



Yorkshire & Humber Neonatal ODN Clinical Framework

Title: Perinatal Care of the Preterm Infant Author: Early care working group

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This clinical framework has been developed to ensure appropriate evidence-based standards of care throughout the Yorkshire & Humber Neonatal ODN. The appropriate use and interpretation of this guideline in providing clinical care remains the responsibility of the individual clinician. If there is any doubt discuss with a senior colleague.

Early Care Framework for Preterm Infants < 34/40 – Antenatal care





Early Care Framework for Preterm Infants < 34/40 – Admission Golden Hour





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Thermal care

- Maintain temperature 36.5- 37.5°C
- Pay particular attention during line insertion and other procedures
- Humidify incubator as local policy

Airway/Breathing

Establish respiratory support on NNU. Principles:

- Allow pH>7.22
- Aim SpO₂ 91-94%

If ventilated:

- VG ventilation
- Repeat surfactant if needed
- Avoid $pCO_2 < 4.5$ or > 8.5 kPa (until Day 4)
- From Day 4, aim pCO₂ 4.5-10 kPa
- Aim to avoid sedation
- Minimise duration of mechanical intubation

If CPAP:

 Give early rescue surfactant if evidence of RDS and FiO₂ >30% with PEEP 6cmH₂O after initial stabilisation (consider LISA /INSURE technique, if possible, at your centre)



References/Resources

NLS 2021 5th Edition <u>Newborn resuscitation and support of transition of infants at birth Guidelines</u> | <u>Resuscitation Council UK</u>

Antenatal Care: BAPM Antenatal Optimisation for Preterm Infants <34 weeks https://www.bapm.org/pages/194-antenatal-optimisation-toolkit

Counselling: BAPM Perinatal Management of Extreme Preterm Birth Before 27 weeks of Gestation. 2019. <u>https://www.bapm.org/resources/80-perinatal-management-of-extreme-preterm-birth-before-27-weeks-of-gestation-2019</u>

BAPM Optimising Early Maternal Breast Milk for Preterm Infants. A quality improvement toolkit. November 2020. https://hubble-live-assets.s3.amazonaws.com/bapm/redactor2_assets/files/755/BAPM_Preterm_MBM_Toolkit_Final_for_publication.pdf

Delivery room huddle:

BAPM Optimal Cord Management https://www.bapm.org/pages/197-optimal-cord-management-toolkit

Thermal Care:

BAPM Normothermia package https://www.bapm.org/pages/105-normothermia-toolkit

Delayed Cord Clamping:

BAPM Optimal Cord Management Toolkit https://www.bapm.org/pages/197-optimal-cord-management-toolkit

Early respiratory care:

NICE Guideline NG 124 Specialist neonatal respiratory care for babies born preterm. 2019. https://www.nice.org.uk/guidance/ng124

European Consensus Guidelines on the Management of Respiratory Distress Syndrome – 2019 Update. Sweet, D, Carnielli V, Greisen G, et al. Neonatology 2019; 115:432-450

PN:

NICE Guideline NG 154: Neonatal Parenteral Nutrition. Feb 2020. https://www.nice.org.uk/guidance/ng154

BAPM The provision of Parenteral Nutrition within Neonatal Services - Framework for Practice. 2016. <u>https://www.bapm.org/resources/42-the-provision-of-parenteral-nutrition-within-neonatal-services-a-framework-for-practice-2016</u>

ODN guidance awaited pending procurement process.

Probiotics: ODN guidance in progress

Feeding: ODN guidance in progress

Working group members:

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