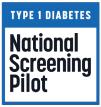
Australian Type 1 Diabetes National Screening Pilot

Dr Kirstine Bell

Principal Research Fellow Charles Perkins Centre, University of Sydney



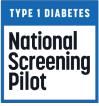




Vision

A routine, publicly-funded National Screening Program for all children in Australia

Realistic, scalable, sustainable, equitable and cost-effective



Overarching Objective: What is the optimal model for routine screening for type 1 diabetes in Australia?

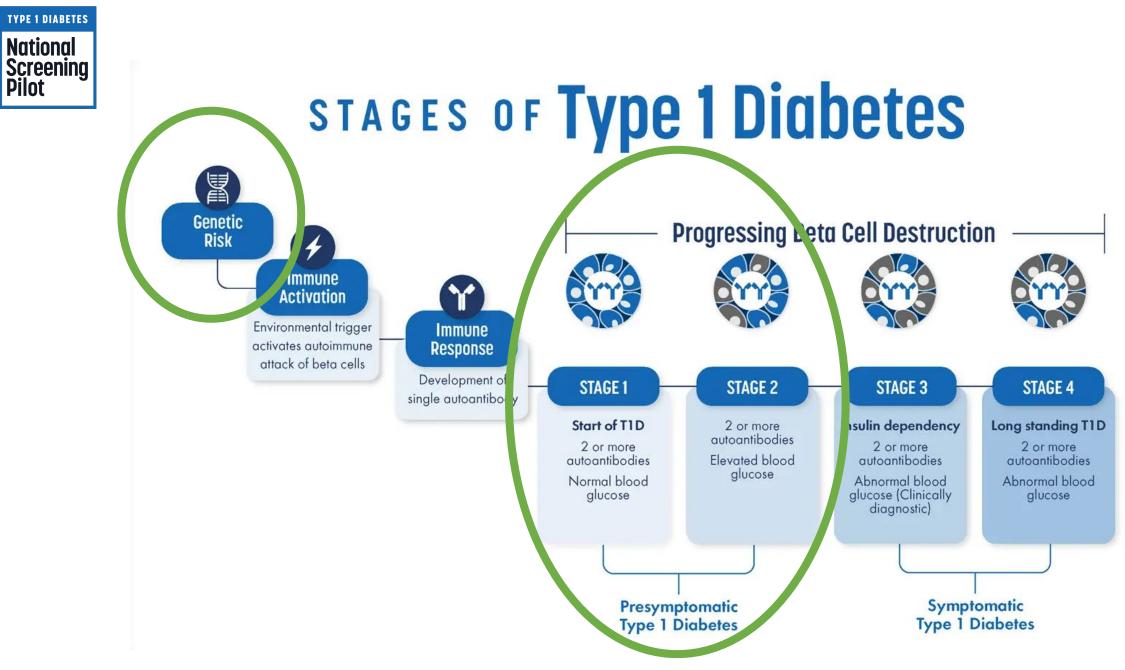
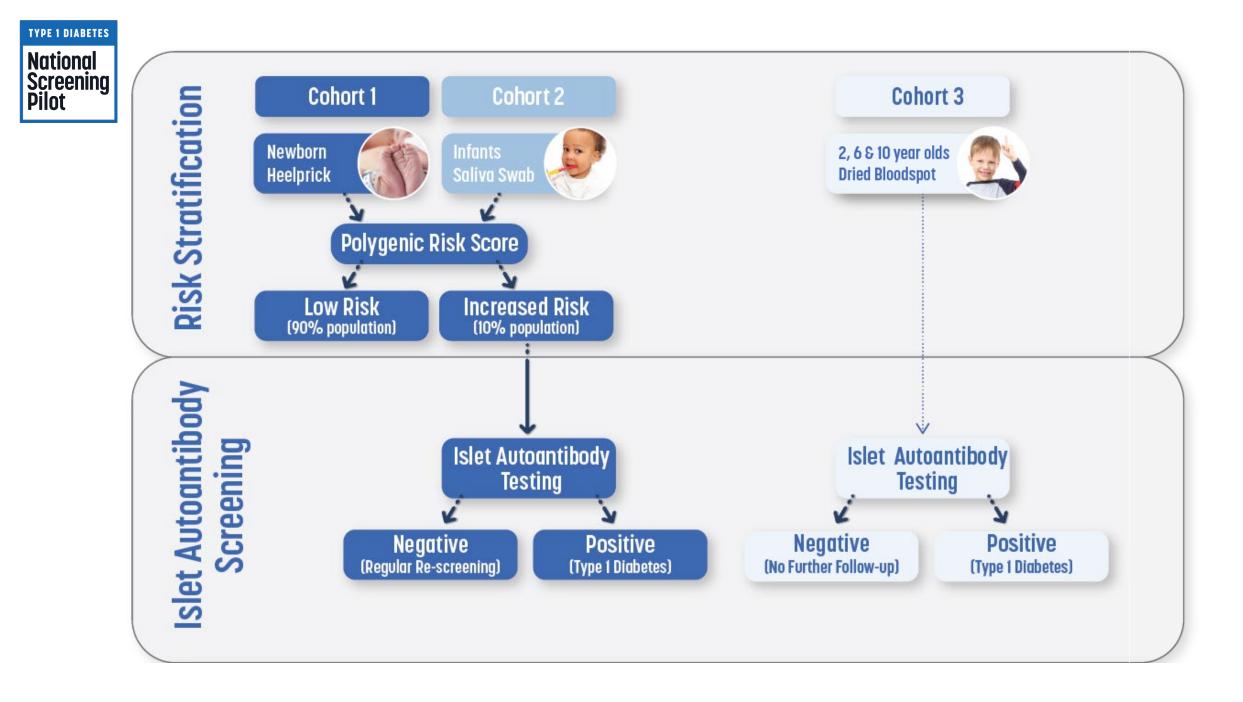
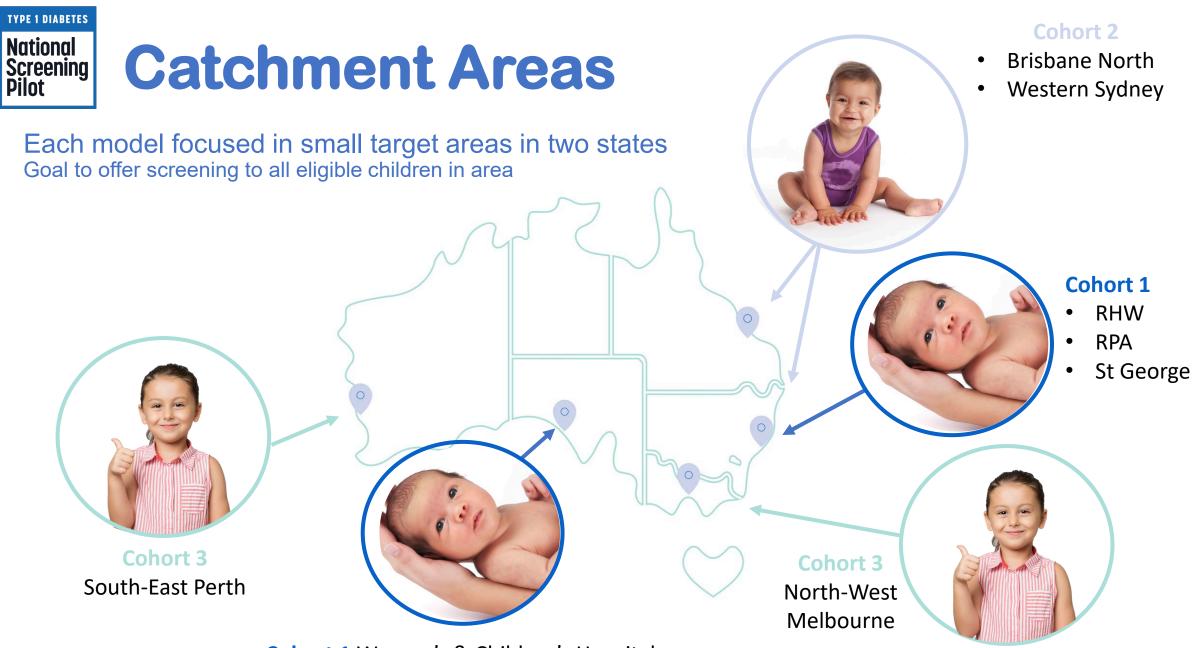


Figure Adapted from TrialNet

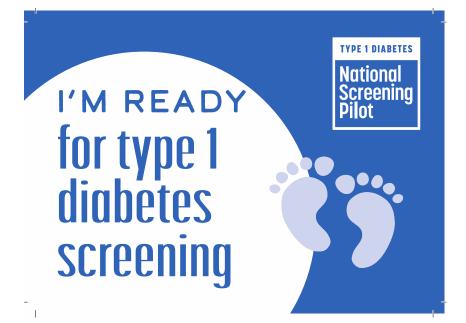




Cohort 1 Women's & Children's Hospital

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



This study has been approved by the Sydney Children's Hospital's Network Human Research Ethics Committee (Approval Number: 2022)ETH00537). If you have any concerns or complaints, you car contact the HREC Executive Officer on (02) 9845 1253 or SCHN-Ethics@health.nsw.gov.au. TYPE I DIABETES NATIONAL SCREENING PILOT. NEWBORN ADVERTISING POSTER VI.2 29/04/2022

TYPE 1 DIABETES National Screening Pilot

Cohorts 2 and 3





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.

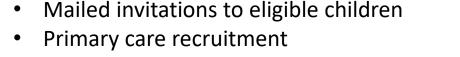
HOW DO I HAVE MY CHILD SCREENED? Screening for type 1 diabetes is being offered to children aged 6-12 months living in your local area for a limited time.



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)





CHILD HAS AN INCREASED CHANCE OF TYPE 1 DIABETES?

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 followup 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

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.



Health Professionals

National Screening Pilot

Website

www.KidsDiabetesScreen.com.au



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.



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

children's

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



NSW Health South Eastern Sydney Local Health District



Select your State/Territory:



The Type 1 Diabetes National Screening Pilot is open for registrations, select your state to

find opportunities in your area.

Check eligibility

Supported by



TYPE 1 DIABETES National Screening Pilot **Portal/Database**

National Screening Pilot	pe 1 Diabetes Nationa Is My Child Eligible for	
Thank you for your interest	in the Type 1 Diabetes National Screening	Pilot.
	e for type 1 diabetes screening, we'll need correct so that we can check if the test is s	
Already have an account? Log		
About My Child	Child's First Name * Date of Birth (dd/mm/yyyy) een diagnosed with type 1 diabetes? *	Child's Last Name * Home Postcode *
About Me	3 My First Name *	My Last Name *

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

	®		Not Secure — 45.113.235.14	٢	G	
Google iCloud FMH S	harepoint Google Scholar	CPC Sharepoint MyLab http	s://www.acreening.pdf DynaMed BMJ Best Practic DynaMed BMJ Best Practic	e Meeting Planner Covidence Power Calo	culator LibreView Staff HubfSupport	-APD
tvs Journal National Screening Pilot	Dashboard	My Personal Details	Contact Us		Parent1	
Wel	lcome Parer	nt1				
Add	Another Child			() rth hfshrw		
0 1	My child's details			Edit Withdraw		
2 1	My details			Edit My Detail		
3 1	nvite my child's other	r parent (optional)				
4	Find out about type 1	diabetes screening				
6	Consent for type 1 dia	abetes screening		Not yet available		
6 1	Postal Address for Sc	reening Kit		Not yet available		
1	Nominate GP (optiona	al)		Not yet available		
8 (Complete Survey			Not yet available		
9 V	View Screening Resul	lt		Not yet available		
00	Complete Survey			Not yet available		



Cohort 2 Saliva Kits

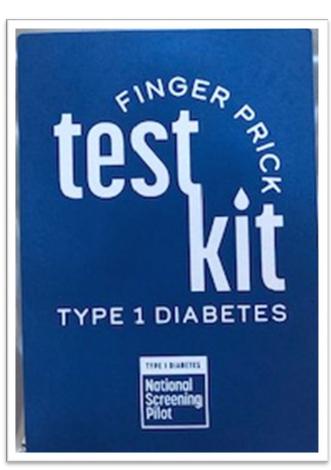


Our specially-designed kits contain the child's saliva swab and instructions, then function as reply-paid return mailers.





Dried 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.







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



Preliminary Results

TYPE 1 DIABETES

National

Screening Update As of 24th Oct 2023 Screening Pilot

Note: Cohorts have had staged rollouts, not all running identical durations.

	Cohort 1	Cohort 2	Cohort 3	Total
Registered Children	2,287 Screening Closed	2,095 Available to Dec '23	2,025 Available to Dec '23	6,407
Consented Children % of registered	94%	84%	82%	87%
Samples Collected/Received % of consented	92%	70%	50%	73%
Screening Results Returned % of samples received/collected	12% Returned at ≥ 11mo	50% Returned at ≥ 10mo	95%	41%
Genetic - Increased Chance % of returned results	8%	9%	N/A	9%
Antibody Positive (1+ IAb)	0	1	2 +3 pending	0.2-0.3%



Preliminary: Demographics

	Cohort 1 (Newborns)	Cohort 2 (Infants)	Cohort 3 (Children)
or Q Sex (M/F)	51%/49%	52%/48%	52%/47%
i Age			2yo: 34% 6yo: 31% 10yo: 35%
T1D Fam Hx	Yes: 11% Unsure: 14%	Yes: 16% Unsure: 16%	Yes: 14% Unsure: 16%
Ethnicity	Oceanian/European: 56% South/East Asian: 24% Middle Eastern: 6% South American: 5% African/ATSI/Other: 10%	Oceanian/European: 66% South/East Asian: 23% Middle Eastern: 4% South American: 3% African/ATSI/Other: 4%	Oceanian/European: 69% South/East Asian: 22% Middle Eastern: 2% South American: 2% African/ATSI/Other: 6%

National Screening Pilot PIO	Screening
Reason	%
My child may benefit from knowing the results of this screening	g test 26
Other families and children can benefit from the results of this the future	pilot in 16
It is easy to have my child screened	14
The screening test is free	10
To contribute to research	10

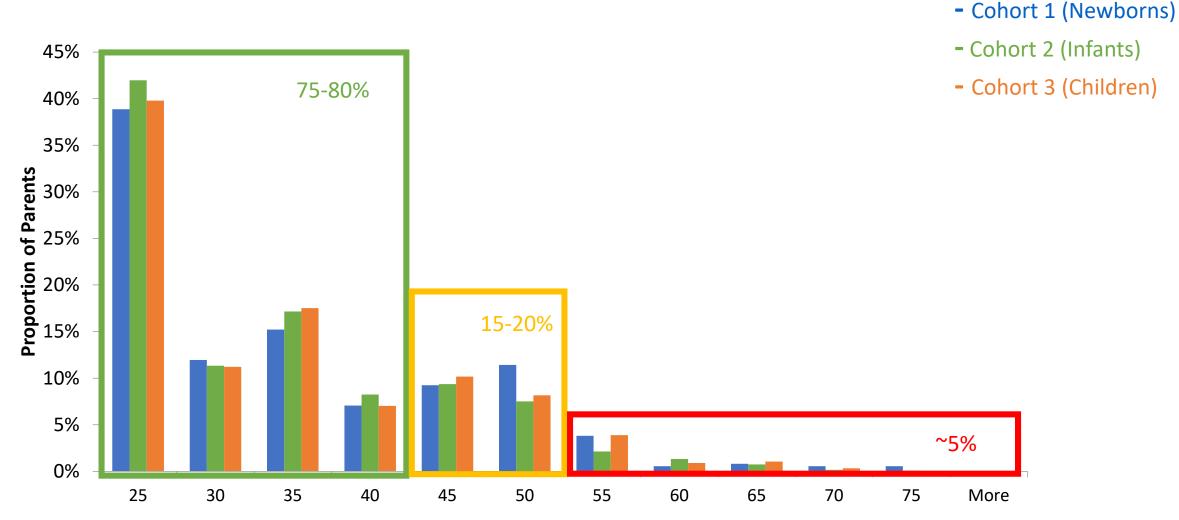


Preliminary: Top Hesitations

Reason	%
None of these apply	30
I am too busy/don't have enough time	15
I have concerns about the test (e.g., could be painful for my child)	10
I am not worried about my child's risk of type 1 diabetes	8
Completion of surveys is too demanding	7

National Screening Pilot

Preliminary: Parental Anxiety is Low



Parental Anxiety Scores (SAI – T1D-Risk Specific)





Nov 2023 Launch in School Screening Program (C3)

Final media & social media advertising (C2-3)

Dec 2023 Screening closes (C2-3)

Jan 2024 HTA & Economic modelling commences

June 2024 First follow up of genetically atrisk children closes (C1-2)

Nov 2024 Final results of Pilot due





Multidisciplinary Collaborating Team





Richard Oram



Liz Davis



Amanda Henry



Kirstine Bell (PI)



Christel Hendrieckx



Maria Craig



Gary Deed



Jenny Couper



Natasha Nassar



Peter Colman



Antonia Shand



John Wentworth



Adrienne Gordon



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