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Fertility Specialists

How to Interpret IVF Success Rates


Professor Michelle Lane



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Overview of IVF

- Australia/NZ -
 - 40,646 IVF cycles
 - 22,368 FET cycles
 - 76.3% single embryo transfer
- South Australia
 - 2594 IVF cycles
 - 1556 FET cycles




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Span of Fertility Care




- Tracking cycles
- Ovulation induction
- IUI
- IVF
- Lifestyle/education



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ART Treatments



OI <ul style="list-style-type: none"> Ovarian stimulation 	IUI <ul style="list-style-type: none"> Ovarian stimulation Sperm preparation 	IVF <ul style="list-style-type: none"> Ovarian stimulation Sperm preparation IVF Embryo culture SET 	ICSI <ul style="list-style-type: none"> Ovarian stimulation Sperm preparation ICSI Embryo culture SET
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Egg collection.

- Access through vaginal wall
- Ultrasound overview
- Follicles aspirated
- Eggs collected

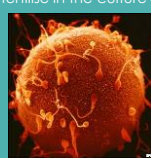



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Insemination.

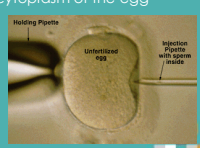
Standard insemination


100,000 motile sperm are added to each egg and left to fertilise in the culture dish

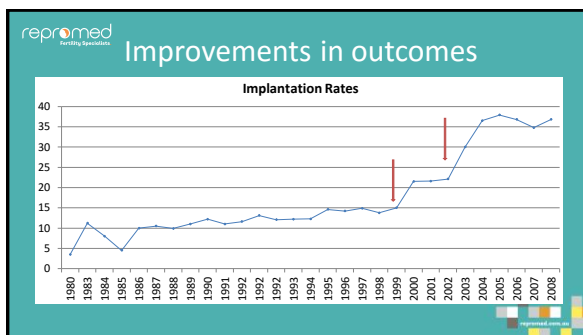
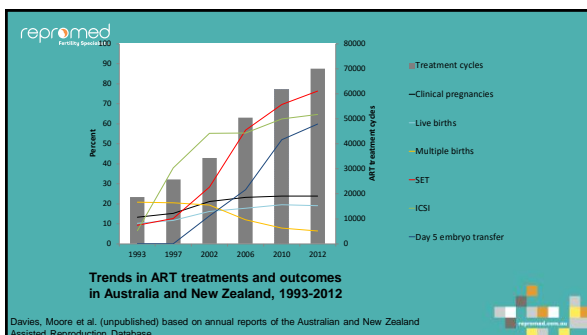
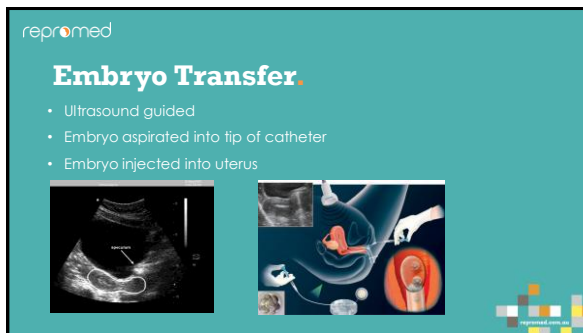


Microinjection (ICSI)

A single sperm is selected and injected directly into the cytoplasm of the egg







reproMed IVF is not IVF -

Assisted reproductive technology in Australia and New Zealand 2012

UNSW

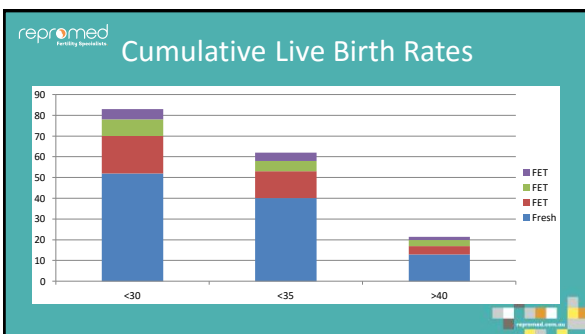
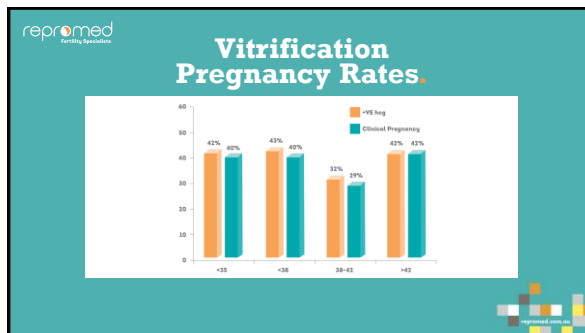
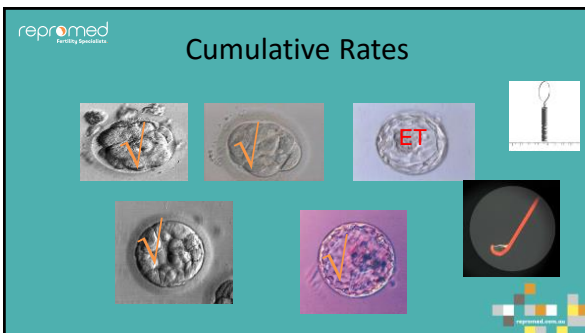
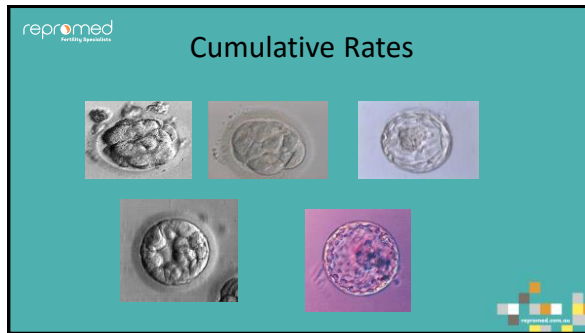
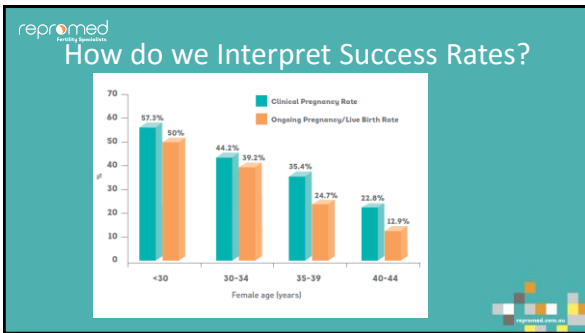
Age group (years) ⁽¹⁾	Live deliveries per initiated autologous fresh cycle (per cent)				
	Overall	First quartile	Second quartile	Third quartile	Fourth quartile
< 35	25.2	29.1-28.5	24.3-29.0	19.9-24.2	5.4-19.8
35-39	17.0	18.6-20.2	15.8-18.5	14.6-15.7	5.0-14.5
≥ 40	5.7	6.1-20.7	5.6-8.0	4.3-5.5	0-4.2
All	16.7	19.7-20.9	17.3-18.6	13.2-17.2	6.9-13.2

(1) Age at start of a treatment cycle.

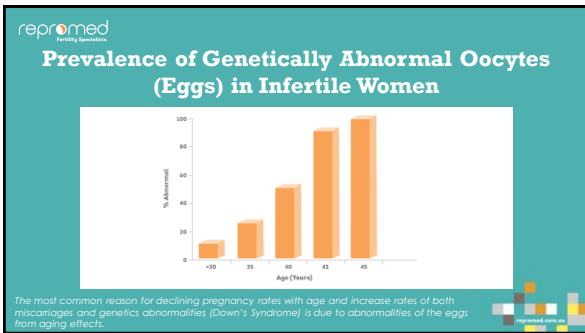
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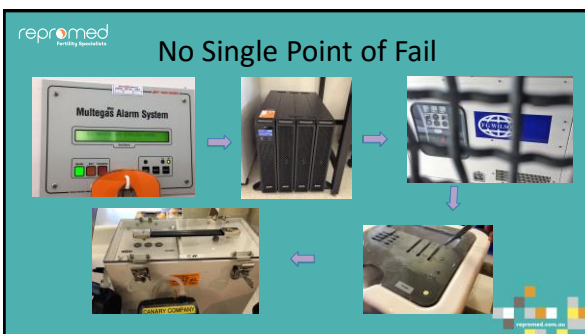
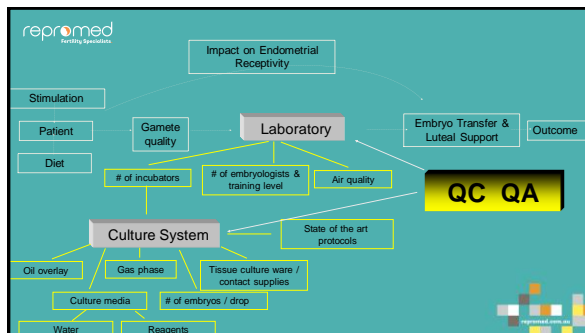
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- ### What affects Outcomes?
- Maternal Age
 - Ovarian reserve



Safety/Quality Assurance



Research and Innovation



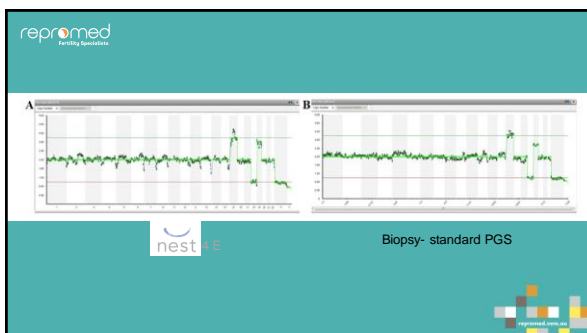
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Does your opinion change if a biopsy is not required?

What if there was a NEST style test for every embryo?

- Non-invasive (media, no biopsy)
- Cell free DNA
- Identify a risk profile

nest4E



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Thank you Questions?