BETTERSTART

Health and Development Research



Better

Evidence

Better

Outcomes

Linked

Data platform

health.adelaide.edu.au/betterstart/

Dr Rhiannon Pilkington
Professor John Lynch



We acknowledge the Kaurna people who are traditional owners and custodians of the lands on which we

gather.

We pay our respects to the Kaurna ancestors and the living Kaurna people.

We recognise and respect their cultural authority, cultural heritage, beliefs and deep feelings of attachment and relationship of the Kaurna people to their Place.

We also pay our respects to the cultural authority of all Aboriginal and Torres Strait Islander people.

Sovereignty of these lands has never been ceded. It always was and always will be, Aboriginal land.



Better Evidence, Better Outcomes, Linked Data (BEBOLD) Platform

Health and Development Research Better









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Education

TO BE LINKED

Vocational

Education &

Training

Police

SA Tertiary Admissions

Courts

Registry

Data

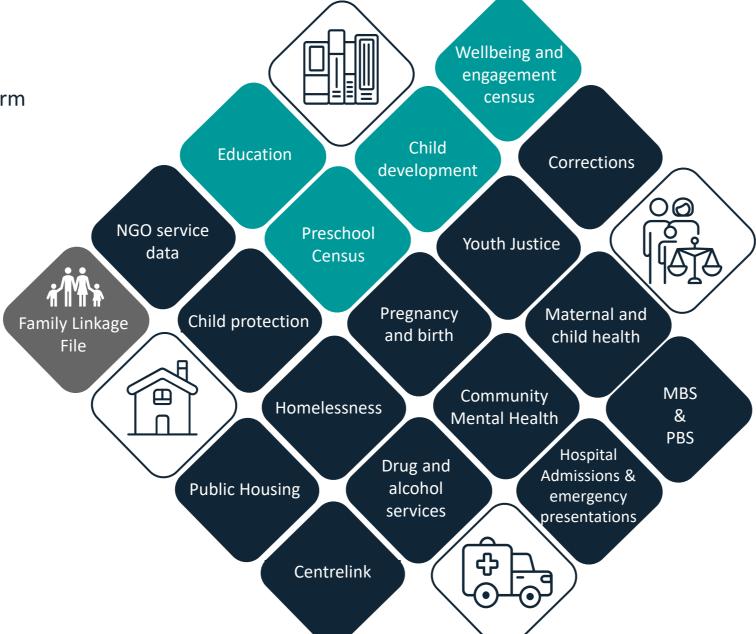
SA Certificate

Education

National

Disability

Data Asset



- Led by Professor John Lynch
- De-identified, unit-record linked data
- Open cohort
- All birth cohorts from 1991
- Data on children, siblings and parents
- ~ 500,000 children
- ~ 18,000 Aboriginal and Torres Strait Islander children
- ~ 75,000-100,000 CALD children
- ~ 270,000 families
- Millions of records
- Enduring and updatable resource
- A public good asset
- Continuous engagement with data custodians and ethics committees







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Education

Human/Social Services

TO BE LINKED





services

Centrelink

presentations

<u>|</u>

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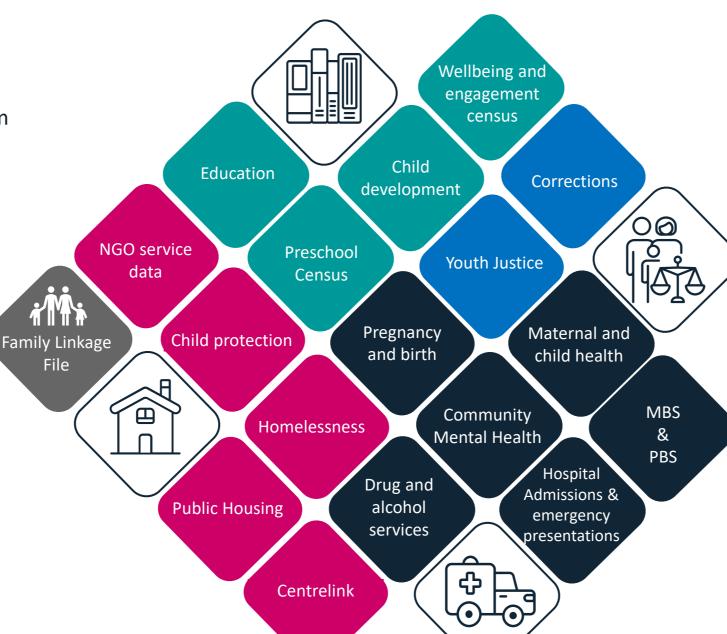
Education

Human/ Social Services

Justice

TO BE LINKED





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Better **E**vidence

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Education

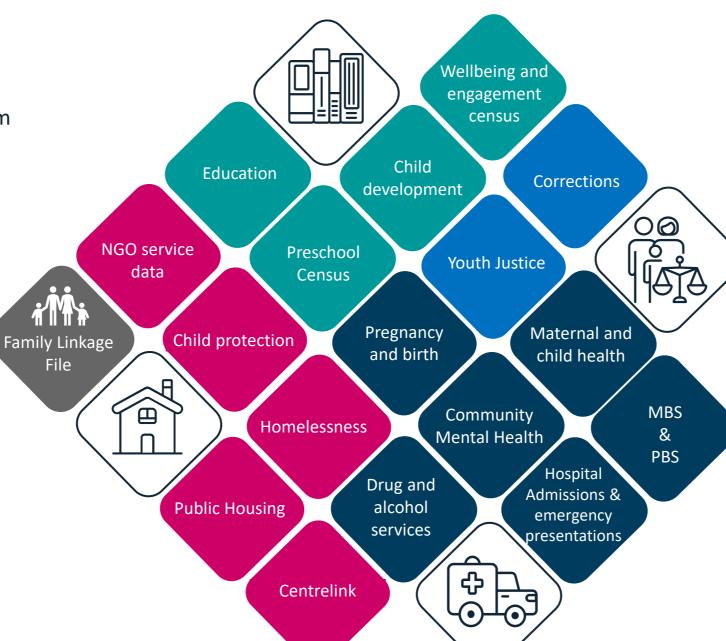
Human/ Social Services

Justice

Health

TO BE LINKED





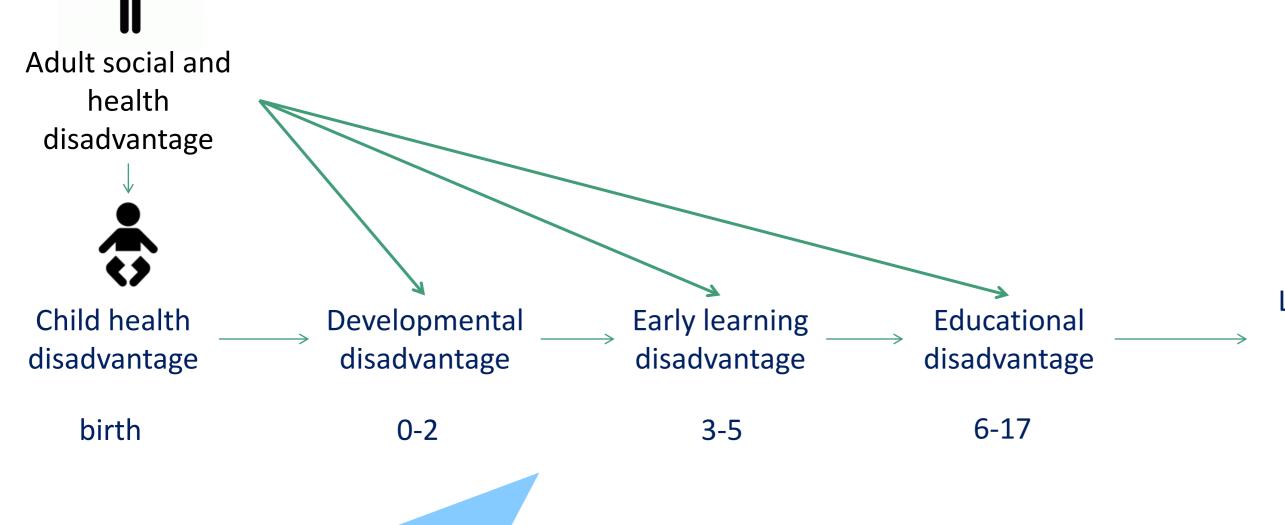
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Disrupting cycles of disadvantage to support equitable opportunity



What can we do across these ages to support better starts in life for children experiencing adverse circumstances?

Labour market and income disadvantage



Adult social and health disadvantage







The Australian Early Development Census

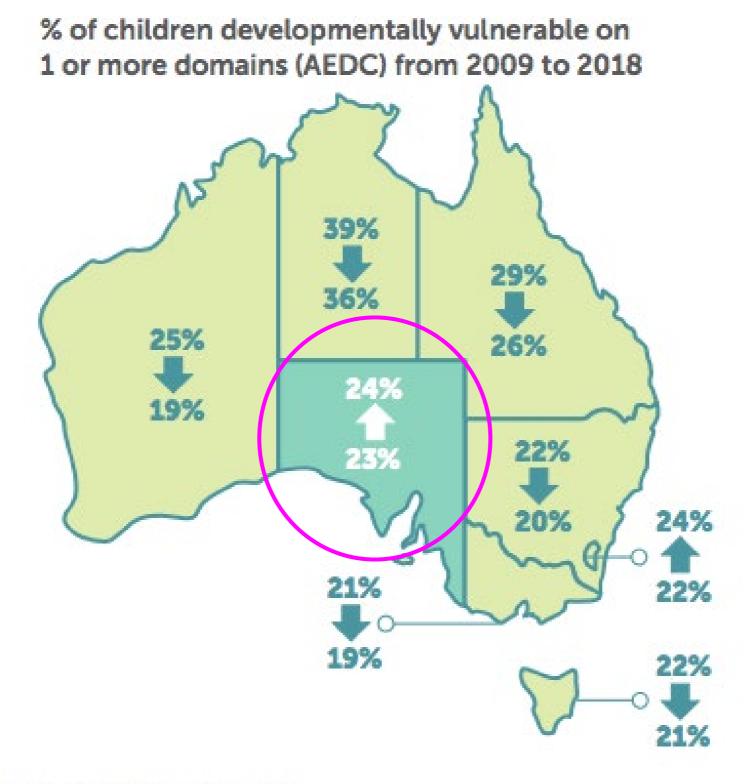
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The goal - SA as a recognised leader in child development and early education



Child Protection Contact

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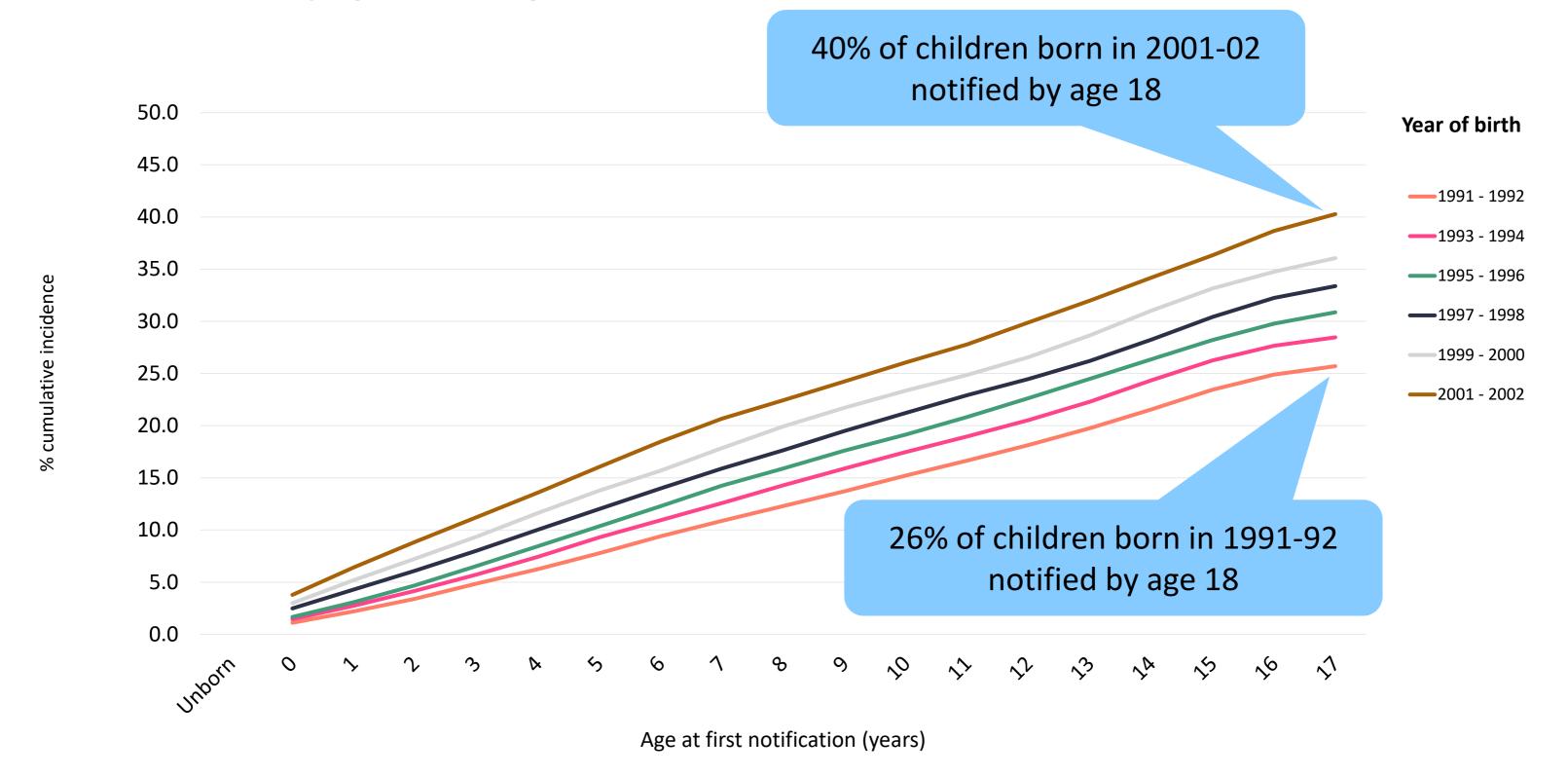


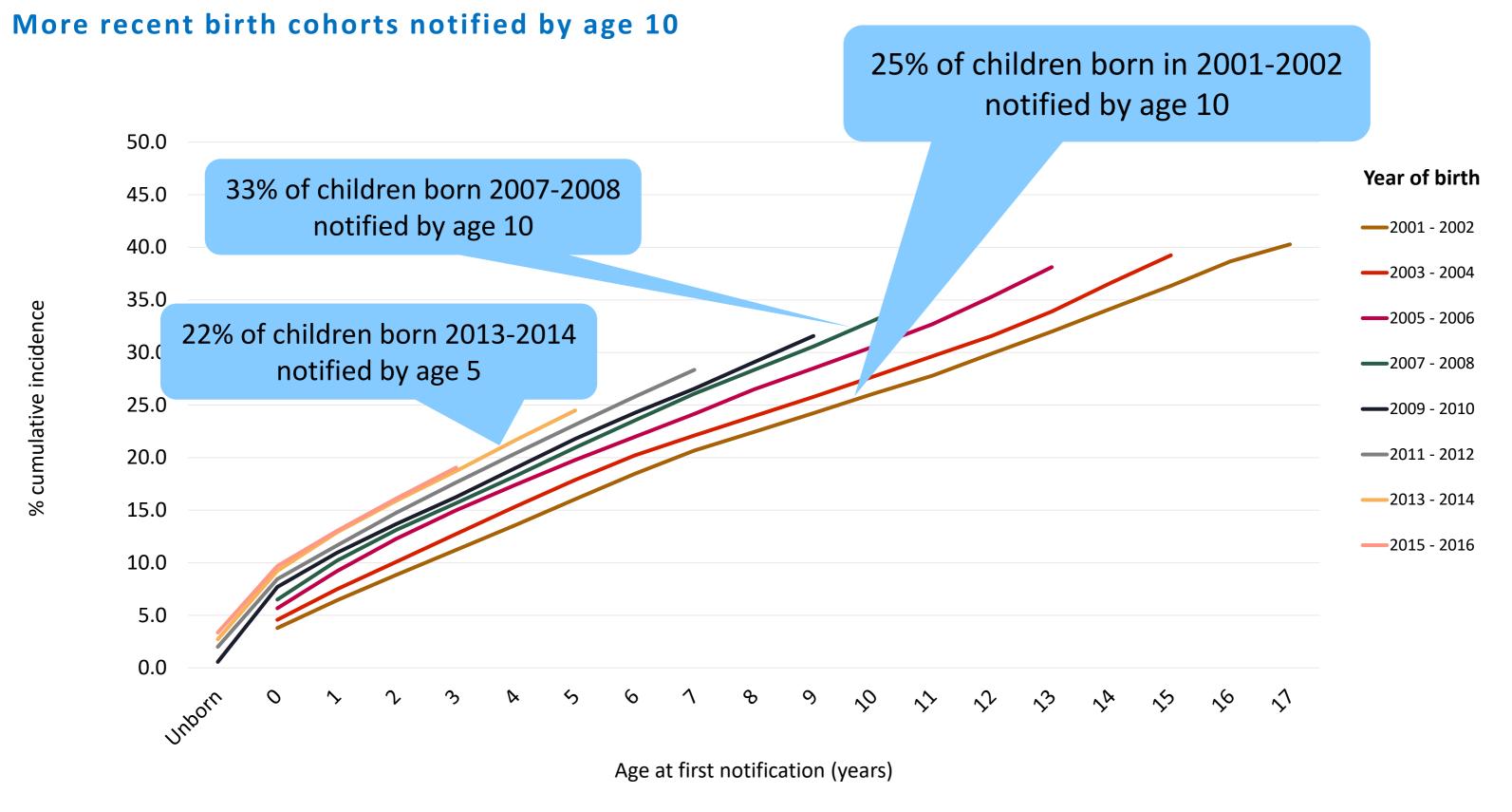
Children Notified





Children notified by age 18 and age 10





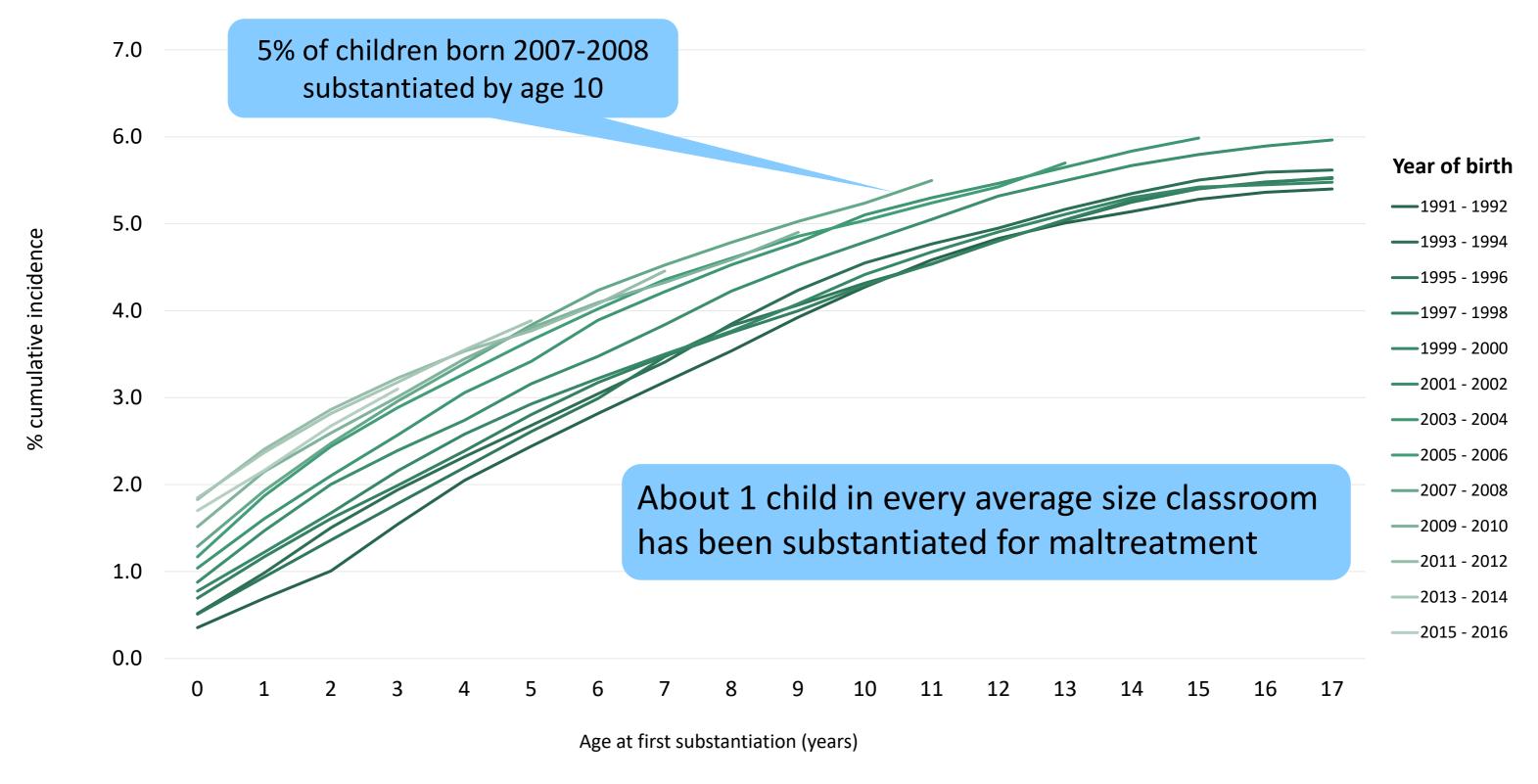
Cumulative incidence of child protection notifications, children born 2001 to 2016

Children Substantiated





Substantiated for maltreatment by age 10



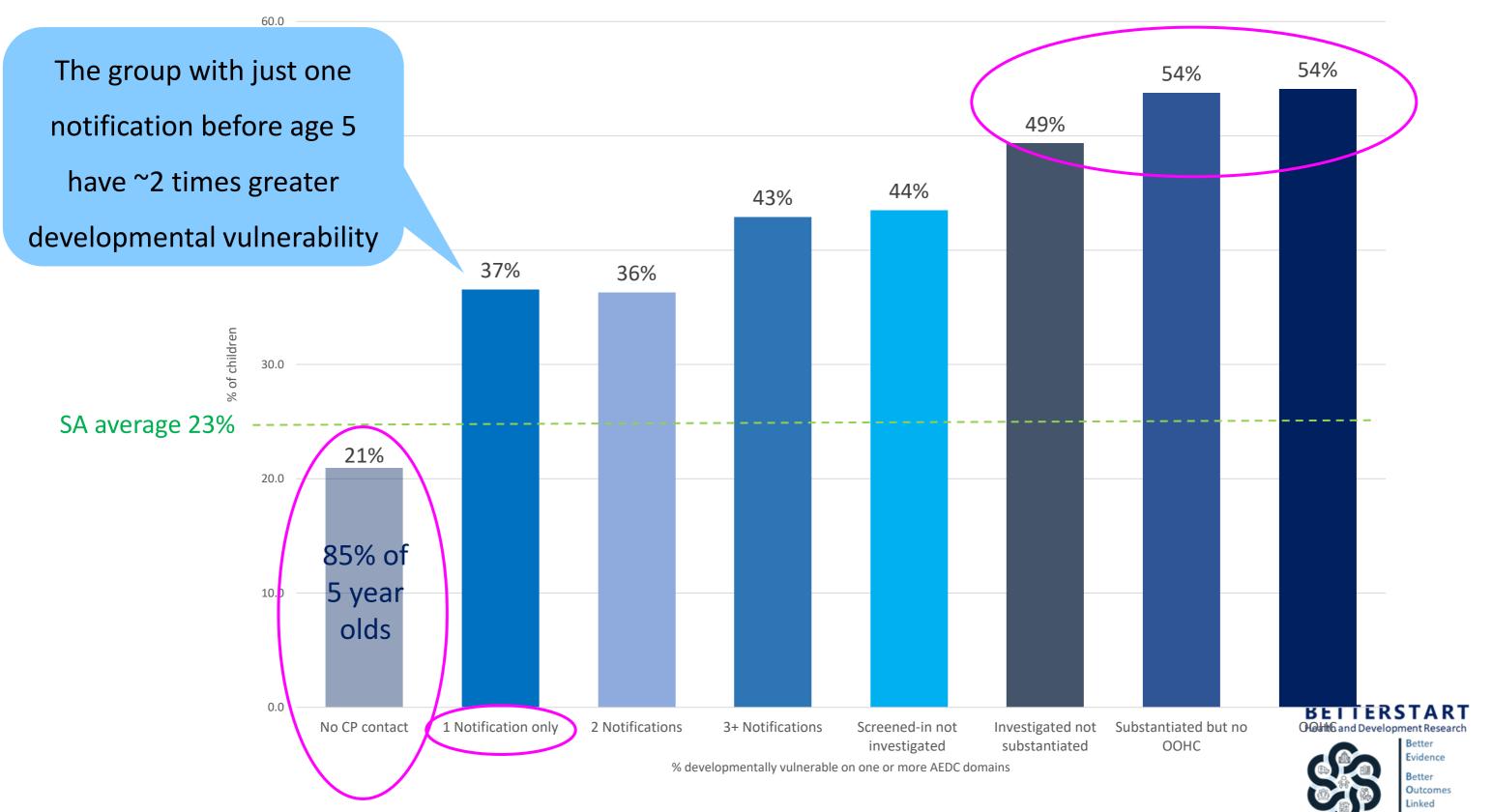
Cumulative incidence of substantiated maltreatment, children born 1991 to 2016

Child Protection as an early warning of developmental risk

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Vulnerability on the Australian Early Development Census (2009-2018) and child protection contact by age 5





Socioeconomic disadvantage

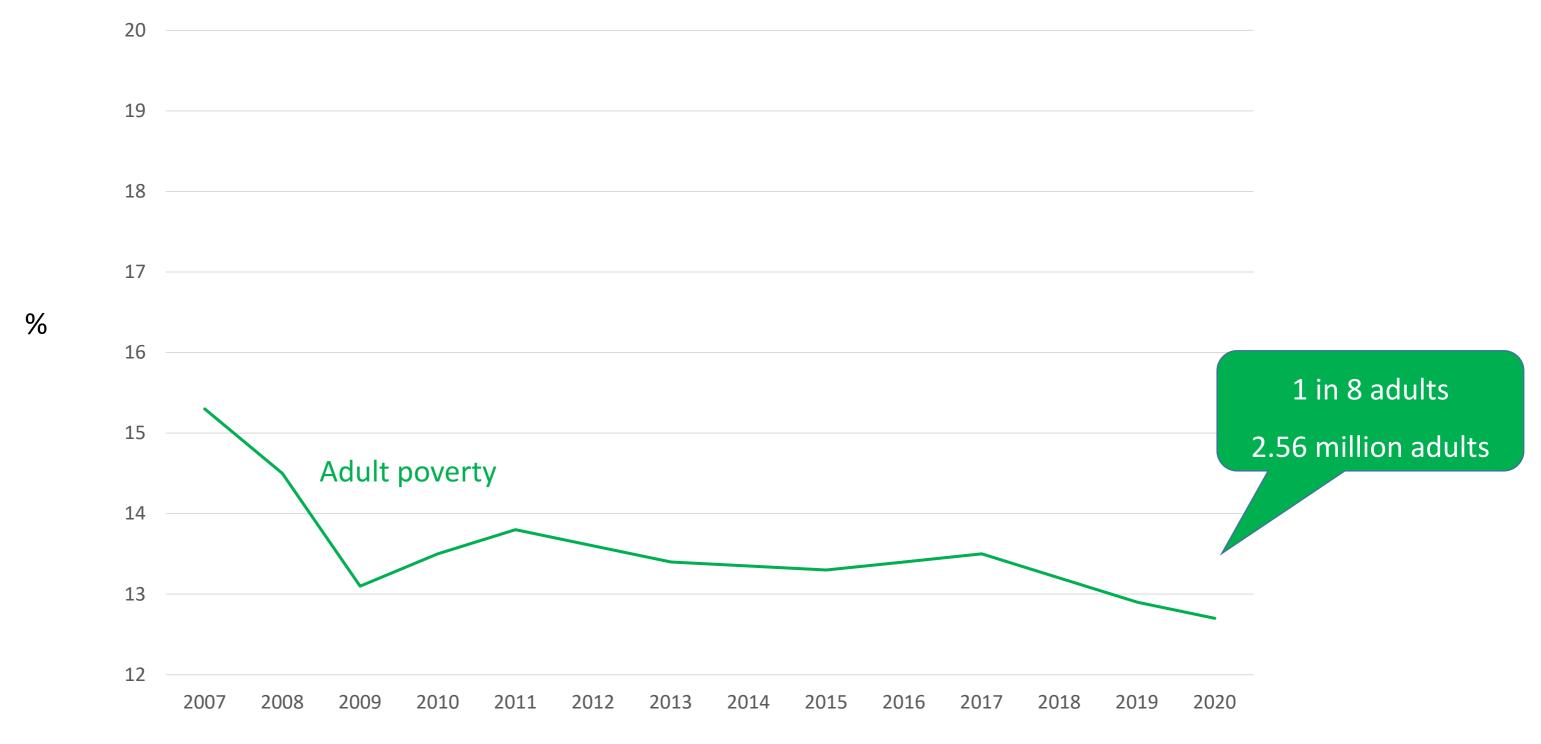
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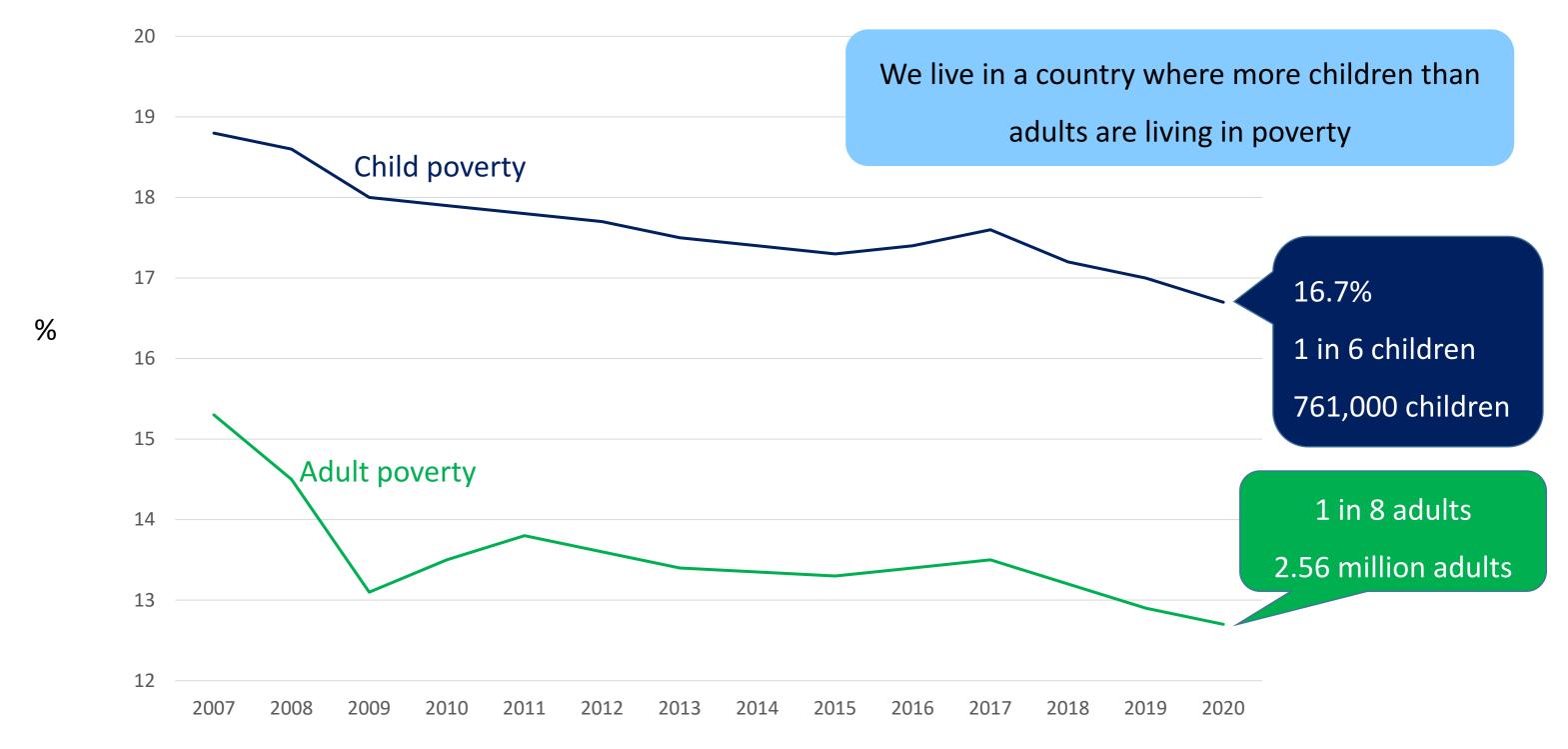
Adult Poverty Australia 2007-2020 (below 50% median income)







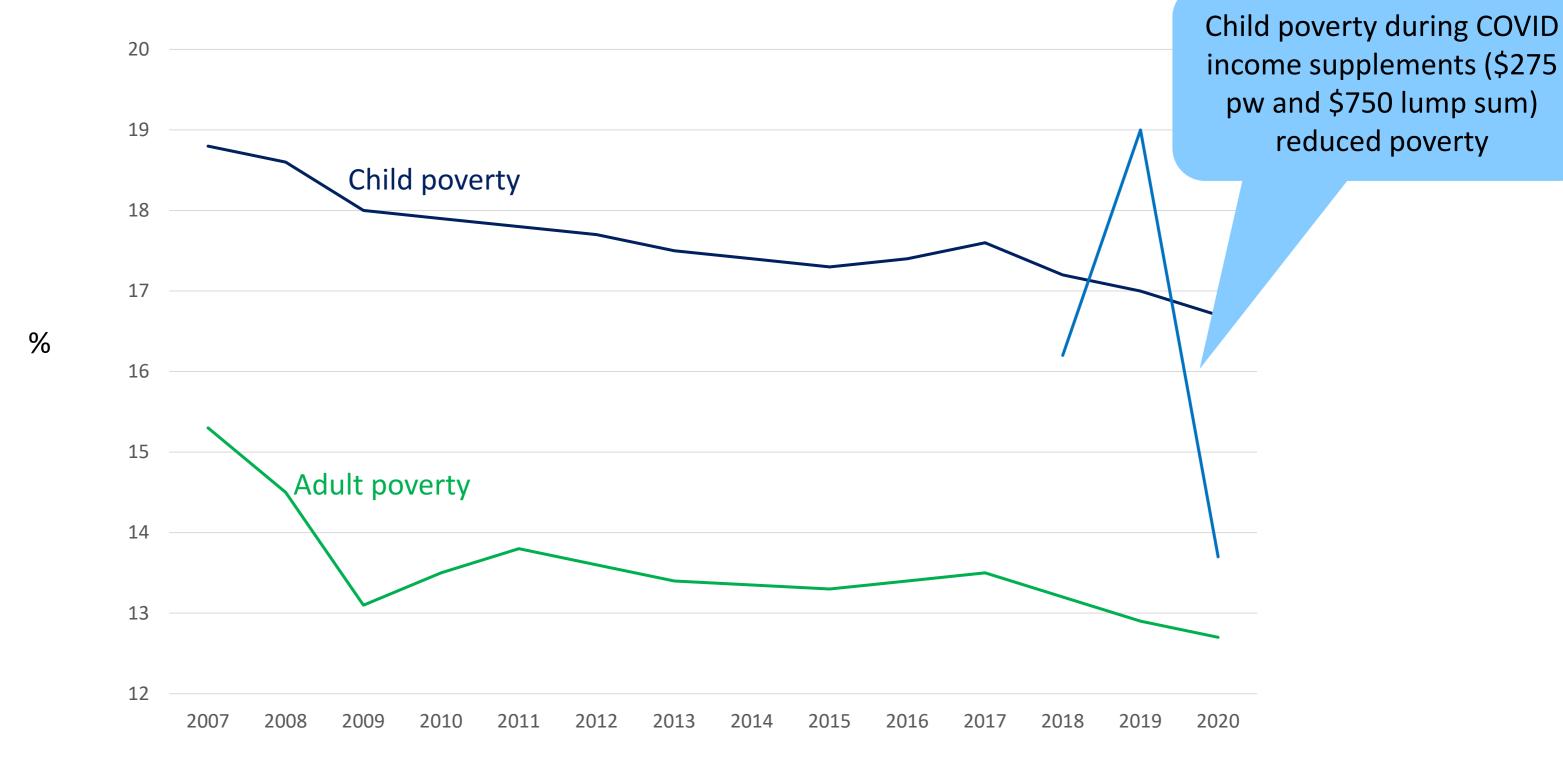
Child and Adult Poverty Australia 2007-2020 (below 50% median income)





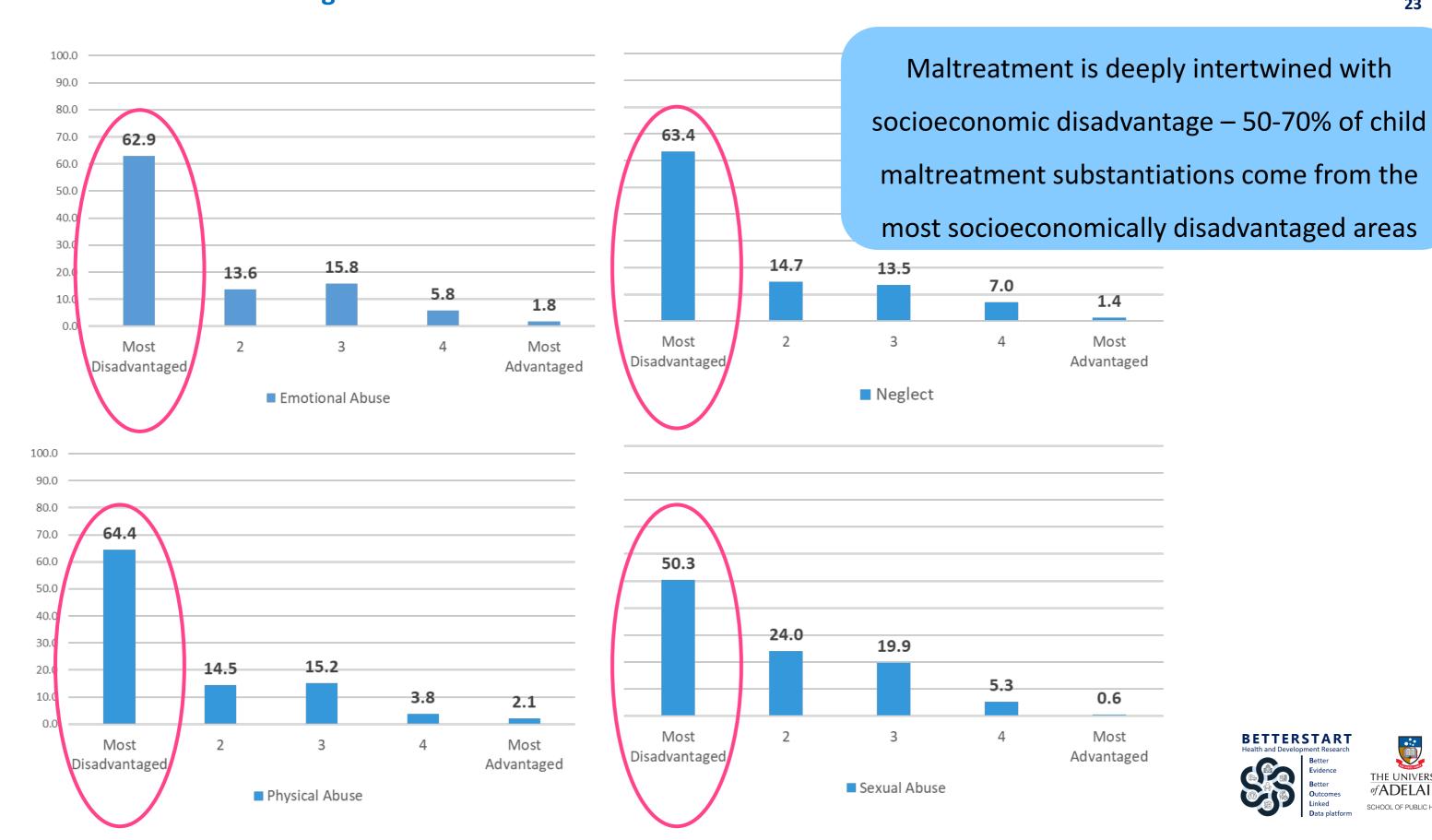


Child and Adult Poverty Australia 2007-2020 (below 50% median income)





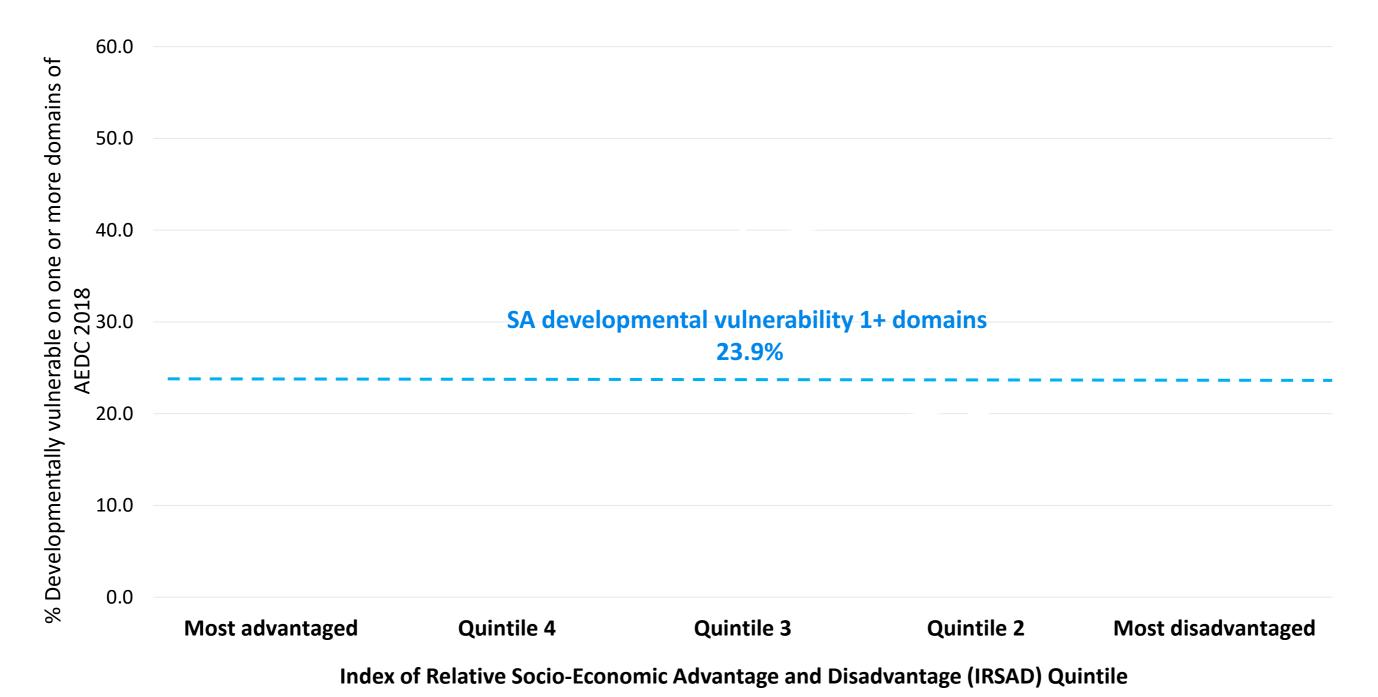








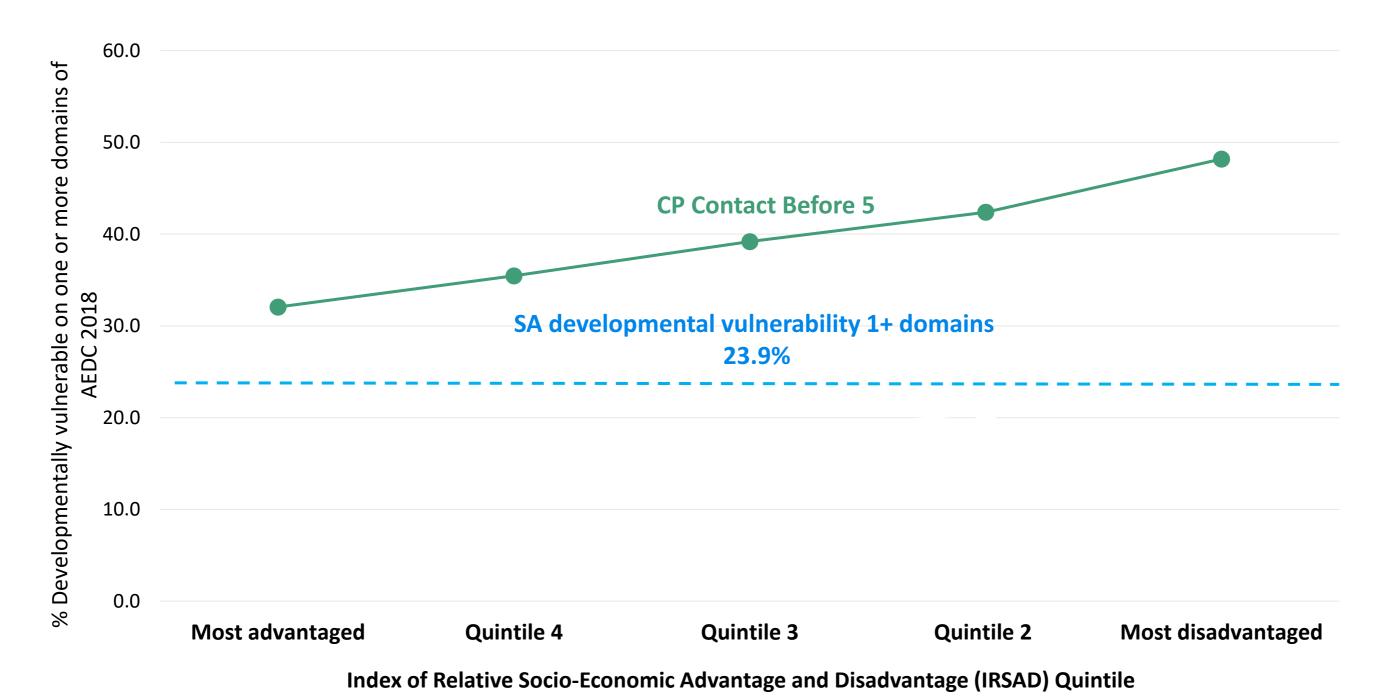
Developmental vulnerability on the AEDC by disadvantage and child protection







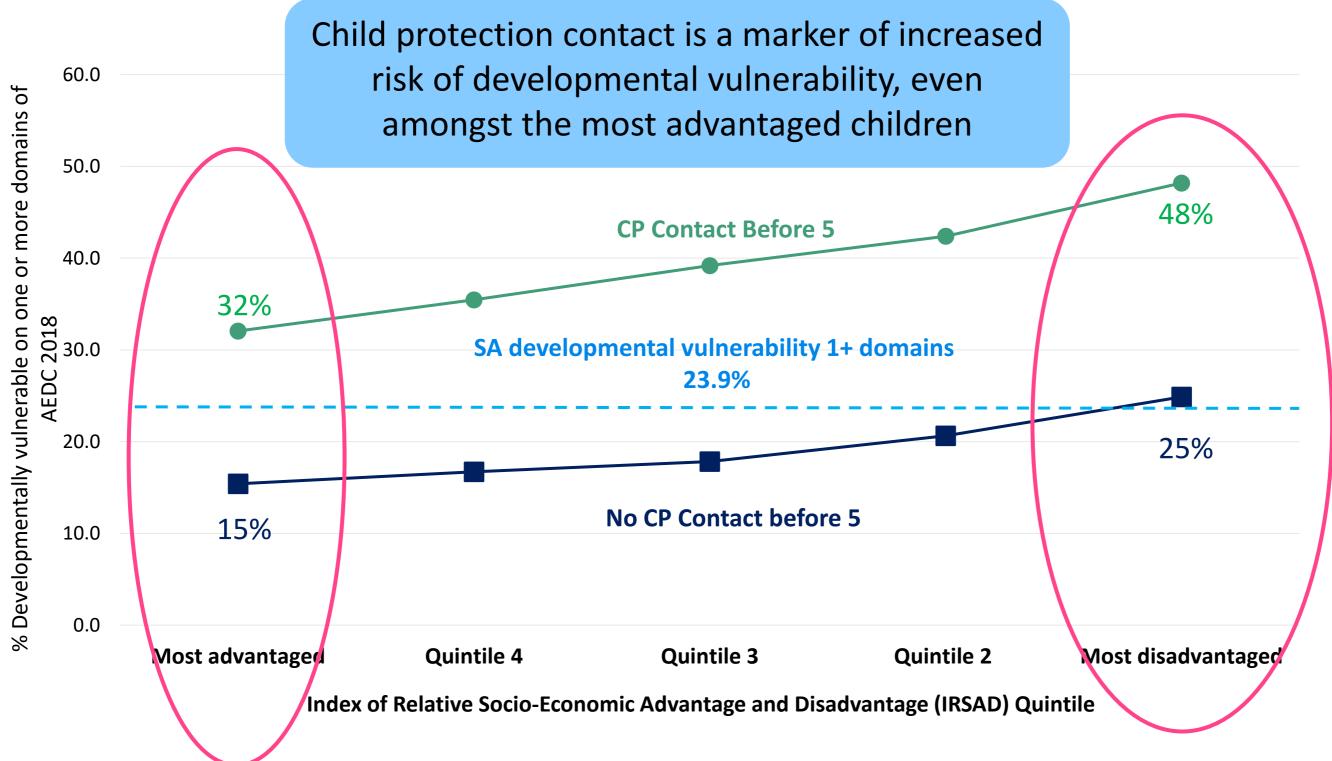
Developmental vulnerability on the AEDC by disadvantage and child protection







Developmental vulnerability on the AEDC by disadvantage and child protection





A public health approach

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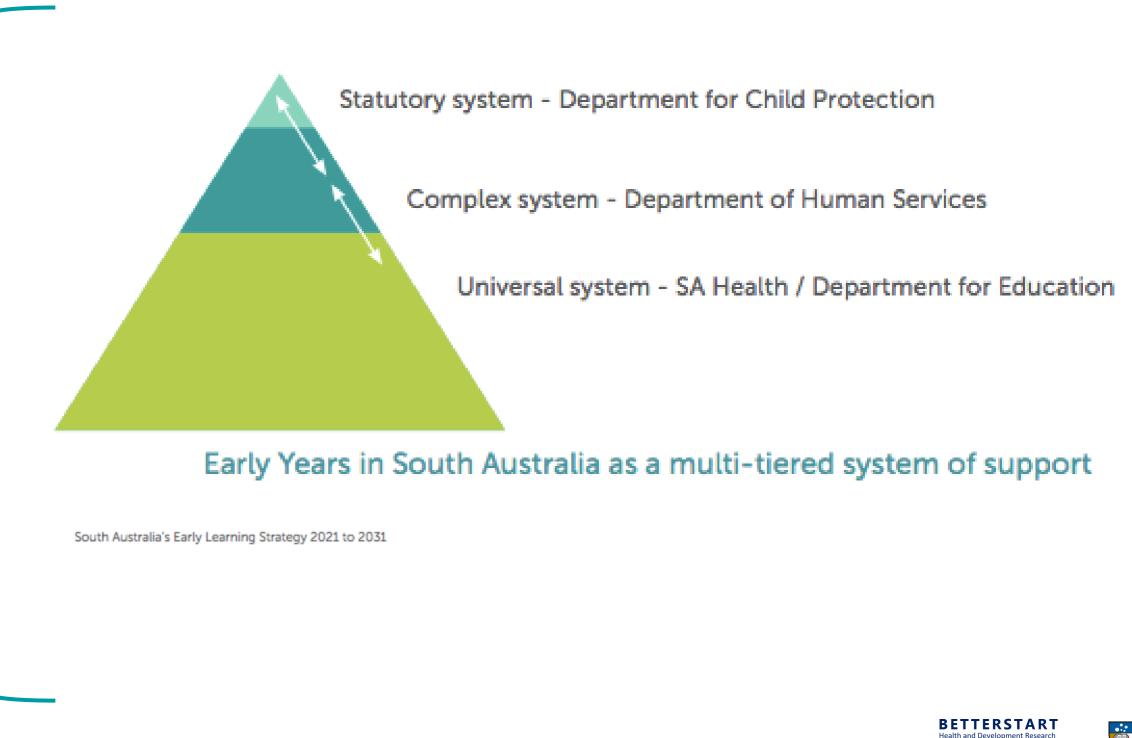


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It takes a whole service system to support children to reach their full potential

- Provision of universal ECEC needs to support families dealing with complex circumstances that lead to child protection risk
- Without effective, well resources and integrated universal and targeted services we will not 'turn the curve' to improve child outcomes







Earliest feasible prevention opportunity: child protection contact by age 1

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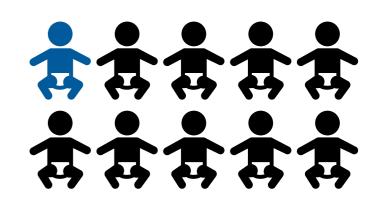






Priority populations - children under age 1

Year of birth	Unborn Care Concern (UCC)	Notified before 1	Total
2014 -20,747 birth	s 588	1,368	1,956
2015 -20,154 birth	s 659	1,367	2,026
2016 -20,067 birth	s 707	1,216	1,923
2017 -19,485 birth	s 802	1,170	1,972
2018 -19,332 birth	s 905	1,192	2,097
2019 -19,526 birth	s 1,062	1,040	2,102
	Antenatal	Age <1	



1 in 10 children are known to child protection before age 1











Year of birth

UCC

Notified before 1

2014

588

1,368

79% were re-notified at least once before age 5

Antenatal Age <1 Age 1 Age 2 Age 3 Age 4 Age 5





Year of birth

UCC

Notified before 1

41% were re-notified 5 or more times before age 5

2014

588

1,368

Antenatal

Age <1

Age 1

Age 2

Age 3

Age 4

Age 5













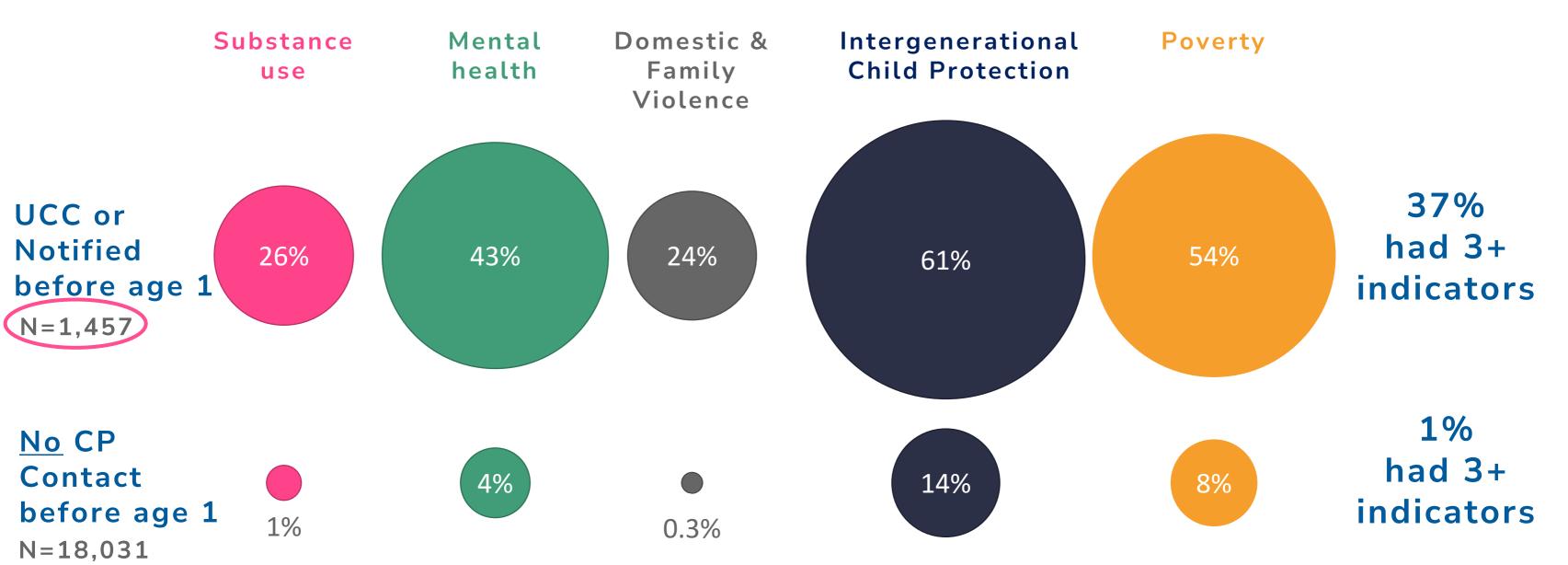






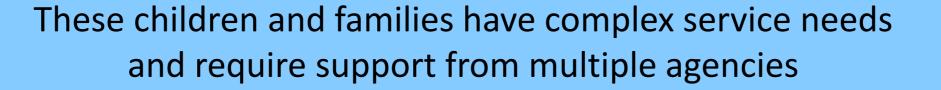


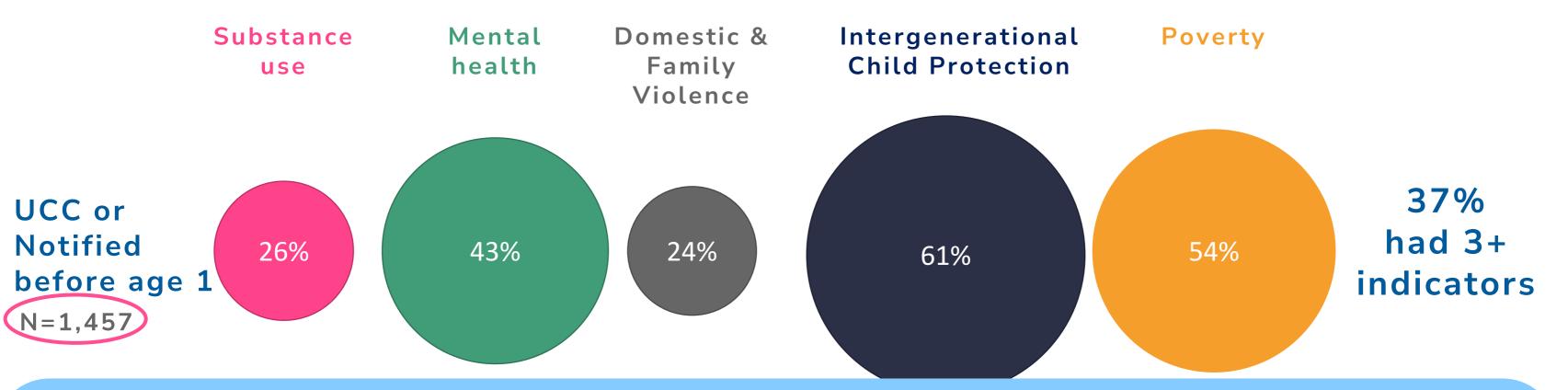
These children and families have complex service needs and require support from multiple agencies











This has implications for ensuring equitable universal service delivery.

How do we improve the capacity of ECEC services to support families experiencing disadvantage?

Improving outcomes How will we know what works?

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Finding high quality "evidence-based" programs is hard

There are many high quality reviews

Early Intervention Foundation, HomVEE (2021), and SuPERU (2014)

At very best, only 40% of research evidence around early interventions is of moderate to high quality

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Early Childhood Home Visiting Models

Reviewing Evidence of Effectiveness

September 2021; Updated November 2021; Updated December 2021

OPRE Report #2021-185

Summarizing the Results

As of December 2021, HomVEE has reviewed the available evidence on 50 home visiting models, including impact reviews of 472 manuscripts about impact research. HomVEE has also identified 333 manuscripts describing implementation research about these models.8,9 Some manuscripts are included in both counts because they contain information on both impacts and implementation.

delivery model (Table 1).

Evidence of effectiveness. Of the 50 home visiting models that were reviewed, 22 meet the HHS criteria for an evidence-based early childhood home visiting service



"Put simply, we do not yet have the evidence we need to inform national and local decision-making about how best to reduce the risk of abuse and neglect in families where there are multiple and complex needs.

"We need to use what we know to support local service improvement ensuring that different types of evidence, knowledge and data are available and used to inform local

decision-making.

Of the 50 home visiting models

reviewed, 22 meet the criteria for an

evidence-based early childhood home

visiting service delivery mode



Effectiveness of a nurse-led intensive home-visitation programme for first-time teenage mothers (Building Blocks): a pragmatic randomised controlled trial



Michael Robling, Marie-Jet Bekkers, Kerry Bell, Christopher C Butler, Rebecca Cannings-John, Sue Channon, Belen Corbacho Martin,
John W Gregory, Kerry Hood, Alison Kemp, Joyce Kenkre, Alan A Montgomery, Gwenllian Moody, Eleri Owen-Jones, Kate Pickett, Gerry Richarason,
Zoë E S Roberts, Sarah Ronaldson, Julia Sanders, Eugena Stamuli, David Torgerson

Summary

Lancet 2016; 387: 146-55

Published Online October 14, 2015 http://dx.doi.org/10.1016/ S0140-6736(15)00392-X

See Comment page 105

Background Many countries now offer support to teenage mothers to help them to achieve long-term socioeconomic stability and to give a successful start to their children. The Family Nurse Partnership (FNP) is a licensed intensive home-visiting intervention developed in the USA and introduced into practice in England that involves up to 64 structured home visits from early pregnancy until the child's second birthday by specially recruited and trained family nurses. We aimed to assess the effectiveness of giving the programme to teenage first-time mothers on infant

Interpretation Adding FNP to the usually provided health and social care provided no additional short-term benefit to our primary outcomes. Programme continuation is not justified on the basis of available evidence, but could be reconsidered should supportive longer-term evidence emerge.

"In this UK-based trial, the extent of care provision accessible to the usual care group might have diluted any effect of FNP..." (p.153)

Evidence from the US has a vastly different local context.

Usual care and local context matters.









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"The time has now come for a different approach to early childhood investment that catalyzes innovation, seeks far greater impacts, and views best practice as a baseline, not a solution."





"... we must embrace a spirit of **constructive dissatisfaction** with best practices, continually **design and test new ideas**, **learn from things that do not work**, and settle for nothing less than breakthrough impacts on important outcomes."

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Service delivery

Referrals
Warm handover
Therapeutic contact



South Australian data asset to underpin monitoring and evaluation



We have an opportunity to build a self-learning system with privacy protections in place to support monitoring and evaluation of early years investment to improve the life chances for children in South Australia

Acknowledgements







Department of the Premier and Cabinet

























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The material presented here does not necessarily reflect the views of our government partners.



