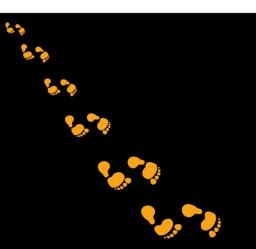


Aboriginal and Torres Strait Islander children across Australia

NSW FaCS 11 May 2017





The Longitudinal Study of Indigenous Children

The opinions, comments and analysis expressed in this presentation are those of the author and do not necessarily represent the views of the Minister for Social Services and cannot be taken in any way as expressions of Government policy.





Footprints in Time The Longitudinal Study of Indigenous Children

Presentation outline

What is it? Who is involved? Where?

Methodology

Selected findings



How you can apply for and use the data and get more information





LSIC: Overview



The Longitudinal Study of Indigenous Children

What: Australian Government longitudinal cohort study with ongoing funding.

Why: To explore how early childhood affects later life outcomes for Aboriginal and Torres Strait Islander children.

When: Consultation, trials and pilot 2004-2007. Data collection from 2008.

Who's involved:

 Guided by a Steering Committee chaired by Professor Mick Dodson AM since 2003,
 majority Indigenous members

 Managed by LSIC Team in the National Centre for Longitudinal Data in the Department of Social Services

Research Administration
 Officers (RAOs) or interviewers
 are mainly DSS employed,
 full time Indigenous staff.



Key research questions





- 1. What do Aboriginal and Torres Strait Islander children need to have the best start in life to grow up strong?
- 2. What helps Aboriginal and Torres Strait Islander children to stay on track or get them to become healthier, more positive and strong?
- 3. How are Aboriginal and Torres Strait Islander children raised?
- 4. What is the importance of family, extended family and community in the early years of life and when growing up?

And:

5. How can services and other types of support make a difference to the lives of Aboriginal and Torres Strait Islander children?

LSIC methodology



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Positive focus

Commitment to feedback

Publicly available data

Annual quantitative data collection includes:

- Parent/carer own and their child's physical health, social and emotional wellbeing, learning and education, home environment and work.
- Study children are also interviewed and complete age appropriate vocabulary, reasoning, reading and maths assessments and are weighed and measured.
- Dad/Parent 2 interviews & online or hard copy teacher questionnaires.





Sample and retention

 Small widely spread population with no definitive list - 24% remote



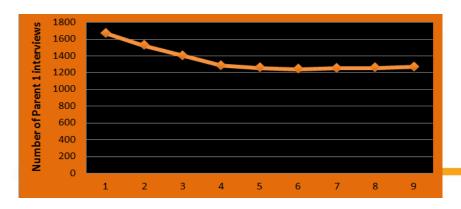


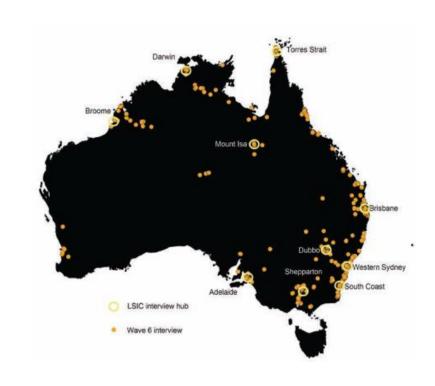
LSIC solution:

- Site based sample not representative
- Both Medicare and Centrelink lists
 & word of mouth to supplement
- More than 1670 parents or carers (usually Mum) of babies and four year olds in 2008

Excellent retention:

- More than 1230 interviews each year
- Still have 29.6% remote or very remote (ASGC) at wave 8 (2015)



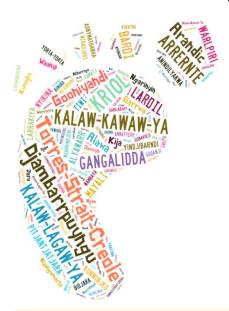


Number of parent 1 interviews by wave

Sample characteristics 2008, 2009

Parent 1:

- 75% Aboriginal, 4% Aboriginal & Torres Strait Islander,
 7% Torres Strait Islander, 15% not Indigenous
- 41% in lowest decile for relative socio-economic disadvantage
- 27% of parent/carers speak an Indigenous language
- 15% had post natal depression (n=237), another 2% "probably"
- 93% of Parent 1 (main carer) mothers



LSIC children

- Children belong to more than 80 tribal / language groups or clans
- Over 300 children speak more than one language – many 2 or more
- 9.5% were born large for gestational age & 17% were born small for gestational age



Selected findings



ife events in LSAC and LSIC

Life events in Load and Loid		
LSAC – In the last year	LSIC – In the last year	
Pregnancy or birth of a baby to P1 or P2	Pregnancy or birth of a baby to P1 or P2	
Injury, illness or assault to P1 or P2	P1 or P2 have been badly hurt or sick	
Injury, illness or assault to other close relative	Other close family member has been badly hu or sick	
Parent, partner or child died	Death of close family member or friend in the household	
Clase family friend or another relative died	Death of close family member or friend not in	

Close family friend or another relative died

P1 or P2 lost their job

alcohol problem

court appearance

Had a major financial crisis

Moved house in the last two years

Someone in the household had a drug or

Something valuable was lost or stolen

Separated from a spouse or partner

P1 or P2 had problems with the police and a

the household

Moved house

alcohol problem

split

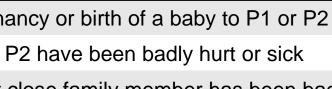
P1 or P2 lost their job

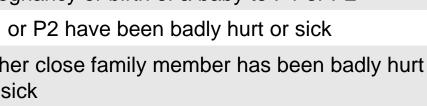
Family had serious money worries

Someone in the household had a drug or

Any of the child's carers left because of a family

In the last year

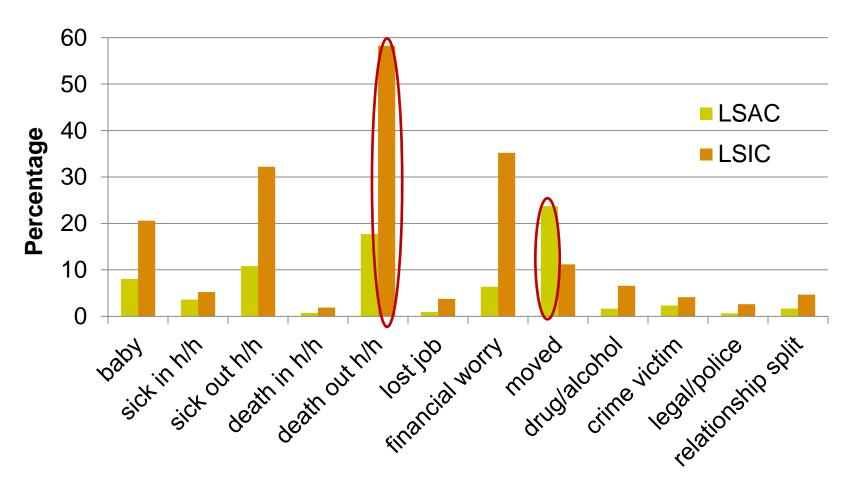




Someone in the household has been mugged, robbed or assaulted P1 or P2 has been arrested, in jail or had problems with the police

Life events experienced at age 6 & 7 in LSAC and LSIC

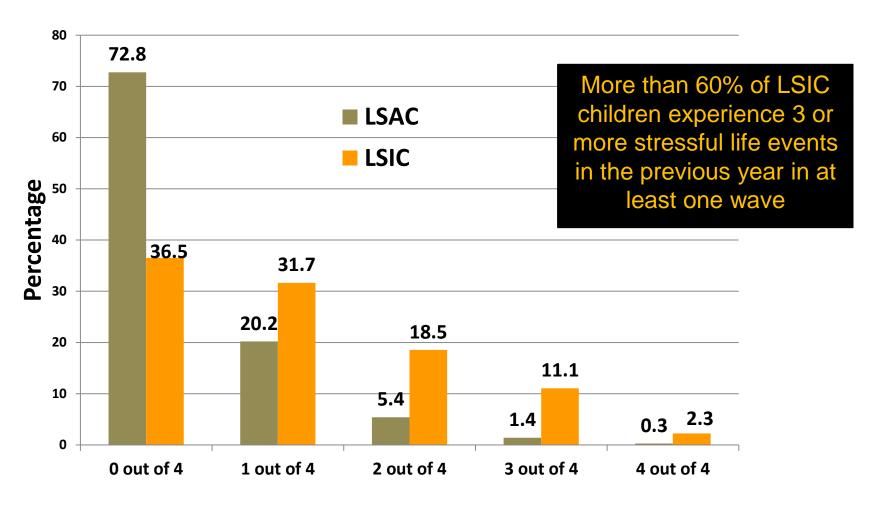




Type of life event experienced by family

Percentage of LSAC and LSIC children experiencing three or more life events over four waves

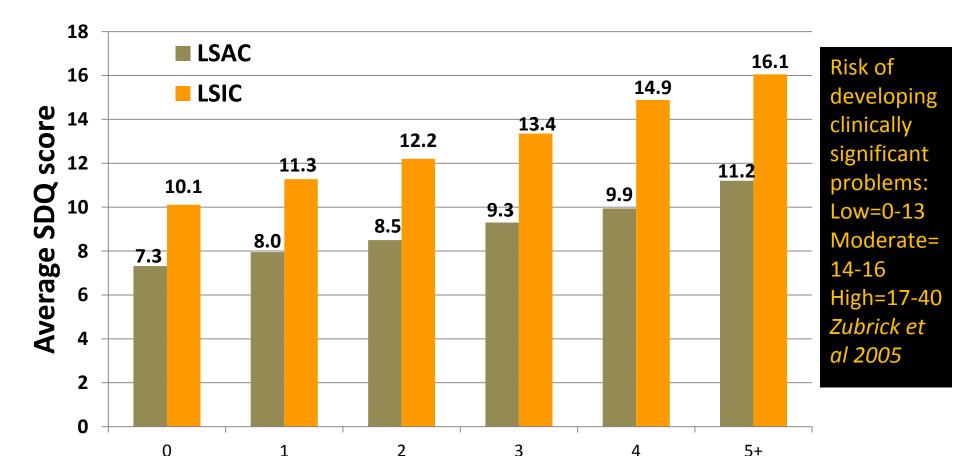




Number of times 3+ life events experienced by family over 4 waves

Children's social, emotional & behavioural difficulties scores (SDQ), by number of life events





Number of life events experienced at age 6 & 7 in LSAC and LSIC

Multivariate regression model of the relationship between disadvantage and children's social and emotional difficulties



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Measure of Disadvantage	LSAC	LSIC
SEIFA advantage & disadvantage (bottom 5 deciles)	0.80***	1.17
Jobless household	1.34***	0.26
Financial stress	1.52***	1.74***
Single parent primary carer	1.26***	-0.26
Low educational attainment primary carer	0.94***	0.43
Poor health of primary carer	1.68***	2.55***
Low income (<\$600 pw)	-0.17	0.48
Number	3799	437"

* p<0.05 **p<0.01

Children aged 6 and 7

What reduces LSIC children's social, emotional and behavioural difficulties?



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P1 good social and emotional wellbeing***

Major life events: continuous***

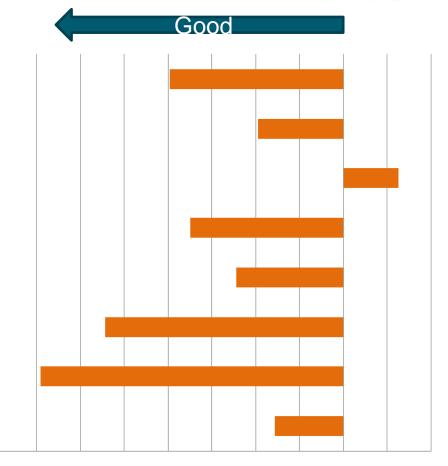
Parent education, Year 11+**

Study child's age in years***

Study child is a girl***

Study child in very good/excellent...

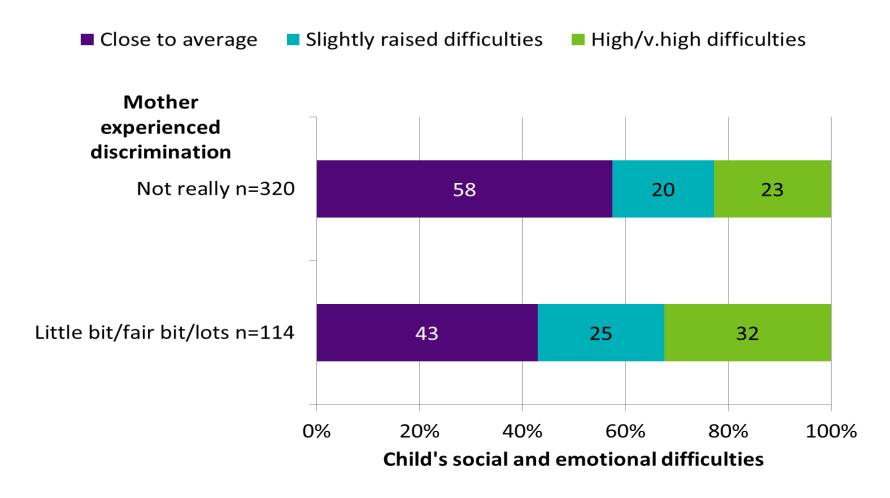
Adv Indigenous socio-economic areas***



-1.6 -1.4 -1.2 -1 -0.8 -0.6 -0.4 -0.2 0 0.2 0.4

Relationship between mother's experience of discrimination and child's difficulties scores at 6-7 years of age





Katie Thurber, ANU



The Longitudinal Study of Indigenous Children

- Cohort Profile: Footprints in Time, the Australian Longitudinal Study of Indigenous Children; Thurber, K. Banks, E. & Banwell, C. on behalf of the LSIC Team. International Journal of Epidemiology, 2014
- Early Life Predictors of Increased Body Mass Index among Indigenous Australian Children: Thurber, K., Dobbins, T., Kirk, M., Dance, P., & Banwell, C. Plos One, 2015



- "...<u>higher birthweight</u> indicates an increased risk of obesity in childhood and therefore an increased risk of adult onset chronic disease..."
- "Further, this study identifies <u>smoking during</u> <u>pregnancy</u> as an independent risk factor for <u>increased BMI</u> in this sample."

RESEARCH ARTICLE

Early Life Predictors of Increased Body Mass Index among Indigenous Australian Children

Katherine A. Thurber¹*, Timothy Dobbins¹, Martyn Kirk¹

, Phyll Dance^{2,3}

, Cathy Banwell¹

1 National Centre for Epidemiology and Population Health, Research School of Population Health, The Australian National University, Canberra, Australia, 2 ANU Medical School, The Australian National University, Canbar, Australia, 3 National Centre for Indigenous Studies, The Australian National University, Canberra, Australia

Available from: https://www.researchgate.net/Katherine_Thurber





Body Mass Index trajectories of Indigenous Australian children, and relation to screen-time, diet, and demographic factors; Thurber, K., Dobbins, T., Neeman, T., Banwell, C. & Banks, E., Obesity, 2017

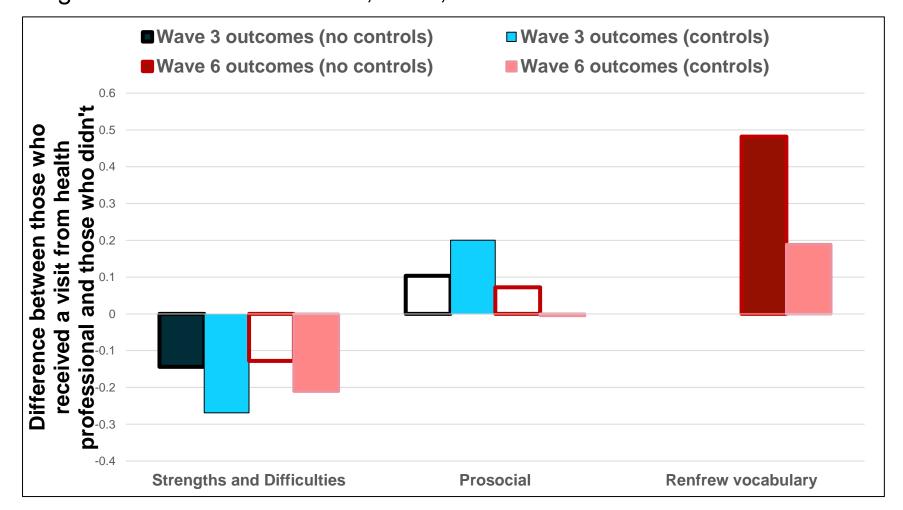
- More than 10% of children in the study were overweight/obese at age 3.
- Rapid onset of obesity between 3 and 9 years of the children with normal baseline BMI at wave 3 - 31.9% had overweight/obesity 3 years later
- Barriers to a healthy diet include: cost, availability, poor quality of fresh produce & easy availability of unhealthy options (including soft drink)

To promote healthy weight, Thurber et al suggest:

- a) improve the social determinants of health, such as financial security, housing, and community wellbeing;
- b) improve the food environment so that families can make healthy choices.

The relationship between nurse home visits and Indigenous child outcomes; Biddle, N. Holzinger, L.A., Montaigne, M. & Crawford, H. National Centre for Longitudinal Data Conference, 2016, Canberra*

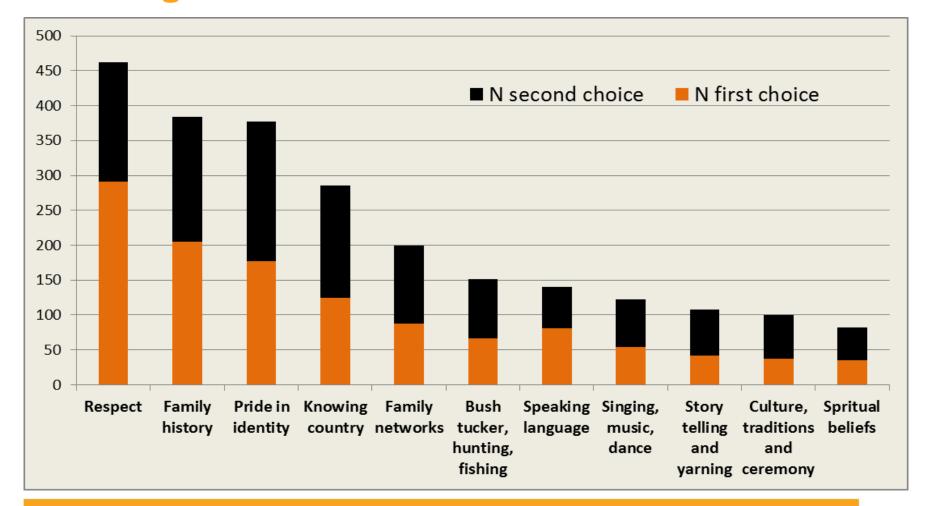




Relationship between home visits and later outcome measures

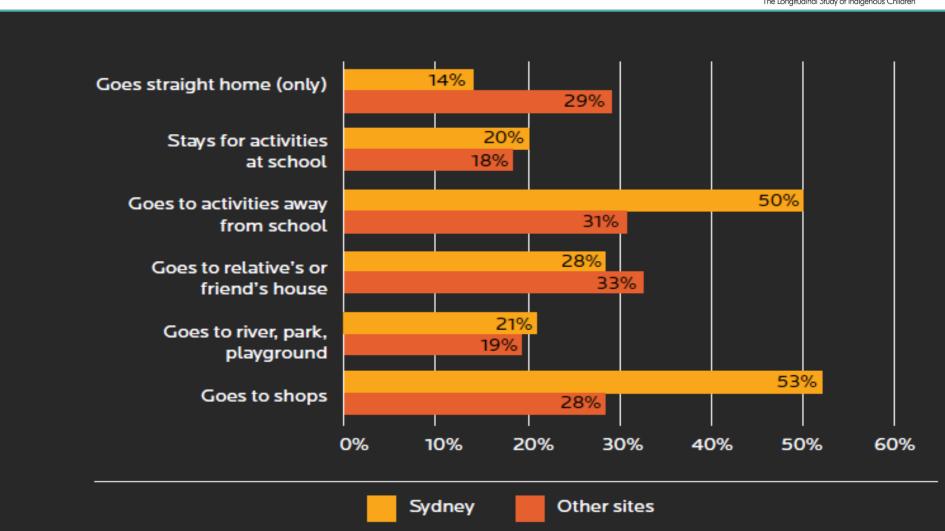
What is it about <Aboriginal or Torres Strait Islander> culture that you would like to pass on to <study child> at this age?





Extract from Community Feedback 2015





What does study child do after school? Sydney compared to other LSIC sites

LSIC Challenges



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Engagement: culturally and linguistically diverse, many Indigenous people felt over-researched & sceptical of any research benefits.

Solutions:

- Listen & respect the advice from: elders community consultations, Steering Committee, interviewers
- Build relationships in the community
- Employ Indigenous interviewers where they will be interviewing
- Stress the interview is voluntary
- Provide Don't know and refused options for each question or not appropriate to answer to skip section

Why do you stay in the study? (wave 6, 2013)

"...give policy makers a better idea of what's going on with Aboriginal families."

"...(show) diversity within Aboriginal culture."

"The questions allow me to reflect on what we do at home and how (child) develops."

Find out more about LSIC



Look at the website: www.dss.gov.au/lsic

Sign up to The Source: thesource.dss.gov.au/ for news about LSIC and other longitudinal studies

Look for the book: Indigenous Children Growing Up Strong:

A Longitudinal Study of Aboriginal and Torres Strait Islander Families

Editors: Maggie Walter, Karen L. Martin, Gawaian Bodkin-Andrews.



Access the data

Application forms and licences can be found via www.dss.gov.au/NCLD
Questions about accessing the data email longitudinalsurveys@dss.gov.au
Questions about using the data email LSICdata@dss.gov.au



Questions?

