

Acknowledgement of Country



Artwork "Kunawarritji" by Debra Thomas, Martumili Artists

Ear Science acknowledge and pays respect to the Traditional Owners of the land we are all meeting on today.

We acknowledge the Nyiyaparli and Martu People as the Traditional Owners and Custodians of the lands we serve in Newman and the Western Desert.

We recognise the significant contributions of Aboriginal and Torres Strait Islander people to ear and hearing health, through sharing their knowledge, expertise and lived experiences.

Ear Science pays respect to Elders past, present and emerging.

Project Team

Adj Prof Rob Eikelboom Co Chief Investigator

Ear Science Research Manager

Dr Anton Hinton-Bayre Co Chief Investigator

Head of Department: RPH ENT

Emma Ireland Project Manager

Ear Science Community/Education

Jessica Yiannos

Project Officer Audiologist

Lucy Mitchell Ear Health Coordinator

Audiologist

Renee Speedy

Outreach Liaison Officer

Christina Hunn

Clinical Advisor

Director of Clinical Services - PAMS

Community Advisors



Government of Western Australia WA Country Health Service









The Agenda

1 The Pilbara Data Project

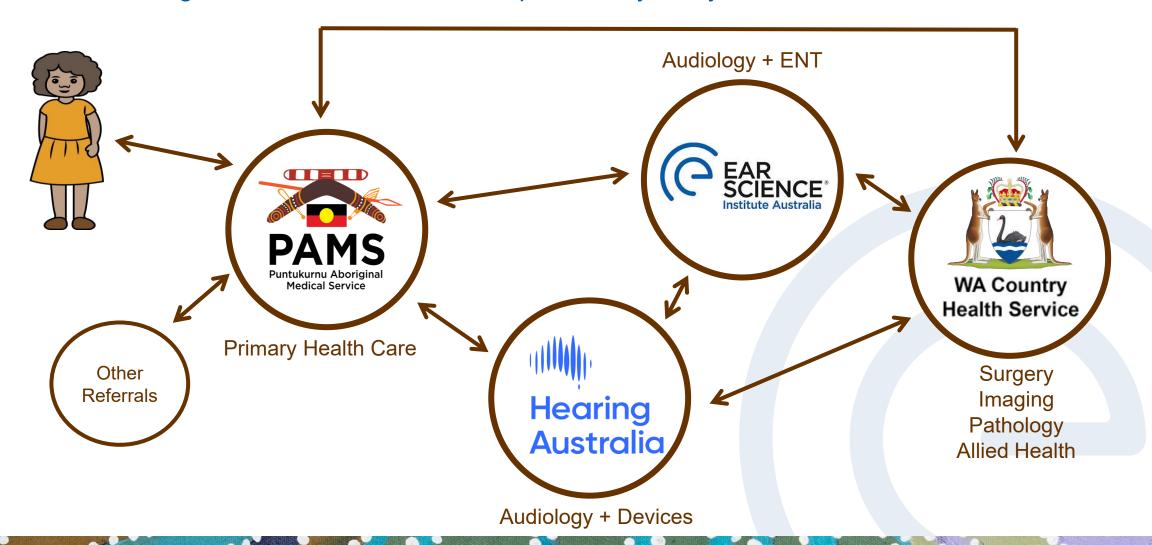
O Initial Key Learnings

Empowering Clinical Practice: Puntukurnu Aboriginal Medical Service

Data Insights: *Empowering Clinical Care*

The Pilbara Data Project

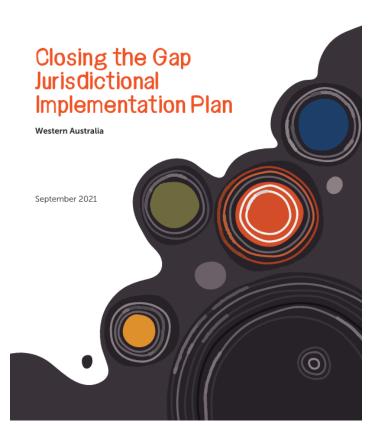
Ear and Hearing Care in the East Pilbara: A preliminary analysis of 10 Years of Clinical Data



The Pilbara Data Project

Ear and Hearing Care in the East Pilbara: A preliminary analysis of 10 Years of Data





Aim: To generate information vital to improve ear and hearing health outcomes of Indigenous Children in the East Pilbara

Project Objectives

Collate ear and hearing health data from individuals seen at remote clinics in the East Pilbara communities over the past 10 years.

To build a comprehensive picture of the burden of ear and hearing health in the five East Pilbara communities

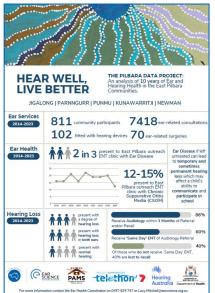
Western Australia. Department of the Premier and Cabinet. Closing the Gap Jurisdictional Implementation Plan: Western Australia. Part A & B, September 2021.

















Key Learning 1

Accurate data linkage is essential for coordinated management of ear and hearing health















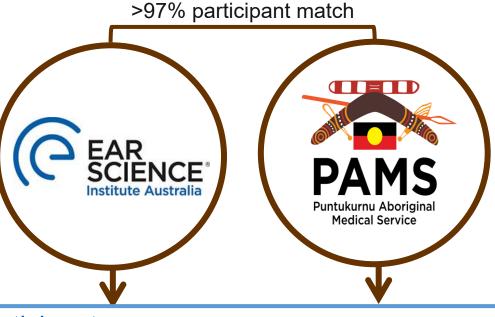




Participants

• 811 members

- Hard copy records
- Communicare (2019)







Participants

• 811 members

 637 received additional 'ear' services

- Hard copy records
- Communicare
- Communicare (2019)

Data Insight:
Importance of
accurate identifiers

Data Insight:Value of centralised data storage

Data Insight:
Importance of 'ear'
marked consultations

>98% participant match









Participants

• 811 members

 637 received additional 'ear' services

- Hard copy records
- Communicare
- Communicare (2019)

'Probabilistic' linkage

38% participant match









Participants

811 members

 305 received additional 'ear' services

Database:

- Hard copy records
- Communicare (2019)

Talinga

'Deterministic' linkage

>98% participant match









Participants

• 811 members

 104 received additional 'ear' services

- Hard copy records
- Communicare (2019)

- BOSSnet
 - WebPAS

Demographics of patients in the East Pilbara



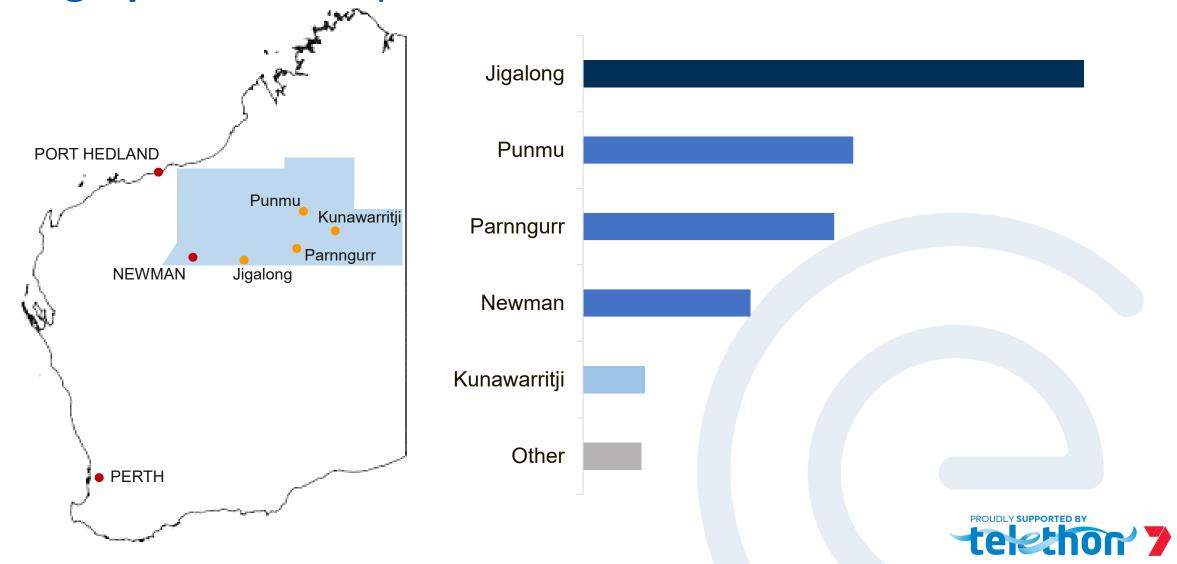




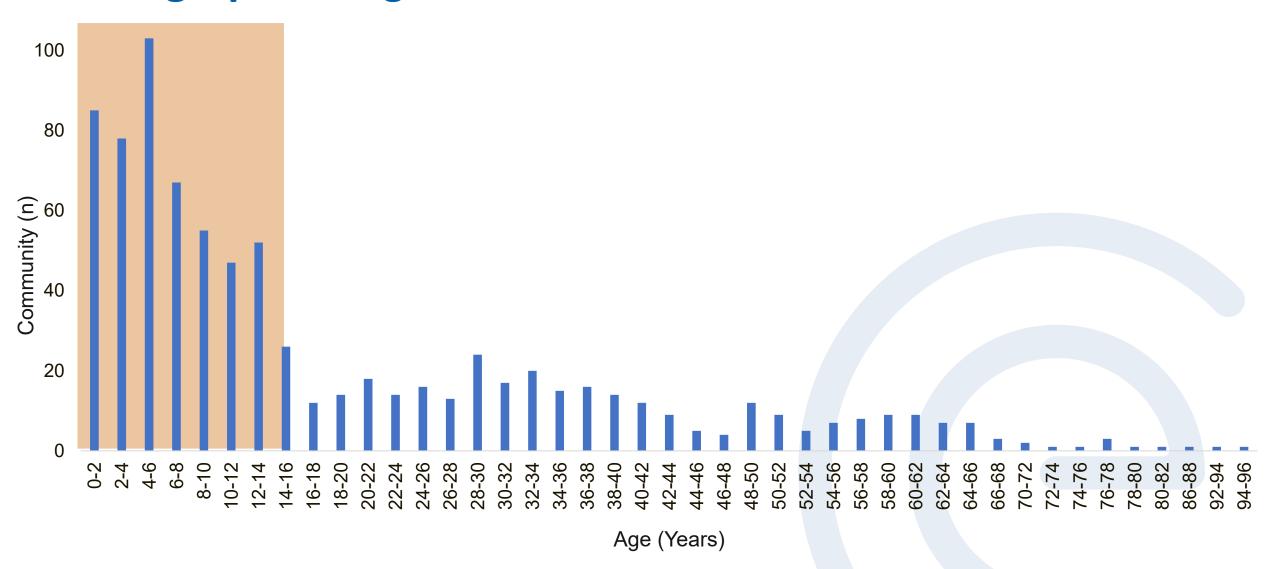




Demographics: Participant Location



Demographics: Age at First Ear Check



Key Learning 2

Ear checks are not happening early enough



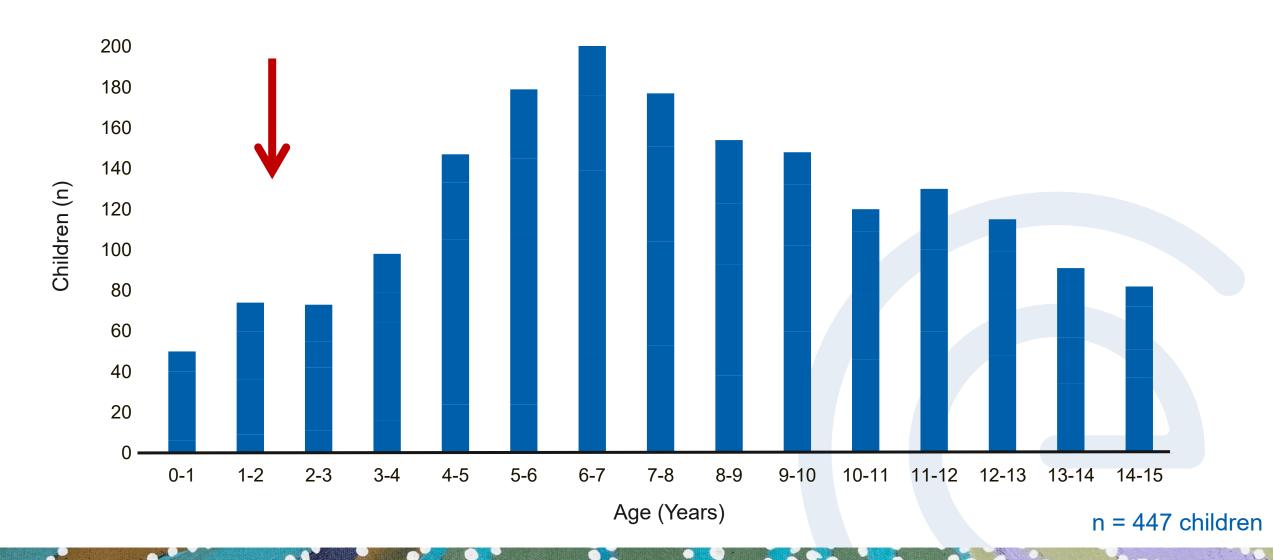




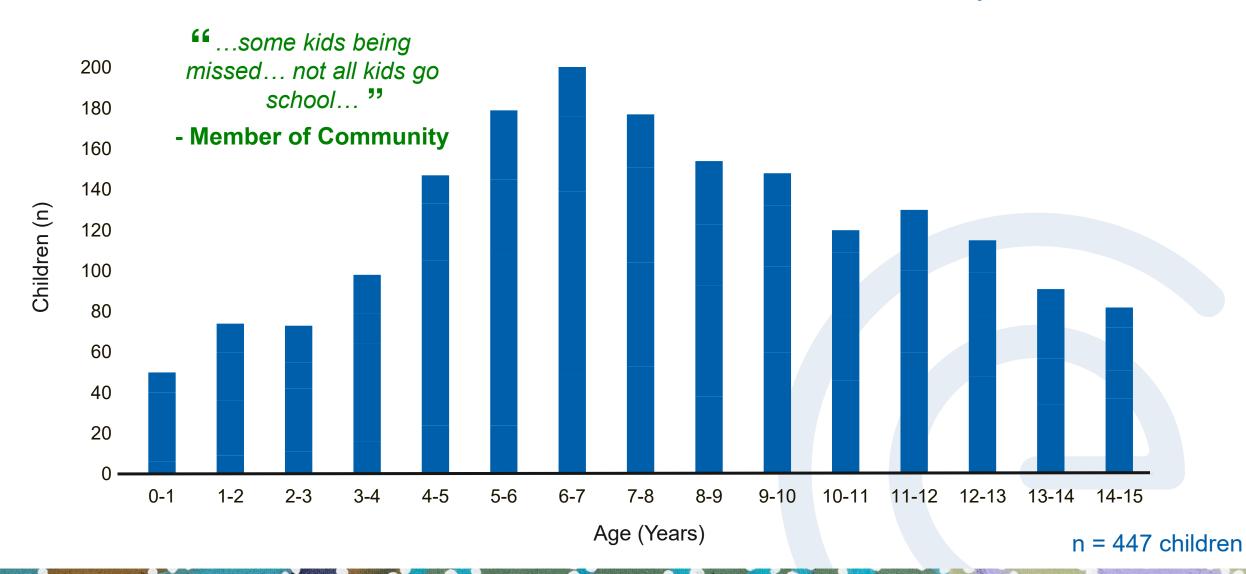




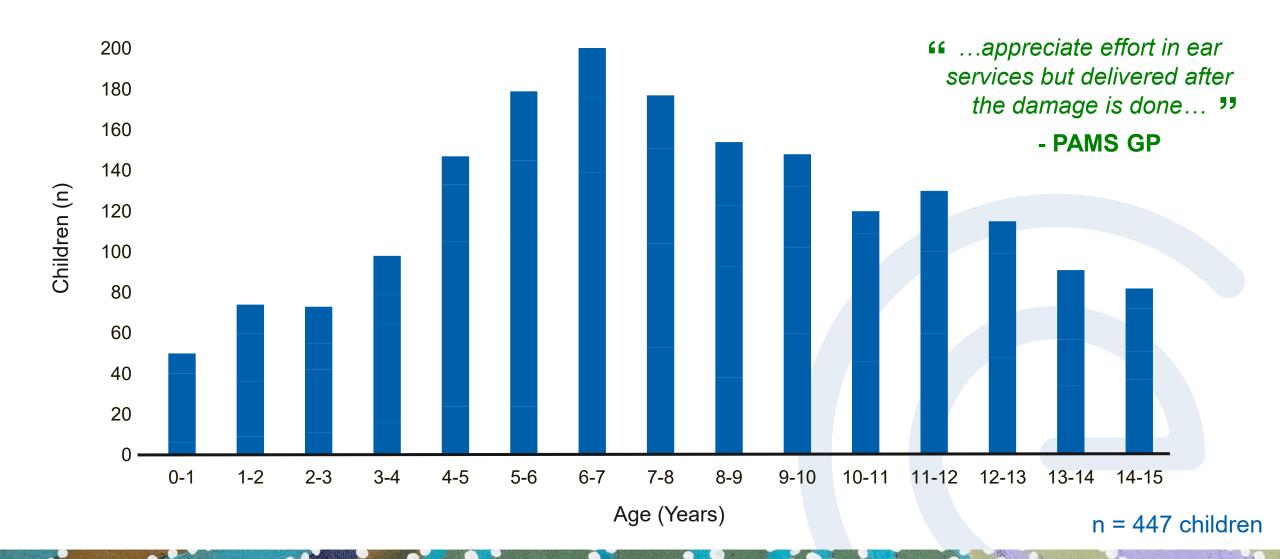
Most children receive their first middle-ear check at 6 years old



Most children receive their first middle-ear check at 6 years old



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Key Learning 3

1 in 4 children in the East Pilbara present with healthy ears



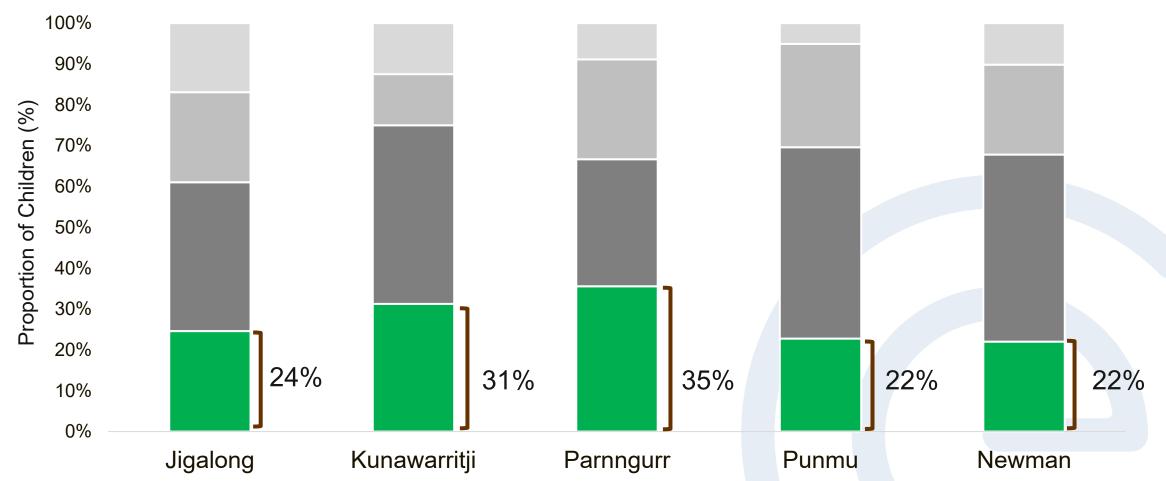








1 in 4 children present with 'healthy' middle ear function



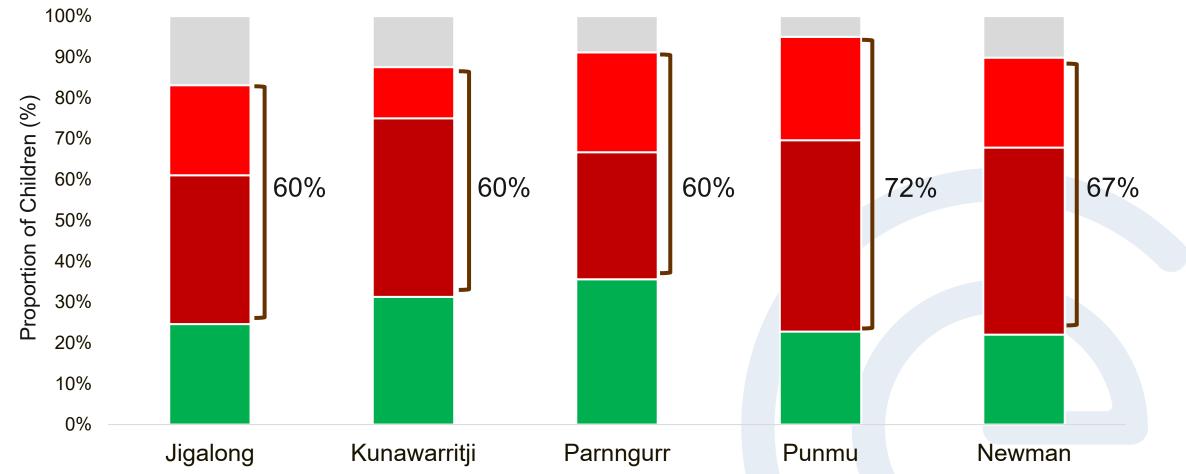


2 in 3 children present with 'impaired' middle-ear function

Healthy [both]

Impaired [both]

Impaired [one]



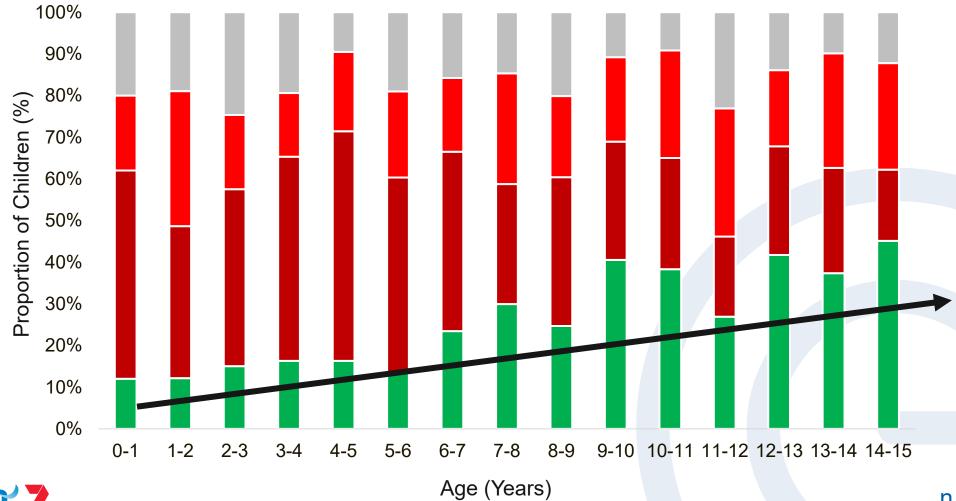


Ear Status in the East Pilbara: by Age

Healthy [both]

Impaired [both]

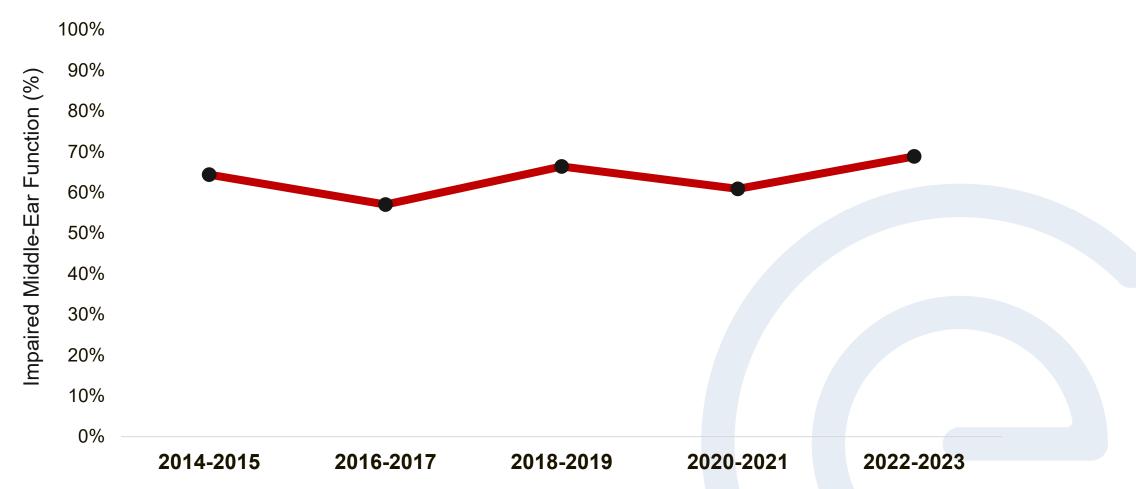
Impaired [one]





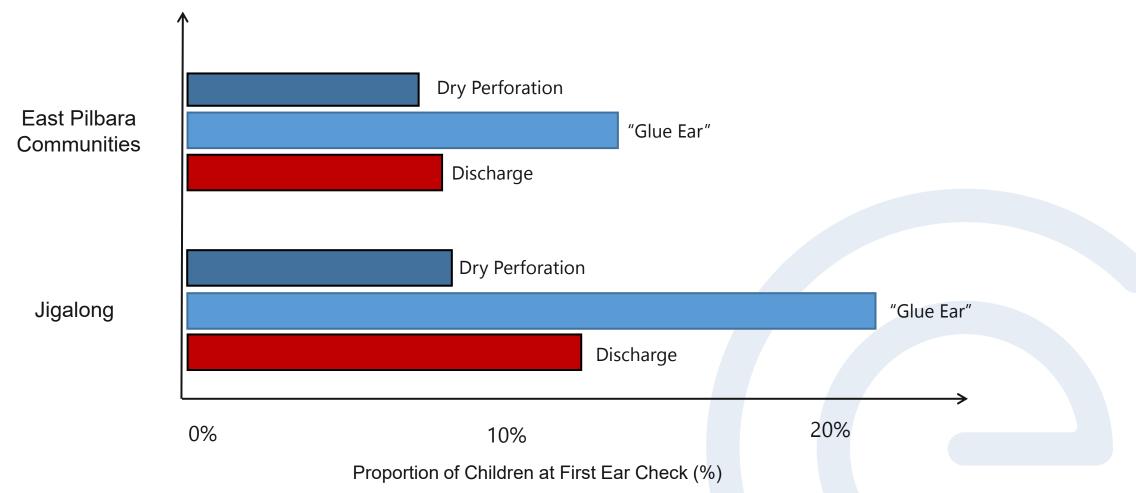
n = 447 children

Sustained rate of 'impaired' middle-ear presentation





Ear Status in the East Pilbara: By Remote Location





Key Learning 4

1 in 3 children in the East Pilbara present with normal hearing









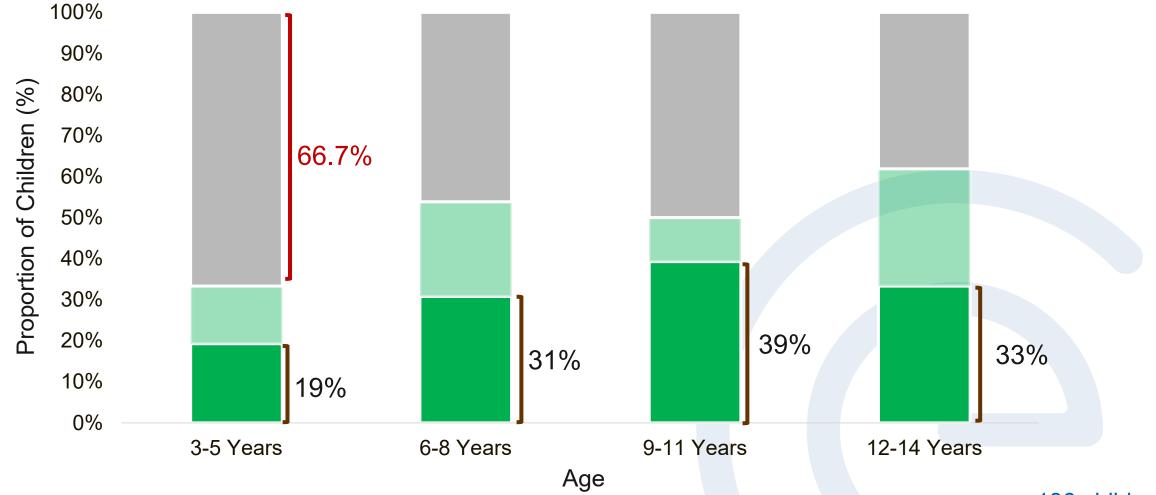


1 in 3 children present with normal hearing

Normal Hearing [both ears]

Normal Hearing [one ear]

Hearing Loss [both ears]



n = 186 children

Key Learning 5

Ear health coordination improves service delivery



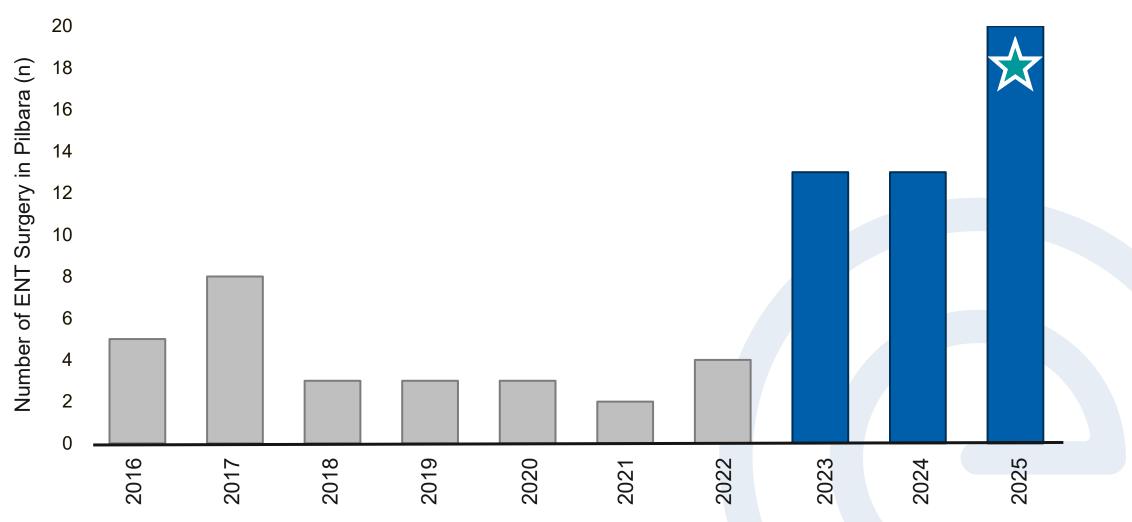








Ear Health Coordination Supports Community to Surgery



Empowering Clinical Practice: Puntukurnu Aboriginal Medical Service

Christina Hunn PAMS Director of Clinical Services





Empowering Clinical Practice: Reflecting on learnings

Accurate patient data is essential for coordinated management of ear and hearing health

- ✓ Visiting services have access to Communicare
- ✓ Visiting team enters clinical notes directly
- ✓ Established pathway for WACHS ENT Surgeon to send operation reports to Ear Health Coordinator
- ▲ Some visiting services do not enter data directly
- Delayed data sharing
- ⚠ Burden on local team to upload reports
- ▲ Data not always captured in a way that is easy to report and evaluate





Empowering Clinical Practice: Reflecting on learnings

Ear checks are not happening early enough

Resource Limitations

- Shortage of child health staff
- Heavy workload for RANs

Multiple Health Priorities

Ear health competes with other urgent needs







Empowering Clinical Practice: Reflecting on learnings

Ear Health Coordination improves service delivery



Improving
communication
between
services



Improving coordination between services



Dedicated focus on ear health needs



Supporting community needs







Shaping Future Direction

Lucy Mitchell Ear Health Coordinator





Improving data sharing

Shared clinical item for visiting teams to make data entry consistent and easy to report later

Agreed roles and data agreements with key stakeholders







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Agreed roles and data agreements with key stakeholders

Stronger focus on 0 - 3 age group

Child health nurse role is critical

Collaboration with Australian Family Partnership Program, playgroups, HAPEE







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Child health nurse role is critical

Collaboration with Australian Family Partnership Program, playgroups, HAPEE

Targeted Ear Treatment Program

School treatments and home visits

Primary Health Team, Visiting Specialists and Community working together to improve outcomes







Questions?











Stronger Together, Thank You.

Sandra Bellekom Ear Science CEO

Robby Chibawe PAMS CEO

Christina Hunn PAMS Director of Clinical Services

Michele Clapin Hearing Australia First Nations Program

Emily Furness Hearing Australia First Nations State Manager

Liz Peglar WACHS Regional Manager Health Information

Helen Cribb WACHS Research Governance Coordinator

PAMS Board of Directors

PAMS Clinical Team

Health Hearing Outback Team

Hearing Australia Audiology Team

WACHS Health Information Team

Community Consultation Members

Channel 7 Telethon Trust















