



NHS South

PAEDIATRIC NEUROSCIENCES
Operational Delivery Network

Course Handbook - 2024

Paediatric Neuroscience (Neurosurgery and Neurology): Specialist Care and Interventions

Bristol Royal Hospital for Children
Oxford Children's Hospital
Southampton Children's Hospital

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Course Overview

The course is delivered by 3 tertiary paediatric neuroscience centres as part of the NHS South Paediatric Neurosciences Operation Delivery Network.

These centres are:

- Bristol Royal Hospital for Children
- Oxford Children's Hospital
- Southampton Children's Hospital

This course is delivered through blended teaching (face-to-face and virtual teaching) held at each of the three centres. Teaching will be supported by a Virtual Learning Environment called Moodle giving access to course and assessment information, presentations and a wide variety of resources.

Course aims are to enhance your ability to safely and competently care for infants, children and young people with a wide range of health issues requiring a high level of specialist neuroscience care.

Learning outcomes include developing an analytical and critical approach to the concepts and evidence-based practice within paediatric neuroscience nursing.

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Course Information

Pre-Requisites
<ul style="list-style-type: none">• Completion of the Paediatric Neuroscience course 1: Foundation (other neuroscience courses will be considered on an individual basis).• 18 months post registration experience in a tertiary paediatric neuroscience unit or field of paediatric neuroscience care.
Co-Requisites
Working in a tertiary paediatric neuroscience centre.
Content
<p>This course will enable practitioners to develop their existing knowledge and skills in the management of children requiring specialist neuroscience nursing care by increasing their critical understanding and application of current research and practice.</p> <p>The course content topics will include:</p> <ul style="list-style-type: none">• The Anatomy and Physiology of the Central Nervous System• Cranial Nerve Assessment• Review of Shunt systems and valves for the management of Hydrocephalus• Review of Trauma, Neuro-Oncology• Management of specialist neurosurgical conditions / treatments such as<ul style="list-style-type: none">○ Surgical Epilepsy○ Craniofacial conditions○ Complex Movement disorders○ Functional Disorders• Development of Advanced Neurosurgical Nursing roles• Recognition of the role of the NHS South Paediatric Neuroscience Operating Delivery Network in the management and treatment of neuroscience patients
Aims
<ul style="list-style-type: none">• To further develop the specialised knowledge and skills of practitioners in relation to the delivery and management of advanced neuroscience care.• To develop an understanding of the importance of utilising research in the care of children and young people requiring neuroscience care.• To ensure practice is based on evidence and incorporates relevant professional, legal and ethical dimensions.• To gain an awareness of the specialist nursing roles within neuroscience nursing• To gain an understanding of the involvement of external bodies and their role in the development of neuroscience care
Assessed Learning Outcomes
<p>At the end of the course, the practitioner will be expected to:</p> <ul style="list-style-type: none">• Have a sound practical knowledge of altered physiology of the child with a neuroscience condition which can be articulated and critically analysed/ evaluated.• Be able to critically analyse/ evaluate the evidence base for a specific element of care relating to the child with a neuroscience condition in practice.



- Have gained an understanding of leadership development in neuroscience practice.
- Be able to professionally empower patients and their families utilising self-expertise and the knowledge and support of the multi-disciplinary team.

Summary of Teaching & Learning

Activities	Hours	Comments/Additional Information
Lectures (Face-to-Face / Virtual teaching)	60	8 x 7.5 hr days (plus 1 x Poster Presentation Day)
Tutorials	Variable	Group tutorial 1 hour scheduled within course plus individual support/feedback (face-to-face or virtual)
Self-Directed study	150	Highly directed study/self-directed study <ul style="list-style-type: none"> • to embed knowledge through course • to enable participation in workshops • deepening topic knowledge for and creation of assessment poster • facilitate theoretical learning alongside skills attainment in practice
Clinical Practice	Variable	Opportunities to develop clinical skills which can be achieved through: <ul style="list-style-type: none"> • working alongside mentor in own clinical environment • within other clinical environments: placements for learning can be locally negotiated by student
Total	210+	

Assessment

Category	Component Name	Weighting	Comments
Coursework	1 Poster Presentation	70%	An academic poster presentation incorporating relevant physiology and evidence-based analysis of an aspect of neuroscience care. Your poster must be relevant to paediatric neuroscience and you as a nurse. It must demonstrate learning and include references, analysis, critiquing, evaluation and linkage to clinical practice to Academic Level 6.
	2 Reflective Essay (1000-1500 words)	30%	A reflective essay relating to the poster topic. Your essay should include the reason for your topic choice and your reflection on analysing evidence. This can be linked to a case study.
Updated by	Sarah Shinn		
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