

- Oocyte and embryo banking procedures should be completed <u>prior to</u> initiation of gonadotoxic therapies.
- Previous chemotherapy is likely to decrease the number of retrievable eggs
- If attempted within 2-3 months of exposure, risk of no eggs retrieved at the time of egg retrieval
- Concerns that follicles recently exposed to chemotherapy may yield abnormal oocytes (animal studies)*

30 YEARS

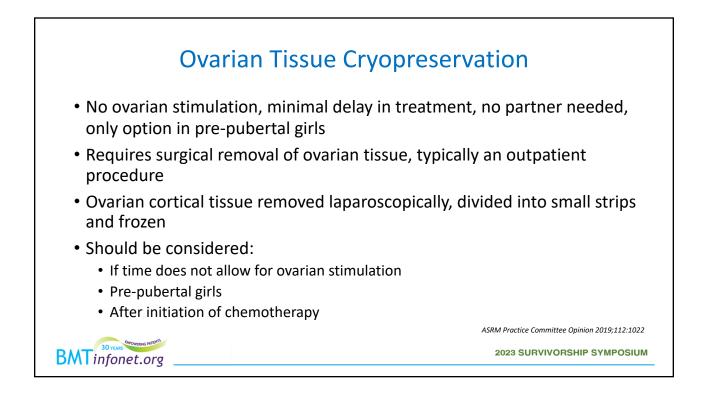
BMT infonet.org



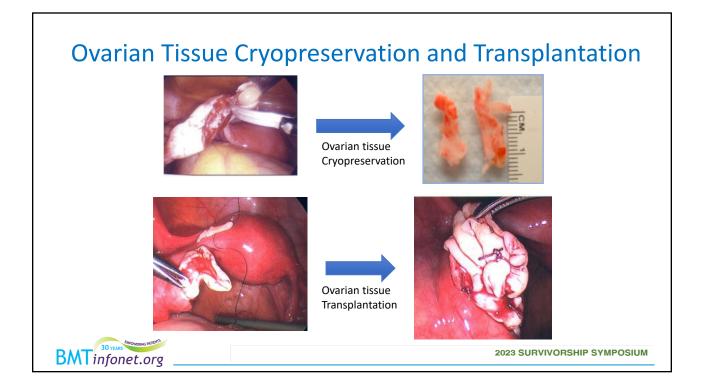
*Meirow et al. Hum Reprod 2001;16:632 2023 SURVIVORSHIP SYMPOSIUM

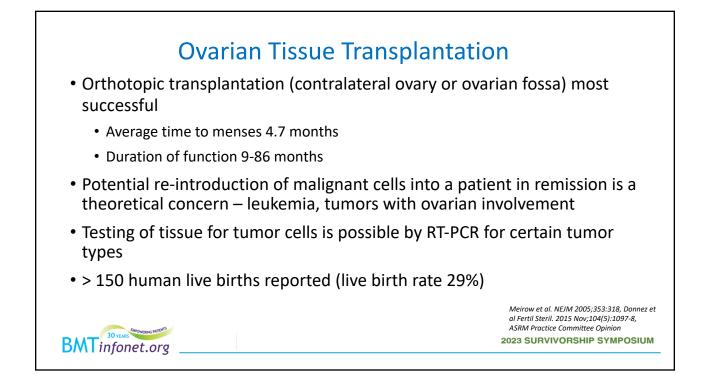
Occyte/Embryo Cryopreservation: Risks and Safety
Ovarian Hyperstimulation Syndrome – 5%
Now avoidable with Lupron trigger*
Ovarian Torsion < 1%
Infection / Bleeding < 1%
Cost: \$7-20,000

Clinical Trials of Fresh vs Frozen Oocytes					
	Cobo 2008	Cobo 2010	Rienzi 2010	Parmegiani 2011	
Patient population	Oocyte donors (n=60)	Oocyte donors (n=600)	Infertile pts < 43, needing ICSI with > 6 MII oocytes (n=80)	Infertile pts < 42, needing ICSI with > 5 MII oocytes (n= 31)	
Mean age at retrieval	26.7 <u>+</u> 3.6	26.7 <u>+</u> 3.9	35.5 <u>+</u> 4.8	35 <u>+</u> 0.8	
Implantation rate	100% fresh 40.8% frozen	40.9% fresh 39.9% frozen	21.7% fresh 20.4% frozen	NA fresh 17.1% frozen	
CPR per transfer	100% fresh 60.8% frozen	55.6% fresh 55.4% frozen	43.5% fresh 38.5% frozen	13.3% fresh 35.5% frozen	
CPR/oocyte thawed	6.1%	4.5%	12%	6.5%	

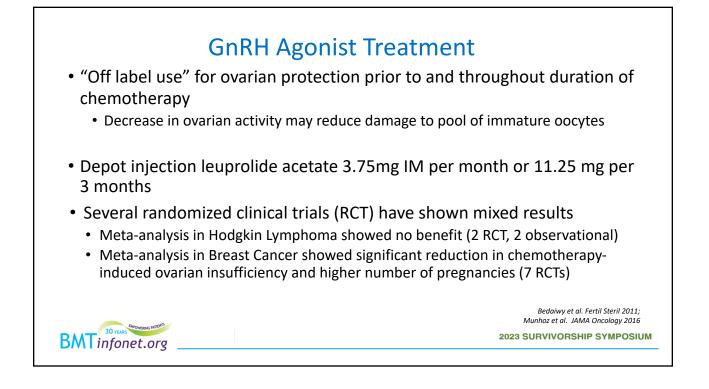


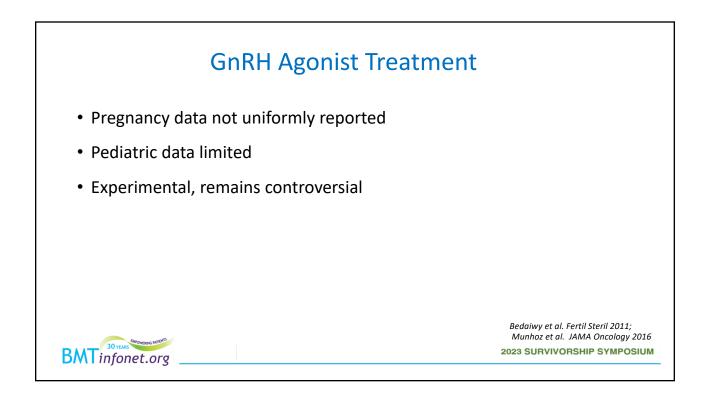


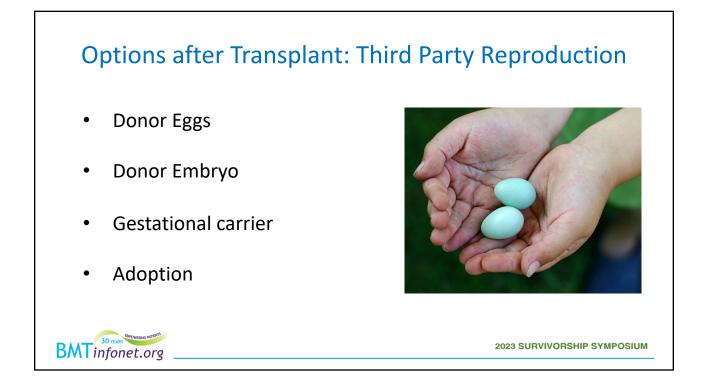


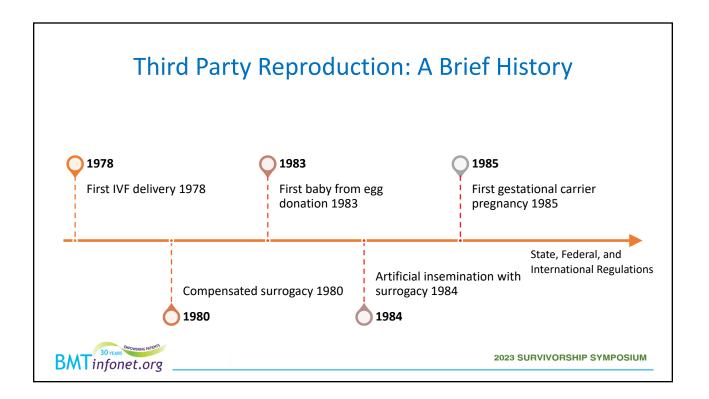


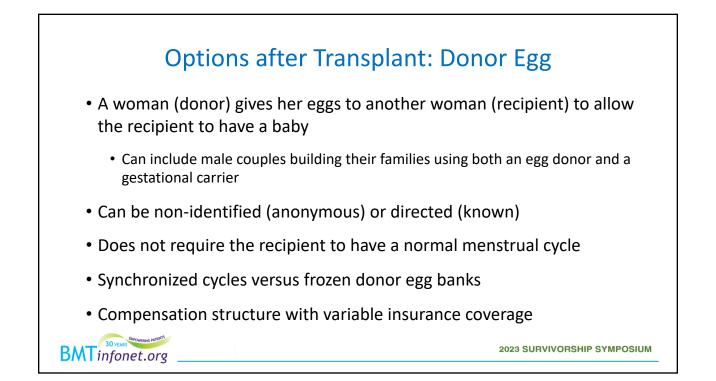
Ovarian Tissue Cryopreservation	: Risks			
Risk of laparoscopy				
 Risk of removing an entire ovary 				
 Multi-site retrospective chart review: 				
• 43 in OTC+HCT and 99 in HCT				
 There were no clinical differences in rates of complication OTC+HCT and those with HCT alone 	s in girls undergoing			
 65% of patients experienced premature ovarian insufficiency with ovarian removal + HCT versus 45% with HCT alone (p=0.26) 				
Service of Mar	Dwiggins et al. J of Pediatric & Adolescent Gynecology 2023			
BMT infonet.org	2023 SURVIVORSHIP SYMPOSIUM			

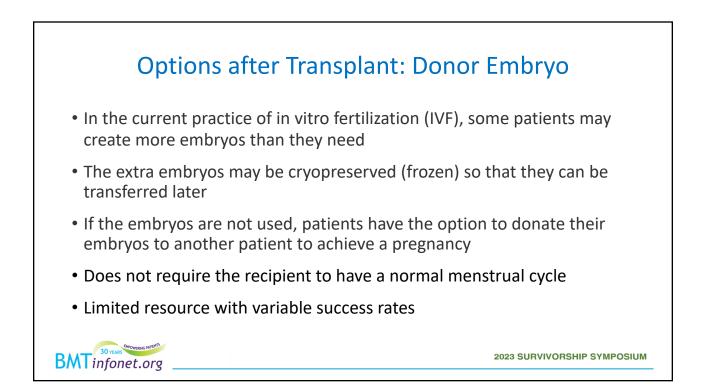


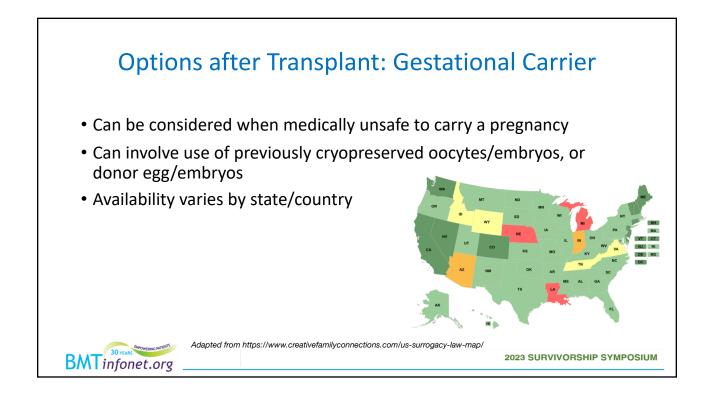












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