# Fertility Preservation: Clinical & Coverage Concerns Paula Amato, MD, Oregon Health & Science University Joyce Reinecke, JD, Alliance for Fertility Preservation

**Disclosures** 

None

# Disclaimer

The codes given in this presentation are codes for fertility preservation and laboratory procedures compiled by the ASRM Coding Committee. The CPT codes listed are standard for ART procedures. While we have listed codes relevant to fertility preservation, this list is not exhaustive of all procedures.

WPATH Training 2021

2

Gender Transition and Fertility

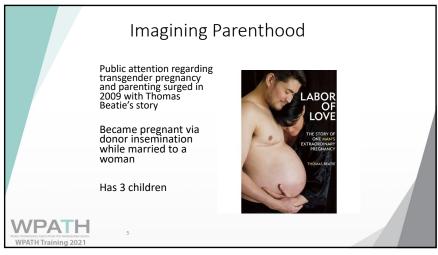
Everyone should understand fertility preservation options before beginning medical transition to consider how to protect fertility.

WPATH and the Endocrine Society both recommend that all transgender patients be counseled regarding the options for fertility preservation prior to transition.

Fertility in Trans Communities

- Not enough research and data on fertility preservation in transgender communities
- Many transgender persons desire children
   62% of transmen (Wierckx et al, '12)
- Cross-hormone therapy and gender-affirming surgery (eg. gonadectomy) may result in loss of fertility; may be reversible or irreversible
- The majority of transgender persons are of reproductive age at the time of transition and have relationships after transition

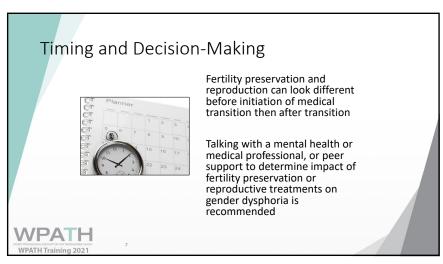
WPATH Training 202



Health Considerations

Factors in successful fertility preservation and reproduction:

Age
Diet and nutrition/weight
Smoking
Alcohol and drug use
History of STI's
Previous reproductive problems



Transfeminine Fertility Preservation Options

• Sperm cryopreservation

• Testicular sperm extraction (TESE)

• Testicular tissue preservation

• experimental in prepubertal boys

# Transmasculine Fertility Preservation Options

- Oocyte and/or embryo cryopreservation
  - using partner or donor sperm
  - success rate is age-dependent and freeze methoddependent e.g., vitrification vs. slow freeze
- Ovarian tissue cryopreservation
  - No longer "experimental"
  - several live births worldwide
- · In-vitro oocyte maturation (experimental)



Reproductive Options for Transgender Persons

- Usually requires discontinuation of exogenous hormones (unless using cryopreserved gametes in a partner) (how long?)
- Time to return to fertility is variable; may be irreversible
- Impact of a history of long-term exogenous hormone exposure on gametes and/or resulting offspring is unknown

WPATH

10

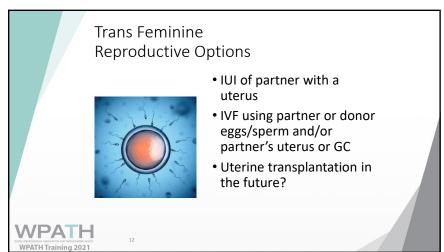
# Trans Masculine Reproductive Options

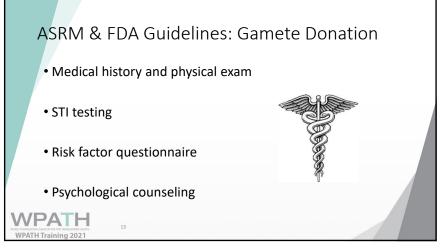
- IUI (using partner or donor sperm)
- IVF (using own or partner's eggs; using own or partner's uterus or GC)





11





Access to Fertility Services

• No data on transgender persons specifically
• Non-discrimination laws vary by jurisdiction

14

13



Perinatal, Pregnancy, and Parenting Issues

Web-based survey
41 transmen; 61% had used T
80% resumed menses w/in 6 months
88% cases used own eggs
2/3 of pregnancies were planned
7% used fertility meds
Similar OB outcomes in T and non-T users
Desire for supportive resources
Lack of provider awareness and knowledge

# Clinical Summary

- Many transgender persons desire children and are of reproductive age at the time of transition
- Transgender persons should be offered fertility preservation prior to cross-sex hormone therapy and gender-affirming surgery
- Transgender persons should have access to fertility services
- Multidisciplinary team approach
- · Research should be encouraged



18

WPATH

# Defining fertility preservation

Fertility preservation is the process of saving or protecting eggs, sperm, or reproductive tissue so that a person can use them to have biological children in the future.

-AFP and NICHD

latrogenic Infertility: An impairment of fertility by surgery, radiation, chemotherapy or other medical treatment or intervention affecting reproductive organs or processes.

- · Potential side effect of necessary medical treatment
- · Underlying diagnosis for another disease or condition
- · Does not include:
- · "Elective" egg freezing for naturally arising diminished ovarian reserve or aging
- · Treatment for a diagnosis of infertility itself, e.g., procedures/medications to cause a pregnancy such as

17

# Who needs fertility preservation?

# Trans Population:

- Before gender-affirming surgery; removal of the testicles or ovaries causes permanent infertility
- Possibly before beginning cross-hormone therapy; may cause temporary infertility, but long-term fertility impacts not known; FP later would require cessation of hormone treatment and possible

## Cancer Patients:

- Before chemotherapy, radiation, and/or surgery affects gametes and/or reproductive organs
- Maintenance therapies and/or late effects of treatment may create incompatibility with pregnancy

- Sickle cell disease or some hematologic conditions especially if bone marrow transplant is required
- Prior to prophylactic surgery, e.g., oophorectomy; hysterectomy
- Emerging: to screen and avoid genetic conditions

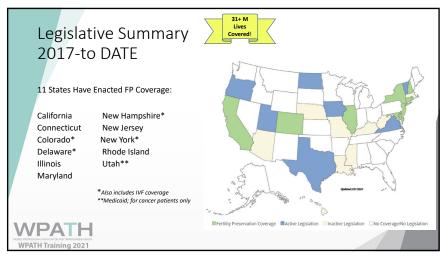
# Studies:

- In trans and cancer populations: participants identify genetic parenthood as a concern
- In young adult cancer survivors, unaddressed infertility is associated with higher levels of anxiety, depression, and lower Q of L



19

Fertility Procedure/Option	Average Cost
ocyte/Embryo Cryopreservation	\$10,000 - \$15,000
varian Tissue Cryopreservation*	\$10,000 - \$12,000
Sperm Banking/FDA Testing	\$1,000
Testicular Tissue Freezing**	\$2,500
Intrauterine Insemination (IUI)	\$400
Nitro Fertilization (IVF) (Cycle)	\$15,000
Donor Sperm (Vial)	\$400
Donor Oocytes	\$25,000
Gestational Surrogacy	\$50,000 - \$100,000+



California Coverage



- 1st state to add stand-alone FP coverage
- · Based on state law: Knox Keene Act
- Insurers must cover BASIC HEALTH CARE SERVICES
- Bill "clarifies" existing coverage for those at risk for iatrogenic infertility

Los Angeles Times

Fertility options for cancer patients must be covered under new California law

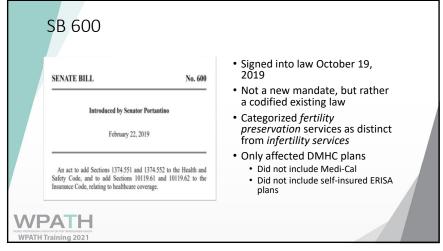
By MELODY GUTIERREZ | STAFF WRITER OCT. 13, 2019 | 8:02 AM

SACRAMENTO — California will require health insurance companies to cover the cost of fertility procedures for patients undergoing treatment that can make it difficult to have children, such as chemotherapy, under a bill signed by Gov. Gavin Newsom on Saturday.

21

22

WPATH



# SB 600 - Language

- SECTION 1.
- Section 1374.551 is added to the Health and Safety Code, to read:
- 1374.551.
- (a) When a covered treatment may directly or indirectly cause iatrogenic infertility, standard fertility preservation services are a basic health care service, as defined in subdivision (b) of Section 1345 and are not within the scope of coverage for the treatment of infertility for the purposes of Section 1374.55.
- (b) For purposes of this section, the following definitions apply:
- (1) "latrogenic infertility" means infertility caused directly or indirectly by surgery, chemotherapy, radiation, or other medical treatment.
- (2) "May directly or indirectly cause" means medical treatment with a possible side effect of infertility, as established by the American Society of Clinical Oncology or the American Society for Reproductive Medicine.
- (3) "Standard fertility preservation services" means procedures consistent with the established medical practices and professional guidelines published by the American Society of Clinical Oncology or the American Society for Reproductive Medicine.

WPATH Training 2021

24

# latrogenic Infertility

 "latrogenic infertility" means infertility caused directly or indirectly by surgery, chemotherapy, radiation, or other medical treatment.

# Surgery:

- Oophorectomy and/or Hysterectomy
- Orchiectomy

Other medical treatment:

Cross-sex hormones

WPATH WPATH Training 2021

WPATH

25

# Side Effect

 "May directly or indirectly cause" means medical treatment with a possible side effect of infertility, as established by the American Society of Clinical Oncology or the American Society for Reproductive Medicine.

Access to fertility services by transgender and nonbinary persons: an Ethics Committee opinion



Updated in 2021: Exogenous hormones and gonadectomy have well recognized impacts on fertility, and providers may encounter patients seeking fertility preservation and/or assisted reproduction.

WPATH WPATH Training 2021

26

# "Standard" Procedures

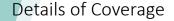
 "Standard fertility preservation services" means procedures consistent with the established medical practices and professional guidelines published by the American Society of Clinical Oncology or the American Society for Reproductive Medicine.

Access to fertility services by transgender and nonbinary persons: an Ethics Committee opinion

asrm

Updated in 2021:

Fertility preservation options include sperm, oocyte, and embryo cryopreservation as well as ovarian tissue cryopreservation. Prepubertal testicular tissue cryopreservation is considered investigational.



- Scope of coverage includes all procedures and medications that are "medically necessary" for fertility preservation
- Fertility consultation
- · Sperm analysis, banking, and freezing
- Ovulation induction, monitoring, oocyte retrieval, freezing of oocytes or fertilization and freezing of embryos
- · Storage of frozen tissues

- · Specifics of coverage not established:
- Number of sperm specimens banked;
- Number of egg maturation and collection cycles;
- Medications:
- · Lab work; embryology; screening of embryos, etc.
- · Duration of storage

DMHC regulations pending



28

# Fertility preservation coding Two codes are available to practitioners for billing in these scenarios. Z codes are a special group of codes provided in ICD-10-CM for the reporting of factors influencing health status and contact with health services. The diagnosis is included as a Z code because the actual code for the underlying cancer diagnosis cannot be used while counseling or providing management for fertility preservation.

**Z31.62** Encounter for fertility preservation counseling
This code includes encounter for fertility preservation *counseling* prior to cancer therapy and prior to surgical removal of gonads. Although the wording as above may imply cancer treatment or removal of gonads, these are meant as examples and this code can be used for elective fertility preservation for non-cancer or surgical removal of gonads patients as well. This code should be used whenever an E/M component is involved, such as initial visit or subsequent counseling/management visits.

# Z31.84 Encounter for fertility preservation procedure

This code includes encounter for fertility preservation procedure prior to cancer therapy and prior to surgical removal of gonads. As noted above, although the wording may imply cancer treatment or removal of gonads, these are meant as examples and this code can be used for elective fertility preservation for non-cancer patients as well. This code should be used whenever a procedure is being performed such as

Any other relevant diagnosis code should be used (ASRM Coding Cmte)



29

FP :	and ART CPT codes		
	Ovulation Induction	CPT Codes	
	Injection, chorionic gonadotropin, per 1,000 USP units	10725	
	Injection, urofollitropin, 75 IU	J3355	
	Injection, menotropins, 75 IU	S0122	
	Injection, follitropin alfa, 75 IU	S0126	
	Injection, follitropin beta, 75 IU	S0128	
	Injection, ganirelix acetate, 250 mcg	S0132	
	Management of ovulation induction (interpretation of diagnostic tests and studies, non face-to-face medical management of the patient), per cycle	S4042	
	Storage (per year)	CPT Codes	
	Storage; oocyte(s)	89346	
	Storage; embryo(s)	89342	
	Storage; sperm/semen	89343	
	Storage; reproductive tissue, testicular/ovarian	89344	
WPATH Training 20	221	11	

FP and ART CPT codes **Advanced Reproductive/Fertilization Services** CPT Code 89337 Cryopreservation, mature oocyte(s) 0357T Cryopreservation; immature oocyte(s) Cryopreservation; embryo(s) 89258 Cryopreservation; sperm 89259 Cryopreservation; reproductive tissue, ovarian 0058T Cryopreservation; reproductive tissue, testicular 89335 Follicle puncture for oocyte retrieval, any method 58970 Ultrasonic guidance for aspiration of ova, imaging supervision 76948 and interpretation Culture of oocyte(s)/embryo(s), less than 4 days 89250 Culture of oocyte(s)/embryo(s), less than 4 days; with co - culture of 89251 oocyte(s)/embryos Assisted embryo hatching, microtechniques (any method) 89253 Oocyte identification from follicular fluid 89254 Sperm identification from aspiration (other than seminal fluid) 89257 89264 Sperm identification from testis tissue, fresh or cryopreserved Extended culture of oocyte(s)/embryo(s), 4 - 7 days 89272

30



