TYPE 1 DIABETES

National Screening Program

Australian Type 1 Diabetes National Screening Pilot

5th Childhood Diabetes Prevention Symposium: General Population Screening for T1D

Dr Kirstine Bell

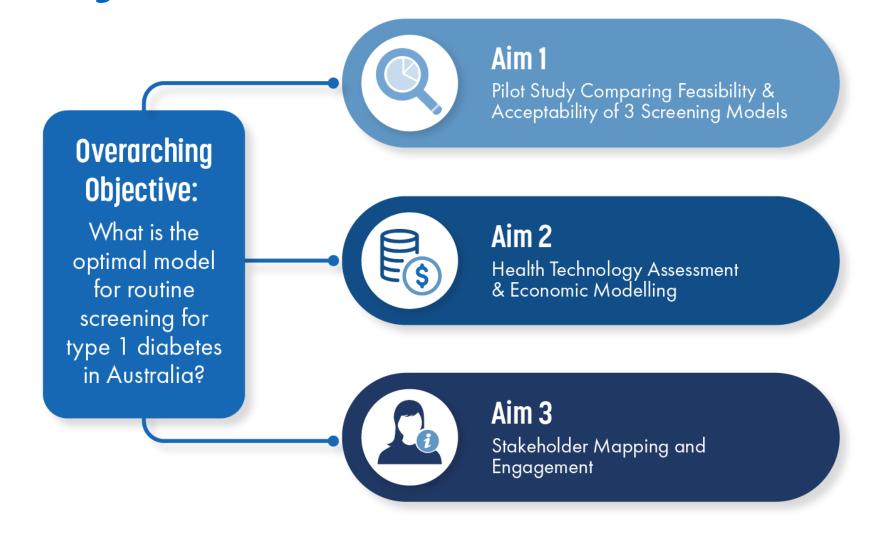
Principal Research Fellow – Type 1 Diabetes National Screening Pilot

University of Sydney



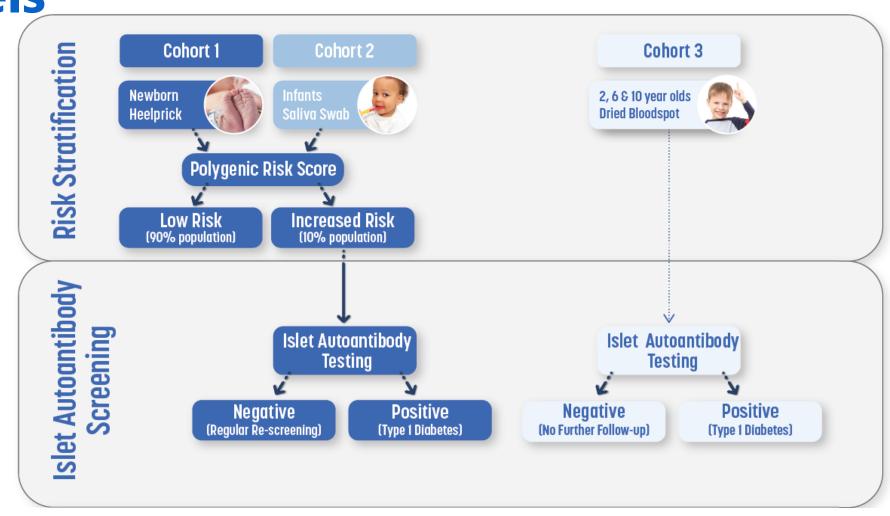


Pilot Objectives & Aims



National Screening Pilot

Aim 1: Implementation Pilot of 3 Screening Models





Each screening model (cohort) Cohort 2 offered in two geographically **Brisbane North** Western Sydney distinct catchments areas **Cohort 1** RHW **RPA** St George Cohort 3 **Cohort 3** South-East Perth North-West Melbourne

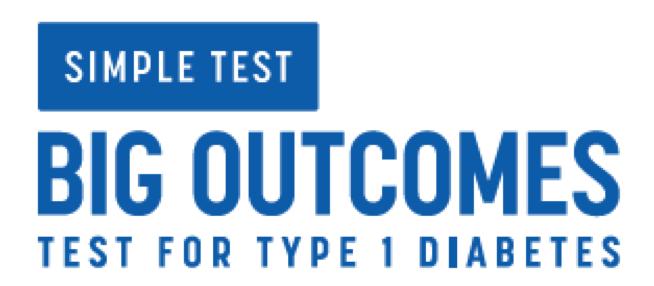
Cohort 1 Women's & Children's Hospital



The Campaign

TYPE 1 DIABETES

National Screening Pilot





Cohort 1 (Newborns)

Parents of newborns are offered screening through a heel prick dried bloodspot alongside existing Newborn Screening Program.



Cards for hospital bassinets



Where can I find more information?





Your midwife can help answer your questions www.KidsDiabetesScreen.com.au 1800 505 909





This study has been approved by the Sydney Children's Nospitals Network Human Research Ethics Committee (Approval Number: 2022/ETH00537). If you have any concerns or complaints, you can contact the Helber Executive Officer on 10(2) 1945-11526 or SCHM-Fritiscalhealth new away our 1797 to IUABETES NATE SOSTEIN SEPTIME 10(1) IN EVENDING ADDITIONAL PORTIONS OF THE VIZ 20/01/42/ET VIZ



Cohorts 2 and 3

Parents of children in cohort 2 (6-12mo) and cohort 3 (2, 6 & 10 years) are mailed invitation letters and brochures by Services Australia. Prompted to visit website for self-directed registration





WHAT DOES SCREENING INVOLVE? Screening is free, simple, quick and safe.

The test involves a saliva swab, rubbed along your child's gums in their mouth. It can be done at home or with your local doctor or participating pharmacy. This test will show if your child has a combination of small variations in their DNA that are linked with type 1 diabetes.

You will receive your child's test result online, along with information explaining what the result means and what to do next. Results can take up to 16 weeks.

HOW DO I HAVE MY CHILD SCREENED?

Screening for type 1 diabetes is being offered to children aged 6-12 months living in your local area for a limited time.



Sign up online to receive your free at-home screening kit www.KidsDiabetesScreen.com.au



Visit your local doctor or participating pharmacy (see website for locations)



WHAT HAPPENS IF THE TEST FINDS THAT YOUR CHILD HAS AN INCREASED CHANCE OF TYPE 1 DIARFTES?

A positive screening test result means your child has a risk factor for developing type 1 diabetes in childhood. It is not a diagnostic test and it does not mean your child has, or definitely will develop, type 1 diabetes.

One in every 10 children has an increased chance of developing type 1 diabetes. However, only a small number (1 in every 40 children) will develop the condition. We do not know which children will or won't develop type 1 diabetes. So all children with an increased chance will be offered free follow-up testing. This follow-up test shows if they start developing the condition, even before they feel any symptoms.

We will be here to help and support you. The earlier type 1 diabetes is detected, the sooner it can be treated.

WHAT HAPPENS IF THE TEST RESULT IS NORMAL?

Most children (9 out of 10 children) will receive a normal test result. This means your child has a very low chance of developing childhood type 1 diabetes in the future. Less than 0.1% will develop the condition during childhood. Children with a normal screening test result will not require any follow-up testina.

BIG OUTCOMES TEST FOR TYPE 1 DIABETES



Website

www.KidsDiabetesScreen.com.au

- Website for community & health professionals directs user to cohort-specific information about T1D and screening
- Cohorts 2 & 3 -> Links to self-directed eligibility check and self-registration (Cohort 1 newborns recruited through hospitals)



Health Professionals

Log in 🙏

Menu 🗮

Every day three children are diagnosed with type 1 diabetes in Australia.

With a simple test, the type 1 diabetes National Screening Pilot can help find these children as early as possible, avoid the trauma of a missed diagnosis, and support families in every way possible.

About type 1 diabetes





The Type 1 Diabetes National Screening Pilot is open for registrations, select your state to find opportunities in your area.

Select your State/Territory:



The Type 1 Diabetes National Screening Pilot aims to find the best way to offer screening for type 1 diabetes to children in Australia.

This national 'not for profit' research pilot is led by the University of Sydney, with collaborating universities and hospitals around Australia. It is funded by JDRF, a research foundation for type 1 diabetes.

Participating Organisations







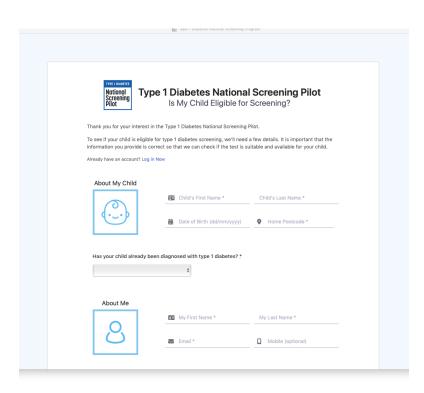
Check eligibility

Supported by

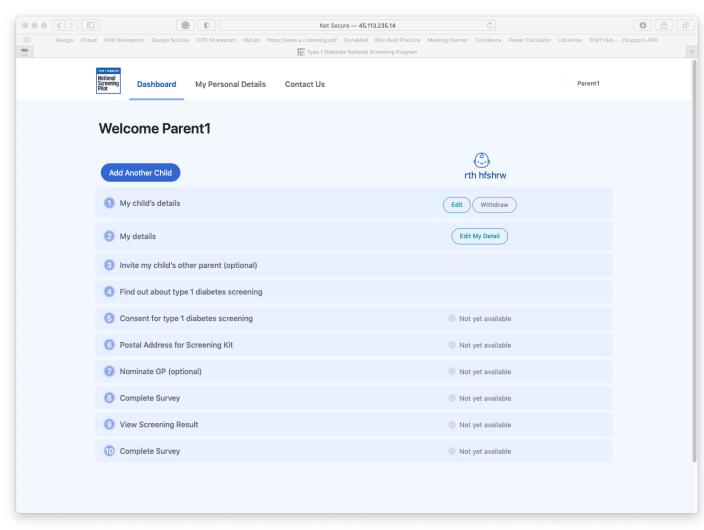




Portal/Database



Screening portal guides families through registration, online consent, ordering screening kit, receiving screening results and completing surveys





Dedicated Screening Helpline



1800 505 909

Monday – Friday, 9am to 4pm AEST

Staffed by: Paediatric CDE, Genetic Counsellor & Research Staff

Alternatively:

Request a call back via website OR Email: info@KidsDiabetesScreen.com.au



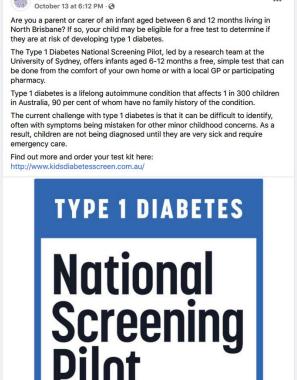
Media & Social Media

Communication Strategy

- National launch for Australia's National Diabetes Week (July 11-15th 2022)
- Local print, radio & TV media for launch of each catchment area (staggered starts)
- Paid social media marketing through Mum's groups etc



Channel 9 News (TV), 6th October 2022



Brisbane Mums Group

KIDSDIABETESSCREEN.COM.AU

Type 1 Diabetes National Screening Pilot

With a simple test, the Type 1 Diabetes National Screening ..

Learn more

Wednesday October 05, 2022 ST GEORGE & SUTHERLAND SHIRE LEADER !

*Early signs of type 1 di

can be missed or confused with other minor childhood concerns," she said

"As a result, at least on

in three Australian children

with type 1 diabetes are no

Pilot launch to keep newborns in check

Type 1 diabetes screening



Kirstine Bell's son Harry was the first baby to have a Type 1 diabetes test done at St George Hospital, Dr Bell led the part of the national newborn appearing, they can escalate at St George Hospital, said devalopment of a screening program. Picture supplied

born screening pilot pro-The Type 1 Diabetes ational Screening Pilot,

nded by IDRF and led by University of Sydney team eloping type 1 diabetes.

est, done when the usual



quickly, and by then a lot of the free test gave parents th

niversity's Charles Perkins condition, but we know that Centre, has been the lead with nine out of 10 babies, have my bub screened," Dr George being the first hospi- comes out of the blue. When assuring. tal to offer the test, the goal symptoms, such as thirst,

researcher of the pilot since there's no family history. Bell said, "There's no extra fied as having an increased it started in 2020. With St. For those families, it really prick for the baby and its re-risk will be notified and invit is to expand, and become tiredness, irritability, start da Henry, an obstetrician signs of the condition

St George & Sutherland Shire Leader Newspaper, 5th October 2022 (Fun fact: My baby was the first newborn screened for T1D in Australia)



Cohort 2 Saliva Kits



Our specially-designed kits contain the child's saliva swab and instructions, then function as reply-paid return mailers.





Cohort 3 Bloodspot Kits



Our pilot-branded finger prick dried bloodspot kits are mailed out to families with custom 2-spot screening cards and reply-paid branded envelopes.







Uptake to Date

Screening uptake for each cohort is the primary outcome,

as a summary indicator of feasibility and acceptability.

Therefore, targets represent maximums rather than required minimums for power. Study is an implementation study and is not powered for clinical outcomes.

| Cohort | Launch Date | Uptake as of 8 th Nov 2022 | Target Uptake |
|------------------------|--|---------------------------------------|---------------|
| Cohort 1 (Newborns) | 4 th & 18 th October (2 of 4 hospitals to date) | 129 | n = 3,000 |
| Cohort 2 (6-12mo) | 11 th July 2022 | 697 | n = 3,000 |
| Cohort 3 (2, 6 & 10yo) | 8 th August 2022 | 386 | n = 3,000 |



National Multidisciplinary Scientific Team Multidisciplinary DRF IMPROVING LIVES. CURING TYPE 1 DIABETES.





Prof Bill Hagopian

Prof Richard Oram





Dr Kirstine Bell (PI)



Prof Maria Craig



Prof Jenny Couper



Prof Peter Colman



A/Prof John Wentworth



Prof Elizabeth Davis



Dr Christel Hendrieckx



Dr Gary Deed



Prof Natasha Nassar



A/Prof Amanda Henry



Dr Antonia Shand



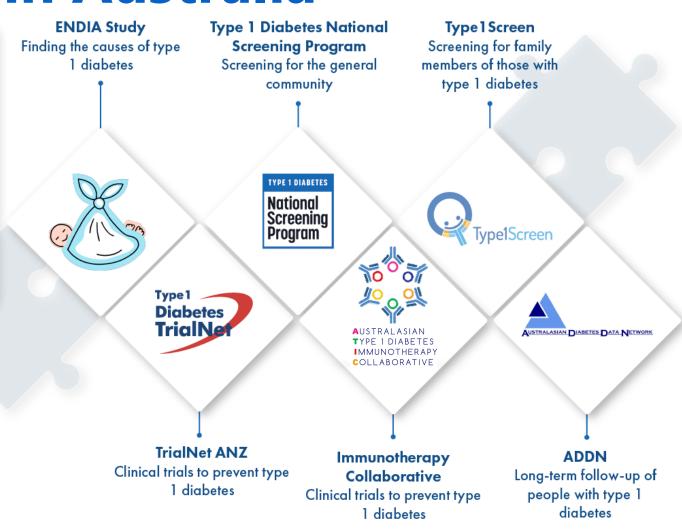
Prof Adrienne Gordon



We are also part of the larger T1D screening & prevention research network in Australia

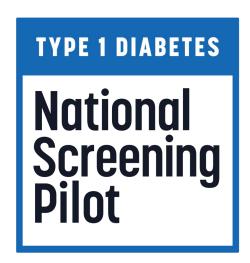
Type 1
Diabetes
Screening &
Prevention in
Australia

Working together to identify those at-risk of type 1 diabetes to improve health and ultimately prevent type 1 diabetes



Kindly supported in part by JDRF







Pilot Ongoing Until Mid-2024

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www.KidsDiabetesScreen.com.au