



Antenatal Optimisation – A Neonatal Nurse Perspective

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Perinatal Excellence in Reducing Injury in Premature Birth (PERIPrem)

- Collaboration between 2 Academic Health Science Networks (AHSN's)
- A bundle of 10 evidence-based interventions - aim to improve survival of preterm babies without brain injury
- In line with NHS long term plan - achieve 50% reduction in neonatal mortality and serious brain injury by 2025.
- Aim for 85% compliance throughout the duration of the project





- PERIPrem aligns with the antenatal optimisation tool
- Antenatal steroids, Magnesium Sulphate & birth in the right place – 3 of the bundle elements
- There is a successful history regarding the use of these bundle elements
- PERIPrem focusses on mothers receiving both medications in a timely manner
- Achievable assuming accurate prediction of preterm labour utilising tools such as the QUIPP AP





The PERIPremTeam

Neonatal Consultant

Neonatal Nurse Champion

Obstetric Consultant


Midwife Champion

- Supported by the 2 AHSN's
- Shared resources, collaboration & support to drive improvement
- Quality Improvement (QI) coaching





5. Deferred Cord Clamping (DCC):




Time of DCC: ____:____ (minutes and seconds)

Airway & Breathing support during DCC:

Thermal Care Interventions during DCC:

If no DCC, reason why:

6. Thermal Care:




Stabilisation Temp: ____ °C Time taken: ____:____

Temp before leaving delivery room: ____ °C Time taken: ____:____


Temp on admission: ____ °C Time taken: ____:____

7. Respiratory Management:




Volume targeted/volume guided ventilation (if invasively ventilated)?
Y / N / NA

8. Caffeine:
(≥30 weeks but consider up to 32-34 weeks)



Time of administration
(within 2h admission): ____:____


4. Early Breast Milk: (b)



Date & time Colostrum first available: ____/____/____:____


Date & time Colostrum given to baby: ____/____/____:____

9. Probiotics:
(≥32 weeks or <1.5kg)




Probiotics started with non-nutritive feeds? Y / N / NA
____/____/____

10. Prophylactic Hydrocortisone:
(≥28 weeks)



0.5mg/kg BD started on Day 0? Y / N / NA
____/____/____





Challenges/Barriers!

- Challenges continue around the use of antenatal steroids & MgSO_4
- Results of National data show birth in the right place is still a challenge
- Accurate documentation
- Involve key staff





What Works Well?

Excellent enthusiastic teams!




Information boards on NICU & CDS

Regular teaching sessions

Simulation training

Team motivation



<u>St Michael's</u>		Percentage Meeting PeriPrem Criteria:		
	PeriPrem Target	Baseline 2019/20	Year to Date 2020/21	Change from Baseline
 Birth in the right place*	85%	78%	62%	↓ -16%
 Antenatal Steroids	90%	92%	100%	↑ 8%
 Magnesium Sulphate	90%	82%	100%	↑ 18%





Thankyou!

