

Fred

55 year old leukemia survivor



Was treated with chemotherapy

Angry that he had not been able to become a parent

Photo: Microsoft Clip Art & iCLIPART

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Adam

3 years old and diagnosed with leukemia

He has just started chemotherapy treatment.

Parents are worried about his future prospects of fatherhood.

Photo: Microsoft Clip Art & iCLIPART



Angela

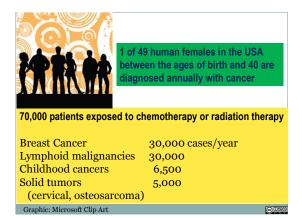
15 years old and has just been diagnosed with leukemia

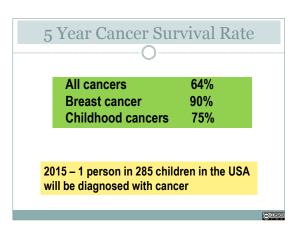


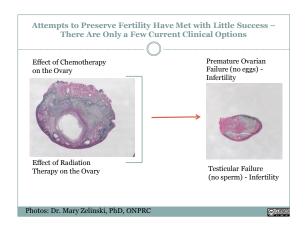
Has been scheduled for chemotherapy and radiation therapy.

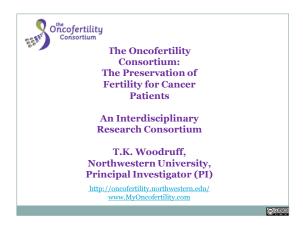
Hopeful due to new research to preserve her fertility after surviving her cancer

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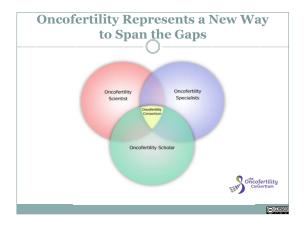












Considerations of Oncofertility

- What is the specific fertility threat of the lifepreserving cancer drugs? Can we predict how new cancer drugs will affect fertility?
- How do we optimally store and recover gonadal tissue? Can we cryopreserve and grow human ovarian follicles?
- What are the key concerns and treatment decisions that are made at diagnosis and how do gender, race/ethnicity, socioeconomic and family status factor into decisions?

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Further Considerations

- · What role do healthcare practitioners and religious counsel play in the decision?
- What are the ethical and legal concerns regarding the use of advanced reproductive technologies in cancer patients?
- How do families facing a child's cancer diagnosis decide whether or not to participate in the ovarian cryopreservation work?
- · What is the cost/benefit analysis of fertility preservation?



Research Grants for Oncofertility



Ro1 grants

Novel Methods for Cryopreservation and Recovery of Female Follicles M. Zelinski, ONPRC, OHSU

Bioengineering Primate Follicles

R.L. Stouffer, M.B. Zelinski, D.H. Lee, ONPRC, OHSU

Preserving and Growth of Human Follicles R.J. Chang, University of California, San Diego; T. Woodruff, Northwestern

Discovery in the Humanities and Social Science of Oncofertility L. Zoloth, Northwestern

P30 grants

Biomaterials Core – L. Shea, Northwestern

National Physicians Cooperative – M. Gerrity, Northwestern

Training modules

R25 grant – Learning Modules in Oncofertility – Northwestern, ONPRC, UCSD T90/R90 grants - Training the Globally-ready Oncofertility Scholar -

C. Coutifaris, U. Pennsylvania

Bioengineering Primate Follicles: From Immature Eggs to Live Births and Assessment of Ovarian Tissue Cryopreservation Methods in Nonhuman Primates







From Bench to Bedside



This research will aid in developing safe and effective ways to protect human ovaries from damage by anticancer therapies and to restore fertility to these patients.







Photos: Microsoft Clip Art