



# Dr Mary Birdsall

Medical Director  
Fertility Associates  
Auckland

Saturday, June 10, 2017

11:00 - 11:15 When Kids Have Cancer

# When kids get cancer: what can be done to look after their fertility?

Dr Mary Birdsall, Fertility Associates



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# How many kids get cancer?

- 1 in 300 kids get cancer between birth and 20

# How many kids survive their cancer?

- 80 to 90%

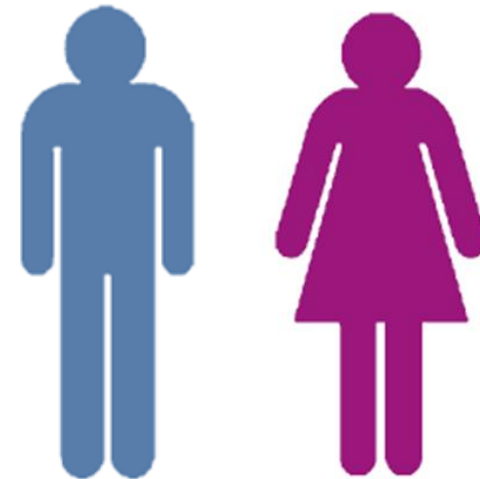
# How many kids have their fertility impaired as a result of their cancer treatment?

- 30% of male childhood cancer survivors will be azospermic
- In female childhood cancer survivors the relative risk of no pregnancy 0.81 compared to female siblings



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# What fertility preservation options for kids with cancer exist?



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# Boys

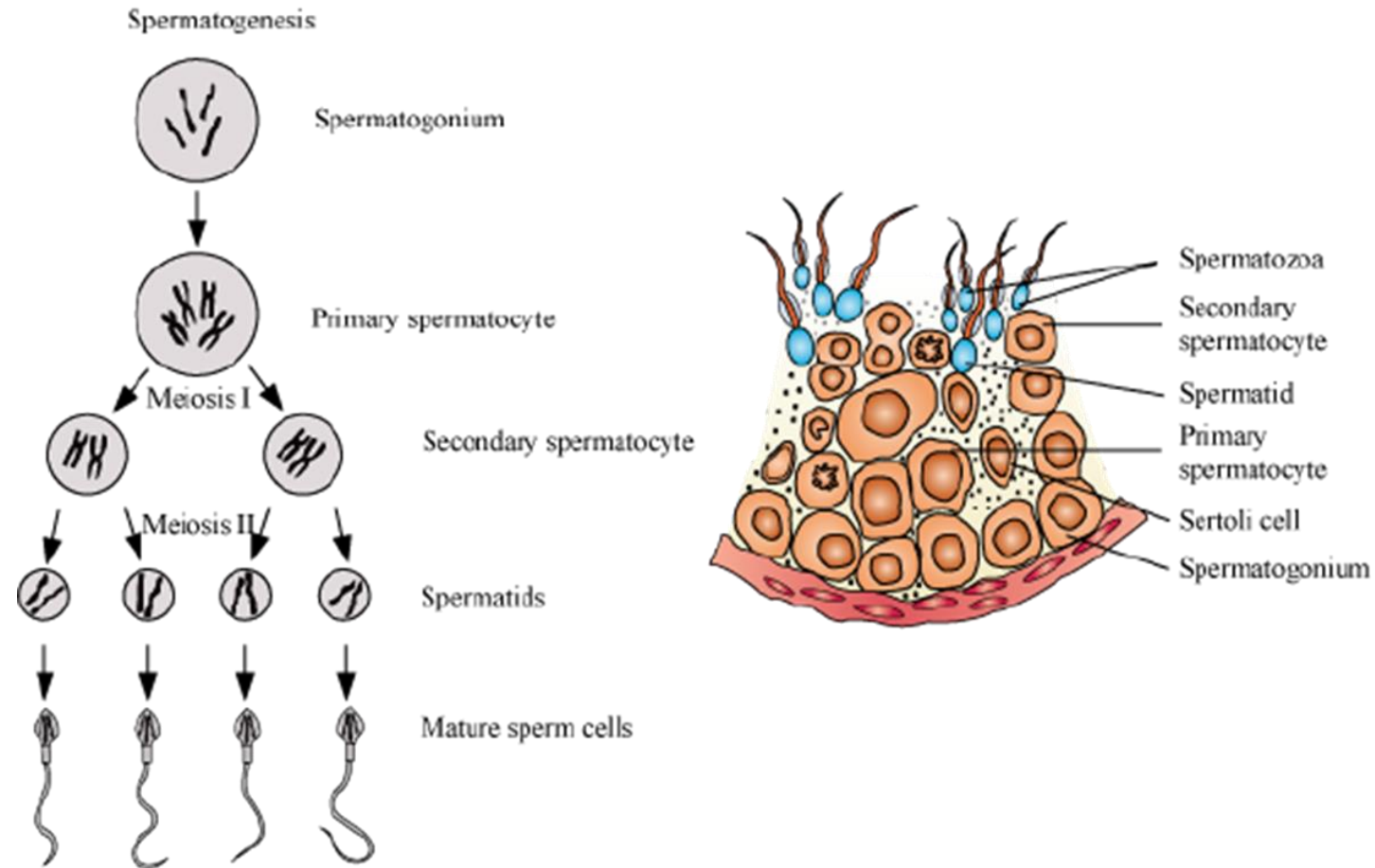


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# Spermatogenesis



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# Prepubertal boys and fertility preservation

- No mature spermatogenesis
- Testicular tissue currently not being frozen in NZ
- No proven method to transform immature germ cells into functional sperm
- Some centres around world are freezing but no success
- In mice: germ cell extraction, cryopreservation and re-injection with recovery of fertility



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# Girls



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# National Guidelines - Paediatric Oncology and Haematology

Search guidelines: eg. 'Renal'

Search All Guidelines

Home : For Health Professionals : National Guidelines - Paediatric Oncology and Haematology

National guidelines for the care of childhood cancer in specialist child cancer and shared care centres.



The National Child Cancer Network has prepared a set of national guidelines for the supportive care and management of children with cancer throughout New Zealand. They provide guidance for shared care centres that manage the complications of childhood cancer and chemotherapy and aim to harmonise treatment across the country.

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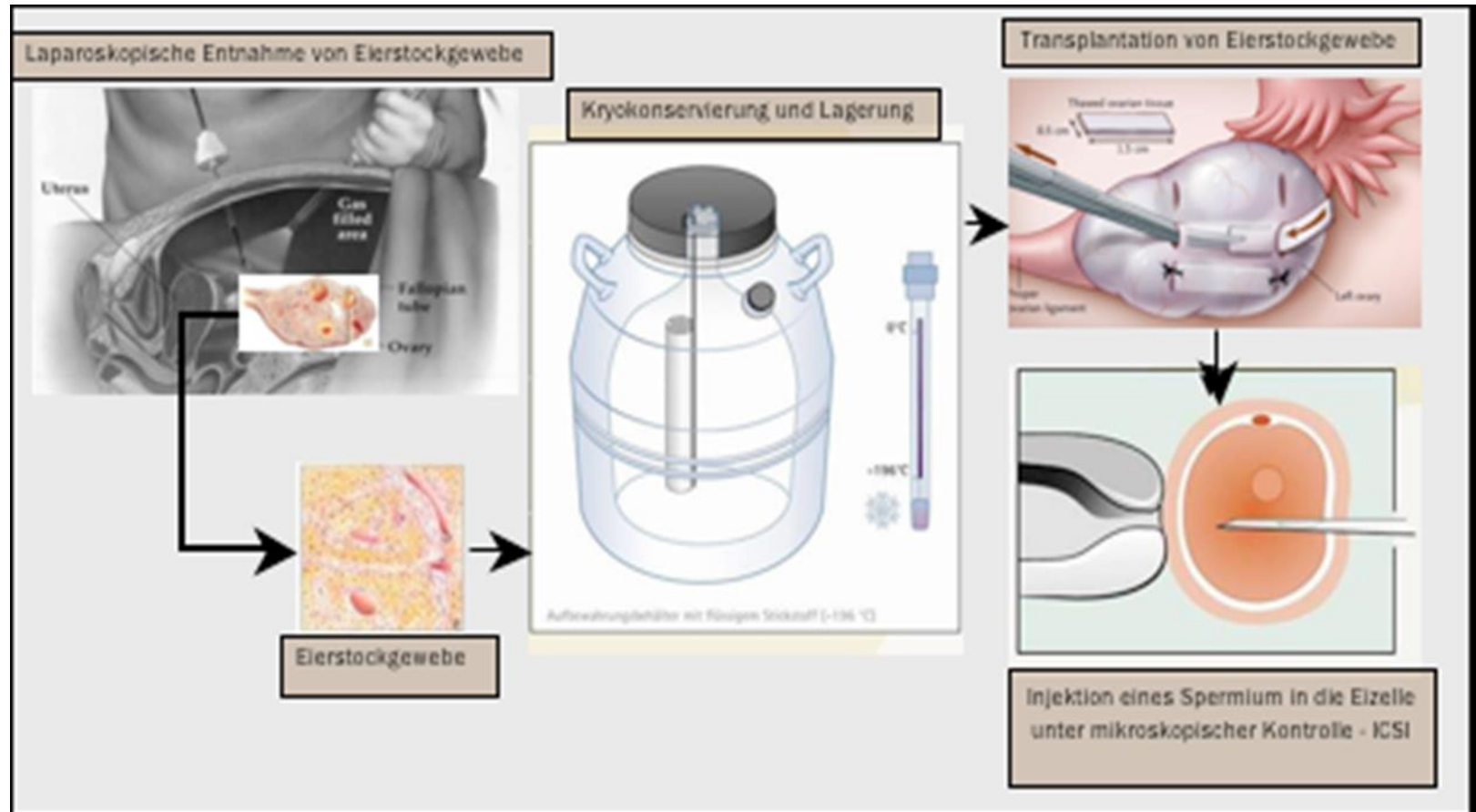
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Fertility Preservation for people with cancer (pdf, 326.37KB)

A New Zealand Guideline

# Ovarian Tissue Cryopreservation



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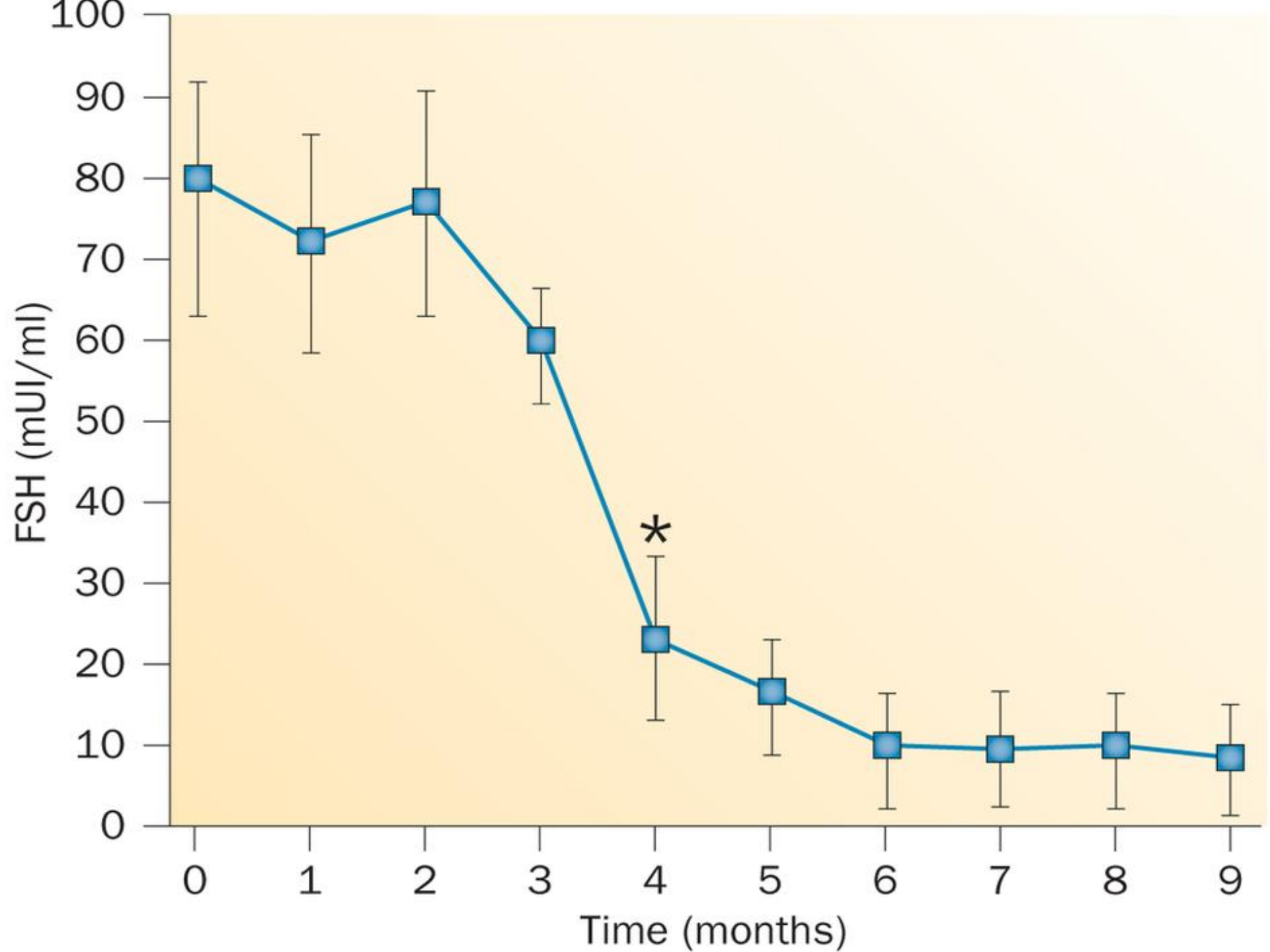


# Ovarian Tissue Cryopreservation

- Oncological fertility preservation
- Only option for pre-pubescent girls
- Laparoscopy required
- Malignant cells being re-implanted a concern
- 80 babies in world
- HRT







# Ovarian cryopreservation in NZ

- 46 ovarian tissue samples stored
- Permission to store but not yet an approved procedure ( expect soon)
- 3 babies in Australia



