

Heating On Transport With prEtErm and Low birth weight neonates using Servocontrol patient temperature management system (HOT-WHEELS): A pragmatic randomised controlled trial

ACTRN12624000503527

Status RECRUITING
Sponsor CAHS Perth Children's Hospital
Enrollment 172 participants

Plain Language Summary

Premature babies — particularly those born before 34 weeks or weighing less than 1,500 grams — have difficulty keeping themselves warm. Getting too cold after birth can cause serious health problems. While hospitals use a range of methods to keep premature babies warm immediately after delivery, maintaining the right temperature during transport within the hospital remains a challenge.

This randomised controlled trial compares the standard approach to temperature management during newborn transport with a new "servocontrolled" patient temperature management system, which automatically adjusts heat to keep the baby within the ideal temperature range of 36.5 to 37.5 degrees Celsius. The study will assess which method more reliably keeps babies in the target range, and whether this affects their health outcomes.

This study involves premature or low birth weight babies. Infants born at 34 weeks gestation or less, or weighing 1,500 grams or less, may be eligible with parental consent. Babies with certain major congenital conditions are not eligible.

Key Eligibility Criteria

Inclusion (4)

- i. Corrected Gestational age less than or equal to 34 weeks and/or
- ii. Current weight less than or equal to 1500 g
- iii. Informed parental consent.
- iv. Sufficient understanding of English language.

Exclusion (3)

- (i) major congenital gastrointestinal abnormality (e.g., gut wall abnormality, imperforate anus or tracheoesophageal fistula or atresia)
- (ii) Necrotising enterocolitis
- (iii) parental refusal to participate

Locations (1 total)

Perth Children's Hospital - Nedlands, WA, Australia

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12624000503527>

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