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UKMidSS Neonatal Admission Study

Interim findings



Overview

- Background
- Response and data collection
- Some early results
- What's next?



Background

- Neonatal admission in full-term babies is an indicator of the safety of maternity care
- Neonatal admission following birth in a midwifery unit is a potential indicator of a 'near-miss' event
 - Might different management have made a difference to outcome?
- Very little evidence on neonatal admission in this population



Aims

- To investigate how often neonatal admission (and intrapartum stillbirth or early neonatal death) happens in babies born in AMUs
 - Compare maternal characteristics, labour care and neonatal outcomes in this group with babies born in AMUs who were not admitted to neonatal care
- Can we identify ‘risk factors’ for neonatal admission in babies born in AMUs?



Case definition

Any woman who gives birth in the midwifery unit and whose baby is:

- **Admitted to neonatal care** (neonatal intensive care, high dependency care or special care) **within 48 hours of birth or before discharge home**, whichever is sooner, **for at least four hours**
OR
- **Stillborn or dies within 48 hours of birth** without admission to neonatal care.

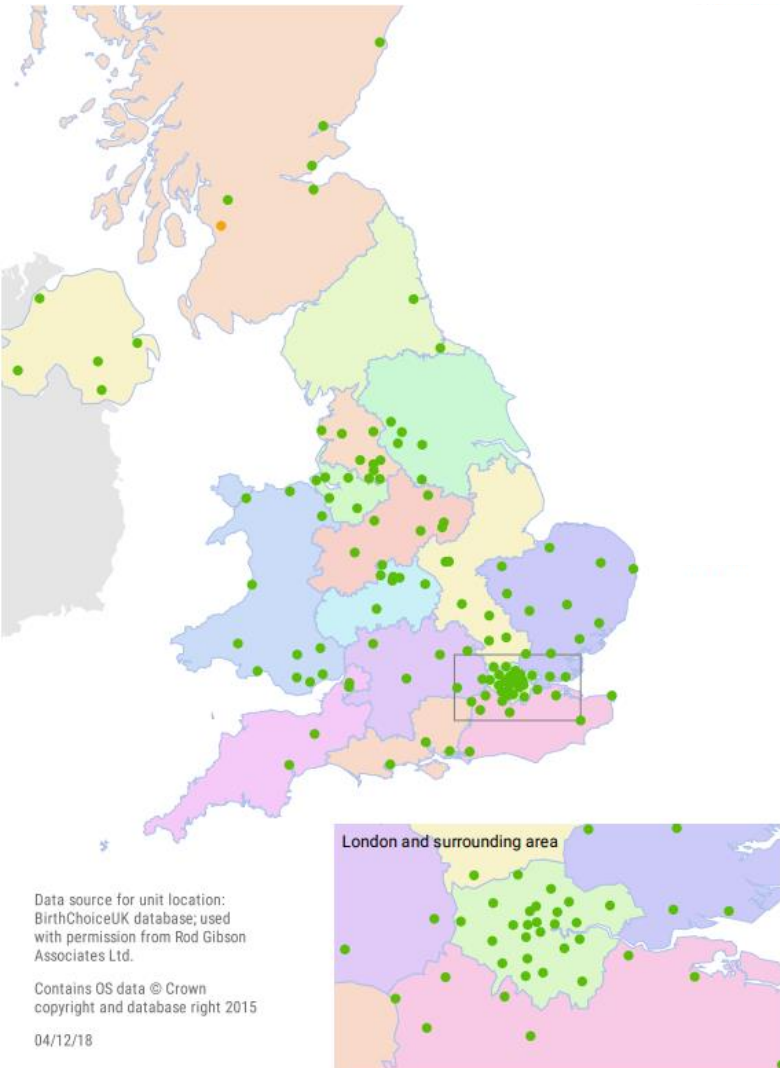


Methods

- National case control study

UKMidSS
UK Midwifery Study System

- 1st March 2017 – 29th February 2018



Potential 'risk factors'

- Maternal characteristics
 - Age, BMI, deprivation, pre-existing medical conditions, obstetric history
- Pregnancy factors
 - Gestational age, sex of baby, current pregnancy complications
- Labour factors
 - Complications at admission, stage of labour at admission, complications during labour, immersion in water, length of labour
- Birth factors
 - Shoulder dystocia, birthweight, birth in water, mode of birth



Response and 'cases'

- All 123 AMUs across UK contributed data
- 99.8% response to monthly reporting
- 1064 cases reported
- 1025 confirmed cases with complete data
 - National incidence of 1.2%
- 1960 controls
- 105 (85%) of units reported at least one case
 - Unit incidence ranged from 0-4%



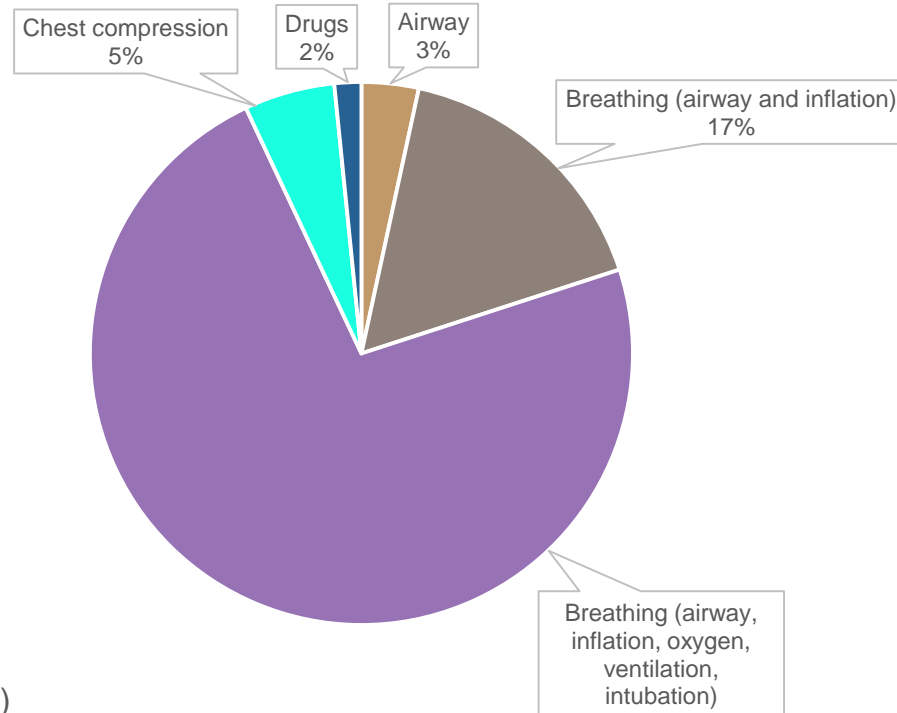
Outcomes for babies

- 441 babies (43%)
who were
admitted to
neonatal care
were resuscitated
after birth



Outcomes for babies

Type of resuscitation

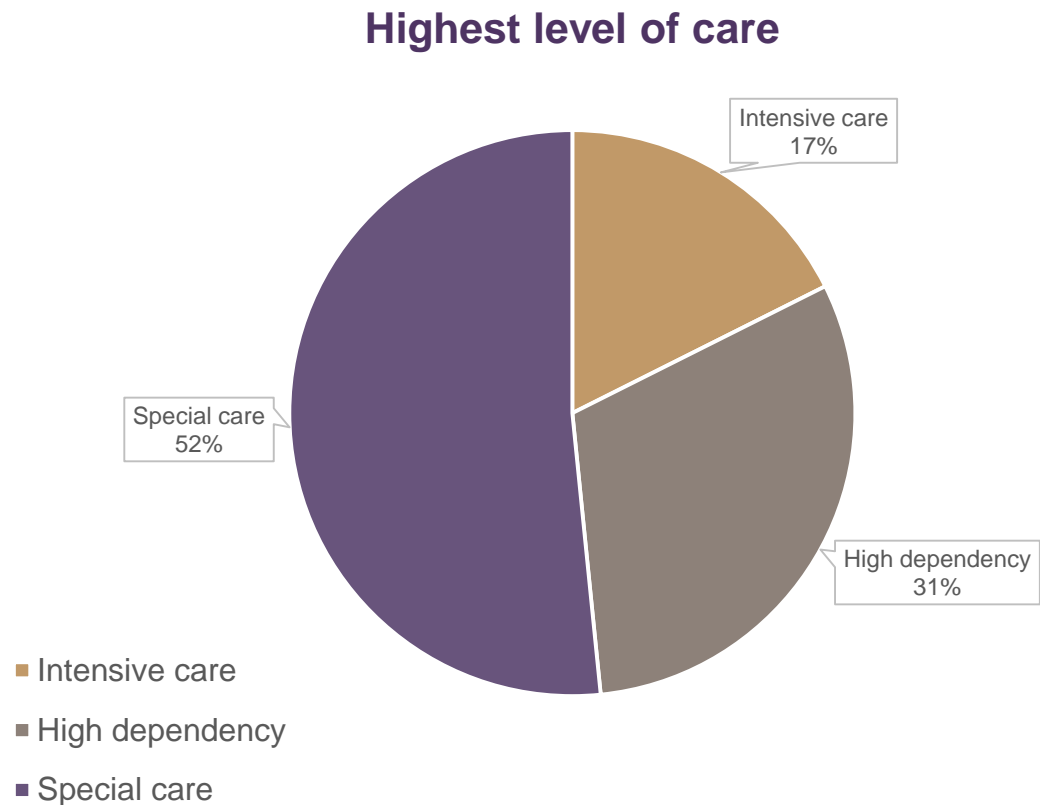


- Airway
- Breathing (airway and inflation)
- Breathing (airway, inflation, oxygen, ventilation, intubation)
- Chest compression
- Drugs



Level of care received

- Half of babies received special care only
- Less than 1 in 5 received intensive care



Baby deaths

- Out of 1025 confirmed cases
 - One intrapartum stillbirth
 - Four babies admitted to neonatal care died
- Lower than we would have expected
 - Have we missed some cases?
 - Or have we missed the death of some babies?
 - Could easily happen if midwifery team not aware of subsequent death of baby after transfer, particularly if transferred to another trust
- Really important that we have as complete and accurate picture as possible



Checking against other data

- All stillbirths and neonatal deaths are reported to MBRRACE-UK
 - Data collected include place of birth so can identify deaths of babies born in AMUs
- MBRRACE-UK team have checked deaths reported to them against deaths in UKMidSS cases
- Email to UKMidSS reporter and MBRRACE reporter in units where the death of a baby might have been missed



Summary

- Excellent reporting and data completion
- We are working hard to check and analyse the data
- Some more work still needed!
- If you receive an email from Jenny Kurinczuk, National Programme Lead for MBRRACE-UK,
 - Please read it carefully, get in touch with the MBRRACE-UK reporter in your hospital, and with the UKMidSS team
 - Get in touch with us if you have any questions



In other news...

- Previous PPH Study ongoing
 - Reporting since August 2018 (for one year)
 - 126 AMUs participating
 - Higher number of cases than anticipated
 - Some units struggling to identify cases and controls
- We are monitoring carefully and may end data collection early
- If you are struggling please get in touch
 - Silence is definitely not 'golden'



On the horizon...



WATCH THIS SPACE ...
GOOD THINGS ARE
COMING!

- Study on PPH occurring in midwifery units
- Including freestanding midwifery units



Thank you!

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<https://www.npeu.ox.ac.uk/ukmidss>

 @NPEU_UKMidSS

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