

# PREBO-6: Prediction of childhood Brain Outcomes in infants born preterm

ACTRN12619000155190

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Status	RECRUITING
Sponsor	Dr Joanne George
Enrollment	299 participants

## Plain Language Summary

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Babies born very early (before 31 weeks of pregnancy) are at risk of long-term challenges with movement, thinking, learning, and behaviour. Early MRI scans taken of these babies' brains, along with physical and neurological assessments, may be able to predict which children will develop these difficulties. The PREBO-6 study follows up children who participated in earlier research studies (PREMO and PREBO) and examines how they are doing now that they have reached six years of age.

At age six, children complete assessments of their motor skills, thinking and language abilities, educational achievement, and mental health. Researchers will see whether the early brain scans and assessments taken when they were babies predicted these later outcomes. If early scans can reliably predict development, families could receive tailored support and early interventions much sooner.

Your child may be eligible if they participated in the PREMO or PREBO study as an infant and are now turning six years old (corrected age). They should have been born at less than 31 weeks gestation, or be a term-born comparison child from those studies. Children with chromosomal or congenital abnormalities affecting development, or whose families do not speak English, are not eligible.

## Key Eligibility Criteria

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### Inclusion (3)

- Children are eligible for this study if they participated in the PPREMO or PREBO prospective study, and turn 6 years corrected age within the study period.
- Preterm participants: Children who were born at <31 weeks gestation
- Term-born participants: Children who were born between 38 and 41 weeks gestation following an uncomplicated pregnancy and delivery, had a birth weight above the 10th percentile, and were not admitted to neonatal intensive or special care units following their birth.

### Exclusion (2)

- ) Children diagnosed with any congenital or chromosomal abnormality that could adversely affect their neurodevelopmental outcome.
- ) Non-English speaking families.

## Locations (2 total)

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Lady Cilento Children's Hospital - South Brisbane, QLD, Australia  
Queensland Children's Hospital - South Brisbane, QLD, Australia

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<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12619000155190>

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