



National Children's Digital Health Collaborative
Using digital technology to improve the health and wellbeing of Australian children

Child Digital Health Record – An Introduction

 National Children's Digital Health COLLABORATIVE

www.childrengcollaborative.gov.au

1

What is the National Children's Digital Health Collaborative?



This innovative program was set up in April 2017, bringing together Australia's leading experts in children's health to identify a number of strategic digital health projects.

The Collaborative aims to improve the **health** and **wellbeing** of all Australian children and young people, and includes representatives from all Australian health departments across all disciplines.

The Collaborative has established four strategic initiatives:

1. **Child Digital Health Record**
2. **Digital Pregnancy Health Record**
3. **Child Digital Health Checks**
4. **Research into the Child Digital Health Record**



 National Children's Digital Health COLLABORATIVE

2

The need for a Child Digital Health Record

Currently a child's health records are stored on multiple paper and digital systems



and parents carry the paper records between appointments and healthcare providers

But these records can be:



forgotten



misplaced



double-entered



Plus, each state & territory in Australia have their own record system, and so do private healthcare providers



→ This can make it difficult for families and healthcare providers to access the information they need, when they need it

Moving from state-based paper records to a national digital record



Eight State & Territory Child Personal Health Records



One National Child Digital Health Record

A harmonised Child Digital Health Record will:



Support clinicians in providing better integrated and coordinated care



Make health information easily accessible – anytime and anywhere



Empower families to be partners in their child's care alongside healthcare providers



Improve the overall safety and quality of care



Better track key childhood milestones and health interventions, such as immunisations

What are we developing?

Health Provider Viewer

The Health provider viewer has been developed through extensive consultation and workshops with healthcare providers and hospital clinicians

GPs & Hospital Staff will be able to see the health provider viewer (embedded in existing systems) this will contain relevant child health information such as health checks and vaccinations



Consumer App

Participating consumers will have access to an App that will display child health data, data from the hospital and GP systems, as well as having the ability to input their own information and milestone recording

Where is the Child Digital Health Record trial happening?



The CDHR will be trialed across a number of locations in NSW with Victoria as the evaluation partner.

- **Participating Sites:**

- Blacktown Local Government Area
- Dubbo
- Coonamble

- **Purpose:**

- To test the feasibility and required functionality to successfully digitise and make Baby Book information available electronically for all healthcare providers and parents/carers of that child



7

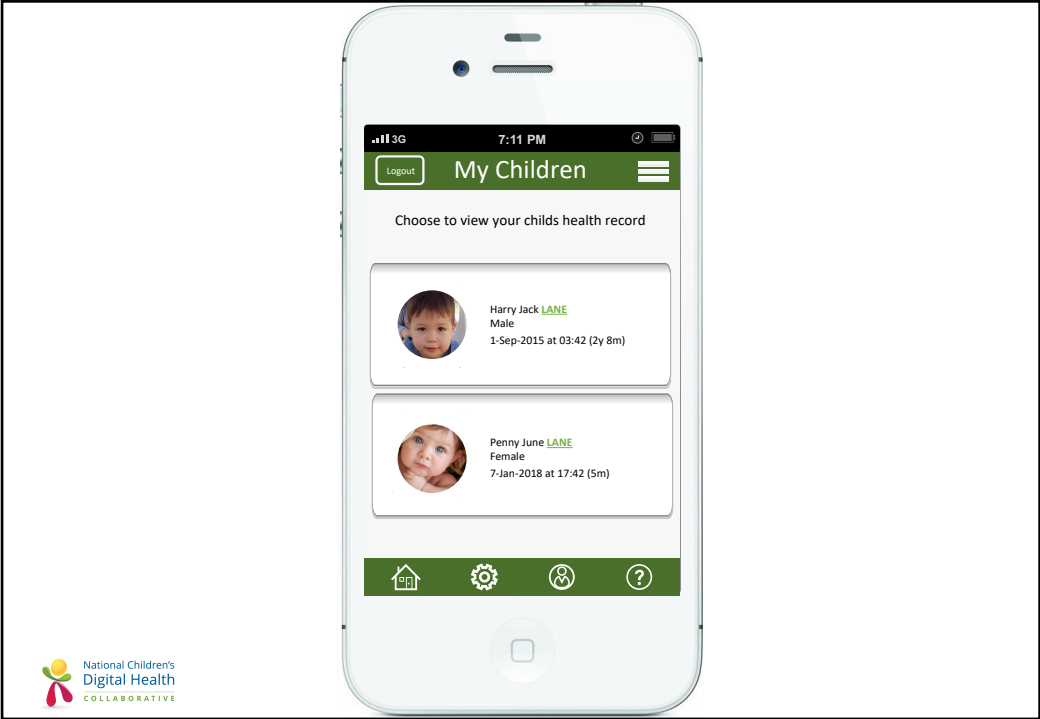
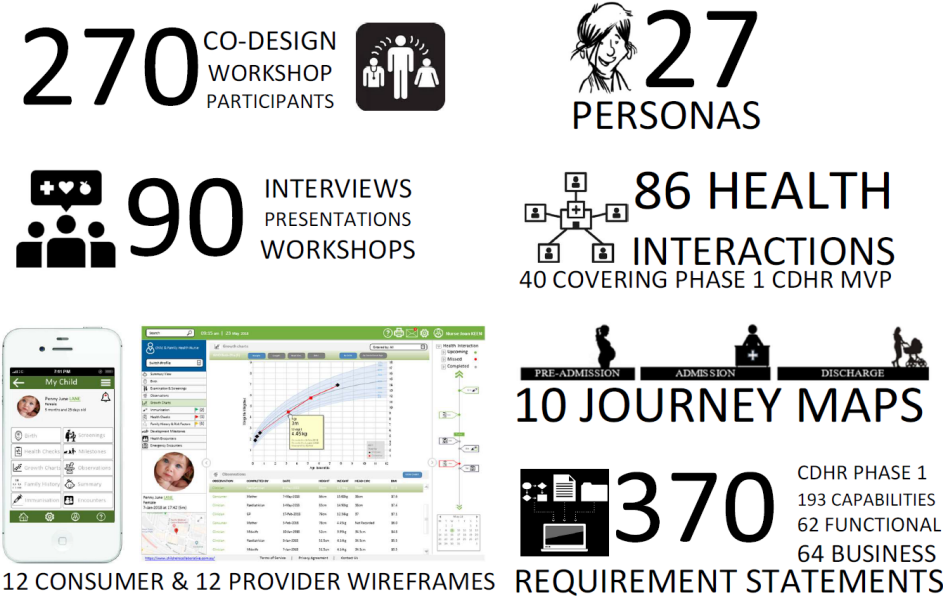
Who can participate in the Child Digital Health Record trial?

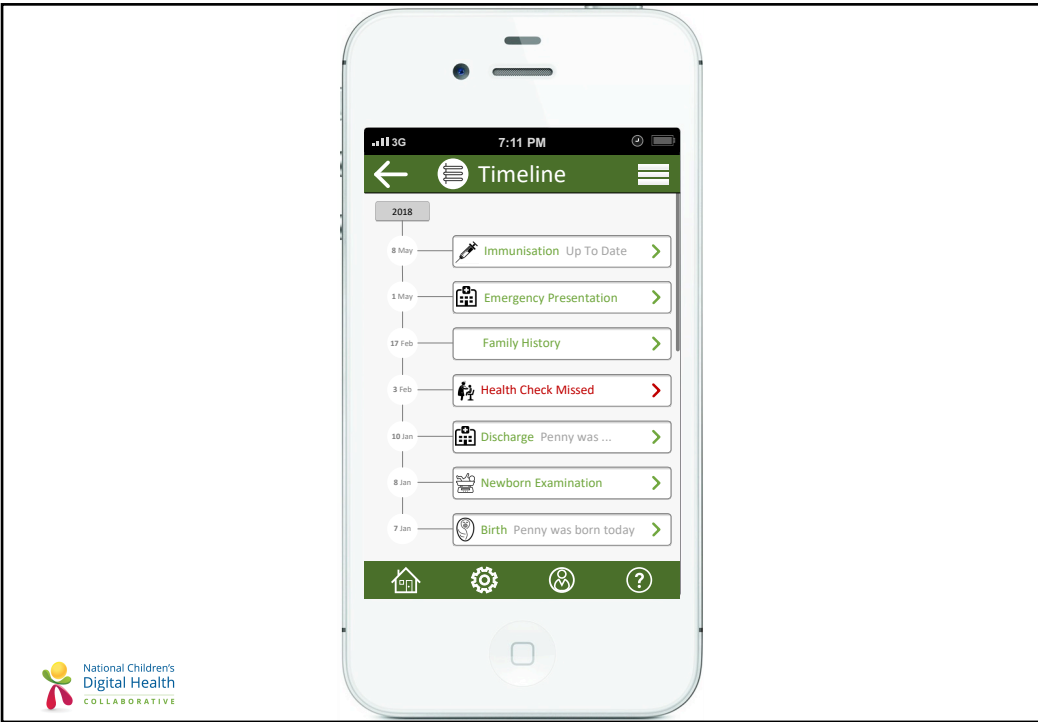
- Be willing to participate and provide consent to terms and conditions of the trial
- Have access to a connected smartphone and be willing to download CDHR App
- Currently reside in the trial area and plan to do so for the trial period, or in a catchment area and visiting healthcare providers participating in the trial
- Be planning to have your baby at **Blacktown Hospital** or **Dubbo Base Hospital**
- Be planning to visit:
 - Mt Druitt, Doonside or Dubbo Community Health Centres
 - Participating General Practices within the trial locations
 - Participating Aboriginal Medical Services within the trial locations



8

How have these been developed? Co-design engagement & consultation





PoC – CHDR - Provider Viewer - Birth

Search 09:15 am | 23 May 2018 Nurse Joan

Child & Family Health Nurse

Switch Profile

Summary View

Birth

Examination & Screenings

Observations

Growth Charts

Immunisation (2)

Health Checks (1)

Family History & Risk Factors (1)

Development Milestones

Health Encounters

Emergency Encounters

Penny June LANE
Female
7-Jan-2018 at 17:42 (5m)

Birth details

ATTRIBUTE DETAILS

Name of Birth Facility Blacktown Hospital

Length of Gestation 41.5 weeks

Type of Birth Normal Vaginal Birth

Labour Initiation Spontaneous

Maternal Problems in Pregnancy Nil

Birth Complications Nil

Abnormalities Noted at Birth Nil

APGAR 1m: 9 | 5m: 9 | 10m: Not observed

Birth Weight 4140 g

Birth Length 51.5 cm

Birth Head Circumference 34.5 cm

Newborn Bloodspot Completed | 7-Jan-2018

Newborn Hearing Not completed

Vitamin K given at Birth Given

Hep B Immunoglobulin Given

Hep B Immunisation Given

Examiner Midwife, Judith NORMAN

Newborn discharge

ATTRIBUTE DETAILS

Date & Time of Discharge 10-Jan-2018, 12:30:00

Discharged From Blacktown Hospital

Admission to SCU / ICU No

Age at Discharge 3 days

Discharge Weight 3955 g

Discharge Head Circumference 34.5 cm

Discharge Length 52 cm

Feeding Status Breast

Family History Deafness

Examiner Midwife, Judith NORMAN

Health Interaction

Upcoming

Missed

Completed

Health Interactions

INTERACTION	DATE	SUMMARY	STATUS	ACTION
Vaccination Up To Date	8-May-2018	Penny's immunisation status is up to date	NEW	VIEW
Vaccination Reminder	7-May-2018	Penny's 4 month immunisation is due	COMPLETED	VIEW
Emergency Presentation	1-May-2018	Penny presented at Mt Drutt ED with Granny	COMPLETED	VIEW
Family History	17-Feb-2018	Penny's family history recorded by GP	COMPLETED	VIEW
Health Check Missed	3-Feb-2018	Penny has missed her 1-4w health check	ACTION REQUIRED	VIEW
Birth Discharge	10-Jan-2018	Penny discharged from Blacktown Hospital	COMPLETED	VIEW

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Indicative Design Only

PoC – CHDR - Provider Viewer – Immunisations (AIR)

Search 09:15 am | 23 May 2018 Nurse Joan

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Emergency Encounters

Penny June LANE
Female
7-Jan-2018 at 17:42 (5m)

Immunisation

Immunisation history

As at: 23-May-2018
For: Penny June, LANE
Date of birth: 7-Jan-2018
Immunisation status: up to date

Date given	Immunisation	Provider	Dose	Status	Reason Code	Brand name given
10-Mar-2018	Diphtheria Tetanus Pertussis Pneumococcal Rotavirus	General Practitioner	1	A-Accepted		Infanrix Hexa Prevenar Rotarix
18-May-2018	Diphtheria Tetanus Pertussis Pneumococcal Rotavirus	General Practitioner	2	A-Accepted		Infanrix Hexa Prevenar Rotarix

Next immunisation's due	Disease	Dose	Date Due
	Diphtheria Tetanus Pertussis	3	7-Jul-2018
	Meningococcal C	1	7-Jan-2019
	Diphtheria Tetanus Pertussis	4	7-Jul-2019

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Health Interaction

Upcoming

Missed

Completed

Indicative Design Only

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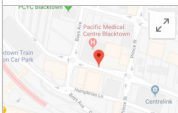
Emergency Encounters



Penny June LANE

Female

7-Jan-2018 at 17:42 (5m)



09:15 am | 23 May 2018

Search

Help, Print, Email, Settings, Nurse Joan

Breastfeeding

ATTRIBUTE

DETAILS

First Milk Feed

Maternal Breast Milk

Milk Feeding Status

Partially breast milk feeding

Feeding Method

Breast and Bottle

Date Breast Feeding Stopped

8-May-2018

Introduction of Solids

Yes

Feeding Concerns

Milk production has ceased

Consumer encounters

ENCOUNTER	DATE	PROVIDER	VENUE	COMMENTS	ACTION
Breastfeeding	8-May-2018	N/A	N/A	Breast feeding ceased	VIEW
Illness	2-May-2018	Dr Peter Walsh, ED Physician	Blacktown Hospital	Croup	VIEW
Surgery	11-Apr-2018	Dr Ruth Norman, Ortho Surgeon	Westmead Hospital	Fracture Repair	VIEW
Injury	10-Apr-2018	Dr May West, ED Physician	Westmead Hospital	Broken Arm	VIEW
Allergy	10-Mar-2018	Kim Jones, Community Nurse	Mt Druitt CHC	Allergy to Eggs	VIEW

Developmental milestones

MILESTONE	DATE OBSERVED	AGE*	COMMENTS	ACTION
Sits up without support	8-May-2018	4M 1D	Penny sat without support whilst having her lunch	VIEW
Rolls over	11-Apr-2018	3M 4D	Penny rolled over on the lounge room rug today	VIEW
Raises head when lying on tummy	23-Mar-2018	10W 5D	Penny raised her head by herself whilst on the rug	VIEW
Smiles at parents	7-Feb-2018	4W 2D	Penny smiled at Dad today during her nappy change	VIEW


* Indicates calculated field of the child's age at the date the milestone was observed

Health Interaction

Upcoming

Missed

Completed



May 18

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