of induction of anaesthesia, airway control, care of the unconscious patient and understanding of surgery and its physiological impact on the patient.			
Descriptors	• Describe the functioning principles of standard equipment used within anaesthetic practice and understand the physical principles governing the operation of such equipment and the clinical measurements derived from them	✓	✓
11. In order to manage acutely ill patients outside the Intensive Care Unit, an Intensive Care Medicine specialist will have the diagnostic, investigational and patient management skills required to care for ward-based patients whose condition commonly requires admission to the intensive care unit.			
Descriptors	• Deliver effective resuscitation and manage an acutely deteriorating patient	✓	✓
12. Doctors specialising in Intensive Care Medicine understand the special needs of, and are competent to manage patients with neurological diseases, both medical and those requiring surgery, which will include the management of raised intracranial pressure, central nervous system infections and neuromuscular disorders.			
Descriptors	• Being able to competently assess a patient's neurological status and provide appropriate support where necessary	(✓)	(✓)
14. Intensive Care Medicine specialists recognise the special needs of, and are competent to provide the perioperative care to patients who have undergone cardiothoracic surgery, including providing pain relief and advanced organ system support utilising specialised techniques available to support the cardiovascular system.			
Descriptors	• Treating respiratory dysfunction and complications in these patients	✓	✓
	• Treat cardiovascular dysfunction and complications in these patients including understanding advanced monitoring techniques and provision of mechanical circulatory support	✓	✓
	• Recognising and providing immediate treatment of perioperative emergencies and know when to seek senior help and support	✓	✓