

INTRODUCTION

- Why did we do this study?
- Our objectives:
 - Determine Australians' understanding of fertility decline.
 - Understand their pre-requisites for starting a family.
 - Gauge their attitudes towards ovarian reserve screening.





Can we reduce the age of first time mothers?

Could we offer Australian women and couples a screening test for ovarian reserve?

WHAT IS OVARIAN RESERVE SCREENING?

- What is Anti Mullerian Hormone?
- How does it reflect ovarian reserve?





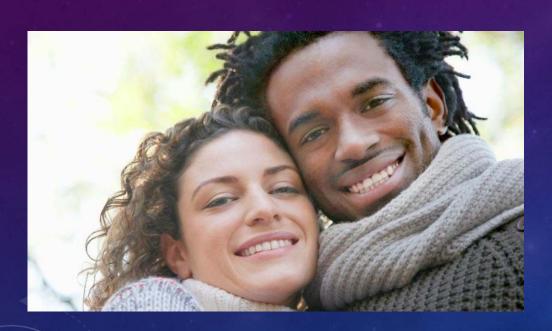
Antral

8-12mm

Pre-ovulatory follicle

4

KATRINA & JAKE- 29YO LAWYER & 30YO ENGINEER



- In a stable relationship
- Want to have 3 children
- Katrina intends to have first child at 31yo



METHODS

- Online survey
- Inclusion criteria 18-45 years, childless



STUDY POPULATION

147 women

Majority 18-24 years 55.1% married or in a stable relationship Recruited voluntarily

200 men

Majority 35-45 years 28% married or in a stable relationship Q&A Market Research Sydney



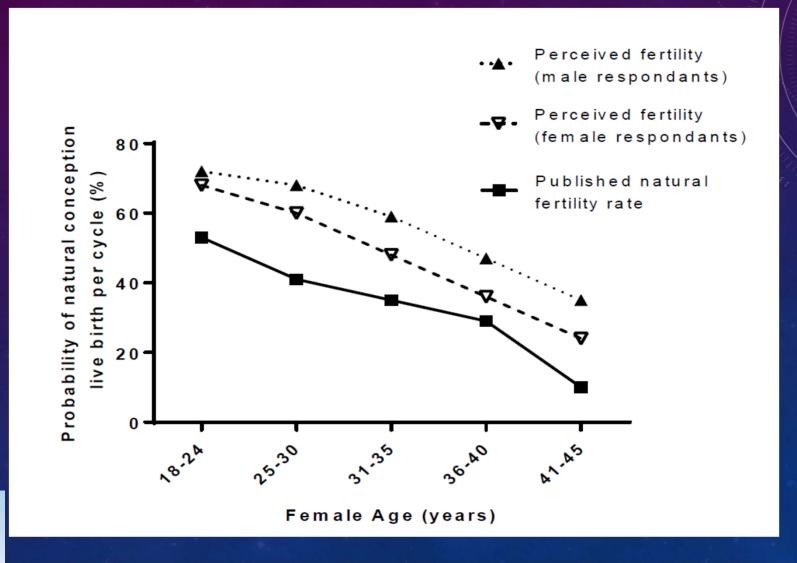
KATRINA & JAKE- 29YO LAWYER & 30YO ENGINEER



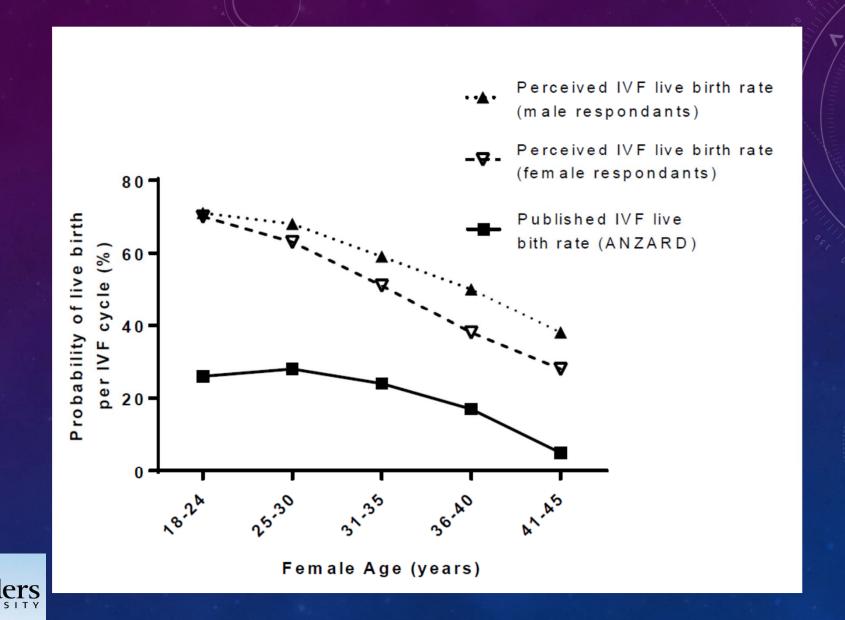
- Main pre-requisites for starting a family are having a stable relationship and reaching career goals.
- Believe that IVF allows them to maintain fertility potential after 40yo.



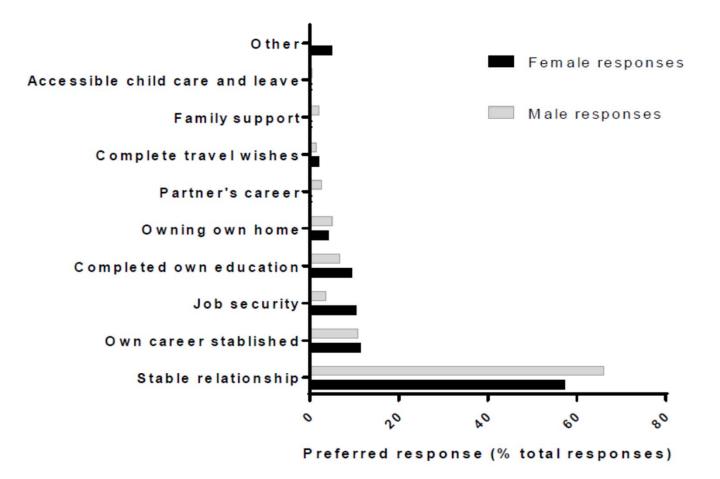
RESULTS







Primary prerequisite for starting a family





KATRINA & JAKE- 29YO LAWYER & 30YO ENGINEER



- Have never heard of ovarian reserve screening
- Would consider having a child now if they found out that they had low ovarian reserve

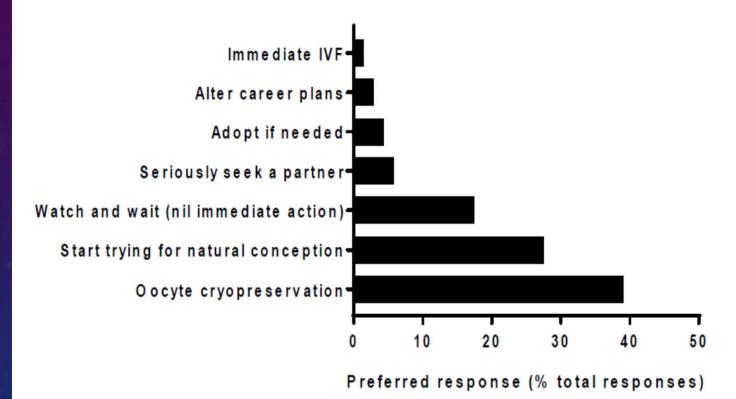


RESULTS

- No men and only 15% of women had knowledge of ovarian reserve screening.
- 74.1% of women would change their family planning based on a poor ovarian reserve result



Prefered response for women faced with a poor ovarian reserve (AMH) test result





KATRINA & JAKE- 29YO LAWYER & 30YO ENGINEER



- Katrina and Jake get an ovarian reserve screening which shows that Katrina has diminished ovarian reserve.
- They decide to try to conceive this year instead of waiting until Katrina finishes her training.



DISCUSSION

40 is the new 30 Unless you want to have children

We live longer, healthier lives these days, so we can falsely believe that good health invariably means good fertility. The truth is, the longer we leave it, the harder it can be to get pregnant. Age is the single most important factor affecting your fertility. As you age, your eggs decrease in quality and number. At 30, you have about a 20% chance of becoming pregnant naturally in any month. After 35 your chances of becoming pregnant start to drop dramatically. At 40, you have a 5% chance. So how do you improve the chances? If your relationship is ready, start the conversation earlier about starting a family. For information visit yourfertility.org.au because fertility is ageist.

our Fertility is funded by the Australian Government Department of Health. Source: Dr Karin Hammarberg Age and fortility: Time for a reality check'. Medical Observer, March 201-







DISCUSSION

Israel



New Zealand

America





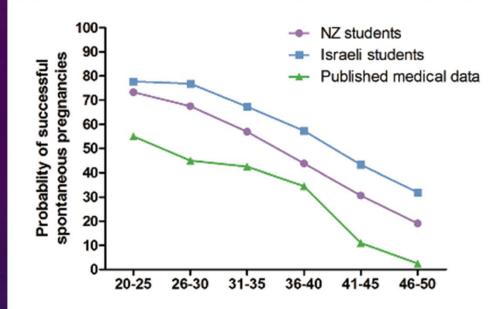
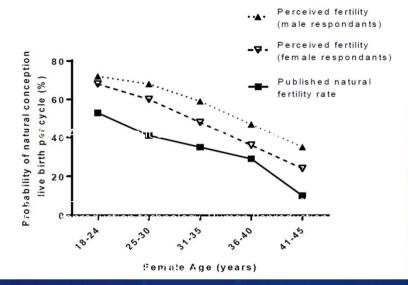


Figure 1. Es Israeli Unive Graph depic

Bavan B, Porzig E, Baland Sterility. 96(5), 12

Hashiloni-Dolev Y, Kap pregnancies in an era

Lucas N, Rosario R, Sh reproductive technological



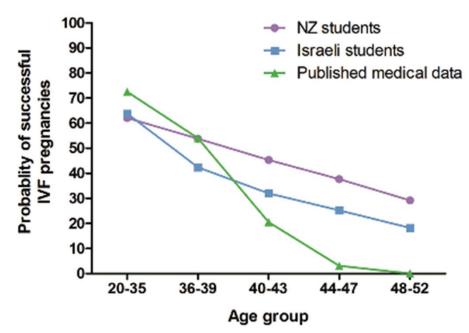


Figure 2. Estimated chance of success with IVF treatment per age group. NZ and Israeli University students compared with published medical data. Graph depicts data from Table IV.

rd screening technologies for ovarian reserve. Fertility

e regarding age-related fertility decline and late 53.

ecline in women via natural pregnancy and assisted

LIMITATIONS OF STUDY

- Small population size
- Different ages of male and female cohort



AFPHM COMPETENCY ELEMENTS & REFLECTION

- 1.1.6 Recognise and work within limits of professional competence
- 1.2.2 Lead and influence effectively
- 1.2.9 Communicate effectively through oral discussions and presentations



WHERE TO FROM NOW?

- Further discussions into efficacy of AMH testing
- Trial of benefits and risks in general practice
- Consideration of ethical challenges involved

CONCLUSION

We aim to have less couples devastated by unwanted age-related fertility.



Clearplue

ACKNOWLEDGEMENTS

This study is currently being considered for publication in the Australian Journal of Primary Health

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- Professor Sheryl de Lacey
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- SHine SA
- Australian Women's Health Network
- Men's Health Australia
- TopBlokes
- Andrology Australia
- Q&A Market Research Sydney
- Study participants





Table 1: Demographics o survey population

	Demographic	Women n=147	Men n=200
	Age		
	18-24 years	51.0%	26.5%
	25-34	36.1%	31.0%
	35-45	12.9%	42.5%
	Relationship status		1000
	Married	15.0%	13.5%
	In a relationship, unmarried	40.1%	14.5%
	Not partnered	44.9%	72.0%
	Occupation		
	Professionals	33.3%	28.7%
	Students	40.1%	18.0%
	Not employed	0.8%	13.8%
	Highest level of education		San Charles
	Bachelor/ undergraduate degree	55.8%	42.0%
	Postgraduate degree	17.7%	12.5%
	Higher	2.0%	2.5%
	Desire to have children		
	low = 0-3/10	21.2%	25.0%
	medium = 4-7/10	25.0%	46.0%
	high = 8-10/10	53.8%	29.0%

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ARTICLE / multiple sources exist. see all

Anti-mullerian hormone cut-off values for predicting poor ovarian response to exogenous ovarian stimulation in invitro fertilization

Ruma Satwik; Mohinder Kochhar; Shweta M Gupta; Abha Majumdar Journal of Human Reproductive Sciences, 01 January 2012, Vol.5(2), pp.206-212



PEER REVIEWED 3 OPEN ACCESS

TOP

Conclusions: AMH fares better than age and FSH in predicting the overall ovarian response and poor response, though it cannot be the absolute predictor of nonresponder status. A level of 2 pmol/l is discriminatory for poor response.

English

Directory of Open Access Journals (DOAJ)



ARTICLE / multiple sources exist. see all

Occyte cryopreservation for age-related fertility loss

Dondorp, W; De Wert, G; Pennings, G; Shenfield, F; Devroey, P; Tarlatzis, B; Barri, P; Diedrich, K

Human Reproduction, 2012, Vol. 27(5), pp.1231-1237



Non - Medical Reasons >

Human Reproduction, 2012, Vol. 27(5), pp.1231-1237

The recent introduction of oocyte vitrification has significantly advanced the outcome of oocyte cryopreservation, leading to clinical results comparable to those achieved in IVF using fresh oocytes, as reported by experienced centres. This has lead to new debate, both in the professional community and in society at large, about the acceptability of offering this technology to reproductively healthy women who want to cryopreserve their oocytes against the threat of time. Given the many demands calling for simultaneous realization in a relatively short period of their lives, many women who want to have children feel to be under considerable pressure. The option of oocyte cryopreservation may in fact give them more breathing space. In this document, it is concluded that the arguments against allowing this application of the technology are not convincing. The