SLEP ON SIDE WHEN BABY'S INSIDE FROM 28 WEEKS OF PREGNANCY

www.sleeponside.org.nz

Lesley McCowan, Campaign Lead

Isis McKay, consumer representative



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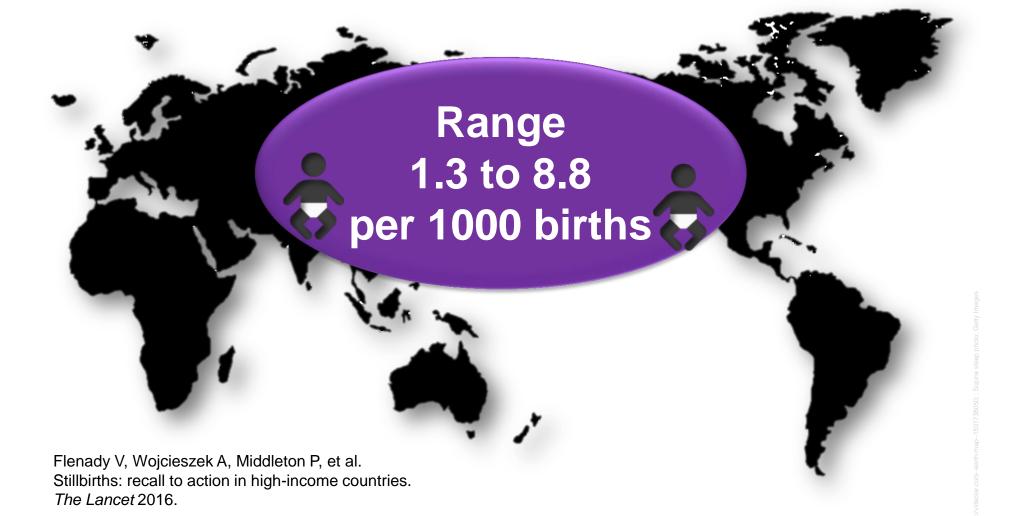






LATE STILLBIRTH RATE

>28 weeks of gestation High Income Western Countries

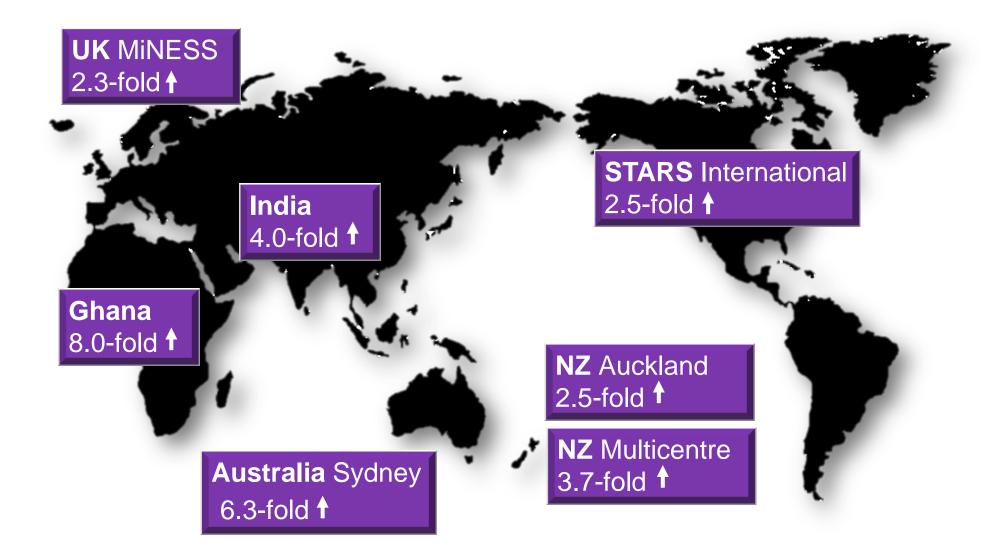


WHAT ARE THE NZ DATA?

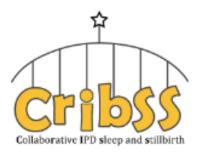


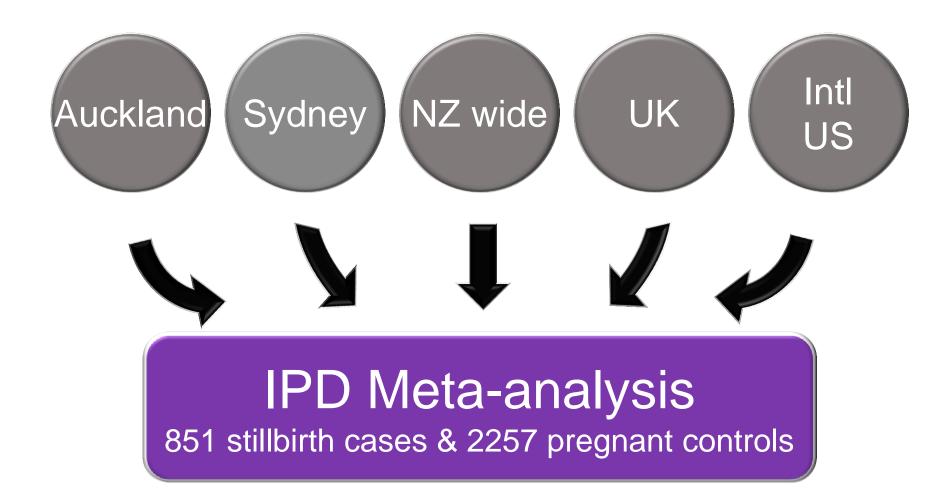
- Late stillbirth (≥28 weeks') occurring in singleton nonanomalous pregnancies affects approximately one in every 500 women, resulting in deaths of approximately 160 New Zealand babies annually.
- Identification of modifiable risk factors has the potential to reduce this tragic pregnancy complication

ASSOCIATION BETWEEN SUPINE GOING TO SLEEP POSITION & LATE STILLBIRTH

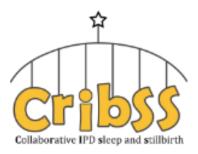


INDIVIDUAL PARTICIPANT DATA META-ANALYSIS





SLEEP POSITION RESULTS IN IPD



| | Case N=851 | Control N=2257 | OR (95% CI) | Cases N=826 Controls N=1953 aOR (95%) |
|--------------------|--------------------|-------------------|---------------------|---|
| Going-to-sleep pos | ition last 2 weeks | | | |
| Left side | 359 (42.19) | 1074 (47.59) | 1 | 1 |
| Васк | 67 (7.87) | 73 (3.23) | 2.89 (2.01 to 4.14) | 2.63 (1.72 to 4.04) |
| Right side | 221 (25.97) | 624 (27.65) | 1.1 (0.9 to 1.34) | 1.04 (0.83 to 1.31) |
| Tummy | 3 (0.35) | 8 (0.35) | 1.15 (0.3 to 4.45) | 0.63 (0.12 to 3.25) |
| Variable side | 102 (11.99) | 265 (11.74) | 0.92 (0.69 to 1.23) | 0.97 (0.7 to 1.35) |
| Propped up | 20 (2.35) | 46 (2.04) | 1.28 (0.74 to 2.23) | 1.3 (0.68 to 2.49) |
| No recall | 79 (9.28) | 167 (7.40) | 1.4 (1.03 to 1.91) | 2.26 (1.48 to 3.46) |

CribSS Collaborative Individual Participant Data Sleep & Stillbirth Research Group







DOES FETAL BEHAVIOUR & ACTIVITY VARY WITH MATERNAL POSITION?

30 healthy pregnant women in late pregnancy

- Fetal behaviour assessed on back, left and right side:
- Scorers unaware of maternal position
- High fetal activity (4F) very rare when mother on back

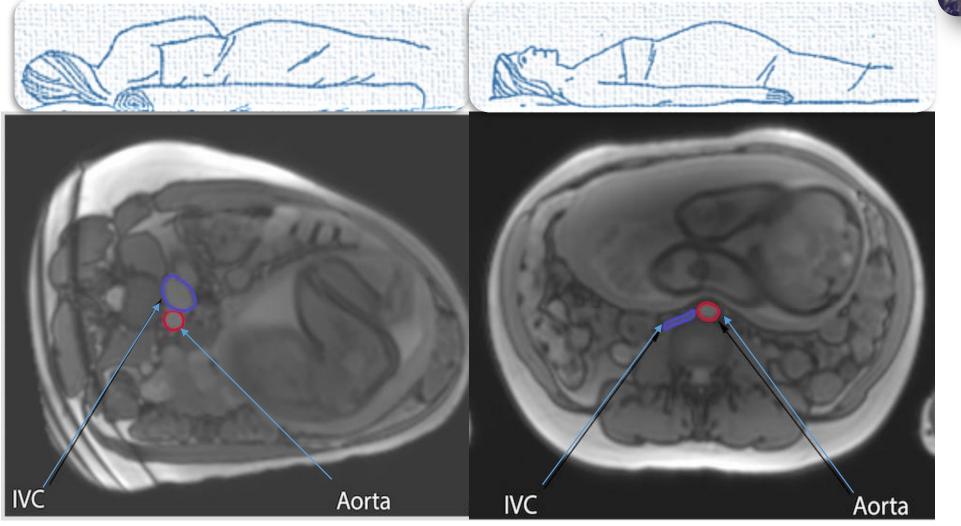
 Suggests lying on back is associated with lower oxygen behaviour in baby even in healthy pregnancy

> Stone et al The Journal of physiology. 2017 Feb 15;595(4):1213-21. J Physiol. 2017 Oct 11. doi: 10.1113/JP275084. [Epub ahead of print]



4F MM WM

THE EFFECT OF POSITION: PREGNANCY MRI Humphries A, Stone P, et J Mat Fetal Med May 2018;



Left side IVC patent

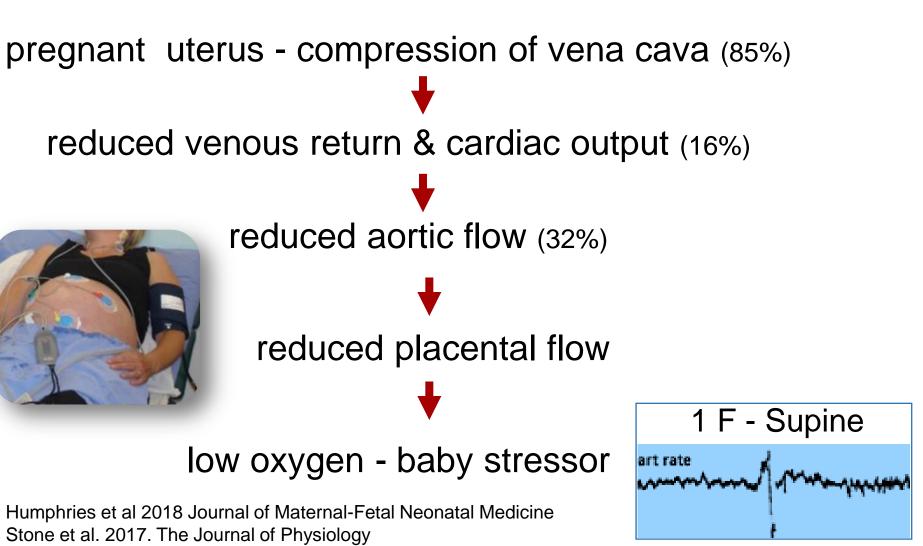
On back IVC compressed



SUPINE POSITION IN LATE PREGNANCY-

effect on blood flow and fetus





GOING-TO-SLEEP POSITION IS MODIFIABLE

NZ women have changed going-to-sleep position

- TASS 2006-9 left side 43%
- MCSS 2011-15 left side 58%

Survey of 377 women living in South Auckland:

85% reported could change position if better for baby

We now know can recommend sleep on either side

RESEARCH ARTICLE

Open Access

(E) CrossMark

Survey of maternal sleep practices in late pregnancy in a multi-ethnic sample in South Auckland, New Zealand

Robin S. Cronin^{1*}, Carol Chelimo², Edwin A. Mitchell², Kara Okesene-Gafa¹, John M. D. Thompson¹, Rennae S. Taylor¹, B. Lynne Hutchison² and Lesley M. E. McCowan¹ BMC pregnancy childbirth 2017 17:190

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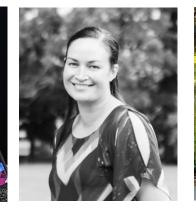


THE STAKEHOLDERS











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Alison Eddy NZCOM Tania Cornwall Sands NZ Bronwen Pelvin Ministry of Health Lisa Paraku PMMRC & Consumer Megan Tahere Nga Maia Nga Marsters Pasifika Midwives













Karen Falloon RNZCGP Karen Hoare Nurse Practitioners Catherine Jackson Public Health Waitemata DHB lsis McKay Women's Health Action Liz Pearce Parents Centre NZ Helen Pulford Childbirth Educators Liaison

UNIVERSITY OF AUCKLAND & CUREKIDS PROJECT TEAM









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Vicki Culling Vicki Culling Associates Project Manager

Robin Cronin PHD student Midwife researcher



Tim Edmonds CureKids



Saraid Black CureKids

MESSAGES TO SHARE WITH PREGNANT WOMEN

From 28 weeks:

- Settle to sleep on your side to reduce the risk of stillbirth
- Start every sleep on your side including day-time naps
- It does not matter which side
- It is common to wake up on your back- just roll back on to your side
- Suggest discuss with glucose screening at 24 -26 weeks

https://www.sleeponside.org.nz/

Email: info@sleeponside.org.nz to request pamphlets (and soon available through HealthEd)



RESOURCES TO SHARE "SOS WHEN BABY INSIDE"



THEALT

www.sleeponside.org.nz

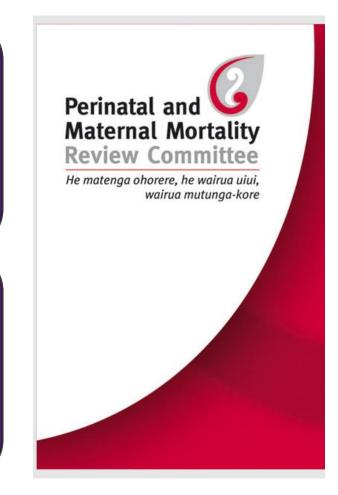
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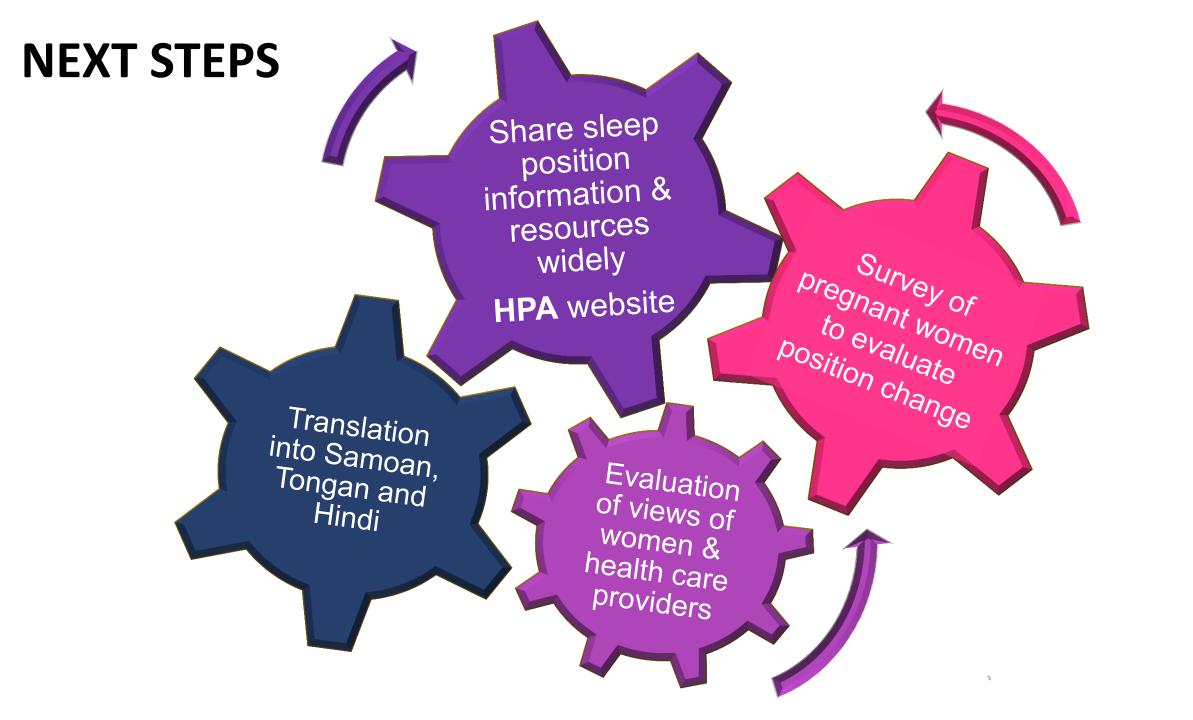
Email: info@sleeponside.org.nz to request pamphlets

LAUNCHED – 26-27 JUNE 2018

PMMRC Annual Conference Tues 26 June

'Soft' Media Launch Wed 27 June







With thanks to

Miriama Kamo- voice over, Claudia Gunn- singing voice

https://vimeo.com/274391432/ffd3412081

HOW MIGHT THE CAMPAIGN REDUCE LATE STILLBIRTH?

- Stillbirth in the last three months of pregnancy affects about one in every 500 babies in New Zealand (approx. 160 babies per year).
- Going to sleep on the side is associated with approximately half the risk of stillbirth compared with going to sleep on the back.
- "Sleep on side" from 28 weeks of pregnancy has the potential to reduce late stillbirth in NZ by approximately 10%



INDIVIDUAL PARTICIPANT DATA (IPD) META-ANALYSIS

