

WHAT HAPPENS TO THE RESULTS?

The results of the lung function testing are used for research only. These results will be used to determine the normal variability of the test in a healthy population. All information will be de-identified and kept in a secure, locked location at the Telethon Kids Institute in Perth Children's Hospital.

WANT TO DISCUSS IT FURTHER?



If you would like to discuss this study further, please contact our research team via email or phone.

Email: bxresearch@telethonkids.org.au

Phone: 0408 953 518



About the Western Australian Paediatric Bronchiectasis Cohort Study

The Western Australian Paediatric Bronchiectasis Cohort is an observational, longitudinal cohort study based at the Respiratory Medicine department of the Perth Children's Hospital.

The overarching objective of this study is to improve the health outcomes of young people with bronchiectasis, which remains a largely underdiagnosed and neglected lung disease in children and adolescents worldwide.



A Powerhouse Partnership



RESPIRATORY RESEARCH CENTRE

Healthy lungs for every child, for life

A Powerhouse Partnership



Western Australian Paediatric
Bronchiectasis Cohort Study

**LUNG FUNCTION TESTING
for healthy children and
adolescents**

This brochure will give you some basic information about the lung function testing that is part of the Western Australian Paediatric Bronchiectasis Cohort Study.

You should also read the study information sheet which will provide additional information.



WHY ARE WE DOING THIS STUDY?

We are conducting a study to understand how a lung condition called bronchiectasis develops during childhood. Children living with bronchiectasis undergo many tests as part of their clinical care to detect and monitor lung health. Collection of lung function data from local healthy controls will significantly enhance our understanding of lung function in children living with bronchiectasis.

WHO CAN PARTICIPATE?

Children and adolescents younger than 18 years of age and who do not have a history of respiratory illness or breathing problems will perform lung function testing for this study.

WHAT WILL THIS STUDY TELL US?

Your child's results will be compared with data from children living with bronchiectasis. By looking at any differences between these groups, we can begin to identify what is causing some of the breathing issues we are seeing in children with bronchiectasis.

WHAT'S INVOLVED IN LUNG FUNCTION TESTING?

There are three types of tests that we perform as part of the Western Australian Paediatric Bronchiectasis Cohort study, described below.

➤ (i) Multiple Breath Washout

This test requires your child to breathe normally through a mouthpiece for a few minutes at a time. We will use 100% oxygen (gas) to washout the air that is normally in your child's lungs. This test tells us how evenly gas mixes in your child's lungs.



➤ (ii) Spirometry

This test requires your child to take a big breath in and blow out as fast and as hard as they can

for a period of 6 seconds. This test gives us information on the volume of air in the lungs and how fast they can blow that air out.

➤ (iii) Plethysmography

This test requires your child to sit in the lung function body box that looks like a see-through phone booth, with the door closed. Your child will be asked to breathe or pant into a mouthpiece with a nose clip on. This test measures how much air your child can hold in their lungs.

