

Method for Determination of Peripherally Inserted Central Catheter (PICC) Insertion Length in Infants

ACTRN12621001565831

Status	RECRUITING
Sponsor	International Islamic University Malaysia
Enrollment	72 participants

Plain Language Summary

Very small premature babies (under 1500g) often need a PICC line — a fine tube inserted through a vein in the arm or leg that threads up to a large central vein near the heart, allowing medications and nutrition to be delivered safely for weeks at a time. Getting the tip of the PICC exactly into the right position is essential, because misplaced tips can cause serious complications including blood clots, infections, and fluid build-up around the heart.

Currently, nurses measure the tube insertion length by measuring the distance along the baby's body between two anatomical landmarks. This study tests whether a mathematical formula using body measurements can more accurately predict the right insertion length — potentially improving safety for these tiny patients.

This study is for newborns weighing 1500g or less admitted to the NICU who need a PICC line. Babies with congenital bone conditions, chromosomal disorders, vascular abnormalities, or hydrops fetalis are not eligible. Families should speak to NICU staff at participating hospitals for more information.

Key Eligibility Criteria

Inclusion (1)

- Infants weigh equal or less than 1500g admitted to NICU that require PICC insertion in the participating NICUs within the study period.

Exclusion (5)

- Congenital anomaly that is expected to interfere with study outcome as listed;
- Orthopaedic problems: Arthrogyrosis multiplex congenita, fixed congenital talipes equinovarus, development dysplasia of the hip (DDH), skeletal dysplasia,
- Chromosomal aneuploidy or genetic disorders : Any recognized or unrecognized dysmorphism , i.e. Down Syndrome, Patau Syndrome, Edward Syndrome, Single gene or polygenic defects, ie: Cri-du chat, Di George syndrome, Prader Willi Syndrome etc
- Patient with vascular anomaly
- Hydrops fetalis

Locations (2 total)

Pahang and Kelantan, Malaysia
Malaysia

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12621001565831>

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