

Yorkshire and Humber Paediatric Critical Care Operational Delivery Network

Education Plan for 2020

In 2020 the Yorkshire & Humber Paediatric Critical Care ODN will merge with the Surgery in Children ODN to become a joint Network. Following a review of our education and training delivered in 2019 we have developed the following plan for Paediatric Critical Care education for 2020.

Nurse Education

Due to the National PIC Review, our findings from our Service Evaluation work and ongoing work around the skills passport and nurse competencies for paediatric critical care, we thought we should continue with our current provision of nurse education.

The Regional level 1 competency training day for nurses will continue.

The aims /objectives of the day are to provide nursing staff with the appropriate knowledge to develop skills in the following areas:

1. A Systematic “paediatric approach” to caring for the critically ill child
2. Recognition of the deteriorating child
3. Identify when and how to escalate care and the communication tools to do so effectively
4. Identify use of appropriate clinical interventions to manage critically ill child

Please see attached programme for details of the day. The team felt that a standardised approach to this training would enable nursing staff to add this day to their passport and ensure consistency if they were to move to different hospitals within the region. This has been communicated to all the paediatric Matrons/ ward managers across the region. There will be five days this year with approximately 25 - 30 places on each day. We will evaluate the days throughout the year.

The dates are listed below.

- 17th March- Sheffield Children’s Hospital, PGME**
- 24th April- Leeds General Infirmary, PGEC, Room 1**
- 11th May- Sheffield Children’s Hospital, PGME**
- 1st June- Leeds General Infirmary, PGEC, Room 2**
- 1st July- Sheffield Children’s Hospital, PGME**

To book a place on these days please contact Gemma Bradley our network educator. Email Gemma.bradley@nhs.net

Karen Perring Lead Nurse Y&H PCCODN December 2019

Gemma Bradley will also run education and training for ED nurses around the region, particularly focused on adult trained staff. She will also facilitate the regional PReS days. If there are more specific education requests around a particular training need such as high flow / CPAP / Sepsis etc. we will continue to provide a half day session locally to meet that when possible. This can be arranged by contacting Gemma.

The current Service Evaluation work has identified an increasing need for education and training of adult ICU staff who may only occasionally be involved in caring for a critically ill child. We were able to work with our colleagues in the adult critical care ODN's to deliver a number of days last year. This will continue to form part of our education plans for 2020 and requests for this training can be made through the PCCODN lead nurse Karen.perring@nhs.net

Multi-professional education

The PReS (Paediatric Resuscitation and Stabilisation) day programme has been extremely successful over the last 5 years and following the success of last year's hub model we will aim to run the same format again in 2020. The programme will include 4 simulations and a question and answer session at the end of the day. Programme attached below.

The dates for this training will be circulated by Gemma to the hospitals and places can be booked by contacting her by email – gemma.bradley@nhs.net

Dates are as follows:

Regional PReS day - Hull Royal Infirmary Sim Centre **1st May 2020 (Hull, York and Scarborough)**

Regional PReS day - Scunthorpe General Hospital Education Centre **18th May 2020 (Doncaster, Scunthorpe and Grimsby)**

Regional PReS day - Calderdale Royal Infirmary Education Centre **25th June 2020 (Airedale, Bradford and Calderdale)**

Regional PReS day- Harrogate District Hospital Education Centre **1st September 2020 (Harrogate, Leeds and Mid Yorks)**

Regional PReS day - Barnsley Hospital Education Centre **4th September 2020 (Rotherham, Barnsley, Sheffield and Chesterfield)**

Clinical Forums

The ODN will continue to deliver 4 Clinical forums a year as part of the education programme. This year they are as follows

March 10th LTV Hatfeild Hall 9:30 - 4pm

June 12th Annual Conference Wetherby Racecourse

September tbc Hatfeild Hall 9- 12:30

November tbc Hatfeild Hall 9-12:30

The Clinical Leads will also offer short teaching sessions at the local critical care group meetings they attend in DGH's.

Karen Perring Lead Nurse Y&H PCCODN December 2019

Paediatric REsuscitation and Stabilisation Training Day (PREs)
Organised by the Yorkshire & Humber Paediatric Critical Care Operational Delivery Network

Venue details
Date & Time

| Time | Session/topic | Speaker/facilitator | Target participants |
|---------------|--|----------------------------|--|
| 09:00 – 09:30 | Introduction and objectives for the day | Network Educator | Consultant/SAS/ST doctors: Anaesthesia and Emergency Medicine and Paediatrics Advanced Care Practitioners Staff nurses & HCAs: Emergency Medicine, Paediatrics Operation Department Practitioners |
| 09:30 – 10:00 | Interactive lecture – Human Factors (Control & communication) | Clinical Lead | |
| 10:00 – 10:15 | Break | | |
| 10.15 – 10:30 | Simulation Environment familiarisation | | |
| 10:30 – 11:30 | Simulation based training: Scenario 1 | All Faculty | |
| 11:30– 12:30 | Simulation based training: Scenario 2 | All Faculty | |
| 12:30 – 13:30 | Lunch | | |
| 13:30– 14:30 | Simulation based training: Scenario 3 | All Faculty | |
| 14.30- 14:45 | Break | | |
| 14:45 – 15:45 | Simulation based training Scenario 4 | All Faculty | |
| 15:45 – 16:15 | Q&A session | All Faculty | |
| 16:15 – 16.30 | Summary for the day & evaluations Close | All Faculty | |

Key aims /learning objectives:

1. A Systematic approach to managing the critically ill child
2. Resuscitation: Principles of effective crisis resource management during resuscitation & stabilisation
3. Referral: How to optimise communication during referral for critical care

Care of the Critically Ill Child Level 1 Study Day
Organised by the Y & H Paediatric Critical Care Operational Delivery Network

Key aims /learning objectives:

4. A Systematic 'paediatric approach' to caring for the critically ill child
5. Recognition of the deteriorating child
6. Identify when and how to escalate care
7. Identify use of appropriate clinical interventions to manage critically ill child.

| Time | Session | Aims |
|-------|--|---|
| 09:00 | Introduction and Objectives for the day | Set a plan and expectations for the day according to the needs of the group. |
| 09:30 | Assessment and management of Airway and Breathing: <ul style="list-style-type: none"> • Basic airway management and use of simple adjuncts. • Respiratory assessment. • Recognition of respiratory distress. • Escalation to supportive therapies – high-flow oxygen, CPAP & preparation for intubation. • Monitoring & Observations. | Group session encouraging sharing of skills and experience, with a focus on recognition of respiratory distress, identifying appropriate clinical interventions, and when to escalate care. |
| 10:15 | Blood gases: <ul style="list-style-type: none"> • Identify normal blood gas parameters • Consider how to interpret results • Escalate concerning findings | Identify normal, understand the blood gas in context of the clinical picture, tools for interpreting the gas result, and identify when to escalate care. |
| 11:00 | Break | |
| 11:15 | Assessment and management of the Cardiovascular system: <ul style="list-style-type: none"> • Assessment of circulation • Signs of shock • Management of the child in circulatory collapse • Fluid management | Group session encouraging sharing of skills and experience, with a focus on recognition of circulatory compromise, identifying appropriate clinical interventions, and when to escalate care. |
| 12:00 | ECG: <ul style="list-style-type: none"> • Recognise normal ECG patterns • Consider causes for the abnormal ECG • Interpret life threatening arrhythmia and respond. | Identify normal, understand the ECG in context of physiological process. |
| 12:30 | Lunch | |
| 13:00 | Assessment and management of the child with reduced | Recognition of deteriorating |

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| | conscious level: <ul style="list-style-type: none"> • Assessment of level of consciousness- AVPU & GCS • Signs of raised ICP • Management of a child with reduced conscious level | conscious level. Able to identify appropriate clinical interventions to manage the child with reduced GCS, and when to escalate care. |
| 13:45 | Break | |
| 14:00 | Case based discussions: <ul style="list-style-type: none"> • Evaluation of clinical interventions • Human factors of each case • Further learning materials for each case discussed | 3 clinical cases for group discussion and evaluation, to consolidate theory from the previous sessions over the day. Materials for further learning and evolving practice. |
| 15:30 | Evaluation and close by 16:00 | Feedback and Q&A session |