Cryobiology
ONPRC Saturday Academy Part 2

http://www.ars.usda.gov/News/docs.htm?docid=15744&page=2

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How can cryopreservation be used for fertility preservation in female cancer patients

- Oocyte Freezing
- Embryo Freezing
- Ovarian Tissue Freezing
- Whole Ovary Freezing
Fresh vs Slow Freezing vs Vitrified Ovarian Tissue

Fresh tissue

Tissue after slow rate freeze

Tissue after vitrification

Low magnification with H & E Staining

Photos: Alison Ting, PhD, ONPRC
Fresh vs Slow freezing vs Vitrified Ovarian Tissue

Fresh tissue

Tissue after slow rate freeze

Tissue after vitrification

Low magnification of follicles

High magnification of follicles

H&E Staining

Photos: Dr. Alison Ting, PhD, ONPRC
Vitrification Conclusions

- Vitrified ovarian tissue had a similar appearance and cell integrity compared to fresh ovarian tissue.

- The slow freezing ovarian tissue had fewer intact and organized cells compared to fresh ovarian tissue.