

Lungs for Life: Effect of using wearable oximeters at home, supported by a virtual digital care package, on health in preterm babies

ACTRN12624001080516

Status	RECRUITING
Sponsor	The University of Sydney
Enrollment	262 participants

Plain Language Summary

This study, called Lungs for Life, is designed to help babies born too early who develop a lung condition called Bronchopulmonary Dysplasia (BPD). BPD occurs when a premature baby's lungs are fragile and become damaged during the time they need breathing support in hospital. Once these babies go home, it can be hard to know when they're struggling to breathe.

The study tests whether a digital care package — which includes a wearable oxygen monitor that parents can use at home — leads to better health outcomes for babies with BPD compared to standard care. Families in the digital care group will be connected to healthcare professionals virtually, allowing any problems to be caught early.

Your baby may be eligible if they were born before 32 weeks of pregnancy and have been diagnosed with BPD. You'll also need a compatible smartphone (iOS or Android) and internet access at home. Babies with other serious medical conditions affecting breathing or growth are not eligible. This study aims to find the best way to support these vulnerable babies and their families after leaving hospital.

Key Eligibility Criteria

Inclusion (3)

- Infants born before 32 weeks postmenstrual age who are diagnosed with Bronchopulmonary Dysplasia (BPD).
- Smartphone access compatible with Masimo SafetyNet smartphone application: iOS v11.0+ or Android v6.0+, with Bluetooth 4.2+
- Signed, written informed parent or guardian consent.

Exclusion (4)

- Infants greater than 41+6 weeks postmenstrual age at randomisation
- No internet (minimum 3G) (<1% Australian adults) or compatible smartphone (<7% all Australians) access at usual place of residence
- Infants with congenital abnormalities that could affect survival, growth, respiratory status or oxygenation or complex respiratory needs
- Infants with known allergic reactions to foam rubber products and/or adhesive tape

Locations (5 total)

The Children's Hospital at Westmead - Westmead, NSW, Australia
Liverpool Hospital - Liverpool, NSW, Australia
Royal Hospital for Women - Randwick, NSW, Australia
... and 2 more locations

<https://www.anzctr.org.au/Trial/Registration/TrialReview.aspx?ACTRN=ACTRN12624001080516>

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