



Session Title	Indicative Content
Welcome and introductions	 Introductions to the course including aims and objectives Introduction to Faculty Icebreaker - meet your fellow students Expectations Moodle
Blood gases	 Normal Blood gases Abnormalities found in children with critical illness Practice examples
Respiratory workshop	 Series of case studies exploring different elements of paediatric respiratory critical care Content to include: relevant physiology, altered pathophysiology, patient assessment, blood gas analysis, treatment options, indications and practicalities of intubation and ventilation







Day Z	
Session Title	Indicative Content
Cardiovascular workshop	Brief revision of cardiac anatomy
	Cardiac cycle, cardiac output, cardiac conduction
	Assessing cardiovascular status
	 Series of case studies exploring different elements of paediatric cardiovascular critical care
	 Content to include relevant physiology, altered pathophysiology, patient assessment, treatment options.
Shock	Causes / stages / presentation - ABCDE assessment
	Recognising the early and later signs of shock
	NICE Redflags dehydration and shock
	 Scenarios – shock worksheets- all to complete Feedback Day 3
Introduction to vasoactive	Short introduction to vasoactive drugs using Powerpoint
drugs	 Vaso active drug worksheet – all to complete -Feedback Day 4
	 Fluids article – self directed study plus quiz on Moodle - Feedback Day 3
	Fluids Calculations – Optional
Course assessment details	 Guidance of what is required for completion of competencies to required standard
	 Guidance on what is required for completion of academic poster assessment
	Paediatric Critical Care Society (PCCS) accreditation







Session Title	Indicative Content
Acute kidney injury workshop	Series of case studies exploring different elements of paediatric renal critical care
	Content to include relevant physiology, altered pathophysiology, patient assessment, treatment options, management of AKI including
	renal replacement options
	• Quiz
Fluids and shock	• Any queries re fluid article/Moodle quiz (self-directed study set on day 2) and fluid calculation answers (optional task)
	Scenarios
Childhood cancer and	What is childhood cancer
oncology emergencies	Incidence and survival of childhood cancer
	Tumour lysis syndrome
	Neutropenic sepsis







Day 4	
Session Title	Indicative Content
Congenital heart disease	Foetal Circulation
	Congenital Heart disease in Children
	Case studies
	• Quiz
Sepsis	Causes of paediatric sepsis
	Presentation of sepsis
	Management of sepsis
Vaso active drugs	Going through self-directed worksheet as a whole group
Management of major burns	Definition, cause and incidence of major burns
	Initial treatment in ED
	On-going management in PICU and PHDU
	Fluid management







Session Title	Indicative Content
Neuro workshop	Revision of main structures of the brain and CNS, cranial nerves, flow of CSF
	Assessment scales and their draw backs AVPU, GCS
	 Series of case studies exploring the assessment of the child with neurological dysfunction
	 Content to include relevant physiology, altered pathophysiology, patient assessment, treatment options,
	• Quiz
Trauma management	Incidence of major trauma
	Mechanism of injury relating to type of injury (including NAI)
	Initial management
	 Monitoring and management in the first 24 hours following major trauma
Care of a Critically Ill Child	Care of a critically ill child with learning disabilities
with a Learning Disability	Communication with non-verbal patients
Neuro workshop	 Revision of main structures of the brain and CNS, cranial nerves, flow of CSF
	 Assessment scales and their draw backs AVPU, GCS
	 Series of case studies exploring the assessment of the child with neurological dysfunction
	 Content to include relevant physiology, altered pathophysiology, patient assessment, treatment options,
	• Quiz







Session Title	Indicative Content
Preparation for transfer	Preparing a child and family for transport
	Moving the critically ill child
LTV	Principles of CPAP/BIPAP
	• NIV
	Conditions leading to LTV
Tracheostomy	Understanding why a tracheostomy may be necessary
	Clinical conditions
	Managing the child with a tracheostomy
Human factors	Explore human factors - scenarios
	 Developing leadership skills in Critical Care – First steps
DKA Introduction	Pathophysiology of DKA
	• Set online work in preparation of unfolding scenario on day 8 (BSPED guidance, quiz, articles, You Tube video – all found on Moodle)







Indicative Content
 Recognition and diagnosis of surgical emergencies – Immediate treatment of acute surgical Emergencies Surgical treatment
A reflective self-care session looking at techniques
 What is Pain? Pain assessment Pharmacological treatment of pain Groupwork
 For those completing the assessment self-study for those not doing a poster







Session Title	Indicative Content
Unfolding scenario DKA	Use the 2020 BSPED guidance to care for a child in moderate and severe DKA
Acute mental health	Deliberate Self Harm
considerations	Eating Disorders
	Escalating Challenging Behaviour
Quizzes	Blood gases
Catch-up & evaluations	What are you going to take away from the course
Tutorials	Anything else

