



Harnessing the power of data and AI to create new diagnostic and therapeutic paradigms

How software-based technologies can change the game for patients

Data & Analytics in Healthcare, Melbourne

Wednesday 13 March 2024



Dee Dinneen

Director – CHICC, ANDHealth



OVERVIEW



- Introduction to ANDHealth
- Insights into Australia's Digital Health Sector
- Data and AI products that are changing the game for patients
- Data and AI products that are shifting the paradigm
- Learnings for evaluating AI in healthcare
- Future paradigm shifts?
- Visit us at CHICC



ANDHEALTH

Australia's Digital Health Commercialisation Engine Room



Our purpose is to accelerate the commercialisation of evidence-based digital health technologies in Australia.



Australia's leading provider of digital health commercialisation support and funding



Specialised technology identification, assessment and commercialisation acceleration capabilities



Manager of Australia's largest non-dilutive investment fund specifically for digital health companies



Proven outcomes across diverse growth metrics



Female-founded, female-led and founder focused

"I applaud the work that ANDHealth is undertaking. I congratulate ANDHealth on its significant achievements ... including your work to secure investment to accelerate investment in Australian digital health companies."

- The Honorable Mark Butler MP, Minister for Health and Aged Care

*"[ANDHealth] surfaced high quality companies of potential interest, many of which were not already on our radar. **Overall, this was by a distance the most effective international deal flow day we have participated in globally.**"*

- LARGE US CORPORATE VC

INDUSTRY-LED COOPERATIVE COMMERCIALISATION



ANDHealth's unique industry-led model facilitates business investment into digital health product development and commercialisation

ANDHealth is supported by the Australian Government Department of Health and Aged Care under the Medical Research Future Fund Early Stage Translation and Commercialisation Support Program



Australian Government
Department of Health and Aged Care

Medical Research
Future Fund



CORE PARTNERS



PROGRAM PARTNERS



INTERNATIONAL PARTNERS



ECOSYSTEM PARTNERS



ANDHEALTH ACTIVITIES



ANDHealth currently has three core areas of activity focused on achieving our purpose of accelerating the commercialisation and growth of Australian digital health companies.

Industry Growth, Development & Advocacy

- Leading Industry Database >850 companies
- Policy support & advocacy (State & Federal)
- Events, international outreach and promotion
- Industry outreach lead for TGA SaMD Regulation

Investment Readiness, Commercialisation Education & Skills Development

- Proprietary education and accelerator programs
- National & International Executives in Residence
- Targeted training & commercialisation support

Non-Dilutive Investment Programs

- Professional Investment Management for Public Funding (MRFF)
- Partnership with Australia's largest healthcare VC Firm, Brandon Capital (Digital & Connected Health Specialist)

The Highlights Reel: ANDHealth+



Gross Economic Value	\$4.2 of gross economic value (driven by employment) for every \$1 of ANDHealth+ Investment*
Capital	\$19.7 of capital raised for every \$1 of ANDHealth+ Investment
New Jobs	56 new jobs created for every \$1m of ANDHealth+ Investment
Intl. launches	4.1 international market launches per \$1m of ANDHealth+ investment
Revenue	\$6.7 of revenue earned for every \$1 of ANDHealth+ Investment
Clinical trials	9 clinical trials commenced for every \$1m of ANDHealth+ Investment
Patients served	87 patients impacted for every \$1k of ANDHealth+ Investment

LEK™



CHANGING THE GAME FOR PATIENTS

Exemplar products with data analytics, ML and AI as primary technology focus

SOUND SCOUTS



Overview

Game-based hearing screening application

Harnessing the power of data

Strong published evidence base: Data collected to intelligibility-equalize the stimuli, establish normative performance and evaluate the sensitivity with which Sound Scouts detected known hearing problems and identifies their type

Progress and maturity

- TGA Class I Medical Device, transitioning to Class IIa in line with SaMD requirements
- Has significant traction in the Australian Education market, previously funded by Australian Department of Health, Hearing Australia and NSW Health.
- Recently completed development of a clinical diagnostic tool for Auditory Processing Disorder for multiple markets.
- Currently using data insights to modify our existing software to be better suited to the aged care market.

Product





Overview

VaxApp is an immunisation management platform used by Public Health Services, pharmacies and workplace health service providers to improve access and uptake of vaccinations.

Harnessing the power of data

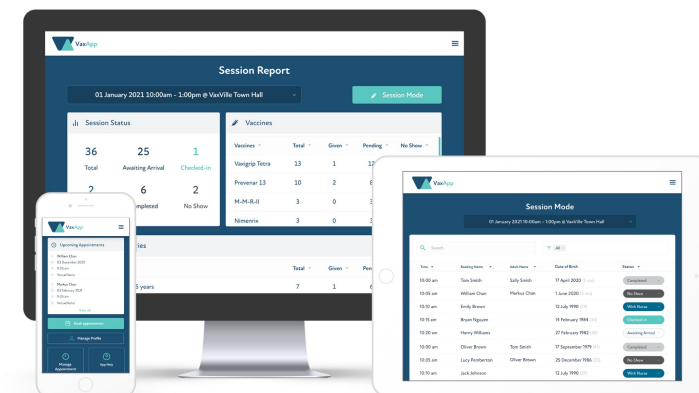
Integrations enabling actionable insights:

- Australian Immunisation Register (AIR)
- Vaccine inventory and stocktake
- Clinic availability and bookings etc.

Progress and maturity

- Developed the world's first immunisation Eligibility Engine to automate what vaccines a patient is eligible to receive, with life-time reminders.
- Implementation of the eligibility engine increased vaccine uptake:
 - for Chickenpox by 180%, Whooping Cough by 270% and flu vaccination uptake 25% at the City of Melbourne
 - for Meningococcal B by 100% for indigenous community at City of Greater Bendigo
- ANDHealth is supporting VaxApp to expand the Immunisation Eligibility Engine into catch up programs (for those who have fallen behind in vaccinations and new migrants/refugees) and travel vaccinations
- VaxApp is planning NZ, UK & Ireland expansion in late 2024

Product



A decorative graphic in the top left corner consisting of a complex network of teal and light blue nodes of various sizes connected by thin lines, resembling a molecular or data network.

SHIFTING THE PARADIGM

Exemplar products with data analytics, ML and AI as primary technology focus

BAYMATOB



Overview

An AI-powered wearable 'Oli' which aims to create a digital platform for early warning in maternal health.

The first planned capability is to predict post-partum haemorrhage before birth, enabling early intervention.

Shifting the paradigm

Completely novel. ML training data generated by the device.

Progress and maturity

- Baymatob has completed a PoC study, animal studies, and a 150 patient Pilot study.
- The completed Oli Pilot has been used to train the ML algorithm.
- Has received FDA Breakthrough device designation for early-warning for PPH.
- Approval pathway is FDA de novo.

Product



LIFE WHISPERER BY PRESAGEN



Overview

AI enhanced fertility: AI image assessment of embryos for their likelihood of success in IVF allowing embryologists to select the most viable embryos

Shifting the paradigm

AI open projects collaboration model

Progress and maturity

- Strong published evidence base for Life Whisperer Viability AI
- Global distribution partnership with FUJIFILM Irvine Scientific
- AI Open project in progress: Endometrial Receptivity from static endometrial ultrasound images

Product





LEARNINGS FOR EVALUATING AI IN HEALTHCARE

ANDHEALTH'S COMPANY ASSESSMENT MATRIX



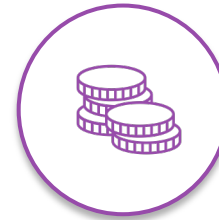
- Each time a company engages with ANDHealth through our programs, events and office hours our team assesses the company across the following categories to determine their stage of development.



**Market &
traction**



**Commercial
potential**



**Path to
revenue model**



**Technology
maturity**



Capital raised



Regulation



Clinical evidence

IMPORTANT ADDITIONS FOR EVALUATING AI



Clinical evidence

Clinical evidence

- Generalisability
- Relevant performance metrics
- Evaluation design: retrospective vs prospective evidence



Technology maturity

Technological maturity

- Product development
 - Volume of training data
 - Quality of training data
 - Relevance of training data to clinical use case and ML task
- Deployment and monitoring
 - Integration maturity
 - Performance shift and drift

A decorative network diagram in the top left corner, consisting of numerous blue and grey nodes of varying sizes connected by thin lines, forming a complex web.

LOOKING TO THE FUTURE

What paradigm shifts can we expect in the future?



Visit us at CHICC

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