Women's knowledge and perception of fetal movements in late pregnancy

Findings from an Aotearoa New Zealand survey

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Decreased fetal movement (DFM)



DFM is associated with adverse outcomes, and is the reason for presentation in 40-50% of stillbirths

DFM is the leading reason for pregnant women to present acutely

1 in 6 pregnant women present with DFM in Auckland, New Zealand

Consensus-based FM guidelines

All pregnant women should be routinely provided with written and verbal information about fetal movements including what to expect and when to contact care.

- PSANZ-SANDA. Clinical practice guideline for the care of women with decreased fetal movements, V2.3, 2019.
- RCOG. Green-top guideline 57. Reduced fetal movements. 2011. (updated 2017).







Clinical practice guideline for the care of women with decreased fetal movements for women with a singleton pregnancy from 28 weeks' gestation

Endorsed by:

























Aotearoa NZ Fetal Movement Survey Our Questions



Q1) What FM *information* do women receive and what is the source?

Q2) What *concerns* do pregnant women have about FM?

Q3) What are the *characteristics* of maternally perceived FM?

Aotearoa NZ Fetal Movement Survey Online Survey

Aim: NZ-wide recruitment of women with 3rd trimester singleton pregnancies, Dec 21 to Mar 22

Enriched with face-to-face invitation to participate for women from an urban multi-ethnic, socio-economically disadvantaged region, with a high stillbirth rate.



Our FM Survey Results:

Participant Demographics

1640 eligible participants

		Marital status	
	N=1640 (%)	Single	90 (5.5)
Age		Unmarried partner	629 (38.4)
<20	28 (1.7)	Married	921 (56.2)
20–24	138 (8.4)	Urban / rural	
25–29	457 (27.9)	Urban	1117 (68.1)
30–34	658 (40.1)	Semi-rural	303 (18.5)
35–39	300 (18.3)	Rural	220 (14.0)
40+	59 (3.6)	Chosen pregnancy provider	
BMI at booking		Midwife	1519 (92.6)
<24.9	686 (41.8)	Doctor / Obstetrician	121 (7.4)
25-29.9 overweight	446 (27.2)	Parity	
30+ obese	487 (29.7)	Para 0	916 (55.9)
Missing	21 (1.3)	Para 1	414 (25.2)
Ethnicity prioritised		Para 2	194 (11.8)
European	1042 (63.5)	Para 3+	116 (7.1)
South Asian	80 (4.9)	Gestation	
South-East/East Asian	80 (4.9)	28-32 weeks	914 (55.7)
Māori	266 (16.2)	33-36 weeks	490 (2.9)
Pacific	119 (7.3)	37-39.9 weeks	206 (12.6)
Other ethnicity	35 (2.1)	40+ weeks	30 (1.8)
Education highest Antenatal visits			
Primary / secondary	362 (21.1)	Inadequate	89 (5.4)
Non-university trade	259 (15.8)	Intermediate	385 (23.5)
University degree	657 (40.1)	Adequate	668 (40.7)
Post-grad degree	362 (22.1)	Adequate plus	498 (30.4)

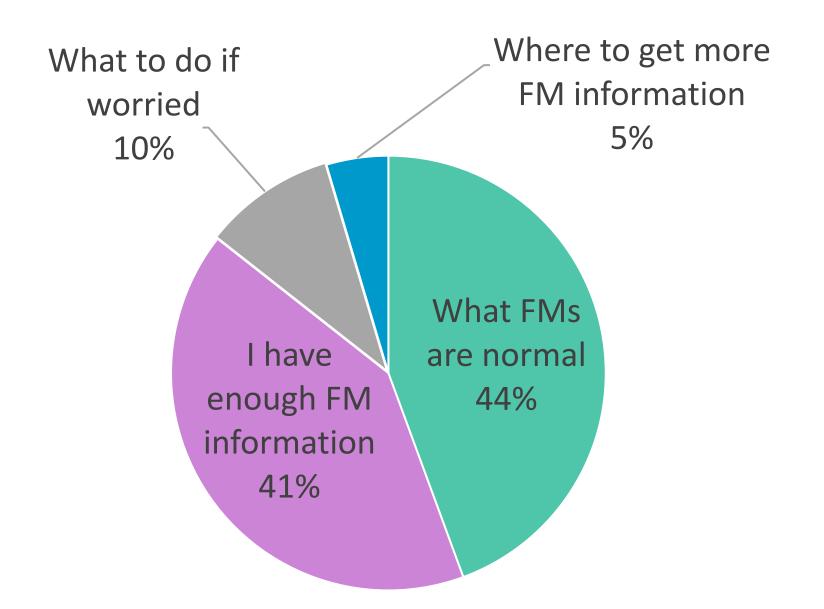
Aotearoa NZ Fetal Movement Survey Our Questions



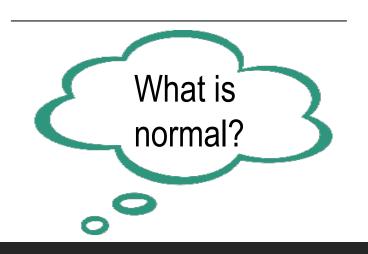
Q1 FM Information No information, 37%

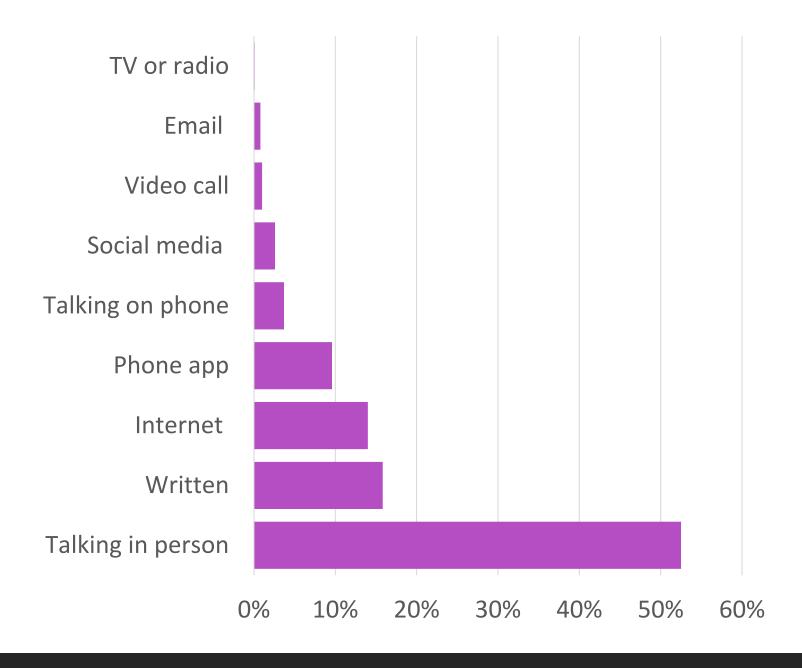
Yes, received information on what FM to expect, 63% 'During this pregnancy, have you been given advice or information about what baby movements to expect?'



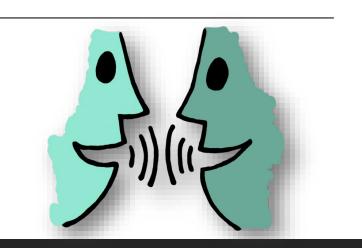


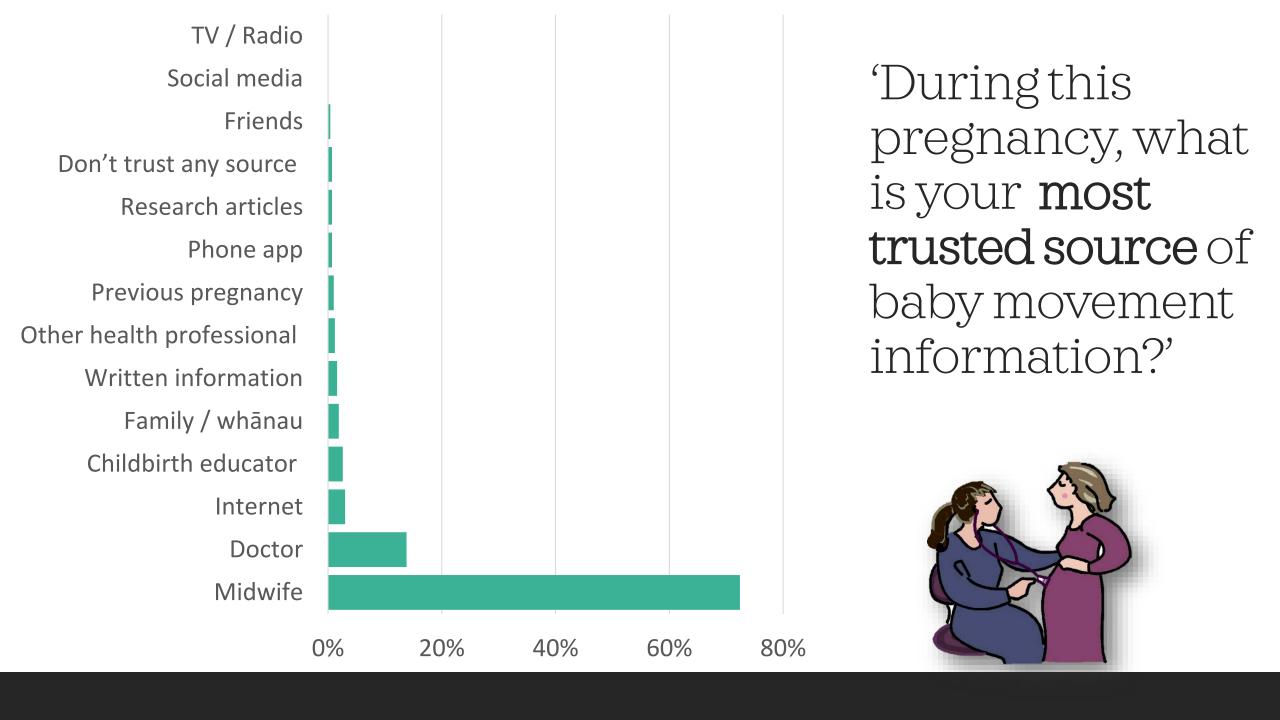
'Would you like to have more baby movement information, and if so, what?'





'If you could choose one way of getting baby movement information, what would this be?'

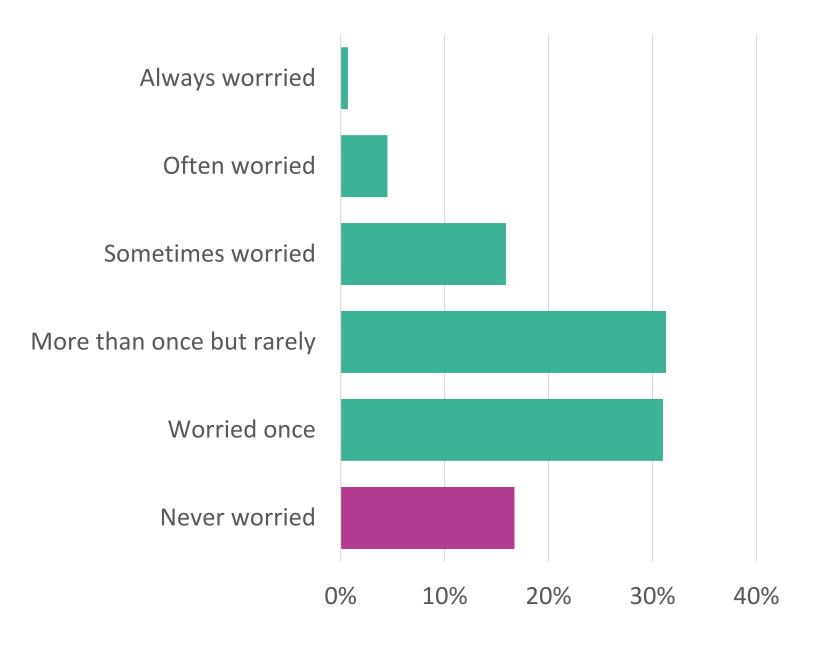




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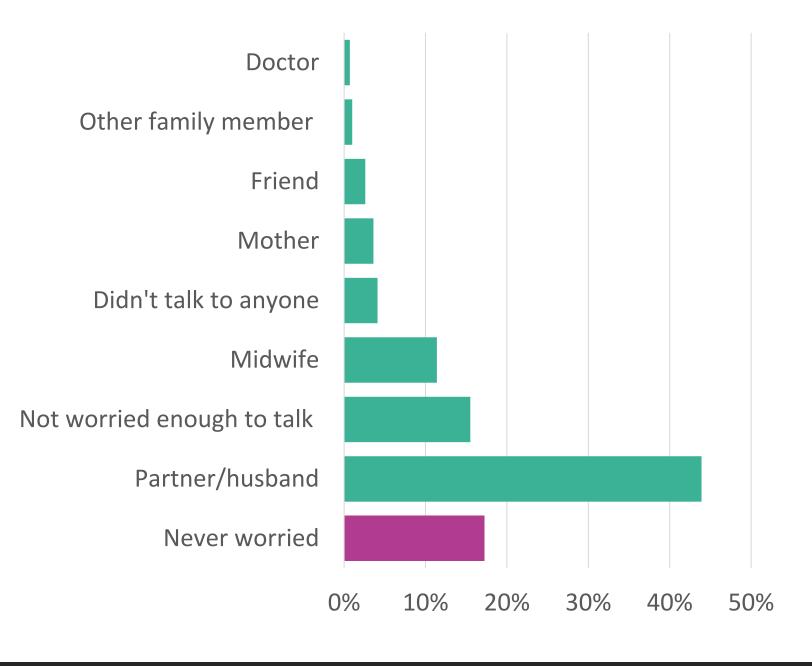


Q2 FM Concerns

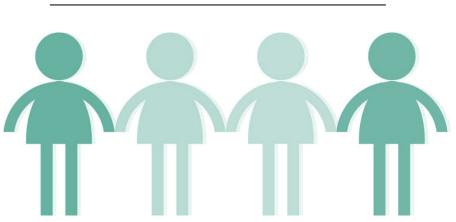


'During this pregnancy, have you ever worried about baby's movements?'





'During this pregnancy, who was the **first person** you talked to when worried about baby's movements?'



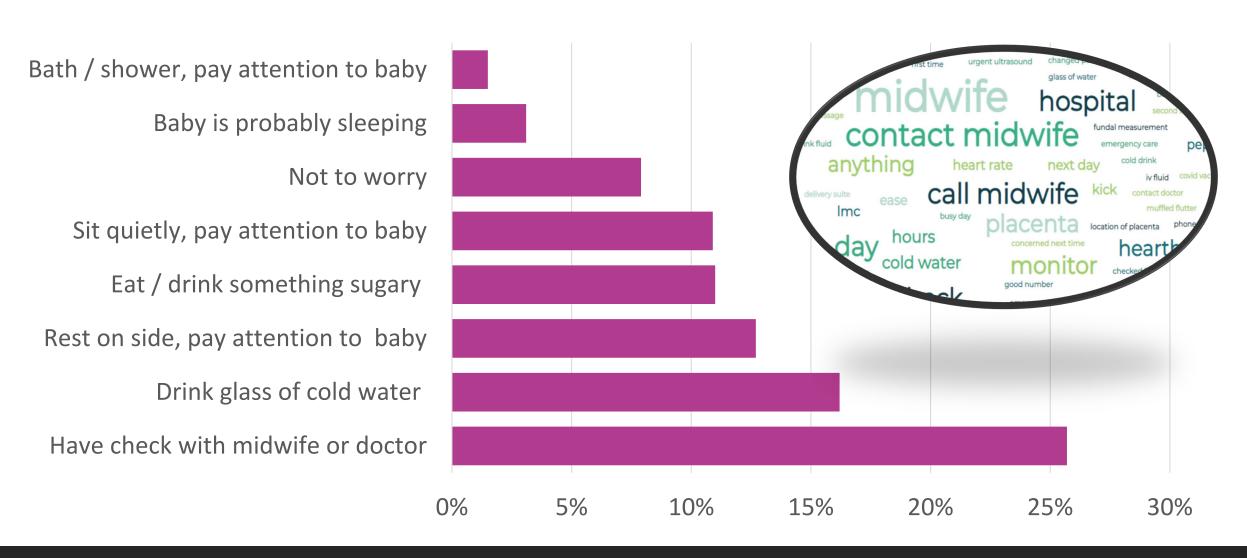
No advice 26%

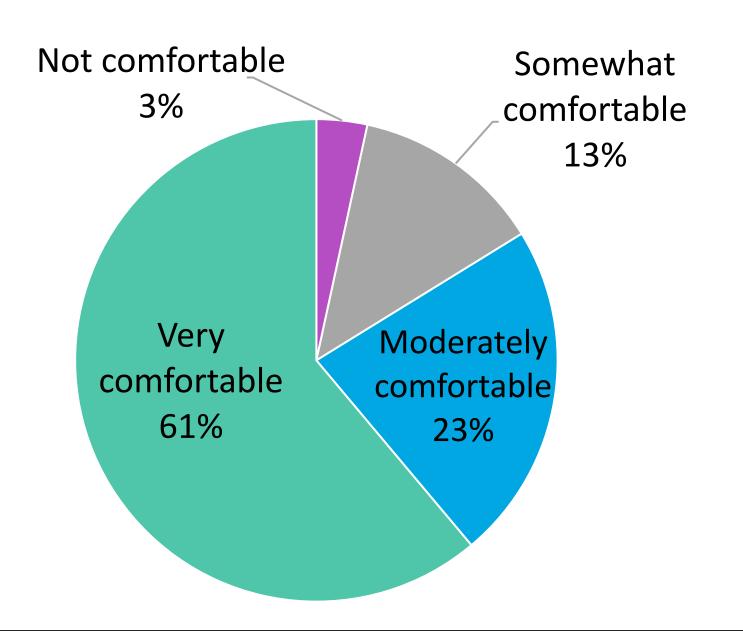
Yes, given advice about what to do 74%

'During this pregnancy, have you been given advice about what to do if ever worried about baby's movements from midwife or doctor?'



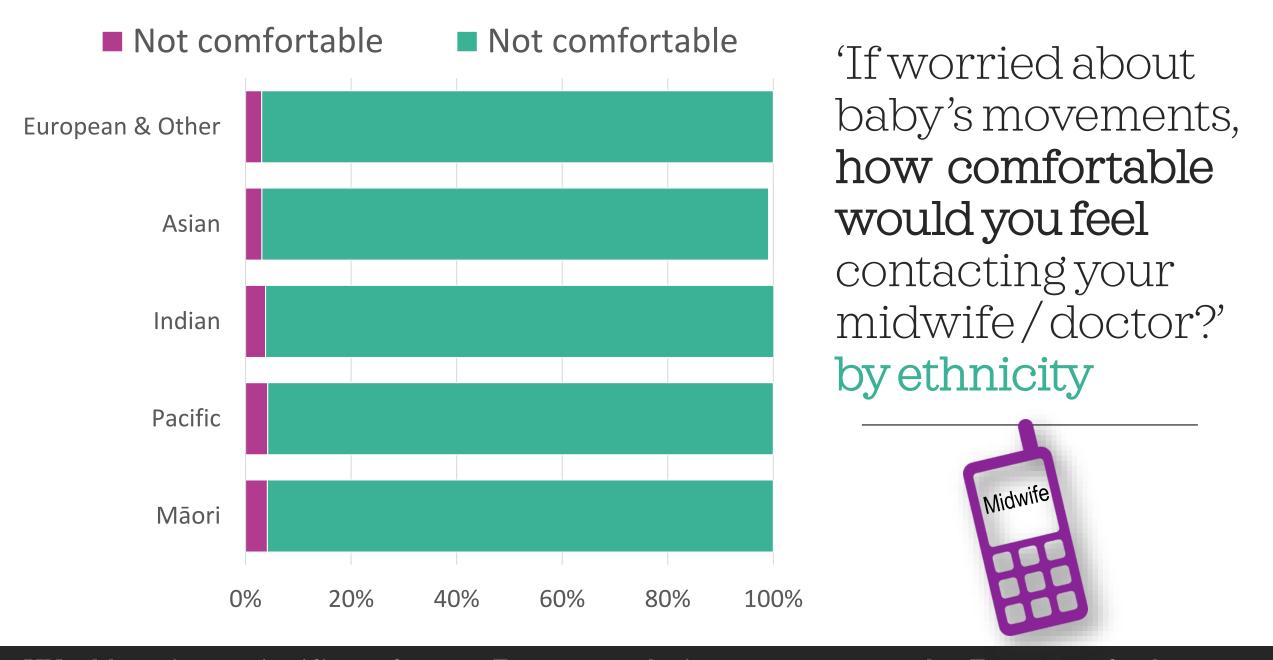
'What were you advised to do by midwife or doctor if worried about baby movements?'





'If worried about baby's movements, how comfortable would you feel contacting your midwife/doctor?'



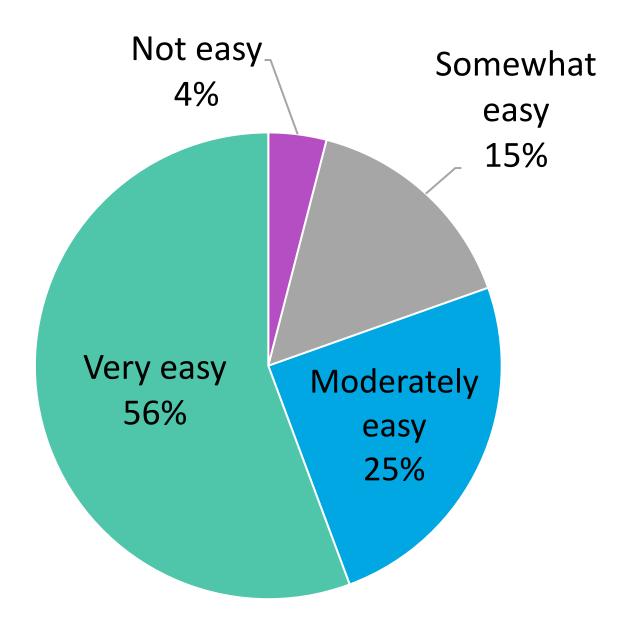


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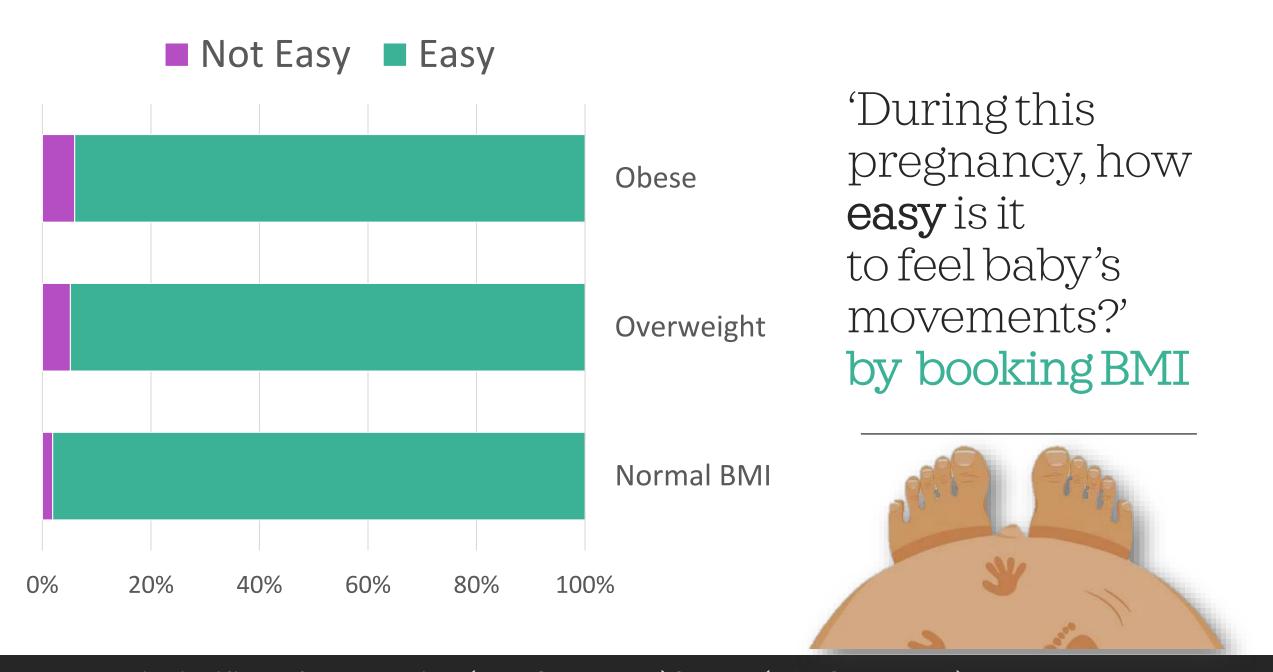
Q3

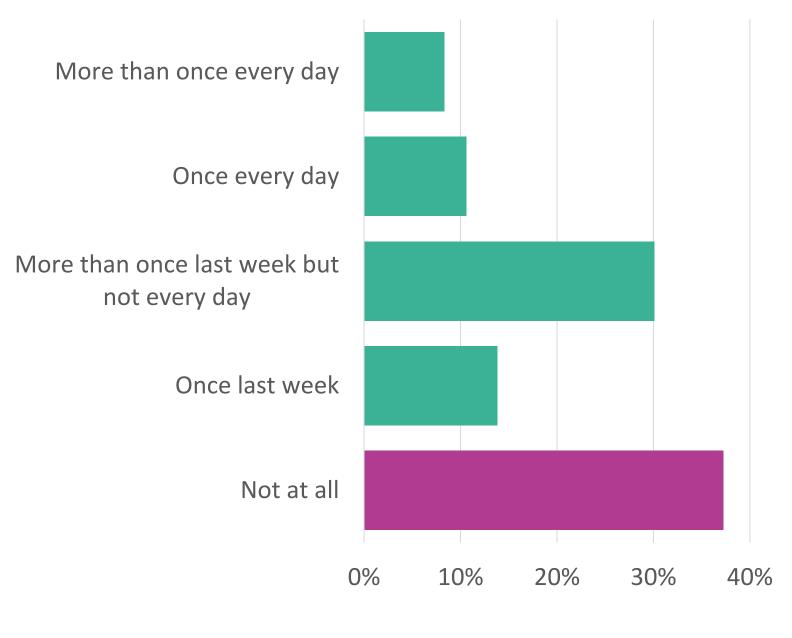
FM Characteristics



'During this pregnancy, how **easy** is it to feel baby's movements?'

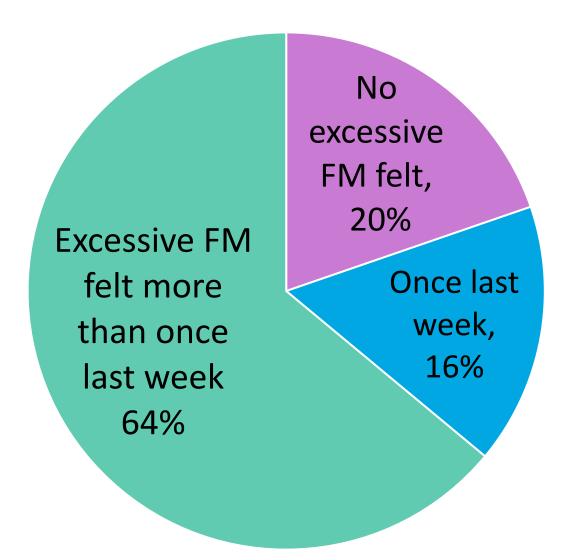






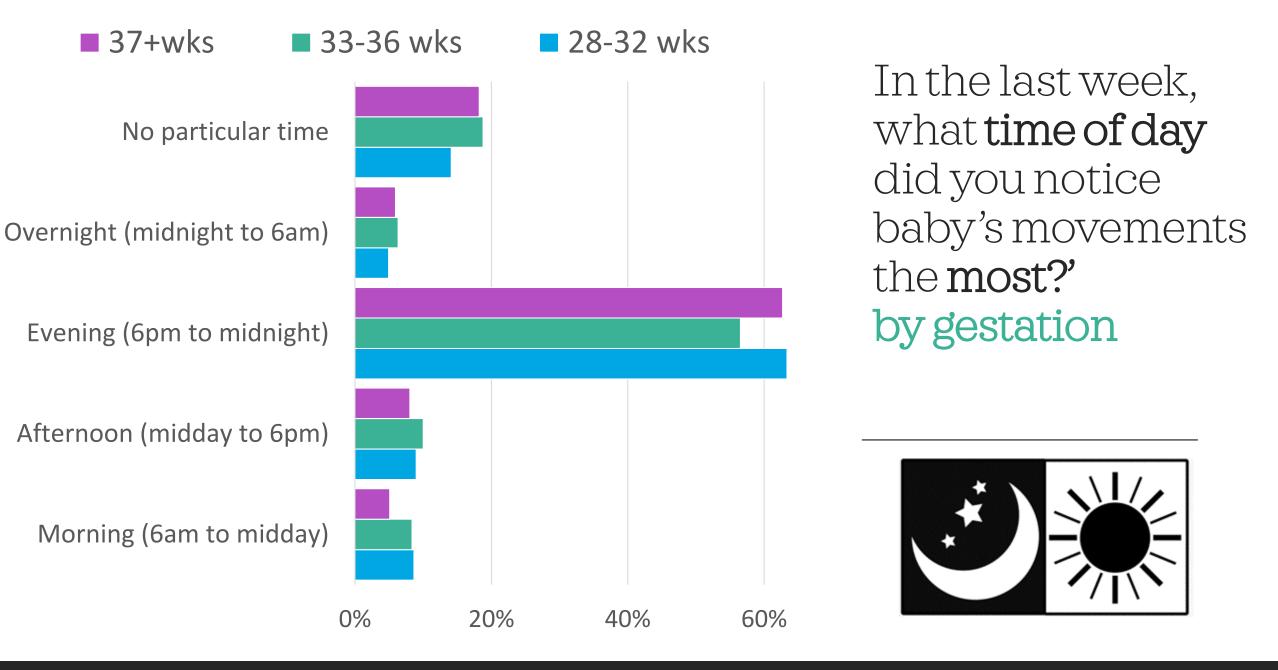
'In the last week, how often did you feel baby have hiccups?'





'In the last week, did you ever feel baby move excessively?'
(wild or crazy feeling movements)





Implications for practice

The majority of pregnant women wished for more FM information, provided face-to-face by their maternity care provider.

Most reported that it was easy to feel FM, FM were most noticeable in the evening, fetal hiccups and 'wild & crazy' FM were common.

Worries about FM were common - women & their partners should be advised: 'don't go to asleep on your concerns, contact your midwife or doctor'

Tena koutou/thank you:

Aotearoa New Zealand fetal movement survey

Are you pregnant and due in the next three months? We would love to hear about your baby's movements.



Our pregnant participants ©

Our fabulous fetal movement survey team:
Associate Professor Chris McKinlay, Dr Nimisha
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Māori Student Midwife Tania Webb, Medical
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Mother Tania Cornwell, Community Midwife
Lorna Bowles, Professor Judith McAra-Couper,
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