

HOW OFTEN WILL THE SAMPLES BE COLLECTED?

- 1 Once in the morning when your baby enters the study.
- 2 Once in the morning just before your baby is discharged home.
- 3 When your child is approximately 2 years of age (corrected), at their CIRCA DIEM follow-up appointment.

DO YOU HAVE TO TAKE PART IN THIS SUB-STUDY?

Joining the Infection and Immunology Sub-Study is voluntary. If you do not wish for you and your baby to take part, you do not have to.

You can choose to opt in for all, some or none of the sample collections. You can also stop the storage of your baby's samples in our Biobank at any time. When your child turns 18, our research team will contact them to confirm they give consent for their samples to continue be stored.

Before you decide to take part, a member of the study team can answer your questions. Please ask anything you want and sign the consent form only if you feel satisfied.



INFECTION AND IMMUNOLOGY SUB-STUDY

Biobank



Government of **Western Australia**
Child and Adolescent Health Service

We would like to invite your baby to contribute samples to a biobank that will help us understand if early development of circadian rhythms can keep preterm babies healthier.



Our immune system is made up of many different cells and organs and plays a really important role in helping us to fight infections. Babies that are born early are more susceptible to infections in hospital, and during their first few years of life.

Research suggests that our body clock (circadian rhythm) plays an important role in regulating our immune system. We would like to investigate whether our study intervention (eye-masks and ear plugs at night during hospitalisation) affects the timing of circadian rhythm development, and whether this affects your baby's immune system and ability to fight infections.

WHAT IS A BIOBANK?

As a part of this sub-study, we would like to collect some different biological samples from your baby. These samples will be tested for the CIRCA DIEM Study, and we would also like to store the samples in a Biobank for future analysis.

A Biobank is a secure storage place for samples collected as a part of research projects. Biobanks contain a variety of different biological samples and are very important resources for research communities. Different research groups can apply to access the samples and data from a Biobank, that would otherwise take a long time (and require a lot of money) to collect from scratch.

With your consent, we will securely store the samples collected as a part of this sub-study in a Biobank at Telethon Kids Institute. This means that in the future, other researchers can apply to access your baby's samples to learn more about how illness affects the preterm population.

WHAT SAMPLES WILL BE COLLECTED?



Placenta

- We will keep a small section of your placenta from pathology for analysis.



Nose Swab

- We will take a swab from the inside of each side of your baby's nose to collect some cells and nasal fluid.



Cheek Cells

- Using a cotton swab, we will collect some cells from the inside of your baby's cheek.



Poo Samples

- Using a swab, we will collect samples from your baby's nappy.



Blood Samples

- We will also collect a small amount of blood from your baby. Whenever we can, we will collect these samples when blood is being taken from your baby as part of their normal clinical care.



WHO TO CONTACT FOR MORE INFORMATION?



If anything in this brochure has raised any concerns for you, please contact the CIRCA DIEM team via email on:

 circadiem@telethonkids.org.au