## Fertility Preservation Guidelines in 2018

Oncofertility Conference November 14<sup>th</sup>, 2018

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#### Disclosures

- Investment in Umotif, PRO platform
  - Not related to any work product
- Will discuss off label use of GnRH analogues for "ovarian suppression"

# Objectives

- Describe challenges of guideline formulation
- Review the most recent ASCO and ASRM guidelines
- Consider together a wish list for guidelines



2001







JOURNAL OF CLINICAL ONCOLOGY

SCO SPECIAL ARTICLE

Fertility Preservation in Patients With Cancer: ASCO Clinical Practice Guideline Update

Kutluk Oktay, Brittany E. Harvey, Ann H. Partridge, Gwendolyn P. Quinn, Joyce Reinecke, Hugh S. Taylor, W. Hamish Wallace, Erica T. Wang, and Alison W. Loren

2001 2006



JOURNAL OF CLINICAL ONCOLOGY ASCO SPECIAL ARTICLE

Fertility preservation and reproduction in cancer

ETHICS COMMITTEE REPORT

Fertility Preservation in Patients With Cancer: ASCO Clinical Practice Guideline Update data Olso, briton J. Horey, don't flowing Committee P Quest, Jupe British, Magh S. Sales, or thomas Malles, Gas T. Wang and Glasse N. Lean

2005

#### **ETHICS COMMITTEE REPORT**

Fertility preservation and reproduction in cancer patients

The Ethics Committee of the American Society for Reproductive Medicine American Society for Reproductive Medicine, Birmingham, Alabama

#### 2018



# Role of guidelines

Disseminate evidence based practices

Provide expert opinion in the face of inadequate evidence

Standardize practice across institutions

Reduce disparities among individuals

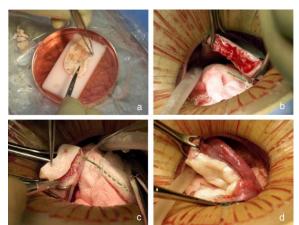
Provide benchmark for insurance coverage

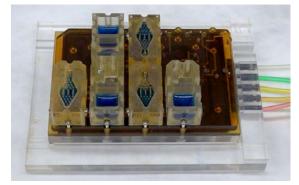




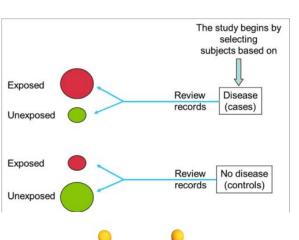
# By necessity Guidelines look backwards















# Hindsight isn't always 20/20

- Quality of evidence
- Subjectivity in evaluating data in small studies
- Variations in methodology
- Different lens may lead to different focus



- establish a common vision and integrated strategy for the surveillance of late effects in CAYA cancer survivors.
- reduce duplication of effort, optimize the quality of care, and improve quality of life for childhood, adolescent, and young adult cancer survivors.



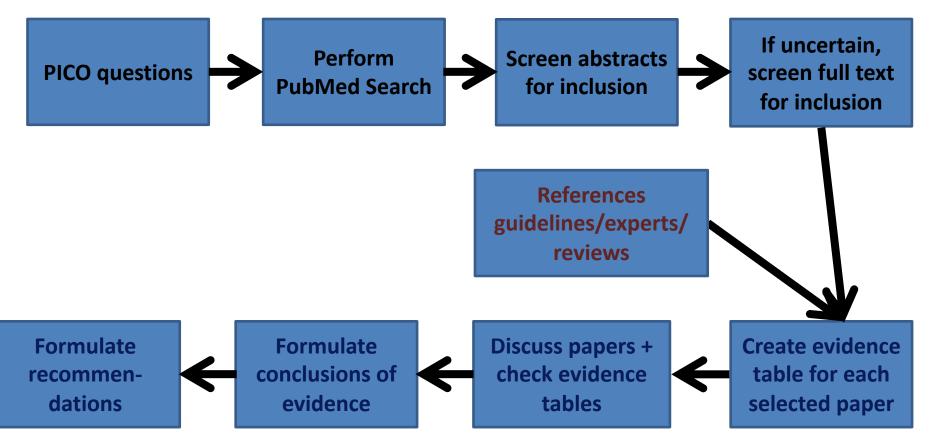
#### GUIDELINE DEVELOPMENT SCHEMA

Step 1: Concordance and discordance among guidelines

Step 2: Clinical Questions

Step 3: Identify and summarize available evidence

# Systematic search of literature over last 20 years



#### What female reproductive (preservation) methods could be used?

Abdel-Hady et al. Fertility sparing surgery for ovarian tumors in children and young adults. Arch Gynecol Obstet 2012; 285:469-471

Study design Treatment era Years of follow-up	Participants	Intervention	Main outcomes	Additional remarks
1. Study design	1. Type and Number of	1. Fertility Preservation	1. Outcome definitions	1. Strengths
Prospective case	<u>Participants</u>	method	Oncological outcomes?	Large number of patients
series, single	22 patients with malignant	Fertility sparing surgery	Reproductive outcomes?	
centre	and borderline ovarian tumors requiring surgical	(ovarian cystectomy/ oophorectomy)	Preservation of ovary?	
2. Treatment era	excision		2. Results	2. Limitations
2003 - 2009	A ATT BE AN ALL MANUAL PARTY OF		Live births	- No clear outcome definition
	Original cohort: 183 patients		2/2 (100%) pregnant females delivered 2	- Preservation of ovary only
3. Follow-up: For primary	30 82		healthy live births	anatomically assessed, not functionally
malignant ovarian	2. Diagnoses		Oncological outcomes	- Preservation of fertility only
tumors:	Ovarian cysts or tumors:		2/22 (9.1%) recurrences of disease	assessed by using the number of
Median follow-up	160/183(87%) non-		2 mm 2 m	pregnancies
36 months (1-62)	malignant disease		No mortalities during surgery or follow-up	
	B)		100 10.15 10	3. Risk of bias
	20/183(11%) primary			- 20
	malignant ovarian tumors			1. Selection bias
	2/183(1.2%) borderline			Unclear
	tumors			Reason: no inclusion or exclusion
				criteria are reported, unclear
	1/183 (1%) metastatic			where the 183 patients came
	colonic carcinoma			from. Could be consecutive but
				not stated.
	3. Age at diagnosis			
	Median age 17 years (7-20)			2. Attrition bias
				High risk
	4. Age at follow-up			Reason: only follow-up for the
	NR			primary malignant ovarian
	80 AV 80 DA 4775A4			tumors, so no information on
	5. Controls (if applicable)			reproductive outcomes in the
	NA			benign tumors/cysts patients

#### Original Article

# Fertility Preservation in Children, Adolescents, and Young Adults With Cancer: Quality of Clinical Practice Guidelines and Variations in Recommendations

Anna Font-Gonzalez, MSc<sup>1</sup>; Renée L. Mulder, MSc, PhD<sup>1</sup>; Erik A.H. Loeffen, MD<sup>2</sup>; Julianne Byrne, PhD<sup>3</sup>; Eline van Dulmen-den Broeder, PhD<sup>4</sup>; Marry M. van den Heuvel-Eibrink, MD, PhD<sup>5</sup>; Melissa M. Hudson, MD<sup>6</sup>; Lisa B. Kenney, MD, MPH<sup>7</sup>; Jennifer M. Levine, MD, MSW<sup>8</sup>; Wim J.E. Tissing, MD, PhD<sup>2</sup>; Marianne D. van de Wetering, MD, PhD<sup>1</sup>; and Leontien C. M. Kremer, MD, PhD<sup>1</sup>; on behalf of the PanCareLIFE Consortium

APPRAISAL OF GUIDELINES

FOR RESEARCH & EVALUATION II



INSTRUMENT

Scope and Purpose

Rigor of Development

**Applicability** 

Stakeholder Involvement

Clarity of Presentation

Editorial Independence

Cancer, July 2016

**NewYork-Presbyterian** 



TABLE 1. Results of AGREE II in 25 Identified Existing CPGs for Fertility Preservation in Children With Cancer, Including 8 High-Quality CPGs

	Domain 1: Scope and	Domain 2: Stakeholder	Domain 3: Rigor of	Domain 4: Clarity of	Domain 5:	Domain 6: Editorial
Guideline	Purpose	Involvement	Development	Presentation	Applicability	Independenc
High quality <sup>a</sup>						
NVOG 2007 <sup>20</sup>	75%	78%	61%	81%	15%	63%
SIGN 2011 <sup>21</sup>	92%	89%	79%	97%	69%	54%
Fembach 2014 <sup>22</sup>	89%	53%	66%	97%	15%	63%
ASCO 2013 <sup>23</sup>	86%	92%	77%	100%	48%	58%
NICE 2013 <sup>24</sup>	94%	83%	98%	94%	83%	71%
SIGN 2013 <sup>25</sup>	97%	83%	69%	100%	67%	79%
NCCN 2014 <sup>26</sup>	69%	61%	68%	94%	15%	67%
COSA 2011 <sup>27</sup>	92%	R1%	66%	100%	200%	280/
Overall (mean)	87%	78%	73%	95%	43%	62%
Lower quality						
BFS 2003 <sup>28</sup>	53%	44%	13%	72%	21%	0%
EGCCCG 2004 <sup>29</sup>	53%	22%	23%	47%	10%	0%
Wallace 2005 <sup>30</sup>	39%	8%	16%	39%	4%	29%
RCP 200731	50%	56%	18%	86%	21%	0%
Backhus 2007 <sup>32</sup>	42%	22%	4%	31%	4%	8%
AAP 2008 <sup>33</sup>	25%	8%	10%	44%	17%	25%
Tangjitgamol 200934	64%	11%	26%	50%	10%	0%
IKNL 200935	61%	53%	33%	58%	6%	38%
Cardoso 2012 <sup>36</sup>	58%	31%	35%	75%	8%	25%
Michaeli 201237	47%	17%	8%	50%	0%	0%
ISFP 2012 <sup>38</sup>	42%	19%	11%	56%	4%	0%
EAU 2015 <sup>39</sup>	42%	47%	55%	89%	29%	92%
ASRM 2013 <sup>40</sup>	58%	28%	42%	86%	15%	54%
AHS 2013 <sup>41</sup>	86%	28%	53%	89%	23%	71%
BCSH 2014 <sup>42</sup>	61%	36%	49%	97%	8%	29%
ISFP 2012 <sup>43</sup>	36%	8%	15%	42%	8%	25%
NZ 2014 <sup>44</sup>	58%	67%	53%	67%	25%	0%

#### **Key Questions**

Who should be advised to receive fertility preservation?

What fertility preservation method should be used?

When should fertility preservation be discussed and initiated?

Who should be involved in the counseling and decision making regarding fertility preservation?

What are the ethical and logistical aspects?



# Concordance of key questions among high quality guidelines

- Concordance: same recommendation across all guidelines
- Discordance: different recommendations, recommendation not included or only 1 guideline made a specific recommendation
- Large variations were noted between guidelines
  - 12.8% items concordant for females
  - 11.4% items concordant for males

Fertility Preservation in Patients With Cancer: ASCO Clinical Practice Guideline Update

Kutluk Oktay, Brittany E. Harvey, Ann H. Partridge, Gwendolyn P. Quinn, Joyce Reinecke, Hugh S. Taylor, W. Hamish Wallace, Erica T. Wang, and Alison W. Loren

# Fertility preservation and reproduction in patients facing gonadotoxic therapies: an Ethics Committee opinion

Ethics Committee of the American Society for Reproductive Medicine American Society for Reproductive Medicine, Birmingham, Alabama

Lambertini et al. BMC Medicine (2016) 14:1 DOI 10.1186/s12916-015-0545-7

**BMC** Medicine

#### CORRESPONDENCE

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Cancer and fertility preservation: international recommendations from an expert meeting

Matteo Lambertini<sup>1\*</sup>, Lucia Del Mastro<sup>2</sup>, Maria C. Pescio<sup>3</sup>, Claus Y. Andersen<sup>4</sup>, Hatem A. Azim Jr.<sup>5</sup>, Fedro A. Peccatori<sup>6</sup>, Mauro Costa<sup>7</sup>, Alberto Revelli<sup>8</sup>, Francesca Salvagno<sup>8</sup>, Alessandra Gennari<sup>9</sup>, Filippo M. Ubaldi<sup>10</sup>, Giovanni B. La Sala<sup>11</sup>, Cristofaro De Stefano<sup>12</sup>, W. Hamish Wallace<sup>13</sup>, Ann H. Partridge<sup>14</sup> and Paola Anserini<sup>3</sup>

Who should be advised to receive fertility preservation?

What fertility preservation method should be used?

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### **Key Questions**

Who should be advised to receive fertility preservation?

ASCO: Being at risk for infertility due to anticancer treatment

ASRM: Males: Exposure to toxic effects of RT and chemotherapy at all stages of life.

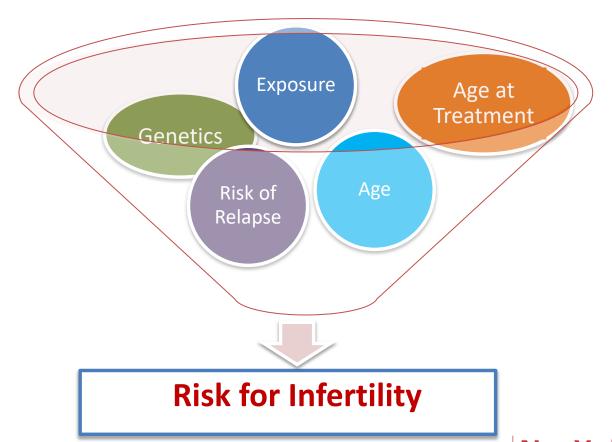
Females: Surgery, chemotherapy (dependent on drug, dose and age of treatment). TBI, Abd RT, Pelvic RT may cause ovarian and uterine damage and are also dose and age dependent.





# EM: Should all patients be referred to a fertility unit before initiating anticancer treatments?

Short answer: No, referrals should be individualized





# EM: Should all patients be referred to a fertility unit before initiating anticancer treatments?

Short answer: No, referrals should be individualized

"providers should not overestimate the risk of treatmentrelated infertility... and some of them (e.g. very young patients undergoing treatment at low risk of infertility) can be reassured that they will not likely require the help of a fertility clinic after treatment"

"the perception of a high risk for infertility is individual and the patients' own wishes should be taken into account"

#### **Key Questions**

#### What fertility preservation method should be used?







## Non-Experimental

ASCO: aromatase inhibitor based stimulation may ameliorate concern of cancer recurrence from stimulation and subsequent pregnancy.

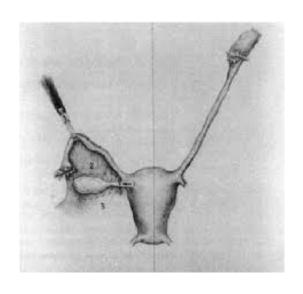
## Experimental

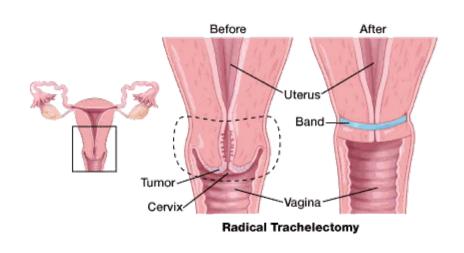


ASCO: needs to be confirmed whether safe in leukemia Emerging data may prompt reconsideration of the designation of experimental in the future

ASRM: Should only be offered as part of an IRB-approved research protocol

EM: best candidates: pre-pubertal girls, those who cannot delay chemotherapy, patients who have already received chemotherapy. Not recommended in patients over 40 or with reduced ovarian reserve. Concern of reintroducing malignant cells.





#### ASCO/ASRM

Ovarian transposition should be offered although is not always successful

#### ASCO/ASRM

Conservative gyn surgery in Stage 1A2 to 1B cervical cancer (radical trachelectomy)



### **Conflicting Data**

ASRM: data conflicting, other FP should be offered in addition to considering GnRH Meta analysis shows efficacy in in breast cancer patients

Did not prevent primary ovarian insufficiency in patients with lymphoma

ASCO: (updated) conflicting evidence

"The panel recognizes that, when proven FP methods (oocyte, embryo, ovarian tissue) are not feasible, and in the setting of young women with breast cancer, GnRHa may be offered to patients in the hope of reducing the likelihood of chemotherapy-induced ovarian insufficiency. However, GnRHa should not be used in place of proven fertility preservation methods."



**NewYork-Presbyterian** 

Table 1. Randomized Controll	eu	Illais
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	No. of	Patients						
First Author, Year, Trial	Enrolled	Evaluable	Agents	Disease Sites	Follow-Up (years)	Primary Outcome	No. of Pregnancies (%)	P
Leonard, 2017, OPTION <sup>9</sup>	106 121	95 107	GnRHa Control	Breast	5.0*	POV	9 (9) 6 (6)	NR
Demeestere, 2016 <sup>8</sup>	65 64	32 35	GnRHa Control	Lymphoma	5.33	POF	17 (53.1) 15 (42.8)	NS
Moore, 2015, POEMS <sup>7</sup>	126 131	105 113	GnRHa Control	Breast	4.1	POV	22 (21) 12 (11)	.03
Lambertini, 2015, PROMISE-GIM6 <sup>6</sup>	148 133	148 133	GnRHa Control	Breast	7.3	POV	8 (5) 3 (2)	NS
Elgindy, 2013 <sup>5</sup>	25 25 25	17 17 17	GnRHa Control GnRHa	Breast	1.0	Resumption of menses	1 (4) 1 (4) 1 (4)	NS NS
Munster, 2012 <sup>4</sup>	25 27 22	17 26 21	Control GnRHa Control	Breast	1.6	POV	0 (0) 0 (0) 2 (10)	NS
Gerber, 2011 <sup>3</sup>	30 31	30 30	GnRHa Control	Breast	4.0	Resumption of menses	1 (3) 1 (3)	NS

Abbreviations: GnRHa, gonadotrophin-releasing hormone agonist; NR, not reported; NS, not significant; OPTION, Ovarian Protection Trial In Premenopausal Breast Cancer Patients; POEMS, Prevention of Early Menopause Study; POF, premature ovarian failure; POV, preservation of ovarian function; PROMISE-GIM6, Prevention of Menopause Induced by Chemotherapy: A Study in Early Breast Cancer Patients—Gruppo Italiano Mammella 6.

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Table 3. Guidelines							
Guideline	Recommendation						
NCCN Breast Cancer 2017 <sup>21</sup>	Randomized trials have shown that ovarian suppression with GnRH agonist therapy administered during adjuvant chemotherapy in premenopausal women with ER-negative tumors may preserve ovarian function and diminish the likelihood of chemotherapy-induced amenorrhea.						
	Smaller historical experiences in patients with ER-positive disease have reported conflicting results with regard to the protective effect of GnRH agonist therapy on fertility.						
NCCN AYA Oncology 2017 <sup>20</sup>	Some data suggest that menstrual suppression with GnRH agonists may protect ovarian function. However, evidence that menstrual suppression with GnRH agonists protects ovarian function is insufficient, so this procedure is not currently recommended as an option for fertility preservation.						
AIOM 2016 <sup>15</sup>	Temporary ovarian suppression with LHRHa during chemotherapy should be recommended to all premenopausal patients with breast cancer undergoing chemotherapy who are interested in ovarian function and/or fertility preservation.						
SEOM 2016 <sup>16</sup>	The use of GnRHa could be an option to discuss with patients with early-stage receptor-negative breast cancer if embryo or oocyte cryopreservation not feasible.						
	The use of GnRHa to preserve fertility in women with other cancer should not be recommended.						
BCY2 2016 <sup>17</sup>	The most recent data suggested a protective ovarian effect of LHRHa in both patients with hormone receptor–positive and –negative disease with no signal for harm from a breast cancer recurrence standpoint. The BCY2 Panel therefore agreed this strategy can be discussed with patients interested in potentially preserving fertility and/or ovarian function.						
St Gallen 2015 <sup>18</sup>	LHRH agonist therapy during chemotherapy proved effective to protect against premature ovarian failure and preserve fertility in young women with ER-negative breast cancer undergoing chemotherapy.						
ESMO 2013 <sup>19</sup>	The use of GnRH analogs concomitantly with chemotherapy should not be regarded as a reliable means of preserving fertility. Data on long-term ovarian function and pregnancy rates in these cohorts are warranted.						

Abbreviations: AIOM, Italian Association of Medicine; AYA, Adolescent and Young Adult; BCY2, International Consensus Conference for Breast Cancer in Young Women; ER, estrogen receptor; ESMO, European Society for Medical Oncology; GnRHa, gonadotrophin-releasing hormone agonist; LHRH, luteinizing hormone-releasing hormone; LHRHa, luteinizing hormone-releasing hormone agonists; NCCN, National Comprehensive Cancer Network; SEOM, Sociedad Española de Oncología Médica.





EM: Ovarian Suppression with the use of LHRHa during chemotherapy should be considered a reliable strategy to preserve ovarian function and fertility, at least in breast cancer patients, given the availability of new data suggesting both the safety and efficacy of the procedure"

(but four of the experts disagreed with the statement and still consider the strategy experimental)

### **Key Questions**

When should fertility preservation be discussed and initiated?

#### Diagnosis

**Treatment** 

Post-therapy

#### All Recommend

ASCO: Sperm collected after the initiation of therapy has a potentially higher risk of DNA damage

EM: Ovarian Tissue Cryopreservation

ASCO: fertility preservation

ASRM: using the preserved gametes or providing other assisted reproduction

Weill Cornell Medicine

**NewYork-Presbyterian NewYork-Presbyterian** 

#### **Key Questions**

Who should be involved in the counseling and decision making regarding fertility preservation?

#### **Oncology Health Care Providers**

ASCO: all oncologic health care providers should be prepared to discuss infertility as a potential risk of therapy.

ASRM: all oncologists should be aware of the adverse effects of treatment on fertility and of ways to minimize those effects







#### **Reproductive Health Care Providers**

ASCO: Patients who express an interest (or ambivalence or uncertainty) should be referred to reproductive specialists

ASRM: Main role is in counseling and providing preservation

#### <u>Psychosocial Team Members</u>

ASCO: Refer to psychosocial providers when distressed about potential infertility

ASRM: A collaborative multidisciplinary team approach is encouraged.

### **Key Questions**

What are the ethical and logistical aspects?

#### <u>Disposition of Stored Gametes, Embryos</u> <u>and Gonadal Tissue</u>

Instructions should be specified about the disposition of stored gametes, embryos or gonadal tissue in the event of the patient's death, unavailability or other contingency. Minors should update directions when they reach age of majority.

#### **Minors with Cancer**

Parents may act to preserve the fertility of cancer patients who are minors and when the intervention is likely to provide potential benefits to the child.

Assent of the child should be obtained if possible

Unless written instructions state otherwise, gametes should be discarded if the child does not survive to adulthood.





The discussions should be documented in the medical chart. (ASCO)



# Moving Forward: Guidelines 2023?

- Is it important to clarify risk of AOF vs. POI?
- What are the genetic factors in infertility risk?
- What is the utility of GnRHa in populations other than early stage breast cancer?
- To whom and when should gonadal tissue cryopreservation be offered? Will it lose the experimental label?
- Importance of a navigator

# www.echo.rhoinstitute.org



#### Are you:

- A psychologist or counselor, social worker, nurse, or APP who works with cancer patients ages 15-45?
- Interested in learning about fertility preservation, sexual health, contraception, and psychosocial issues?



#### What is ECHO?

Enriching Communication Skills for Health Professionals in Oncofertility (ECHO) is a webbased training program focusing on building communication skills

#### **Training Topics**

- · Risk of infertility
- Fertility preservation
- Sexual functioning
- Body image
- Ethical, social, and cultural considerations



#### Why participate?

- •17.75 FREE continuing education credits from APA, ASWB, ANCC, and AAPA
- •Free educational materials •Training facilitated by a national team of experts
- •Certificate of completion



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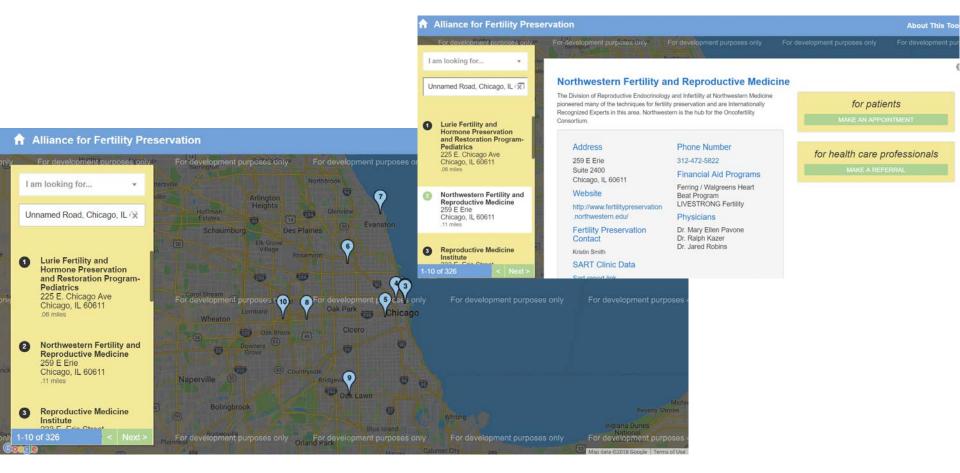
Interested learners should submit their application on www.echo.rhoinstitute.org. Deadline to apply is November 25, 2018.

#### **Contact Information**

For additional information or questions, please contact us at: Phone: (813)745-6941 <u>Email:ECHO@Moffitt.org</u> Web: <u>www.echo.rhoinstitute.org</u>

ECHO is funded by a National Cancer Institute R25 Training Grant:5R25CA142519-02

#### www.allianceforfertilitypreservation.org





# Thank you!

