

The science of early childhood development and intervention: Implications for policymakers and professionals

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Outline of presentation



- Brain development research the science tells us that the early years are critical in shaping a child's future health, learning and wellbeing
- Life course research what happens in the early years has consequences right through the life course into adult life
- What is at stake implications of the research
- Challenges for policymakers and professionals translating the science to make a difference to children's outcomes
- Some examples of efforts by the Centre for Community Child Health to translate the science

What the research tells us



- The early years of a child's life are critical in impacting on a range of outcomes through the life course
- The environment experienced by a young child literally sculpts the brain and establishes the trajectory for long term cognitive and social-emotional outcomes
- If we want to improve outcomes in adult life we have to focus on the early years - this has profound implications for public policy
- Investing in early childhood is a sound economic investment ('the best investment society can make')



Children's development

- Development is the result of complex, ongoing, dynamic transactions between nature and nurture - a dance between biology and experience
- We cannot do much to change biology but we can change the environment in which young children grow and develop

The neuroscience of brain development



- Brain architecture and skills are built in a hierarchical 'bottom-up' sequence
- Foundations important higher level circuits are built
 on lower level circuits
- Skills beget skills the development of higher order skills is much more difficult if the lower level circuits are not wired properly
- Plasticity of the brain decreases over time and brain circuits stabilise, so it is much harder to alter later
- It is biologically and economically more efficient to get things right the first time

The importance of relationships



- Nurturing and responsive relationships build healthy brain architecture that provides a strong foundation for learning, behaviour and health
- The relationships a young child has with their caregiver(s) has major influence on the development of neural circuits
- When relationships are dysfunctional, levels of stress hormones increase this disrupts brain architecture and interferes with formation of healthy neural circuits

Persistent or 'toxic' stress



- In situations of extreme poverty, physical/emotional/sexual abuse, chronic neglect, maternal depression, substance abuse, family violence, dysfunctional parenting
- Results in strong and prolonged activation of body's stress response - in absence of buffering protection of adult support
- Disrupts developing brain architecture and leads to lower threshold of activation of stress management systems
- Can lead to life long problems in physical and mental health – right throughout the life course, from early childhood through to adulthood

Clinicians seeing increased Hospita prevalence of problems in childhood



- Child abuse and neglect
- Poor literacy and school achievement
- School readiness many children vulnerable at school entry
- Aggressive and anti-social behaviour
- Conduct disorders and ADHD
- Mental health problems anxiety, depression
- Obesity



'Wicked' problems

- Change in nature and severity of children's problems
- Multiple aetiological factors and pathways
- Single, simple interventions unlikely to work
- Complex, difficult to solve
- Need interdepartmental, interagency and integrated approaches
- This has major implications for the way we deliver services to young children and their families

Long term effects of stressful environments in early childhood



- 'Wicked' problems persist
- Increasingly robust body of research suggesting that many problems in adult life have their origins in pathways that begin in early childhood
- Studies both retrospective and prospective longitudinal studies with study subjects enrolled at birth or shorty afterwards

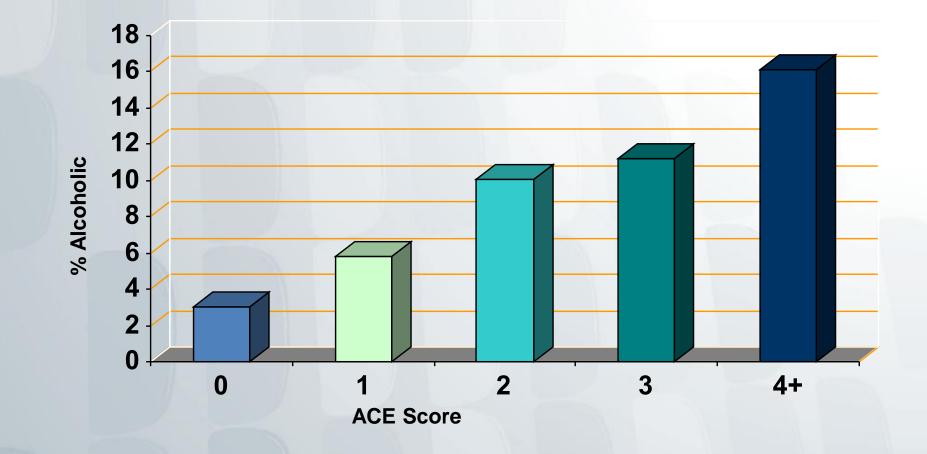
The Adverse Childhood Events (ACE) Study



- 1995 San Diego Kaiser retrospective study of 17,000 adult patients
- Looked at the relationship between morbidity in adults and adverse events in childhood:
 - Parental separation/divorce
 - Parental mental health
 - Parental alcohol or drug abuse
 - Physical/sexual abuse/neglect
 - Parent incarcerated

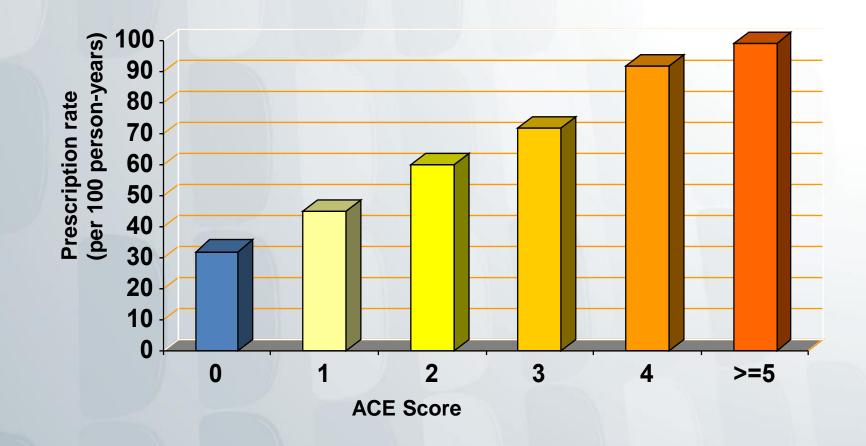
Adverse childhood events (ACE) and adult alcoholism





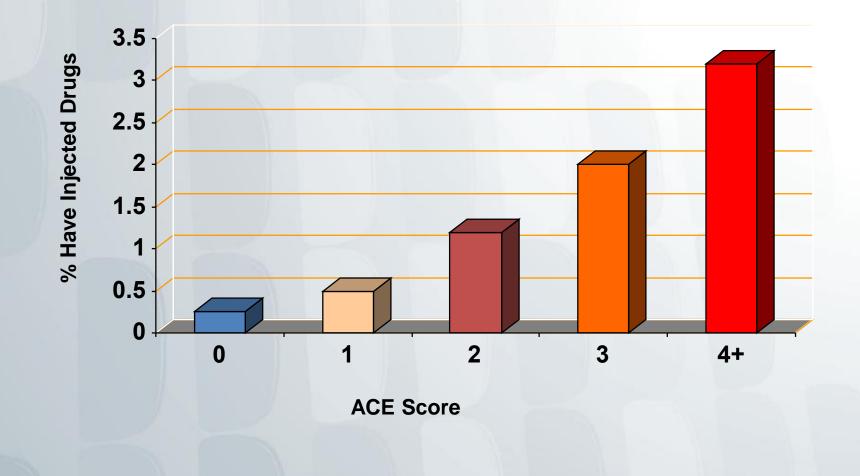
ACE score and rates of antidepressant prescriptions







ACE score and intravenous drug use





Adult problems with roots in early childhood

- Mental health problems
- Family violence and anti-social behaviour
- Poor literacy
- Chronic unemployment and welfare dependency
- Substance abuse and addiction
- Crime
- Obesity
- Cardiovascular disease
- Diabetes



Adversity

- Any sort of adversity operating on the child's environment - parents or caregivers - can have a negative impact on brain development
- Adversity acts as a major risk factor for the health and development of the child



Vulnerability and resilience

- Risk is not destiny
- Children differentially susceptible to environmental experiences
- 'Dandelion' children do well in most environments (most children)
- 'Orchid' children flourish in positive environments but react badly to negative environments

Early adversity



- 'Biological embedding of environmental events' (Hertzmann) - leads to changes in DNA (methylation)
- Impacts on biological systems
 - Immune
 - Cardiovascular
 - Metabolic regulatory
- What appears to be a social situation is likely to be a neurochemical situation
- Helps explain the intergenerational nature of disadvantage and social exclusion

The impact of social inequality



- Psychosocial factors impact on health because of association with frequent/recurrent stress
- Major impact in early years affects developing brain and establishment of neural circuits
- Chronic stress affects the body's physiological systems increasing vulnerability to wide range of diseases and health conditions
- 'Double jeopardy' have the least access to supports such as consistent health care, family supports quality childcare and preschool, good schools



Health and developmental inequalities

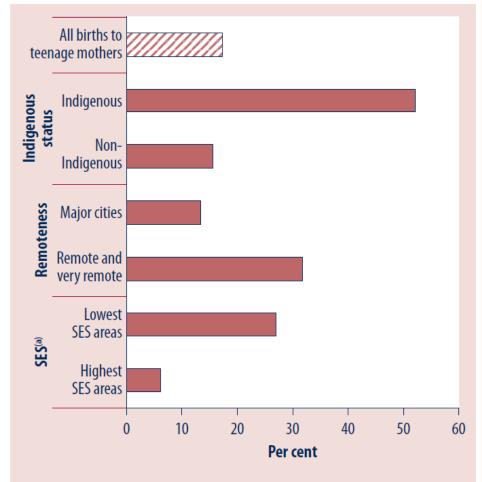
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Antenatal

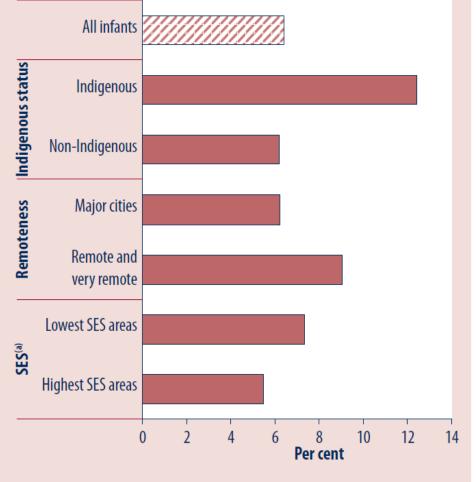
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(a) See *Appendix 1 Methods* for explanation of socioeconomic status (SES). *Note:* Remoteness and socioeconomic status based on mother's usual place of residence. *Sources:* Laws & Hilder 2008; AIHW National Perinatal Data Collection, unpublished data.

Figure 19.2: Women who smoked during pregnancy, by population group, 2006



(a) See *Appendix 1 Methods* for explanation of socioeconomic status (SES). *Source:* AIHW National Perinatal Data Collection.

Figure 21.3: Low birthweight infants, by population group of mother, 2006



Preschool

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Poverty and health (early years)

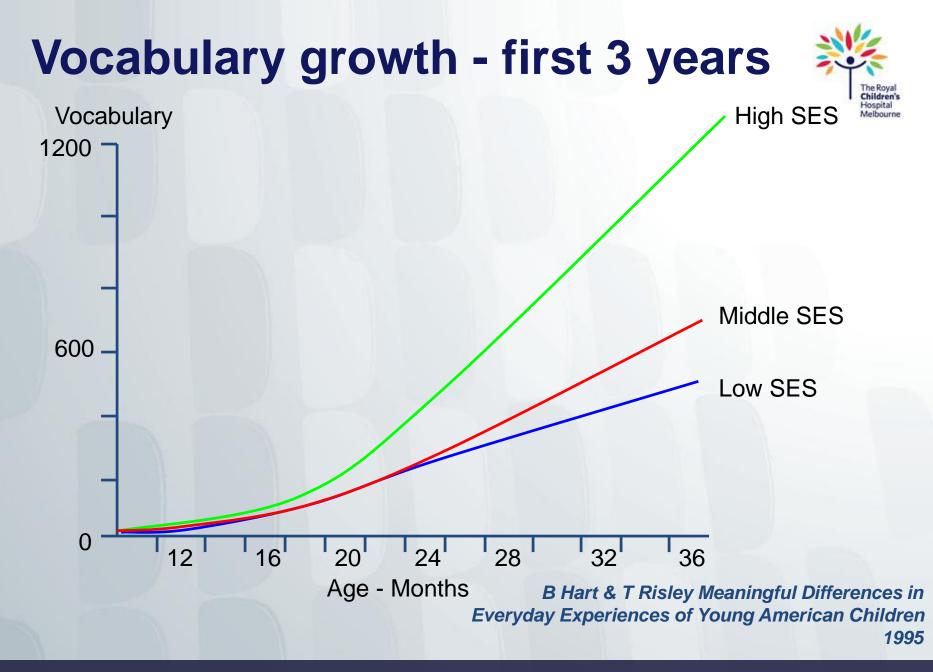


Less likely to:

- Be breast fed
- Be fully immunised
- Receive well child care
- Have regular and consistent access to health services

More likely to have:

- Low birth weight
- Developmental delay
- Higher injury rate
- Suboptimal growth
- More frequent hospitalisations
- Behavioural disorders



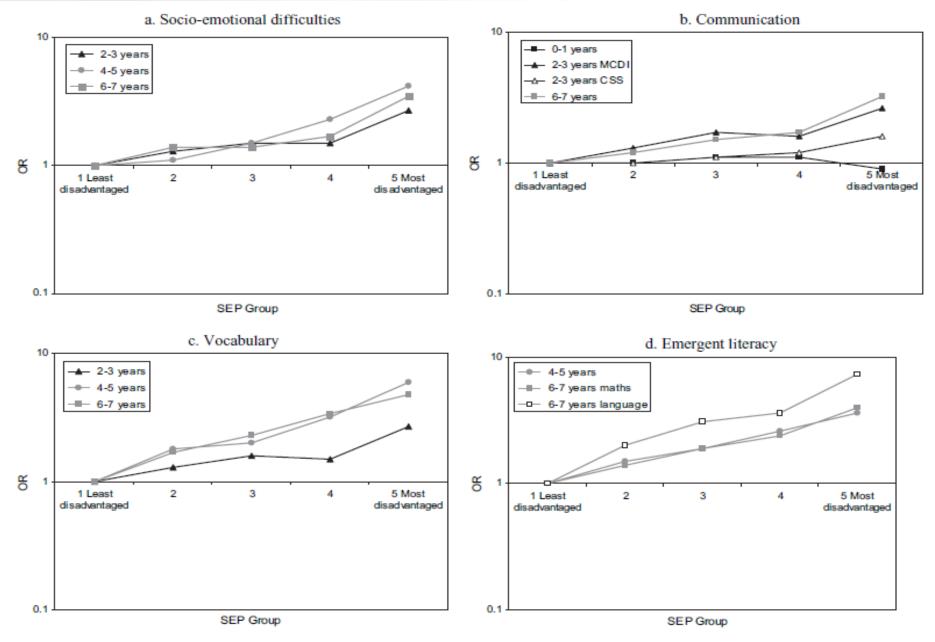
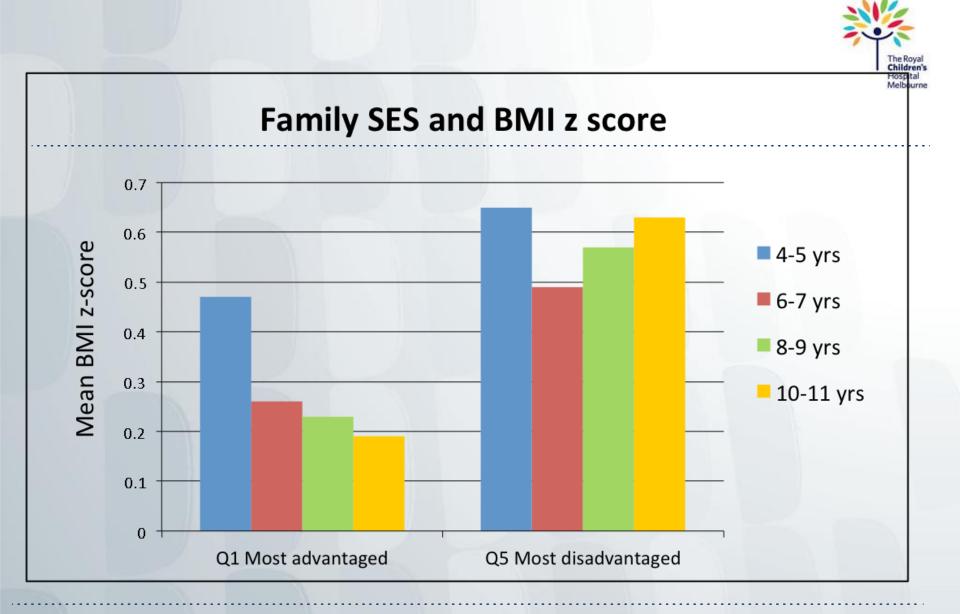


Figure 1 ORs (presented on a log scale) by socioeconomic position quintile for socio-emotional difficulties, and poor communication, vocabulary and emergent literacy skills.

CANicholision StMi, cludals IN; Benthelsen CD; ercal. J Epidemiol Community Health (2010). doi:10.1136/jech.2009.103291

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School entry

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Australian Early Development Index (AEDI)



- A population based measure which provides
 information about children's health and wellbeing
- 100+ questions covering 5 development domains considered important for success at school
- Teachers complete the AEDI online for each child in their first year of full-time schooling
- Results are provided at the postcode, suburb or school level and not interpreted for individual analysis

Five AEDI 'subscales'



- The AEDI measures a child's development in 5 areas:
 - physical health and well-being
 - social competence
 - emotional maturity
 - language and cognitive development
 - communication skills and general knowledge



AEDI National Rollout 2015

Number of schools 7,147
% of schools completed 95.6%
Number of teachers 16,425
Number of students 289,973
% of students completed 96.5%

Key findings

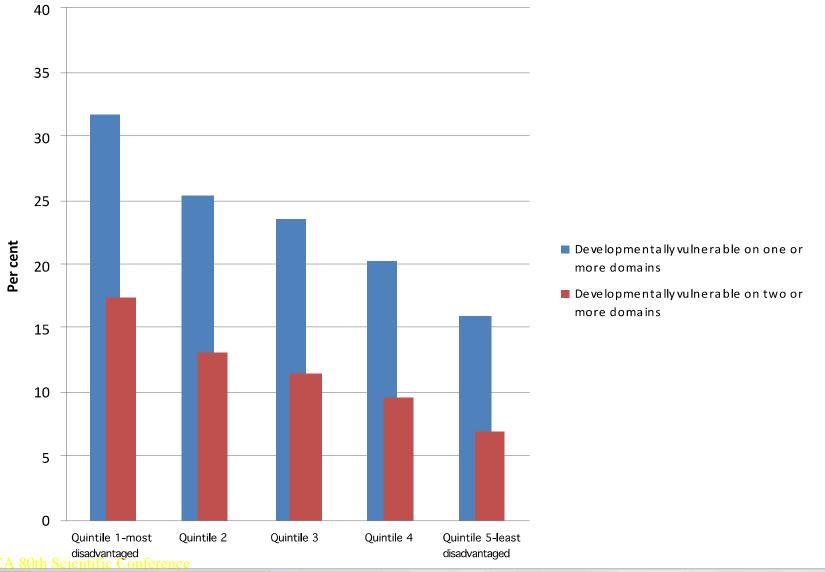


Percentage of children developmentally vulnerable (DV) across Australia by jurisdiction

	DV ≥ 1 domains (%)	DV ≥ 2 domains (%)
Australia	23.3	11.7
New South Wales	21.2	10.2
Victoria	20.1	9.9
Queensland	29.2	15.6
Western Australia	24.3	12.0
South Australia	22.5	11.4
Tasmania	21.7	10.8
Northern Territory	36.3	22.1
Australian Capital Territory	21.9	10.8

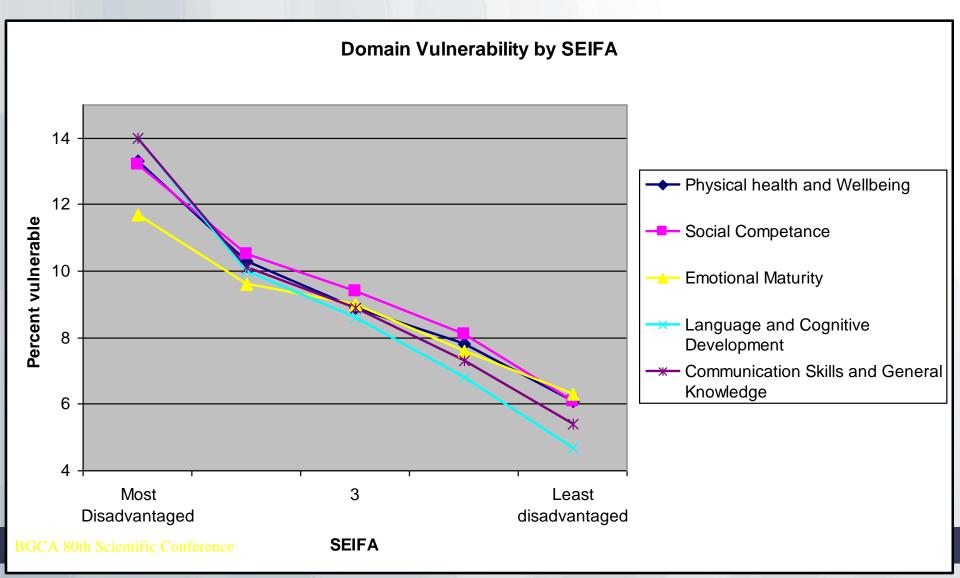
Results: Socio-economic status

Children's Hospital Melbourne



AEDI Domain comparison – vulnerability by SEIFA N=261,000

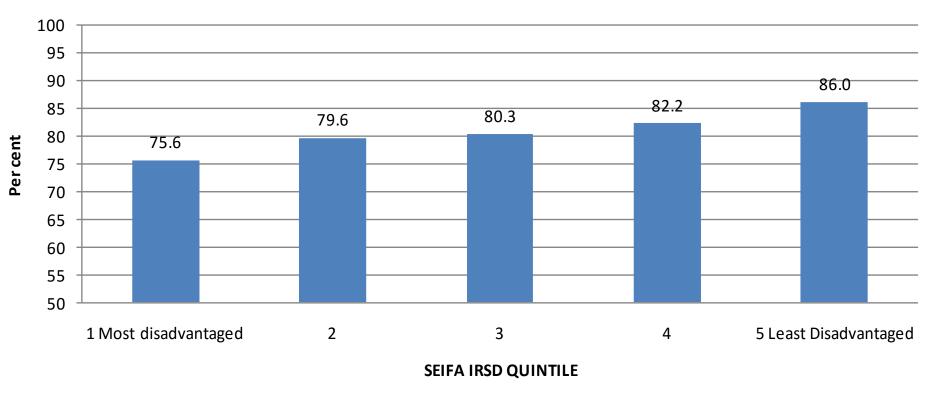




Disadvantage and preschool participation



Preschool or kindergarten program (including in a day care centre)

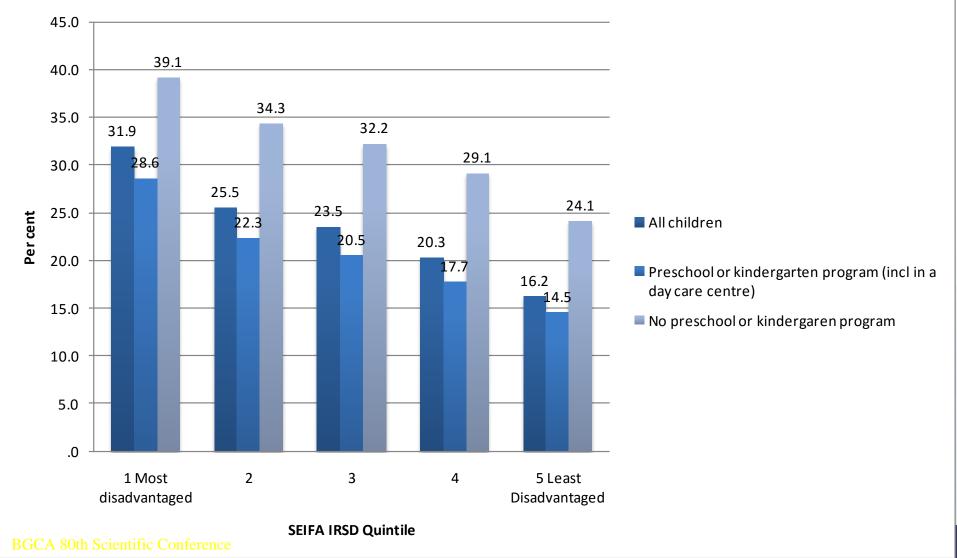


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AEDI Results and preschool participation



Developmentally vulnerable on one or more AEDI domain

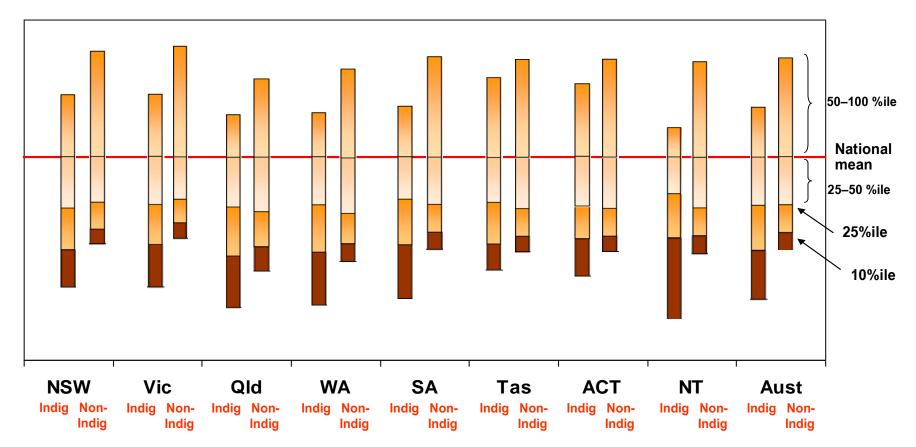




School age

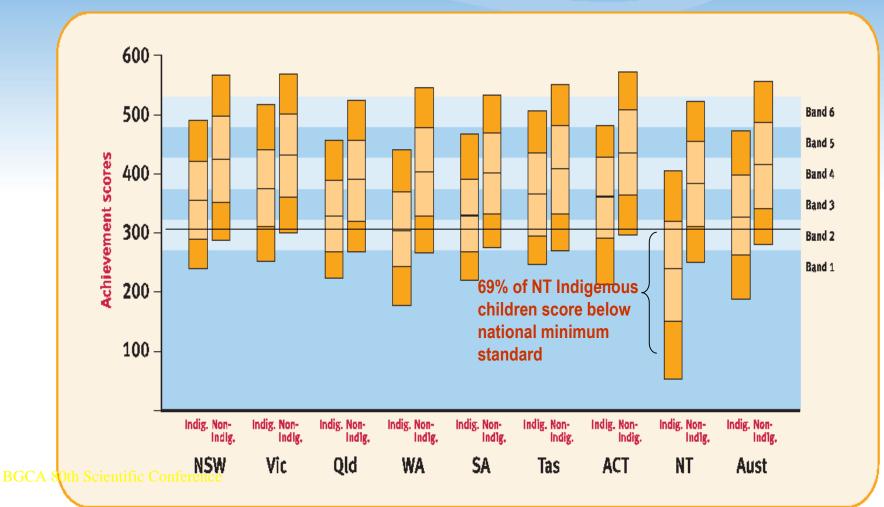
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AEDI developmental scores of 5 year olds: Australia, 2009



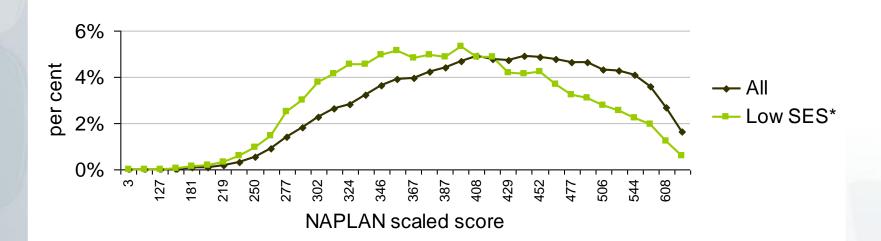
NAPLAN Year 3 Reading

Figure 3.R3: Achievement of Year 3 Students in Reading, by Indigenous Status, by State and Territory, 2009.



A comparison of NAPLAN scores for low SES and all students





* "low SES" defined as occupation of parent is ... machine operator, hospitality staff, assistant, labourer or related worker, or not in paid work in last 12 months

2012 year 3 NAPLAN Victoria



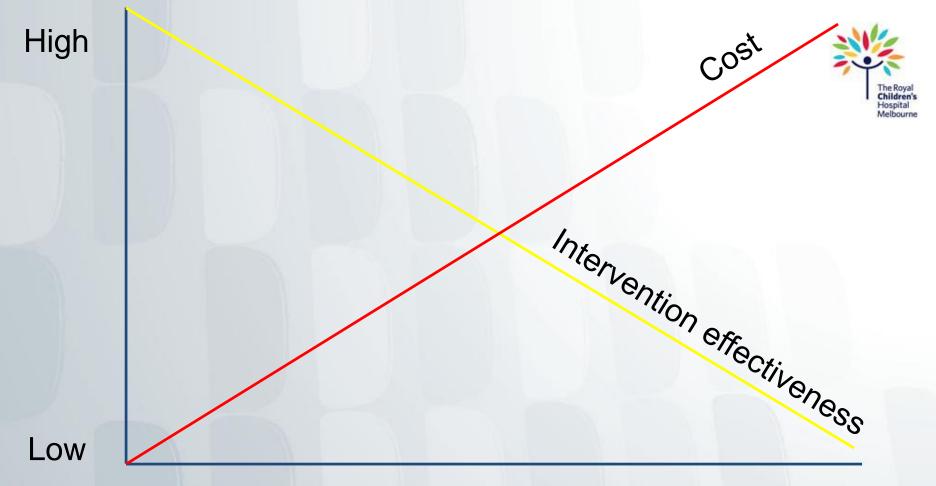
So what are the answers?

- Need major shift in public policy, focusing not just on treatment but also on prevention and early intervention (fence on top of cliff rather than more ambulances at the bottom)
- There is evidence that early intervention works ie the research tells us how to build the fences

Making a difference



- Address risk factors and emerging difficulties before
 they become entrenched problems
- Goal is to diminish or remove risk factors and strengthen protective factors, so improving chances of good outcome
- The earlier the better more leverage in younger years



Time

Intervention effects and costs of social-emotional mental health problems over time (Bricker)

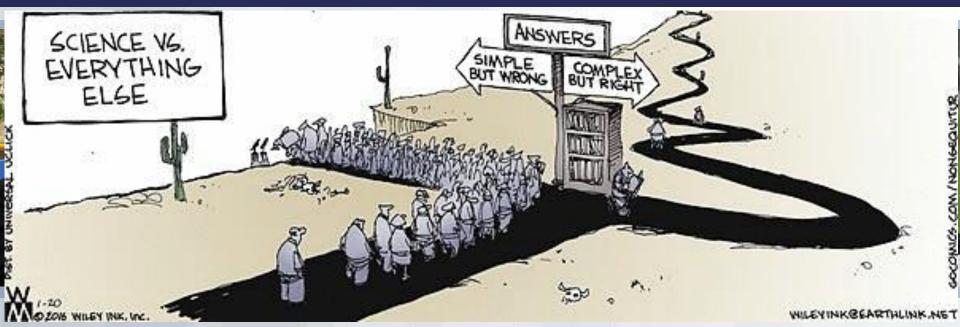
The challenge of translating the science into practical strategies



- The advocacy agenda how do we translate this research so it informs public policy?
- How can we work towards safe, nurturing, stimulating environments for <u>all</u> children?
- How can we support parents in their child rearing role?
- What are the implications of this research for service delivery and for professional practice?



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'For every complex problem there is an answer that is clear, simple, and wrong'.

- H.L Mencken



'Complex social issues cannot be dealt with merely by interventions with children or by strengthening families or by building community capacity. Policy needs an integrated focus on all 3 elements: children, families and communities.'

- A. Hayes, M Gray, AIFS, 2008

Implications of the science of early childhood for all of society



- Parents and families
- Education and the school system
- Communities and the built environment
- Child care not child minding but early learning
- Child protection system children at cognitive risk
- Service delivery health, education and welfare
- Business the economics of increased investment in ECD
- Media need a more sophisticated coverage of issues
- An expanded view of building infrastructure social infrastructure may be more important than physical infrastructure

Practical application of the research some examples from CCCH



- Spreading the word increasing awareness of the importance of the early years and ECD
- Supporting parents
- Ensuring access to services addressing equity issues
- Creating a responsive and coordinated service system
- Early identification of problems and risks
- The importance of data and service mapping
- Place based approaches building capacity in communities



Knowledge translation



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CCCH translation



Aimed at

- Governments and policy makers
- Service managers local government, NGOs
- Professionals GPs, paediatricians, MCHNs, child care workers, teachers
- Parents
- Media

Closing the gap between what we know and what we do



Advocacy with government

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Policy Brief



Translating early childbood research evidence to inform policy and practice

Centre for Community Child Health

No. 25 July 2013

Assessing the quality of early childhood education and care

In December 2009 the Council of Australian Governments (CDAG) agreed to a unified National Quality Framework (NQF) for Early Childhood Education and Care (ECEC). The quality reforms — which include clear standards, streamlined regulatory approaches, an assessment and rating system and a national learning framework — are being implemented over the period 2012 to 2020 as an initiative of the National Early Childhood Development Strategy. The vision of the strategy is that "by 2020 all children have the best start in life to create a better future for themselves, and for the nation" (CDAG, 2009).

The purpose of this Policy Brief is to consider the implications of current research and the role of quality assessment in delivering the National Early Childhood Development Strategy vision. Specifically, the Brief discusses the ECEC policy environment in Australia and outlines international evidence regarding the impact of ECEC quality components related to adult-child interactions and relationships.

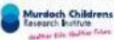
Why is this issue important?

The care of young children is increasingly a shared rationshilly of tentiles, communities, governments. and private enterprise. In 2008, UNICEF reported that in industrialised countries, approximately 80% of three-tosix year-olds and 25% of children under the age of three participatic in termal carry childhood education and care (ECEC). What happons in this care matters: neuroscience. research is providing evidence about the vital importance of sarly environments on children's learning and desologment Ingechines (National Scientific Council on the Developing Child: 30103: Farticipation in ECEC impacts diractly upon children's educational and social devolupment, and this impact has a lasting effect (Vandel et al. 2010: Ramey, Sparling and Landesman, 2012) It is participation in highquality programs, however, that detive is the greatest breadth for children (Taylor, Clevilland, tohimine, Clanity 5 Thorpe, 2013)

On the basis of international research, the UNICEF report (2006) emphasised that "improving the quality of sarty childhood adaption and care remains the most pokent of all assistable opportunities for resisting the entranchment of disadvantage." The report conclusiod by stressing the importance of measuring progress toward the goal of improved quality in ECEC and the need to: monitoring to inform ovidence-based policy, inflictive advocacy and public accountability.

Australian governments have increased investment in BEEC significantly over the test decade (DBEWR, 2010). Alted children in Australia participate in one or mere BEEC programs (long day care, terminy day care, limited hours or occasional care, kindergarten/preschoel) before they start action (Centre for Community Child Health and Fasthan institute for Child Health Research, 2009). Inswerke, instructing access to not sufficient to deterr the intended gatte for children. A commitment to program quality improvement is essential to tacking the dispartites in outcomes associated with disadvantage (Britte, Yoshkawa and Beller, 2017).

Empirical evidence about the essential components of quality within EEEC structure to young children in an Austinitian content is scared. In order to devide a clear picture of the role of ECEC quality in delivering the desired outcomes, we need measures to understand the components of quality and restarch to understand the they contribute to the advancement of human capatellities and secial inclusion objectives, and the roots associated with achieving positive affects (Harmon et al., 2010).







Professional development

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Community Paediatric Review



Centre for Community Child Health

Vol 31 No.2 May 2013

Malhaviers

Promoting child and family social and emotional wellbeing

The foundations of good social and emotional development are formed in early infant-parent and caregiver relationships (one to company, contents, 2006, in developing those relationships, families and caregivers ensure that their child develops on a healthy trajectory. With strong foundations, each child can go on to develop the capacity to manage life's struggles and celebrate the joy that life brings.

The child and family health name also has a role in helping families and canggivers to develop and maintain the relationships that enhance childher's development. Good social and emotional development, which stems from these early relationships and plays a role in children's lifetime mental health, is fundamental.

For some children, issues with social and emotional development in early childrend can be an indicator of mental health problems. Around half of all childrend mental health problems continue into adultheed (equation), aron and are associated with subsequent social, educational and fruncial costs for the individual and the community. As the costs, both fruncial and other, can be so significant, heiging children and families to encourage healthy social and emotional development is essential.

Children all deserve the opportunity for healthy social and emotional development, the boundation of good mental health. One of the ways child and family health nurses support children's healthy development as by working with children and their invilles to develop and maintain good social and emotional development and ultimately, mental health.

Risk and protective factors

In the course of their growth and development, all children will experience things that can either pose a risk or have a protective effect in terms of mental health and social and emotional development.

Risk factors include:

* a birth injury or very low birthweight

· a daability-their own, a sibling's or a parent's

· surly childhood illness

a challenging temperament (as perceived by the parent or caser)

poor living conditions (e.g. poverty, overcrowded housing)
 natural disasters (e.g. Roods, drought)

· traumatic events (e.g. catastrophes or accidents)

· being new to the country, dity, town

living in a new culture; communicating in a new language
 family break-up

· early separation from the main caregiver

the birth of a new sibling (especially when under two years old)

+ frequent changes in life (s.g. home address, caregivers)

 Brens or death of a parent, sibling or other close relative or triand

violence or tension in the home.

abuse (physical, secual, emotional) or neglect.
 (Nativitier larly Childrend, 2010)

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Scientific Conference

Murdoch Childrens Research Institute

Grow & Thrive

Learning, health and development in the early years (0 - 8 years old)

Centre for Community Child Health



Vol 2 No. 2 | May 2013



Supporting oral health—early childhood educators

Maintaining dental health goes beyond hvice daily toothbrushing and early childhood educators have an important part to play. You can help children and families at your service to make good oral health part of their routines by supporting them to learn more about the important role of dental health. Read more to

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Supporting oral health—early primary teachers At the start of each day, and just before bed at night, many children that you work with

brush their teeth to help maintain a healthy smile. In your role as an early primary teacher you can take oral health even further by introducing some simple routines in your school, and helping children and their families to learn about the importance of oral health Read more *



About Grow & Thrive Grow & Thrive is a free online publication from The Royal Children's Hospital Centre for Community Child Health. Grow & Thrive supports early childhood educators and school teachers working with young children – from infants to primary school-aged kids:



Parent information Your child's gummy—or toothy —grin can brighten the day of everyone who crosses their path. Beyond that winning smile, your child's oral health plays an important role in their health and wellbeing. Read more in our helpful parent fact sheets on:

- Healthy food for healthy teeth
- Looking after teeth and gums

Read more »





Information for parents

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raising childr	r en network ng website			search	h @
home grown-u	ups newborns	babies tod	diers preschool	ers school age	services & support!
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ROWN-UPS	NEWBORNS	BABIES	TODDLERS	PRESCHOOLERS	SCHOOL AGE
	NEWBORNS 0-3 months	BABIES 3-12 months	TODDLERS 1-3 years	PRESCHOOLERS 3-5 years	SCHOOL AGE 5-8 years
ll ages	1 Stern Section Mergin Colling	A second s	1. A strate distribution	and the second sec	the second s
II ages ooking after yourself	0-3 months	3-12 months	1-3 years	3-5 years	5-8 years Bedtime routines Breakfast
Stocking after yourself amily management eturning to work stress	0-3 months Breast or bottle?	3-12 months Night feeds	1-3 years Discipline	3-5 years Praise	5-8 years Bedtime routines



Parenting in pictures

Visual guides on essential information such as how to put baby to bed safely.

Parents like me

Indigenous parents

Dads



an .

¥

The resource





PREGNANCY Alcohol and pregnancy Use this picture guide to find out about how to cut down or quit drinking alcohol when pregnant.



PRE-TEENS TO TEENS Talking to Teens Our interactive guide shows how different ways of communicating with teens get different results.



ALL AGES My Neighbourhood Looking for a child health centre? Enter your postcode into My Neighbourhood to find services near you.



INTERACTIVE & MOBILE APP

Baby Karaoke

Baby Karaoke tool.

NEWBORNS

Good attachment

Good attachment is key to

Get words and music for old and new songs with our popular

PRE-TEENS TO TEENS Changing body Physical changes during adolescence can happen in different ways at different times, although there's a general pattern. Here's...



AUTISM & DISABILITY Children with ASD and disability app Get a handy services tool, funding info, parent videos, articles and more – on iTunes and Google Play.

Hangel

PREGNANCY Birth Choices Make the best choice for your pregnancy and birth care with our award-winning guide.

2200 articles, videos, parenting in pictures

Pregnancy, newborns to teens

Evidence-based





The demand









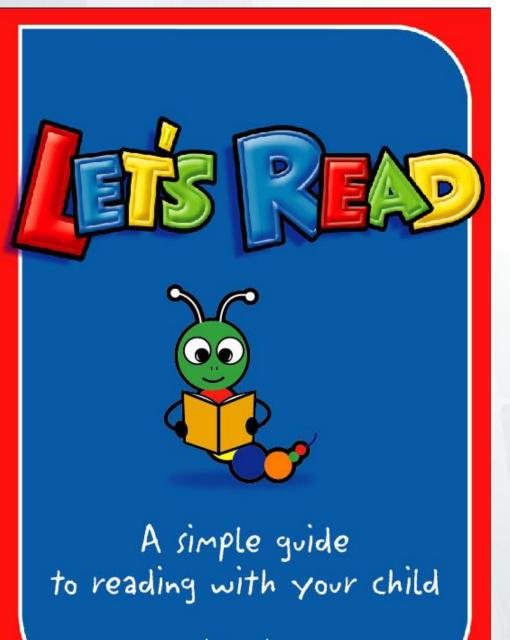
- 1 million visits per month
- 2 million page views per month
- 6,000 downloads Baby Karaoke per month
- 40% of traffic via mobile
- 80% traffic via parents search
- Top referral site: Facebook





'If you want your child to be intelligent, read them fairy tales; if you want your child to be more intelligent, read them more fairy tales.'

- Albert Einstein



The Royal Children's Hospital Melbourne

www.letsread.com.au

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Share rhymes, songs and stories every day



Let's Read has been designed to encourage and support you to share rhymes, songs and stories with your child from birth.

Reading with your child from birth gives them a great start to life and helps them to become better readers. Together you can read, play and learn with books. Sharing stories from birth is a really important way to help your child develop the skills they will need when it's time to start school.

This DVD has lots of simple and practical tips on how to enjoy books with your baby from four months of age right up until they start school.

Watch and learn from other parents reading with their child. See a range of books being read aloud in different and fun ways that you and your child will both love.

So Let's Read!

Acknowledgments:

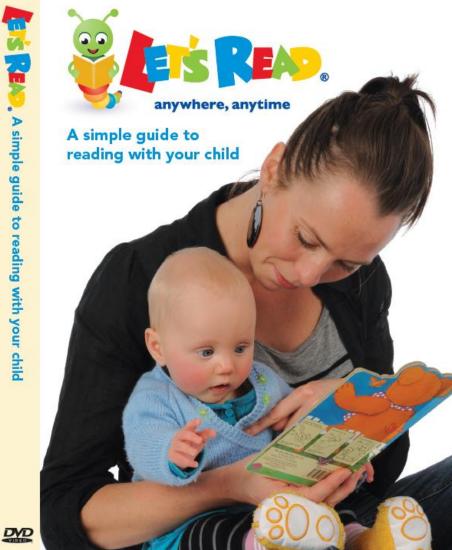
Children, families and staff that participated in the DVD Goodstart Early Learning Centre, Braybrook North Melbourne Library, City of Melbourne The Royal Children's Hospital, Early Learning Centre Yappera Children's Service Cooperative LTD For more information about Let's Read visit: www.letsread.com.au

ERC 121480

Produced by the Educational Resource Centre, The Royal Children's Hospital, Melbourne



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Reading with babies

What babies like:

- sitting close, seeing the book and your face
- looking at and listening to the world around them
- moving to the rhythm of stories, nursery rhymes and music
- touching objects with different textures (soft, smooth, prickly)
- hearing the same songs, books and stories over and over again
- feeling and holding the book and helping to turn the pages — board books are great
- Iooking at books about family, food, animals and colours.





Reading with little kids

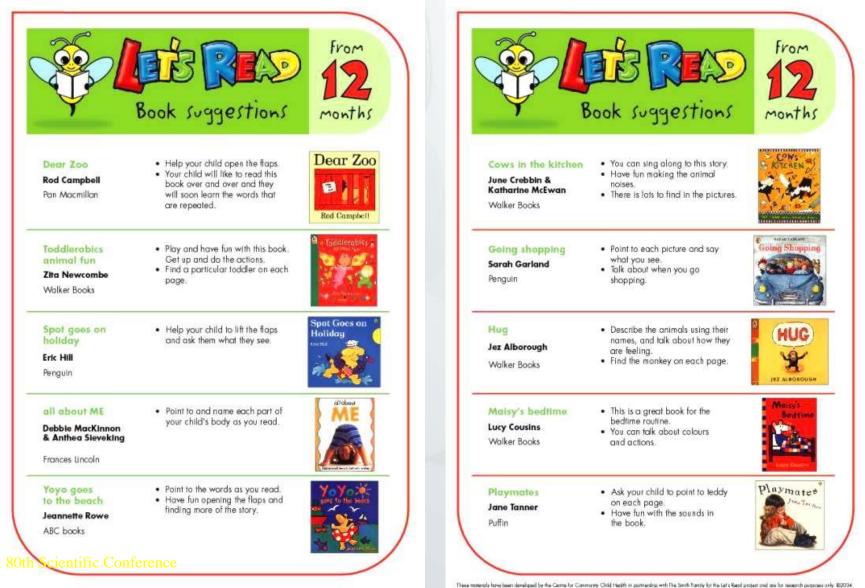
What little kids like:

- to talk with you about the games they are playing
- to sing and hear stories about their home, culture and people
- to point to and name things they see
- to talk about where animals live
- to say the words they know in songs and stories
- to hear the same books, songs and stories over and over again
- to show you which book they want to read and help turn the pages.



Materials







Early detection (and engagement with parents)



AUTHORISED AUSTRALIAN VERSION

BRIEF ADMINISTRATION AND SCORING GUIDE

A method for detecting and addressing developmental and behavioural problems in children



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PEDS RESPONSE FORM

Child's Age

Child's Name Child's Birthday Parent's Name

Today's Date

1. Please list any concerns about your child's learning, development, and behaviour.

2. Do you have any concerns about how your child talks and makes speech sounds?

Circle one: No Yes A little COMMENTS:

3. Do you have any concerns about how your child understands what you say?

Circle one: No Yes A little COMMENTS:

4. Do you have any concerns about how your child uses his or her hands and fingers to do things? *Circle one:* No Yes A little COMMENTS:

5. Do you have any concerns about how your child uses his or her arms and legs? *Circle one:* No Yes A little COMMENTS:

6. Do you have any concerns about how your child behaves? *Circle one:* No Yes A little COMMENTS:

7. Do you have any concerns about how your child gets along with others?

Circle one: No Yes A little COMMENTS:

8. Do you have any concerns about how your child is learning to do things for himself/herself? *Circle one:* No Yes A little COMMENTS:

 9. Do you have any concerns about how your child is learning preschool or school skills?

 Circle one: No
 Yes
 A little
 COMMENTS:

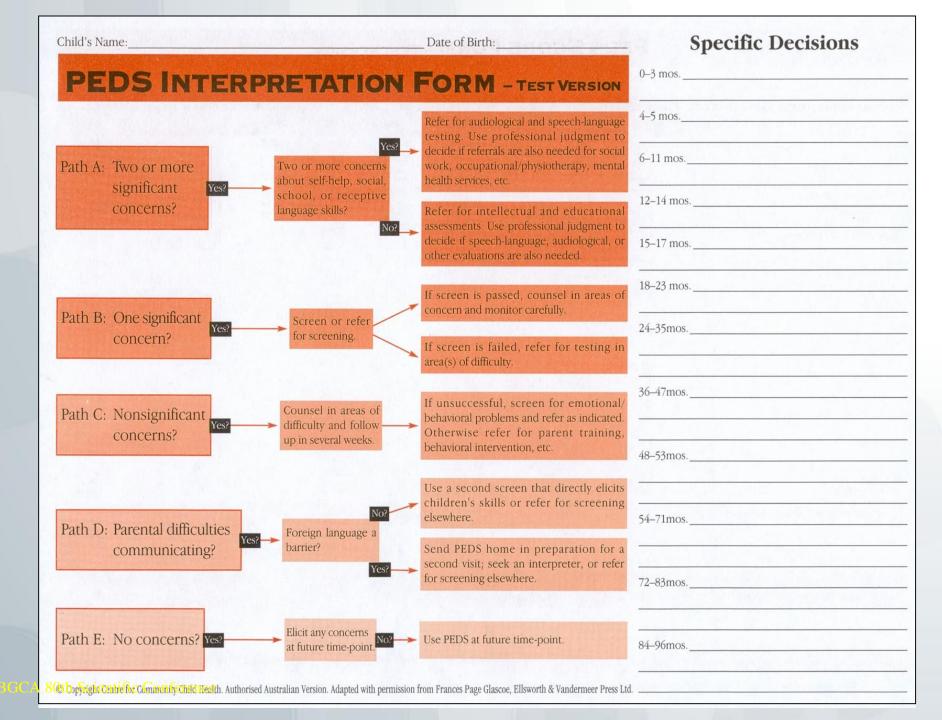
10. Please list any other concerns.

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Child's Name					Date of Birth:		Date(s) of scoring:					
Find appropriate colur on categorizing conce	nn for the rns. Shadeo	child's age. P l boxes are s	lace a tick ir ignificant pr	n the appropredictors of c	oriate box to lifficulties. N	show each c on-shaded b	oncern on th oxes are not	ne PEDS Res n significant	ponse form. predictors.	See Brief Sc	oring Guide	for details
Child's Age:	0–3 mos.	4–5 mos.	6–11 mos.	12–14 mos.	15–17 mos.	18–23 mos.	24–35mos.	3647mos.	48–53mos.	54–71mos.	72–83mos.	84–96mos.
1. Global/Cognitive												
2. Expressive Language and Articulation												
3. Receptive Language												
4. Fine Motor												
5. Gross Motor												
6. Behaviour												
7. Social-emotional												
8. Self-help												
9. School					5							
0. Other												
Count the number of	ticks in the	small shade	d boxes and	place the to	otal in the lar	ge shaded be	ox below.					
If the number shown i shown is 0, count the	n the large number of	shaded box small unsha	is 2 or more ded boxes a	e, follow Path nd place the	n A on PEDS total in the	Interpretation	on Form. If the dot box belo	he number s w.	hown is exa	ctly 1, follow	Path B. If th	ne number
•												
If the number shown i	n the large	uncheded b	on is 1 or m	oro follow P	ath C. If the	number 0 is	chorup con	sider Path D	if relevant (Otherwise fo	allow Path F	





Reforming the service system

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Infrastructure of existing services



- Child care
- Family day care
- GPs
- MCH nurses
- Preschool
- School
- Specialist services
- Parenting programs

- Neighbourhood houses
- Family support
- Telephone counselling
- Family violence
- Problem gambling
- Child protection
- Adoption/foster care
- Mental health services



Just because you have a service system in place does not mean that all families use it.



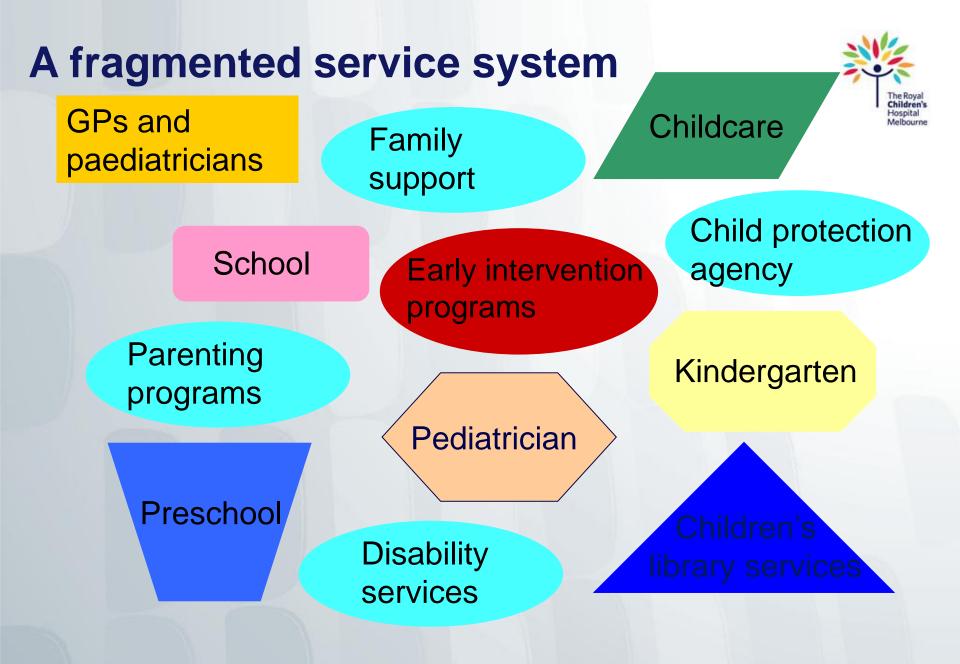
Barriers to using services

Structural barriers:

•Not aware service exists, cost, waiting list, transport, hours of opening, narrow eligibility Family level barriers:

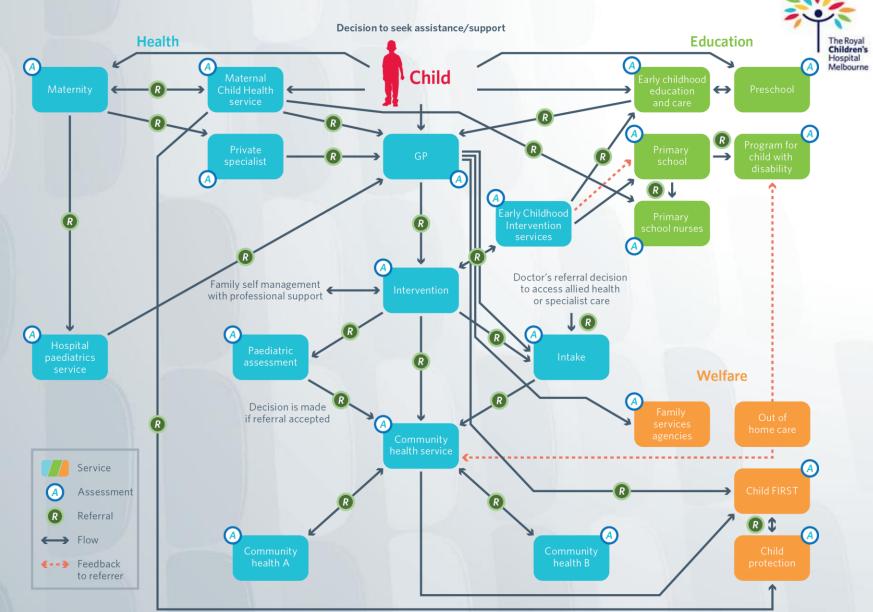
 Unstable housing/homelessness, low literacy levels, day to day stress, mental health problems
 Relationship or interpersonal barriers

Insensitive attitude by professional, lack of trust in services, fear of authoriries



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Blue Sky Research Project: Mapping the current service system in a Victorian community



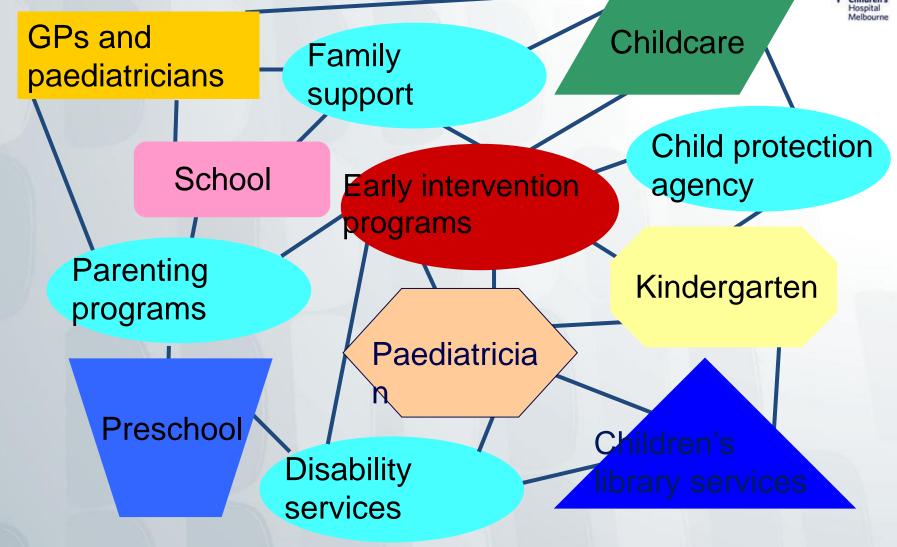
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Centre for Community Child Health

TOLOTICE Early Childhood Development

Linking services

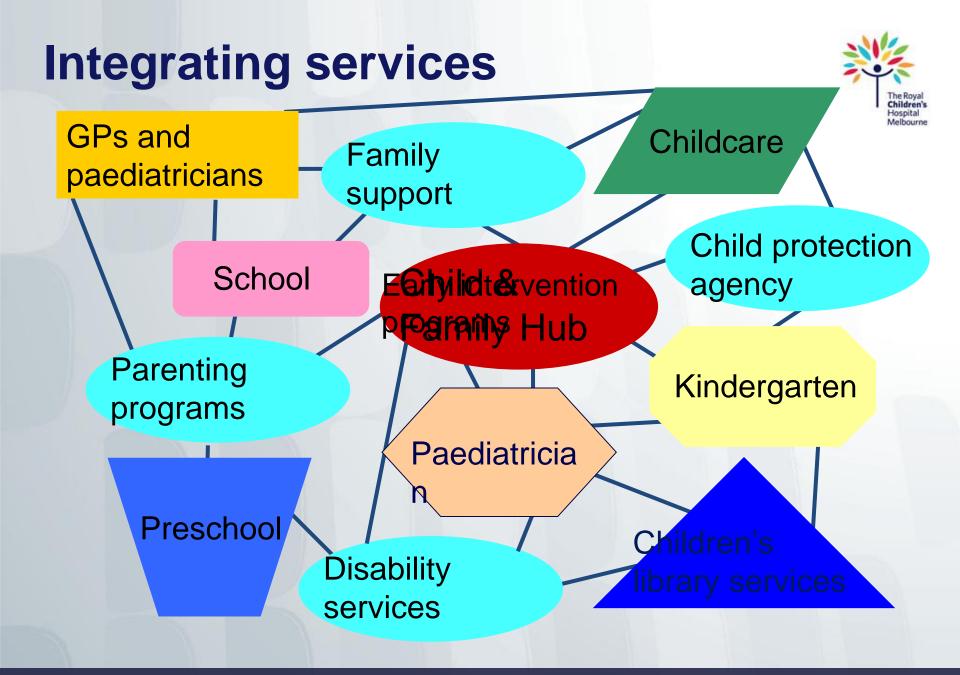






No wrong door!

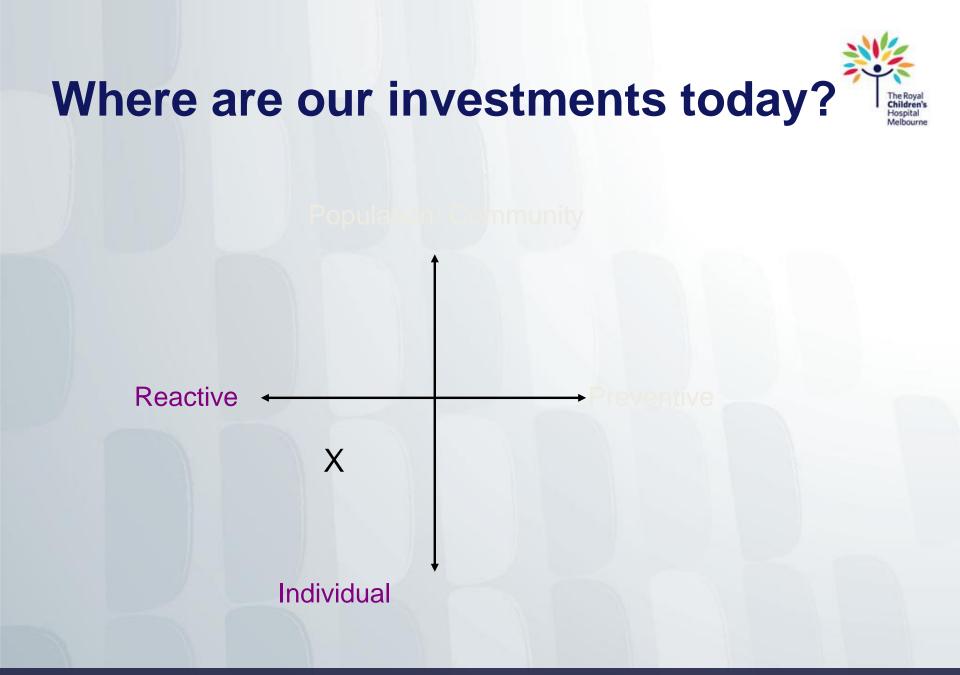
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A population approach to improving outcomes





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Where our investments should be

Population/ Community

Х

Reactive

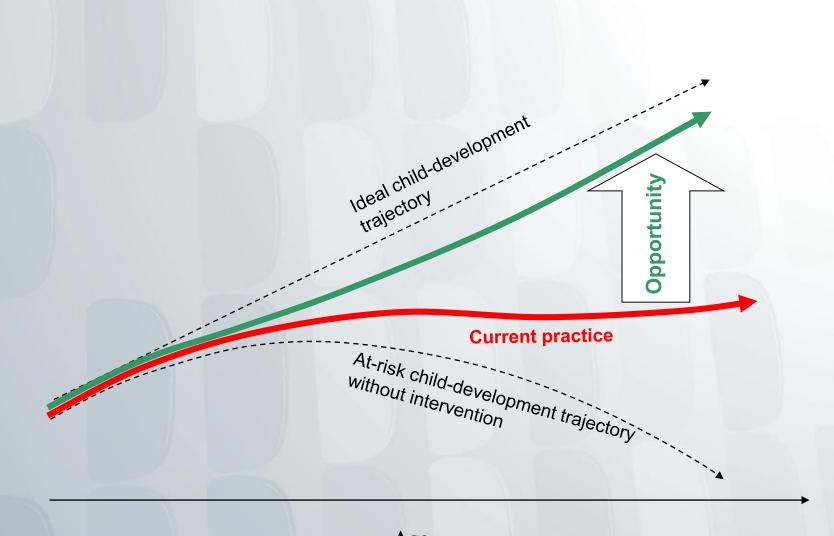
→ Preventive

ndividual

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Developmental health - Aims





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Conclusion



- Promoting the healthy development of children is both an ethical imperative and a critical economic and social investment
- Our agenda for the 21st century has to be the application of science to policy and practice to close the gap between what we know and what we do



Thank You!

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