

### Oncofertility Best Practices CCHMC Panel Presentation Comprehensive Fertility Care & Preservation Program November 2015





### Cincinnati Children's

### **Team Introductions**

- Karen Burns, MD
  - Pediatric Oncology, Co-Director CFCPP
- Holly Hoefgen, MD
  - Pediatric Gynecology, Co-Director CFCPP
- Lesley Breech, MD
  - Pediatric Gynecology Division Director
- Janie Benoit, MD
  - Pediatric Gynecology Fellow
- Olivia Jaworek Frias, MSN
  - Fertility Navigator
- Julie Sroga, MD
  - Reproductive Endocrinology, University of Cincinnati
- Seth Risner, MS, PA(ASCP)
  - Pathology
- Tara Schafer-Kalkhoff, MA
  - Clinical Research Coordinator
- Abbey Franklin, PA
  - Pediatric Urology
- Mary Anne Lenk
  - Quality Improvement Consultant



- First established in 2009
  - Goal to see all eligible patients (new and relapsed)
  - Available Options:
    - Lupron

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- Sperm Banking
- Partnered with UC Reproductive Medicine
  - Embryo cryopreservation
  - Oocyte cryopreservation
- Ovarian Tissue Cryopreservation
   Brotocol opponed at CCHMC (2012)
  - Protocol opened at CCHMC (2012)
- Testicular Tissue Cryopreservation
  - Available via University of Pittsburgh (2014)
  - IRB pending at CCHMC



# **Program History**

- Struggles with consults and timing
   Which patients should be seen?
- Tremendous growth in institutional oncology program
  - Multiple teams within oncology
- Initially unable to track consults
- September 2013
  - Oncofertility Navigator Role Identified
    - Oncofertility database creation
  - New work flow established
    - Navigator to Care Manager communication
  - Fertility Consult Note created in Epic
- Staff education sessions beginning in 2014
- Formalized process for BMT patients 2015



- Current Goal: Fertility Consultation on all at risk patients in CBDI
- Accepted Exclusions from Consultation
  - Surgery only
  - Observation only
  - Palliative/Phase I treatment
  - \*Second opinion/Consult only
  - Previous fertility consult completed
    - without change in infertility risk
  - Family declines fertility consultation

### Eligible\* Patients Receiving a Fertility Consult\*\* September 2013 - Present



\*Ineligible criteria: observation only, palliative or <20% expected survival, phase I, previous fertility consult/intervention, consult only, surgery only, family declined, severe cognitive delay

\*\*Fertility consult counted on date of documented consult

Fertility Consult Count — Cumulative Count





\*Ineligible criteria: observation only, palliative or <20% expected survival, phase I, previous fertility consult/intervention, consult only, surgery only, family declined, severe cognitive delay



### FERTILITY CONSULTATION WORKFLOW

#### **Fertility Navigator**

Obtain initial contact information

- •Review records for any previous fertility team contact
- •Reach out to the Oncologist on-call to address Gonadotoxic Risk Calculation
- •Reach out to the Gynecologist or Urologist On Call to make aware of pending consultation
- •Assist with consultations as required and avaliable

#### **Oncologist On Call**

Assess risk calculation for previous cancer treatments
Assess risk calculations for expected future treatments
Discuss patient's plan of care with onocology colleagues
Discuss findings with the Gynecologist or Urologist On Call

#### **Gynecologist and Urologist On Call**

Review risk calculation with Oncologist On Call
Discuss patient history and consultation request with Fertility Navigator
Conduct Fertility consultation, document in Fertility Consult Notes, bill consultation

#### **Fertility Navigator**

•Contact Research Coordinator for any patients requesting research protocol treatment

•Contact University of Cincinnati for female REI services

•Contact appropriate sources for sperm banking

•Assure patients and families have all required contacts, direct to follow-up appoitments and assist with further process steps as required

• \*\* Follow up with "maybe" patients within 72 hours \*\*

#### **Research Coordinator**

•Work with research institutions (Pitt, Northwestern)

Consent patients for research protocol procedures

Assure all appropriate paperwork completed for research portion of procedures

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# **Fertility Navigator**

Goal: Assist the patient/family through the Oncofertility process as seamlessly as possible

- Obtain initial consult information:
  - Fertilityconsult@cchmc.org
  - Pager
  - Desk phone / Message line
  - Interdisciplinary meetings
  - EPIC in-basket
  - Review of weekly patient lists (Oncology)
  - Review of BMT schedule/calendar
  - Tumor Board
- Initiate fertility consult/process chart review
  - Identify previous treatment & future treatment
  - Identify urgency of consult (Solids, Liquids, Neuro-Onc, BMT)



# Fertility Navigator

- Contact the on call fertility oncologist for risk assessment
- Coordinate fertility consult with patient's care manager
   CBDI clinic / GYN clinic / Inpatient
- Contact GYN/Urology on call to notify of pending fertility consult
- Prep consult
  - Shared Decision Making Tool
  - Patient folder (male / female)



- Facilitate in the actual Fertility Consultation
  - Ensure appropriate lab testing is performed
  - Review financial considerations
- Navigate the research Process
  - Contact research coordinator with potential research candidates
- Notify Pathology/Surgery Scheduling of OTC patients
- Contact REI (oocytes/embryos/sperm) fax notes and labs

Provided by oncology members of CFCPP

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- New patient plan is discussed with primary oncology team
  - Identify protocol, address any protocol deviation
  - Determine window of time before initiation of therapy
- Cumulative doses of chemotherapy and/or radiation in protocol
- Provide assessment of previous and planned treatment regimens



- Tools for calculating risk:
  - SaveMyFertility
  - Fertile Hope

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- Summed Alkylating Agent (SAA score)
- Cyclophosphamide Equivalent Dosing (CED) calculation
- Literature searches on new / unfamiliar medications & protocols

Cyclophosphamide equivalent dose (CED) calculation:

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- 1.0 \* (cumulative cyclophosphamide dose (mg/m<sup>2</sup>))
- + 0.244 \* (cumulative ifosfamide dose (mg/m<sup>2</sup>))
- + 0.857 \* (cumulative procarbazine dose (mg/m<sup>2</sup>))
- + 14.286 \* (cumulative chlorambucil dose (mg/m<sup>2</sup>))
- + 15.0 \* (cumulative BCNU dose (mg/m<sup>2</sup>))
- + 16.0 \* (cumulative CCNU dose (mg/m<sup>2</sup>))
- + 40 \* (cumulative melphalan dose (mg/m<sup>2</sup>))
- + 50 \* (cumulative Thio-TEPA dose (mg/m<sup>2</sup>))
- + 100 \* (cumulative nitrogen mustard dose (mg/m<sup>2</sup>))
- + 8.823 \* (cumulative busulfan dose (mg/m<sup>2</sup>))

### **Oncofertility Risk Assessment**

- Identify Risk Category:
  - -Low

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- (<20% develop infertility)</li>
- Intermediate
  - (20-80% develop infertility)
- High
  - (>80% develop infertility)

### WHAT IS MY INFERTILITY RISK?

It is important for you to know that every patient has a different infertility risk.

This visual shows you an estimate of your infertility risk based on your condition and treatment.



Revision A - February 2015

Children's



### Fertility Preservation Options





### Fertility Preservation Options

|  |   |  | DEPO-LUPI | RON INJECT  | TION*  |  |
|--|---|--|-----------|---|--|--|
| WHAT IS MY<br>INFERTILITY RI   | SK?   | OVAR<br>(OVARIAN T   | Y FREEZ   | ING   | TESTICULAR I<br>(TESTICULAR TISSUE<br>CRYOPRESERVATION   | FREEZING   |
| It is important for you to know that even<br>has a different infertility risk.                 | y patient EMB<br>(EMBRYC  | RYO FRE  |           |   |  | eral anesthesia<br>e testicle<br>quires transportation             |
| This visual shows you an estimate of<br>infertility risk based on your condition<br>treatment. | EGG FRE   | EZING  |           | Process  • Sperm sample coller • 1-3 sperm samples  | ction through masturbation   |  |
| HIGH<br>≥ 80%  | Process     Ovarian stimulation     Multiple injections   |  |           | Sperm analysis and     Time Frame     1-7 Days  | freezing   | -  |
|  | Serial ultrasounds     Egg retrieval under seda Time Frame 2-6 Weeks  | ation  | -2        | Fertility Success Sperm can be succe 4 to 10 % live birth About 30% live birth Braceodurel Birk   | s Rate<br>esofully maintained indefinitely<br>ate per cycle with IUI<br>rate per embryo with IVF or ICSI | ntal protocol  |
| MODE<br>20-80  | Fertility Success R<br>4% live birth rate p<br>Procedural Risk  | ate<br>er oocyte (egg)   | -7        | Unable to freeze du     Unable to collect sp     Financial Cost (     Devreet due at import   | e to low sperm count<br>erm sample<br>Subject to Change)   | experimental   |
|  | <ul> <li>Side effects of medicatio</li> <li>Ovarian hemorrhage</li> <li>Pelvic Infection</li> <li>Ovarian hyperstimulatio</li> </ul>  | n  | :er)      | Initial sperm analysis     Subsequent samples     Storage fee: \$138 pi     Infectious disease la     Future cost                           | s and freezing: \$495<br>s: \$277 each<br>er year<br>bs: \$775*  | ater in life<br>on (ICSI)  |
| LOW<br>≤ 20%   | Financial Cost (Subje<br>• Fertility consult fee: \$30<br>• Procedure: \$5500<br>• Medications: \$5000-\$70<br>• Freezing and shipping fr<br>• Storage fee: \$200 per y<br>• Labs: \$300* | ct to Change)<br>0*<br>00 (free for patients with ca<br>se: \$721<br>sar | ncer)     | (*generally covered by ind<br>Long-Term Impli<br>Sperm analysis<br>In Vitro Fertilization i<br>Intra Cryoplasmic Sp<br>Intrauterine Insemin | cations<br>(IVF)<br>perm Injection (ICSI)<br>ation (IUI)   | t you may<br>service such<br>implications,<br>i, etc. Please<br>or |
| Cincinnati<br>Children's   | <ul> <li>Future cost<br/>('generally covered by inse<br/>inner 2015</li> </ul>  | urance)  |           | Other considerat  | tions  |  |

Initiation of Shared Decision Making



- **Goal**: follow up call within 72 hours – Decision time frame dependent of care
- Fertility Navigator contact information given
- Patients may request follow up consult with Fertility Navigator / Providers
- Survivors

- Goal: Annual GYN/Fertility follow up

### Percent of Eligible Patients Electing a Fertility Preservation Option September 2013 - Present



\*Ineligible criteria: observation only, palliative or <20% expected survival, phase I, previous fertility consult/intervention, consult only, surgery only, family declined, severe cognitive delay





### # of Patients Electing Fertility Preservation by Option Sep. 2013 - Present





# Preservations Options Completed

(Based on currently available date)

- Females
  - Ovarian Tissue Cryopreservation: 44
    - 22 since 1/2015
  - Oocyte Cryopreservation: 8
  - Embryo Cryopreservation: 0
- Males
  - Sperm Cryopreservation: 22
  - Testicular Tissue Cryopreservation: 8
    - 6 since 1/2015



# STEPS TO OVARIAN TISSUE CRYOPRESERVATION ...





# Determine patient eligibility based on the study's inclusion and exclusion criteria.



# Inclusion Criteria

- 1) Females,  $\geq$  1 month and  $\leq$  41 years of age.
- 2) Undergo surgery, chemotherapy, drug treatment, and/or radiation for the treatment or prevention of a medical condition or malignancy expected to result in permanent and complete loss of subsequent ovarian function.
- 3) Or, have a medical condition or malignancy that requires removal of all or part of one or both ovaries.
- 4) Subject may have newly diagnosed or recurrent disease.
- 5) Subject who already has stored cryopreserved ovarian tissue in a frozen state prior to undergoing cancer treatments (surgery, chemotherapy or radiation) will be eligible for enrollment with informed consent.
- 6) Signed an approved informed consent and authorization permitting the release of personal health information. The subject and/or the subject's legally authorized guardian must acknowledge in writing that consent for specimen collection has been obtained, in accordance with institutional policies approved by the U.S. Department of Health and Human Services.
- 7) Is not a candidate for or chooses not to utilize embryo or oocyte banking.



# Inclusion Criteria

- 1) Females, **> 1 month** and < 41 years of age.
- 2) Undergo surgery, chemotherapy, drug treatment, and/or radiation for the treatment or prevention of a medical condition or malignancy expected to result in permanent and complete loss of subsequent ovarian function.
- 3) Or, have a medical condition or malignan requires removal of all or part of one or both ovaries.

Subje 4)

5)

- Completed pre-treatment, recurrence, & post-Subje treatment survivors state radiat
  - No restrictions based on risk assessment
- 6) Signe releas legall speci polici
  - Allows for case by case evaluation
  - Final decision left with the CFCPP team and the patient's family

7) Is not a candidate for or chooses not to utilize embryo or oocyte banking.



# **Exclusion Criteria**

- 1) Women with psychological, psychiatric or other conditions which prevent giving fully informed consent.
- 2) Women whose underlying medical condition significantly increases their risk of complications from anesthesia and surgery.
- 3) Women who have a large mass in the ovary that is being removed will not be enrolled in the study. That is, ovarian tissue cryopreservation will not be performed on portions of the ovary that contained a large mass as the tissue may not be suitable for future use due to limited or no follicles.
- 4) Serum FSH levels above 20 mIU/ml.





### **Patient Consent Process**



### **OTC Consent Preparation**

Prepare patient folder with OTC Study paperwork.

### **Consent the Patient**

- Consent Forms used based on age: Adult Consent Parental Permission, Assent
  - $\geq$  18 years: Adult Consent completed by patient
  - $\leq$  17 years old
    - For all: parent or legal guardian completes Parental Permission
    - $\circ \leq 10$  years: patient asked for verbal assent, if age appropriate
    - o 11 to 17 years: patient asked to provide written Assent
    - 16 to 17 years: patient asked to sign Adult Consent as well as Assent
- Consent Forms used based on language spoken: Full or Short Form Consent
  - Full Consent Form: used for English speaking patients
  - Short Form Consent Form: used for non-English speaking patients
    - Currently translated into Arabic and Spanish.





**Ovarian Tissue Cryopreservation – Procedure** 

- Combined vs Solo procedure
- Laparoscopic (Open option available)
- Remove Single Whole Ovary
- Ovary removed via easiest accessible direction









### Ovarian Tissue Cryopreservation -Processing.

- Recently moved to in-house processing
- Requires FDA licensing and oversight































- Provided via University of Cincinnati Center for Reproductive Health
  - Oocyte Cryopreservation
  - Embryo Cryopreservation

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### **REI Visit - Counseling**

- Oocyte and embryo cryopreservation
  - Explanation of process: ovarian hyperstimulation and oocyte retrieval, cryopreservation, and storage
    - Pregnancy rates for oocytes and embryos
  - Determine cycle stimulation start based on cancer treatment
    - Traditional follicular phase start
    - Immediate start for late follicular- luteal phase
  - Financial counseling for cryopreservation and storage
  - Special considerations in adolescent/young adult population
    - Virginal status with transvaginal monitoring/aspiration
    - Relationship status counseling in regards to legal implication to embryo cryopreservation
- Options for using gametes in the future
  - Uterine radiation need for gestation carrier
    - FDA labs obtained if at risk for needing gestational carrier
- Contraception and Hormone replacement discussions

### Cincinnati Children's Referrals from CCHMC for gamete cryopreservation

- 19 patients referred for gamete cryopreservation since 1/2014
- 13 pre-treatment and 6 post-treatment consults
- Age: 17-26
- AMH: Pretreatment 0.88-3.9; post treatment 0.03-0.7
- 8 proceeded with oocyte cryopreservation with 3 canceled cycles
  - 5 to 22 oocyte cryopreserved
  - Cancelled per patient desire, poor response, enlarging complex ovarian mass
  - 0 embryo cryopreservation cases
- 4 pending stimulation starts for post treatment patients



- Testicular Tissue Cryopreservation
  - Counseled for all pre-pubertal males who meet study criteria
  - Currently made available through the University of Pittsburgh
- Sperm Cryopreservation
  - Counseled for all pubertal male patient's regardless of risk stratification
  - Made available through University of Cincinnati
  - In-house room available for banking at CCHMC

### Cincinnati Electronic Data Management – Entry into System

| - New Oncology Patient | Consults Manage My Version - Required  | Add Order  |
|------------------------|--|--|
| Fertility Preservation | - Required   |  |
| Fertility Preservation | n — <mark>Required</mark><br>Consult Request<br>Consult Request Not Indicated  |  |
| Additional Consults    |  |  |
| Consults               | ntion Consult Request<br>p Routine, ONCE First occurrence Today at 2251, Call or page consulting dep<br>Testing<br>Routine, Internal Referral, Referral to facility - CINCINIUATI CHILDREN'S HO! | 2 of 2 selected<br>partment in addition to placing this order.<br>SPITAL MEDICAL CENTER 1 visit. Routine |

| utine, ORCE First | occurrence Today at 14 | 104, Specify the re  | ason why the Fertility Preservation Consult Request is not indicated.  | & Bccebr | × Spand |
|-------------------|------------------------|--|--|----------|---------|
| Priority.         | Routine 🔎 🔝            | STAT   |  |          |         |
| Process inst.     | Specify the reason wh  | the Fertility Pres   | ervation Consult Request is not indicated.   |          |         |
| Questions         | Prompt                 |  |  |          |         |
|                   | 1. Reason 🥹            |  | 2  |          |         |
|                   | Single response        |  |  |          |         |
| Comments (F6      |                        | Search Search Search Search Surgery or Palliative of Phase I Tri Fertility Co Previous F Family De Medically | Observation Only<br>r Less Than 20% Expected Sunival<br>al<br>onsult Completed - No Change in Fertility Risk<br>ertility Intervention<br>clined Consult<br>inappropriate, i.e. Acutely III, Severe Cognitive Delay |          | × 0     |

### New Oncology Patient Order Set

### Data Management - Synopsis

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EPIC Fertility Synopsis (Testing Phase)



Currently using Excel Spreadsheets

Cincinnat

 Considering REDCap vs other Data Management options

- Interested in multi-center shared database

### **Initial Programmatic Barriers**

- Process for capturing consults
- Coordination of fertility care (No fertility navigator)
- Data management / Monitoring of completed consults
- Lack of fertility team specific contact information
- Tissue processing in outside facilities
  - Time to processing, Scheduling
- Lack of Research Assistant
- Lack of Institutional support & oncology buy-in
- Need for overall staff education
- Logistics of 3 oncology services + BMT
- Financial Barriers

### **Ongoing Programmatic Barriers**

- Data management
  - Remains in Excel
- Unable to process sequential ovaries in a single day
- Continued education throughout departments
- Resource management
  - faculty/fellow time, staff time, OR time, clinic utilization
- Funding

Cincinnat



- Protocol & consent improvements
- Increased participation in Oncofertility Consortium
- Initiation of Shared Decision Making Tool
- New Name, New Website
- Hiring of Clinical Research Coordinator

### Cincinnati Children's

# New in 2015 !!

### Comprehensive Fertility Care & Preservation Program (CFCPP)

HOME / SERVICES / F / COMPREHENSIVE FERTILITY CARE & PRESERVATION PROGRAM (CFCPP)

Recommend 🖂 Email 🚔 Print

Services Available

| <ul> <li>New</li> </ul> | / gyne |
|-------------------------|--------|
|-------------------------|--------|

- Protocol 8
- Amendme
- Increased
  - Monthly
  - Participa
  - TWO ch Adoles Emergi
- Initiation d

| Comprehensive Fertility Care &<br>Preservation Program (CFCPP) |
|--|
| Services Available   |
| Females  |
| Males  |
|  |

### The Comprehensive Fertility Care & Preservation Program

At Cincinnati Children's Hospital Medical Center, we believe that fertility is an important aspect of medical care for every patient, which requires consideration even during childhood. The goal of the Comprehensive Fertility Care & Preservation Program (CFCPP) is to meet with patients whose medical condition or treatment regimens place them at risk for fertility complications in the future. By educating patients and families early on about the fertility risks of their diagnosis and treatments, they can determine if fertility preservation is available and right for them. We help the patient and family to understand the strengths, limitations, successes and science behind each option. We have teamed with the University of Cincinnati Center for Reproductive Health to provide all available fertility preservation options to our patients, utilizing the best and most up–to-date processes and techniques. We also work closely with the patient's primary medical team at Cincinnati Children's to assure the best quality of care for all patients that fits well into their proposed treatment plan.



**Cancer and Blood** 

Adolescent and Young



The Comprehensive Fertility Care & Preservation Program offers a full spectrum of fertility services for both male and female patients, including embryo freezing and sperm banking.

READ MORE

#### **Related Areas**

- Cancer and Blood Diseases Institute
- Turner Syndrome Center
- Transgender Health Clinic

- New Name, New Website
- Hiring of Clinical Research Coordinator

• Patient centered-improvements

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- Continue testing, improvement and spread of SDM tool
- Increase information available to our international patients in their preferred language
- Increased presence in survivor population
- Increase our national presence
- Expand & improve workflow model
  - Increased participation of urology with male consults
  - Defined roles of Fertility Navigator, CRC, etc ...
- Expand data-driven decision making & QI
  - Measure timely consults, Follow up of patient receiving fertility preservation methods, Monitoring the role of finances on decision
- Expand research protocols
  - TTC protocol currently with IRB for approval at CCHMC



### QUESTIONS

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### **ANSWERS**

