Dr Lisa Underwood

Senior Research Fellow, Psychological Medicine

Named Investigator, Growing Up in New Zealand

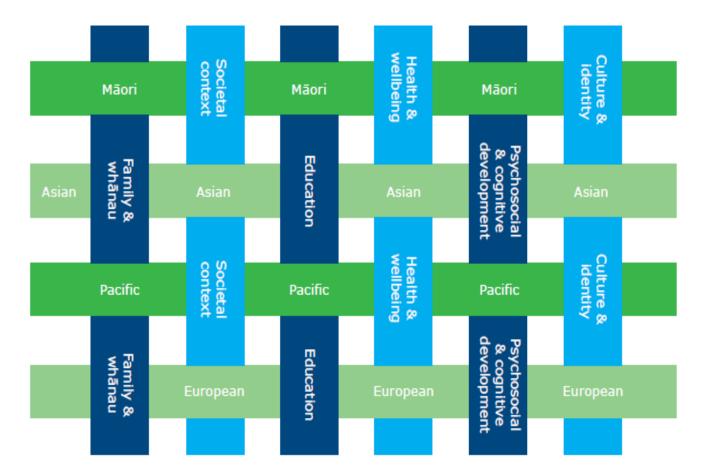


Today's talk

- Background to Growing Up in New Zealand
 - What makes the study special?
 - How do we collect our data?
 - What do we do with our data?
 - What have we found?
 - What next?



Research domains and themes





How do you Recruit and Retain a Prebirth Cohort? Lessons Learnt from Growing Up in New Zealand

Susan M. B. Morton¹, Cameron C. Grant², Polly E. Atatoa Carr¹, Elizabeth M. Robinson³, Jennifer M. Kinloch³, Courtney J. Fleming⁴, Te Kani R. Kingi⁵, Lana M. Perese⁶, and Renee Liang⁴

Abstract

Growing Up in New Zealand, a longitudinal study following nearly 7,000 children, has faced some unique challenges in identifying, enrolling, and

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COHORT PROFILE

Cohort Profile: Growing Up in New Zealand

Susan M B Morton, ^{1,2}* Polly E Atatoa Carr,^{1,2} Cameron C Grant,^{1,2,3,4} Elizabeth M Robinson,^{2,5} Dinusha K Bandara,² Amy Bird,² Vivienne C Ivory,^{2,6} Te Kani R Kingi,^{2,7} Renee Liang,² Emma J Marks,^{2,8} Lana M Perese,^{2,9} Elizabeth R Peterson,^{2,10} Jan E Pryor,^{2,11} Elaine Reese,^{2,12} Johanna M Schmidt,² Karen E Waldie^{2,10} and Clare Wall^{1,2,13}

Growing Up in New Zealand cohort alignment with all New Zealand births

Susan M.B. Morton,¹² Jacqueline Ramke, ² Jennifer Kinloch,¹³ Cameron C. Grant,^{13AS} Polly Atatoa Carr,¹² Heidi Leeson,² Arier Chi Lun Lee,¹³ Bizabeth Robinson²

- Recruited during pregnancy
- 3 DHB regions (Auckland, Counties-Manukau, Waikato)
- Due date between 25 April 2009 and 25 March 2010
- 6822 Mothers and 4401 Partners

Evaluation & the Health Professions

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• 6853 Children, more than 90% retention to two years





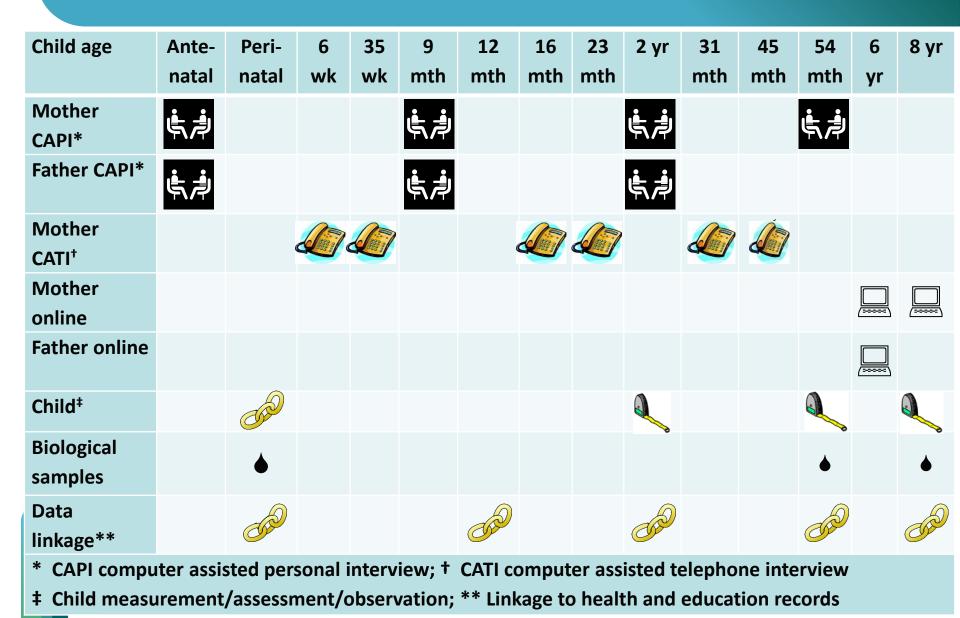
Growing Up in New Zealand

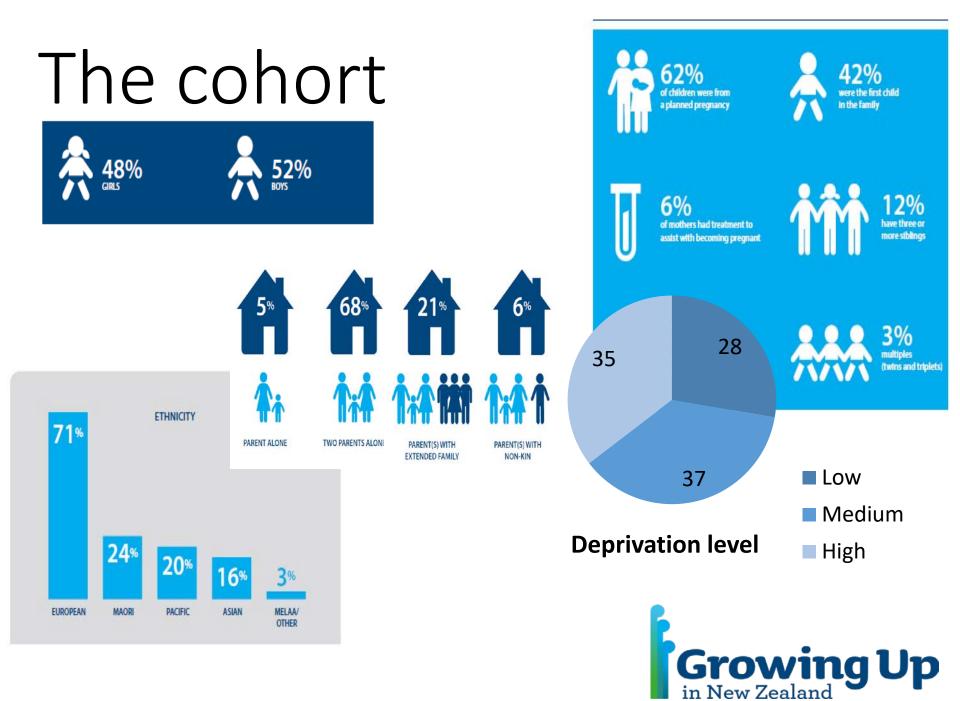
To date, the study has:

- Carried out more than 90,000 interviews
- Collected more than 50 million pieces of data
- Gathered more information about the crucial first
 1000 days of life than any other contemporary study
- Completed 15 Data Collection Waves
- Deployed the services of more than 130 interviewers over the study's life
 - Published more than 90 manuscripts and reports



Longitudinal Information collected to date





What makes us who we are?



What makes us special?

Your Growing Up in New Zealand 'Who are today's dads?'

SAVE THE DATE

online questionnaire starts on Monday, 30 November 2015.

If we have your email address we will send you a link to the online questionnaire on this day (please check your spam and other folders). If you don't have email, don't worry – one of our interviewers will give you a call instead.

"Who are Today's Dads?"

Fathers of the Growing Up in New Zealand cohort children

Lisa Underwood and Marjolein Verbiest

With Polly Atatoa Carr, Sarah Berry Cameron Grant, Jatender Mohal, Te Kani Kingi, Jan Nicholson, Jan Pryor, Nikolas Rusten and Susan Morton

www.growingup.co.nz/todays-dads





Dads' Engagement & Parenting Practices

- 82% feel they are a very good or better than average parent
- 58% of dads would like to be more involved in their child's life
- 89% of dads who would like to be more involved said that work commitments prevented this from happening
- Lower levels of actual involvement were associated with desire to be more involved
- Higher levels of actual involvement were associated with:
 - Living with the child all the time
 - Higher levels of confidence as a parent
 - Higher levels of support



JAMA Psychiatry | Original Investigation

Paternal Depression Symptoms During Pregnancy and After Childbirth Among Participants in the Growing Up in New Zealand Study

Lisa Underwood, PhD; Karen E. Waldie, PhD; Elizabeth Peterson, PhD; Stephanie D'Souza, MSc; Marjolein Verbiest, PhD; Frances McDaid, BHSc; Susan Morton, FNZCPHM

IMPORTANCE Antenatal and postnatal depression are known to be common and associated with poor outcomes for women and their children. There is little evidence on depression symptoms among men during the perinatal period.

OBJECTIVE To identify characteristics associated with depression symptoms among men whose partners were pregnant and subsequently gave birth.

DESIGN, SETTING, AND PARTICIPANTS A longitudinal cohort study provided data from a demographically diverse sample of 3523 New Zealand men who completed interviews during their partner's pregnancy and 9 months after the birth of their child. Participants were drawn from a cohort whose partners were pregnant women with a due date between April 25, 2009, and March 25, 2010, who were enrolled in the Growing Up in New Zealand study. Data analysis was conducted from September 1, 2015, to January 8, 2016.

MAIN OUTCOMES AND MEASURES Depression symptoms were measured using the Edinburgh Postnatal Depression Scale and the 9-item Patient Health Questionnaire; elevated depression symptoms were defined as scores higher than 12 and 9, respectively.



NEW ZEALAND

NZ study: Dads get the baby blues, too

16 Feb, 2017 5:00am

③ 4 minutes to read



New research has shown how Kiwi dads are also prone to pre- and post-natal depression. Photo / 123RF



By: Jamie Morton Science Reporter, NZ Herald jamie.morton@nzherald.co.nz @Jamienzherald



Pre- and post-natal depression has been studied exhaustively in mothers but a new study of 3500 Kiwi men has revealed how dads are also affected by the baby blues.

Using participants from the longtitudinal Growing Up In New Zealand study, University of Auckland researchers discovered that 2.3 per cent of fathers experienced depression during their partners' pregnancy and the figure climbed to 4.3 per cent nine months after their child was born.

Mentioned by

147 news outlets
6 blogs
91 tweeters
11 Facebook pages
2 Google+ users
1 Redditor

msn Dads

Dads Can Suffer From Pre- and Postpartum Depression Too

Can Dads Get Postpartum Depression Too?

Depression Hits New Dads Too



Turns Out New Dads Can Get Postnatal Depression Too - VICE



Depression: New dads risk pre- and postpartum problems, study says



Journal of Affective Disorders

Volume 186, 1 November 2015, Pages 66-73



Research report

Depression symptoms during pregnancy: Evidence from Growing Up in New Zealand

Karen E. Waldie ^a A
B, Elizabeth R. Peterson ^a, Stephanie D'Souza ^{a, b}, Lisa Underwood ^b, Jan E. Pryor ^c, Polly Atatoa Carr ^b, Cameron Grant ^{b, d}, Susan M.B. Morton ^{b, d}

Maternal and Child Health Journal

MATERNAL --- CHILD HEALTH JOURNAL April 2017, Volume 21, Issue 4, pp 915–931 | Cite as

A Longitudinal Study of Pre-pregnancy and Pregnancy Risk Factors Associated with Antenatal and Postnatal Symptoms of Depression: Evidence from Growing Up in New Zealand

 New Zealand

 Authors

 Authors

 Lisa Underwood 🖓 , Karen E. Waldie, Stephanie D'Souza, Elizabeth R. Peterson, Susan M. B. Morton

Article First Online: 11 November 2016



Antenatal Depression Symptoms in Pacific Women

- High rates of antenatal depression symptoms among Pacific women in the Growing Up in New Zealand cohort
 - 2 x rate among European women
- No existing literature on antenatal depression in Pacific women and associated factors
 - Huge gap in the literature
- 727 women who self-prioritised their ethnic identity as Pacific Islander

Findings

** *p*=<.01

Variable	Other (<i>N</i> = 1762)	Pacific (<i>N</i> = 727)	European (<i>N</i> = 3168)	Pearson X²	P value			
Pre-pregnancy depression (<i>N</i> =5653) Yes No	225 (12.8) 1536 (87.2)	50 (6.9) 674 (93.1)	709 (22.4) 2459 (77.6)	136.287	.000			
Depression in pregnancy (<i>N</i> = 5653) Yes No	· · · ·	25 (3.5) 699 (96.5)	180 (5.7) 2988 (94.3)	9.171	.010			
EPDS depression (<i>N</i> = 5657) Yes No	250 (14.2) 1512 (85.8)	171 (23.5) 556 (76.5)	250 (7.9) 2918 (92.1)	151.428	.000			
Variable Family Doctor/GP before pregnancy Yes No	B (S - 1.099 (.		95% CI - 1.317 – 6.83	Wald - 4 6.841**	I			
1 in 3 pregnant Pacific women < 25 have antenatal depression								
Variable	Other	Pacif	ic Europe	ean Pears				
				X ²	on			



IPV during pregnancy: a socio-ecological, crosscultural examination of risk and protective factors for New Zealand women

Questions used to assess level of relationship conflict:

- Three verbal ('raise your voices when arguing', 'yell at each other when angry' and 'swear at each other when angry')
- Three physical ('push and shove each other when arguing', 'throw things at each other when arguing' and 'break things when arguing')

14% (815) reported pushing or shoving, or breaking or throwing objects during relationship conflict within the previous month

- 6% of European women reported physical conflict
- 22% of Māori women
- 20% of Asian women
- 33% of Pacific women

Intimate partner conflict

European factors	Maori factors	Pacific factors	Asian factors
Identification with		Migrant to NZ	
traditional culture			
Racial discrimination			
Lower family cohesion	Household	Lower family	
	structure	cohesion	
Lower personal	Lower personal	Lower personal	Lower relationship
commitment	commitment	commitment	commitment
	Higher structural	Higher structural	Higher structural
	commitment	commitment	commitment
Poor-fair maternal		Continuing to smoke	
health			
Higher perceived stress	Higher perceived	Higher perceived	Higher perceived
Family stress	stress	stress	stress

Factors uniquely associated with IPV during pregnancy for European, Maori, Pacific and Asian women





- What factors during pregnancy are associated with IPV exposure in pregnant Pacific women?
- Does IPV exposure in Pacific women during pregnancy have an effect on parenting at 9 months post-partum? If so, what parenting behaviours are affected and how?

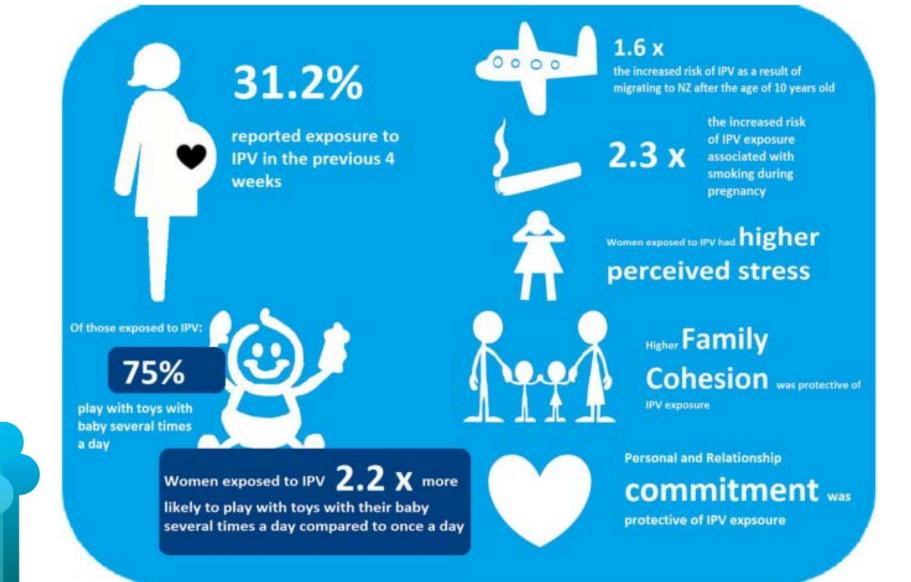


Exposure to IPV during pregnancy & effects on parenting at 9 months | Findings from *Growing Up in New Zealand*

- Previous Growing Up in New Zealand findings identified highest rate of IPV in Pacific women during pregnancy
- No existing literature looking at IPV in Pacific women and effect on parenting
- Used data from a cohort of 580 Pacific women who completed antenatal and 9 month interviews
- IPV = reported any physical conflict in the previous 4 weeks



Findings



8/9 year data collection wave

Focus of the 8/9 year DCW

- Child-centred
- Areas of interest:
 - Aspects of the children's lives that may have been affected by their past environment, experiences and circumstances
 - How the children are doing at 8 years
 - Aspects of the children's lives that may affect their future development and later childhood or even adult outcomes
 - A chance to hear the children's voices

8/9 year data collection wave

How are data collected?

- Precise measurement >>> open questions
- All children (where possible) are asked to complete the same questionnaires and tasks
- Experts, researchers and the Growing Up team spent two years selecting the best tools
 - Designed and developed scientifically
 - Good psychometric properties
 - Widely / internationally recognised
 - Easy / quick to use

8/9 year data collection wave

What are we measuring?

- Children's perceptions, views and experiences (Questionnaires)
- Development (Direct measurement)
 - Growth (anthropometry height, weight, etc.)
 - Psychosocial (cognition NIH Toolbox; social sticker game)
 - Language (te reo tool)
- Relationships (Direct measurement)
 - Parent-child interaction
 - Day-to-day life and activities (Direct measurement)
 - Accelerometers and Time Use Diary

Acknowledgements

Participants and their families

Assoc. Prof. Susan Morton

Growing Up in New Zealand team

University of Auckland and UniServices

Ministry of Social Development & Families Commission

Executive Board

Policy Forum members: Ministry of Health, Ministry of Education, Ministry of Justice, Dept of Labour, Ministry of Pacific Island Affairs, Te Puni Kokiri, Office of Ethnic Affairs, Statistics NZ, Children's Commission and others

Advisory and Stakeholder groups: Executive Scientific Advisory Group, Data Access Committee, Named Investigators and Collaborators, Kaitiaki Group













