Screening & Eligibility



Screening in the Neonatal Unit

- Screening can be completed by any trained individual (however, final confirmation of eligibility can only be confirmed by delegated neonatal doctors or nurses).
- All babies born/expected to be born between 23⁺⁰ and 30⁺⁶ weeks^{+days} of gestation inclusive should be screened for eligibility. Parents can be approached either antenatally or immediately postnatally to discuss the study and seek verbal consent.
- Sites should use the 'Eligible' cot card for babies born between 23⁺⁰ and 30⁺⁶ weeks^{+days} of gestation inclusive to ensure they are checked for episodes of metabolic acidosis that meet the study criteria.
- Cards with QR codes will be provided which link directly to a BASE parent-friendly introduction video (link). This video will be available in 5 different languages and can be utilised along with the short Introduction leaflet and full Parent Information Leaflet (PIL) at this stage to provide information about the study.
- To maximise awareness of the study, study information should be made widely available throughout the NICU in the form of BASE posters, banners and information leaflets

The inclusion and exclusion criteria for the study are as follows:

Inclusion Criteria:

- Babies born between 23⁺⁰ and 30⁺⁶ weeks^{+days} of gestation inclusive
- Postmenstrual age less than 34⁺⁰ weeks^{+days}
- Metabolic acidosis defined as blood pH less than 7.2 with pCO₂ that is low or normal for the clinical context and a low bicarbonate level.
- The parent's verbal consent for the baby to participate in the trial has been documented in the baby's medical notes and Investigator Site File (ISF).

Exclusion Criteria:

- Life-threatening condition, or significant congenital anomaly
- Inborn error of metabolism (known or under active investigation)
- Prior treatment with sodium bicarbonate <u>unless</u> in the context of cardiopulmonary resuscitation or if used as a substitute for normal saline in arterial line infusion
- Current episode of metabolic acidosis immediately follows cardiopulmonary resuscitation.

BASE is funded by the National Institute for Health and Care Research (NIHR) Health Technology Assessment (HTA) Programme (Reference Number NIHR151086).

The views expressed are those of the author(s) and not necessarily those of the NIHR or the Department of Health and Social Care.









If parent is willing to participate and provides verbal consent, please see Guidance sheet: Verbal consent and Guidance sheet: Randomisation for more information.

Screening Logs

Complete a screening log in the following circumstances:

- A baby is found to meet all the eligibility criteria and can be randomised
- A baby born between 23⁺⁰ and 30⁺⁶ weeks^{+days} has reached 34⁺⁰ weeks^{+days} postmenstrual age OR is discharged home before having an episode of metabolic acidosis that meets the criteria
- A baby born between 23⁺⁰ and 30⁺⁶ weeks^{+days} has an episode of metabolic acidosis that meets the criteria but it is inadvertently missed
- A baby born meets at least one of the exclusion criteria and is therefore ineligible, even if they develop metabolic acidosis
- Parent has declined participation

If the baby reaches 34⁺⁰ weeks^{+days} postmenstrual age and has not been randomised or previously recorded on the screening log as not eligible, the site must choose the reason on the log that best describes why they were not randomised before this time.

Varying Eligibility for the Same Baby

Neonatal staff at recruiting sites are expected to check all babies born between 23⁺⁰ and 30⁺⁶ weeks^{+days} of gestation for eligibility. However, due to the nature of the eligibility criteria, it is possible that the same baby could be ineligible at one point (no episodes of metabolic acidosis) and eligible at another (when an episode of metabolic acidosis that meets the study criteria occurs).

For this reason, we do not require a screening log to be completed every time a baby's eligibility is assessed. An infant should only be on the screening log once.

Uploading Screening Logs

- Once a month, enter summary data for those screened on the BASE randomisation website by visiting https://rct.npeu.ox.ac.uk/base logging in and choosing the screening log option.
- A copy of the BASE Screening Log that can be printed is available in the Electronic Investigator Site File (e-ISF).
- Paper logs are provided for internal use only and do not need to be submitted back to the study team, since screening information must be updated online on the BASE randomisation website on a monthly basis.



Co-recruitment

Co-recruitment of participating babies to other non-interventional studies would generally be permitted. Co-recruitment to another interventional trial may be possible following discussion and agreement between Chief Investigators if perceived to not affect the outcome of this trial in any way. The study website will be updated with a list of studies that can be co-recruited to.