

# The effect of remote ischaemic preconditioning on lowering postoperative myocardial troponin I release in children with congenital heart disease undergoing cardiopulmonary bypass.

ACTRN12607000004460

---

Status	RECRUITING
Phase	Phase 1
Sponsor	Michael Cheung
Enrollment	68 participants

## Plain Language Summary

---

This study is for newborn babies who need open heart surgery to fix a heart defect they were born with. Heart surgery using the heart-lung bypass machine can damage organs because blood flow is temporarily reduced. This trial tests a technique called 'remote preconditioning' — where a soft cuff is placed around the baby's leg and briefly inflated a few times — to see if this simple step can protect the heart during surgery and reduce damage. This is similar to having a blood pressure cuff on the arm, and it is done while the baby is already under anaesthesia for the operation.

You may be eligible if:

- Your baby is a newborn (up to 28 days old)
- Your baby needs open heart surgery for a congenital heart defect
- Your baby is having an arterial switch procedure or Norwood procedure

You may NOT be eligible if:

- Your baby has a chromosomal condition (such as Down syndrome)
- Your baby has a congenital lung abnormality
- Your baby has a blood disorder
- Your baby is older than 28 days

Talk to your doctor about whether this trial might be right for you.

## Key Eligibility Criteria

---

### Inclusion (1)

- Neonates undergoing open heart surgery for repair of congenital defects will be recruited. Specifically, children undergoing the arterial switch procedure and the Norwood procedure will be studied.

### Exclusion (1)

- Patients with chromosomal defects, associated congenital lung malformations, and haematological disorders and those older than 28 days will be excluded.

## Locations (1 total)

---

Australia

---

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12607000004460>

DISCLAIMER: This document is for informational purposes only and does not constitute medical advice. Always consult your healthcare provider before enrolling in any clinical trial. Information may not be up to date — verify details at [anzctr.org.au](http://anzctr.org.au). Generated by [ClinicalTrialsFinder.org](http://ClinicalTrialsFinder.org).