

Example Programme Only

Paediatric Critical Care Level 3: Intermediate Course

Day 1:

See Moodle for required pre-study day activities

Session Title	Indicative Content	
Welcome	<ul style="list-style-type: none"> • Introductions • Moodle tour • Module outcomes • Assessment for PCCS accreditation and overview of options for GICU, HDU and PICU nurses • Expectations and Ground Rules 	
ABG Analysis	<ul style="list-style-type: none"> • Acid Base Balance • ABG Interpretation and considerations for practice 	
Respiratory Workshop	<ul style="list-style-type: none"> • Upper Respiratory Tract (URT) anatomy and physiology • ABCDE - Airway and breathing assessment • Common URT pathology seen in the PCCU including croup and asthma 	
Respiratory Workshop	<ul style="list-style-type: none"> • Lower Respiratory Tract (LRT) anatomy and physiology • Common LRT pathology seen in the PCCU including bronchiolitis • Respiratory distress leading to failure and ventilatory support including HFNC, BCPAP and intubation • Principles and management strategies for mechanical ventilation • Airway clearance manoeuvres + closed and open suction, nebs, positioning, proning 	
Assessment Introduction	<ul style="list-style-type: none"> • Poster presentation • Competencies and PDP • Mentorship • Tutorials 	<ul style="list-style-type: none"> • GICU/PHDU formative Day 7 Presentation launch, opportunity to pair up and discuss initial ideas

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Day 2:

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Session Title	Indicative Content	
Searching the Evidence Base	<ul style="list-style-type: none"> How to perform an effective literature search and use the evidence in assignments 	<ul style="list-style-type: none"> GICU/PHDU nurses will spend time on BRHC PICU, completing activities on Moodle, working on D7 presentation
Using the Evidence Base	<ul style="list-style-type: none"> Using the evidence base both in academic work and practice 	
CXR Interpretation	<ul style="list-style-type: none"> Chest X-Ray Interpretation using an A-G approach 	
LTV	<ul style="list-style-type: none"> Long Term Ventilation Transitional care considerations 	
Respiratory Clinical Skills	<ul style="list-style-type: none"> Intubation scenario Endotracheal tube strapping Hand ventilation technique using anaesthetic bagging circuits, manometers, hyperinflation/decompression Tracheostomy care 	

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Day 3:

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Session Title	Indicative Content
Cardiovascular Workshop	<ul style="list-style-type: none"> • Cardiovascular anatomy and physiology • + Ethnic differences • + Haemodynamic monitoring including non-invasive and invasive pressure monitoring • ABCDE - Cardiovascular assessment • ECG Interpretation and arrhythmias • Congenital Heart Disease and duct dependent lesions • Fluids and vasoactive drugs
Tutorial – Poster Ideas	<ul style="list-style-type: none"> • Recap of assessment information • Group discussion of poster topic ideas • GICU/PHDU nurses will spend time completing activities on Moodle and/or working on D7 presentation

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Day 4:

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Session Title	Indicative Content
Neurology Workshop	<ul style="list-style-type: none"> • Neurological anatomy and physiology • ABCDE - Disability assessment • Neurological assessment and coma scoring • Common pathology – Traumatic Brain Injury, hydrocephalus, non-accidental injury • Raised Intracranial Pressure - monitoring, management and treatment • Management of seizure disorders • Status Epilepticus
Trauma	<ul style="list-style-type: none"> • Incidence and mechanism of polytrauma • Key principles of PCC care of the trauma patient including <ul style="list-style-type: none"> ○ Road Traffic Collisions (RTC'S) ○ Near drowning/immersion ○ Non-accidental injuries
Mental Health in PCC	<ul style="list-style-type: none"> • Eating disorders – arrhythmias and refeeding • Overdose, poisoning and toxins – acute kidney injury • Self-harm, suicidal ideations, asphyxia, hanging and hypoxic injury

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Day 5:

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Session Title	Indicative Content
Fluid Management	<ul style="list-style-type: none"> • Fluid and electrolyte physiology • Fluid management in critical illness
Renal Workshop	<ul style="list-style-type: none"> • Renal anatomy and physiology • Renal function including renal function markers and urinalysis • Acute Kidney Injury and Renal failure • Management of AKI, excluding renal replacement options
DKA	<ul style="list-style-type: none"> • Case study looking at the pathophysiology and management of DKA in children
Nutrition in PCC	<ul style="list-style-type: none"> • Nutrition and feeding strategies – enteral and parental nutrition • Special considerations for the critically ill child

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Day 6:

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Session Title	Indicative Content	
Shock and sepsis	<ul style="list-style-type: none"> • Pathophysiology and management of shock • Pathophysiology and management of sepsis • Relevant infectious diseases 	
Retrieval and Transport of the critically ill child	<ul style="list-style-type: none"> • Preparing the child and family for transfer • Retrieval and transfer of the critically ill child • Intra-hospital transfer e.g. transfers to MRI, CT and between ward areas • Stabilisation of the critically ill child 	
Human Factors	<ul style="list-style-type: none"> • What are human factors? • How can human factors adversely affect care in PCC? • How can PCC nurses minimise the effects of human factors when caring for critically ill children? • Communication with professionals and service users • Non-technical skills and team working – human factors + unconscious bias, equality and diversity 	
Care of a Critically Ill Child with a Learning Disability	<ul style="list-style-type: none"> • Care of a critically ill child with learning disabilities • Communication with non-verbal patients 	
Group Tutorial	<ul style="list-style-type: none"> • PICU students come prepared to present their poster work in progress 	<ul style="list-style-type: none"> • GICU/PHDU nurses will spend time on BRHC PICU, completing activities on Moodle, working on D7 presentation

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Day 7:

Pre-Study Day: Prepare case study presentations	
Session Title	Indicative Content
Supporting families in distress in paediatric critical care	<ul style="list-style-type: none"> • Holistic FCC and its implementation in PICU • Preparing a child and family for end-of-life care and death • Best practice guidance for withdrawal of treatment • RCPCH guidance • Ethical dilemmas within paediatric critical care • The Wishes Document
GICU Presentations	<ul style="list-style-type: none"> • Details as previously discussed in sessions
Evaluation and Close	<ul style="list-style-type: none"> • Module evaluation

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