

Case story: Neonatal Jaundice

Pregnancy

- Pauline is a Black British mother in her third pregnancy.
- Two previous uncomplicated spontaneous vaginal deliveries.
- No risks identified at booking.
- Attended Triage at 36+5 weeks with reduced fetal movements, the CTG was commenced within 15 minutes of arrival. She was discharged home after an Obstetric review with safety netting advice.



Good practice:

Birmingham Symptom specific Obstetric Triage System (BSOTS) guidance followed.

- 4:00am: Spontaneous vaginal delivery at 37+5 weeks. Apgar score 7 at 1 minute, 9 at 5 minutes and 9 at 10 minutes.
- No complications.
- Baby was briefly breastfed.
- Baby was discharged on the day of birth, following a NIPE check that showed nothing abnormal detected.



The NHS Race and Health **Observatory (2023)** recommends a systematic review to identify alternatives to the Apgar score for accurate assessment of Black, Asian, and minority ethnic neonates. **See the RHO Neonatal Assessment Report** for details.1

Postnatal - Day Z

- First community midwife visit at home - not seen since day of birth when discharged.
- Mother reported she thought the baby was jaundiced.
- and no detailed documentation assessment for jaundice. No breast feeding assessment.

Incomplete physical examination

Postnatal - Day 3

midwives as planned on the previous day.

No visit by the community



The midwifery team

had significant sick leave, increasing the number of visits required per midwife.

• 9:00am: Second community midwife

Postnatal - Day 4

 Mother reported she thought the baby was jaundiced, not feeding well

visit at home.

- and now very sleepy. The midwife advised that baby should be taken to hospital for a serum
- bilirubin (SBR) check as there was no transcutaneous bilirubinometer available. No urgency communicated.
- old, the result was 404 mmols/l. This result was incorrectly plotted on the >38 weeks chart

• 15:00pm: The baby arrived at hospital

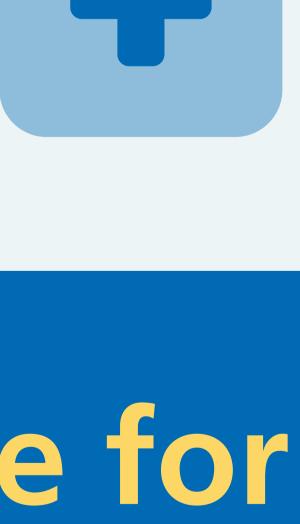
to have the first SBR when 107 hours

- indicating phototherapy rather than exchange blood transfusion. Phototherapy was commenced and the SBR reduced when reviewed 6
- hours later but still within the treatment line.



System Engineering Initiative for





Patient Safety (SEIPS) Model² The SEIPS framework is used here to demonstrate the potential for learning from this claim to support system-wide improvement.

Internal environment

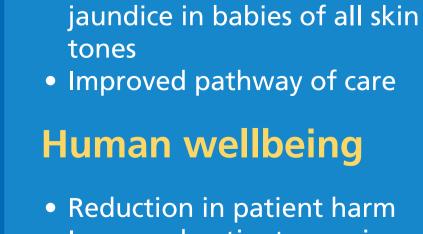


assessment of babies of all

Professional body code of

skin tones

conduct



• Improved patient experience Increased staff satisfaction

Outcomes

System performance

Recognition and assessment of

¹ NHS Race & Health Observatory (2023) Review of neonatal assessment and practice in Black, Asian and minority ethnic newborns: nhsrho.org/wp-content/uploads/2023/08/RHO-Neonatal-Assessment-Report.pdf ² NHSE (2022) SEIPS quick reference guide and work system explorer:

england.nhs.uk/wp-content/uploads/2022/08/B1465-SEIPS-quick-

reference-and-work-system-explorer-v1-FINAL.pdf