



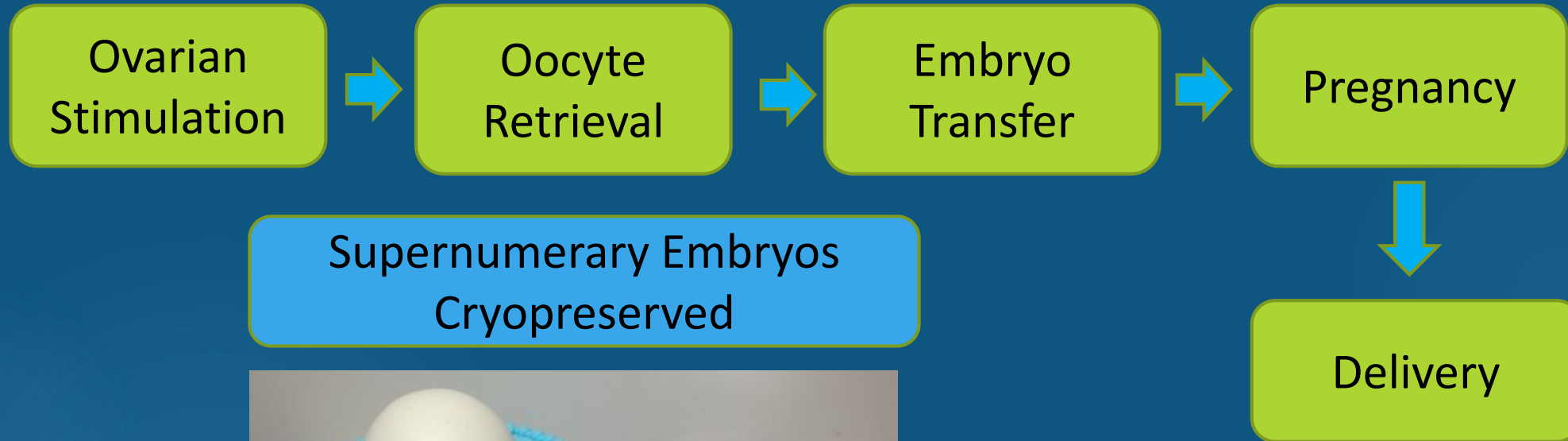
Society For Assisted
Reproductive Technology

ART reporting

Dissecting the New SART Reporting System

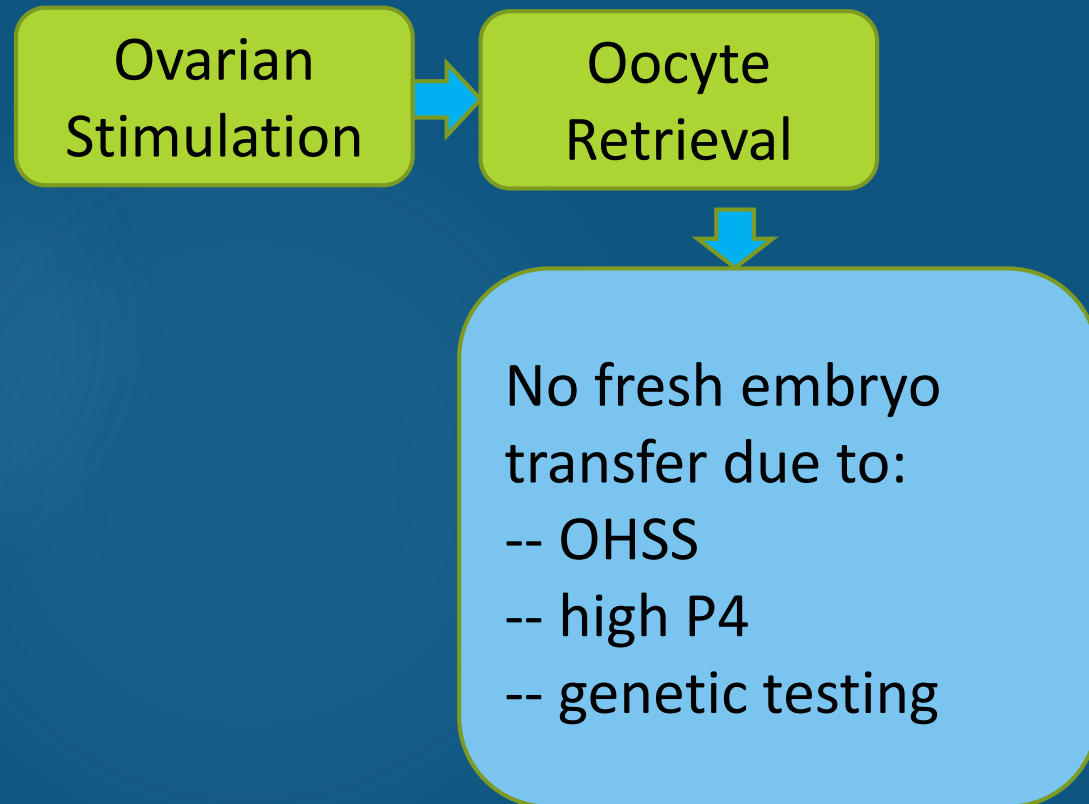
Amy Sparks, PhD, HCLD
University of Iowa

Treatments have evolved



Reporting Problems

Penalties for freeze all cycles:



OLD SART Report

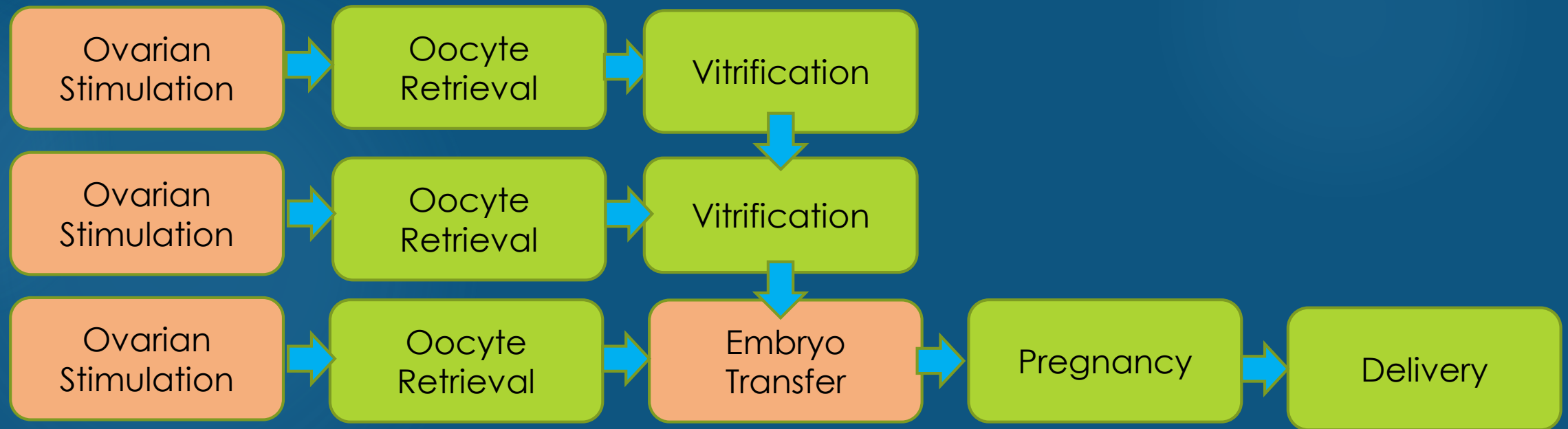
Fresh cycle =
No Pregnancy

CDC ART Report

Fresh cycle is
excluded from the
report

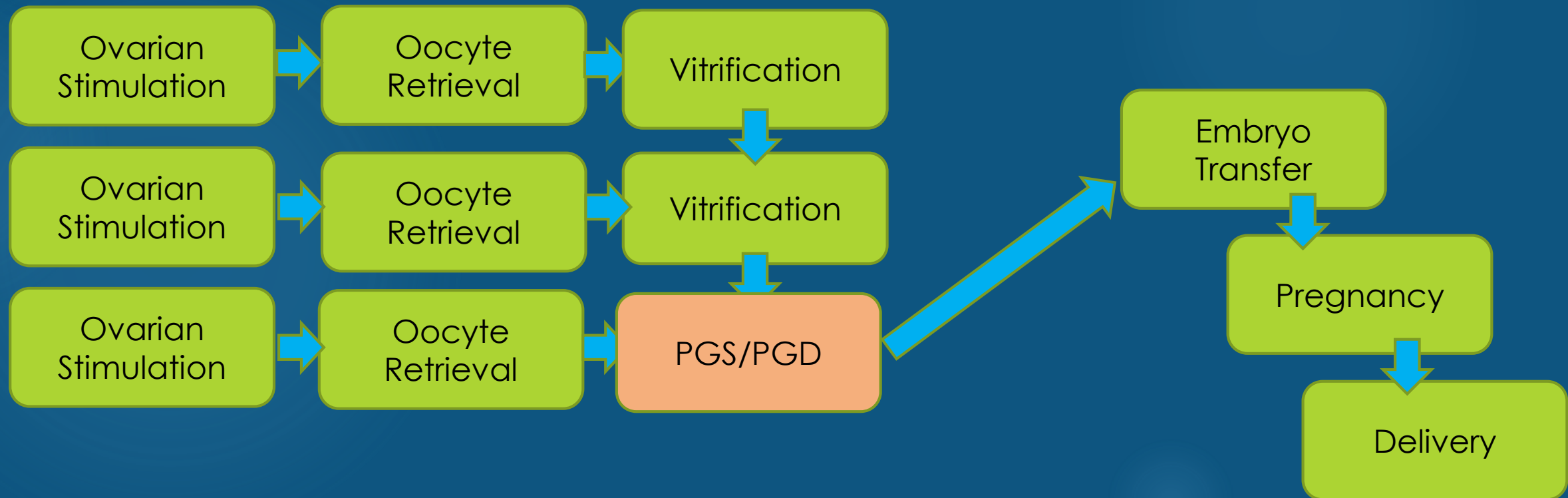
Reporting Problems

Embryo accumulation for low response



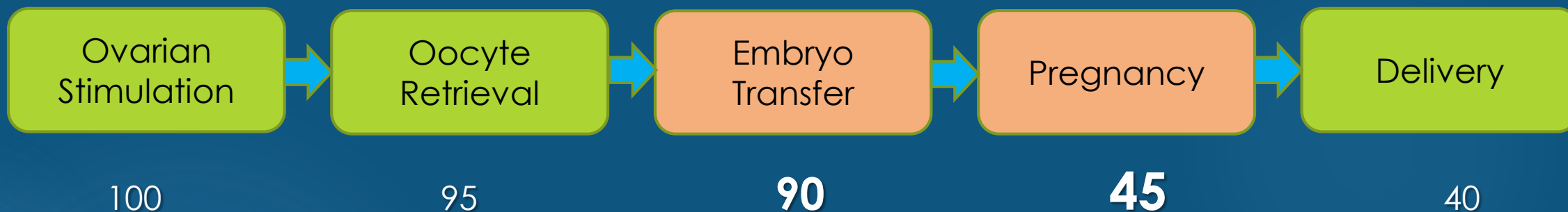
Reporting Problems

Embryo accumulation for genetic testing

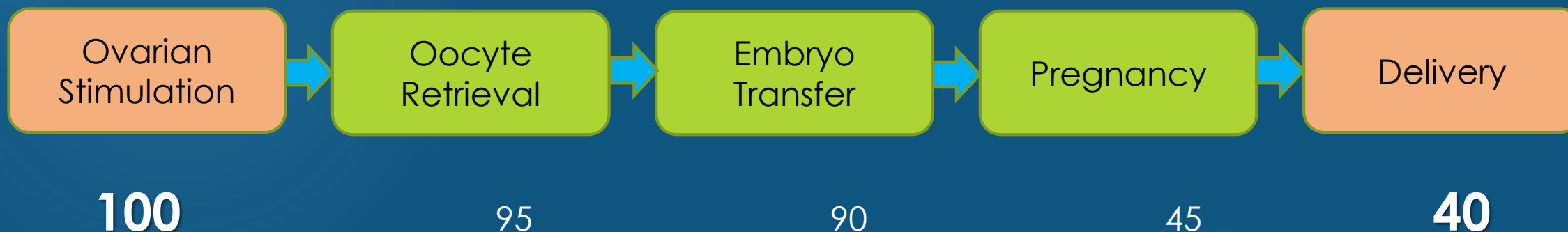


Reporting Problems

What clinics want to report:



What patients want to know:



Fertility Clinic Success Rate and Certification Act



The FCSRCA mandates that all ART clinics report pregnancy success rates data to the CDC in a standardized manner



SART Clinic Summary Report

- *version 2.0*

The NEW SART CSR

- ▶ Comprehensive view of outcomes from cycles initiated for egg retrieval during a reporting year.
- ▶ Emphasis place on singleton live birth rate per cycle start
- ▶ No penalty for delayed transfer (freeze all)
- ▶ Each stimulation counts
- ▶ Total chance of delivery per cycle
- ▶ Total chance of delivery per patient

Cycle Start
(prospectively reported +/- 4 days)

Cycle Cancelled

Egg Retrieval

No Transfer

1st Embryo Transfer
(Fresh or Frozen)

No Live Birth

Live Birth

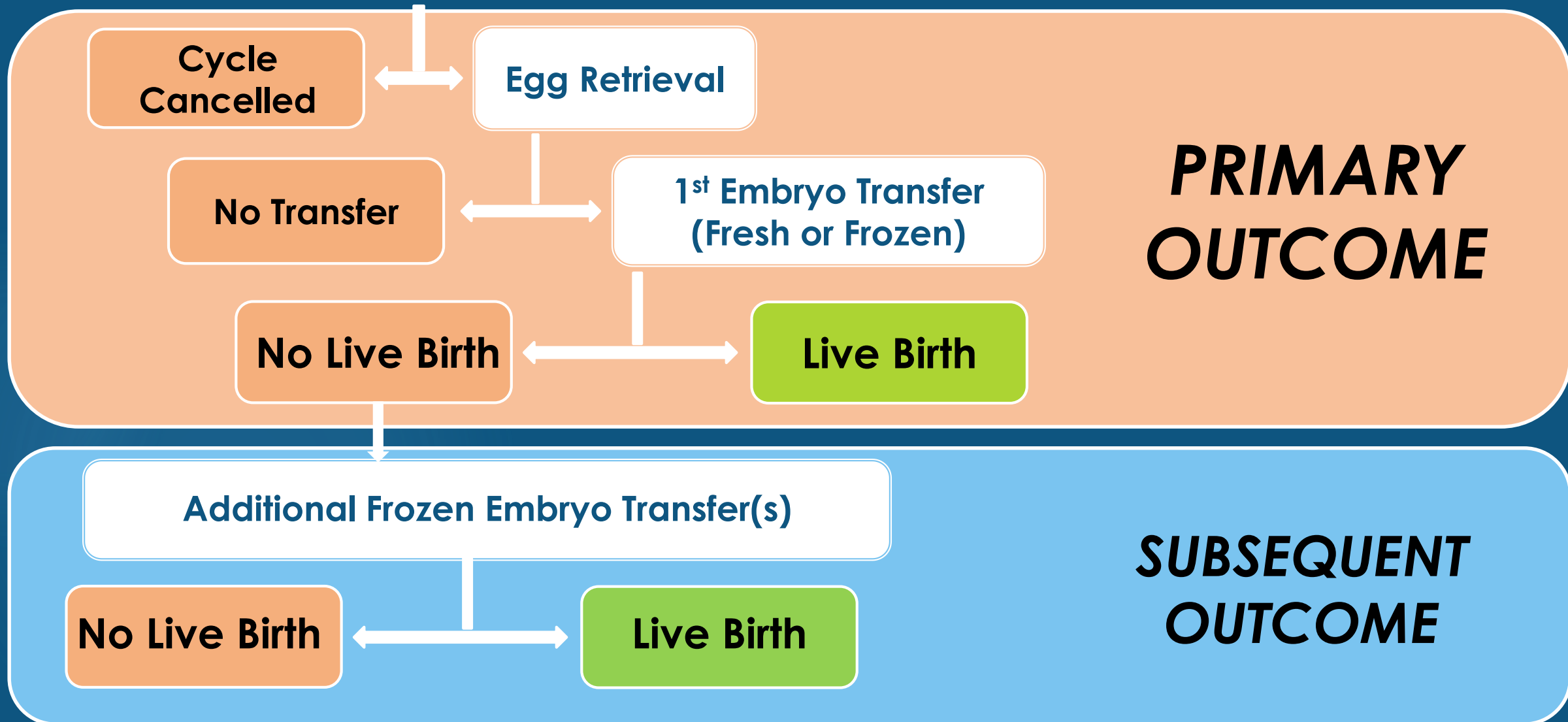
**PRIMARY
OUTCOME**

Additional Frozen Embryo Transfer(s)

No Live Birth

Live Birth

**SUBSEQUENT
OUTCOME**



Cycle Start for Egg Retrieval



No Live Birth

Live Birth

**CUMULATIVE
OUTCOME**

Maximum of 1 Live Birth per cycle start for egg retrieval.

*The cumulative live birth rate will **not** exceed 100%*

Have you seen the new Clinic Specific Report (launched 2016)?

- A. Yes and I have a good understanding of how treatment outcomes are presented.
- B. Yes but I have no idea how to interpret the report.
- C. No, I had no idea that there was a new Clinic Specific Report.

Select one option below that best describes the reason you are access the Clinic Specific Report:

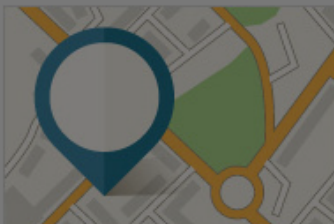
- A. I use this to compare our center's outcomes to the national average.
- B. I use the Clinic Specific Reports when counseling patients who are seeking care outside of my region.
- C. I use the Clinic Specific Report for patient counseling in my clinic.
- D. I like to see how my center's outcomes compare to my competitors.



Print CSR

ADDRESS & HOURS

200 Hawkins Drive, Dept. of Obstetrics and
PFP/40012
Iowa City, IA 52242
(319) 356-8483



Website: <http://www.uihealthcare.org/Infertilitycare/>

Request information from this clinic

Please note

Accurate and complete reporting of ART success rates is complicated. Clinics may have differences in patient selection, treatment approaches, and cycle reporting practices which may inflate or lower pregnancy rates relative to another clinic. This report is best understood in consult with your physician.

Use of the data in the report for comparing clinics, ranking clinics, making insurance coverage decisions, discouraging patients from seeking care at a given clinic, or for any other commercial purposes is strictly prohibited. By accessing this report, you agree not to use the data in the report for any of the prohibited purposes, and you further agree to abide by the [SART Website Terms and Conditions of Use](#).

I agree to the limitations on use of the data in this report and agree to abide by the [SART Website Terms and Conditions of Use](#). OK

- ✓ Donor Embryo
- ✓ Gestational Carriers
- ✓ Cryopreservation
- ✓ Egg Cryopreservation
- ✓ Female Couple
- ✓ Male Couple
- ✓ Single Men
- ✓ Single Woman
- ✓ PGD/PGS
- ✓ Mental Health Services
- ✓ Service to Veterans

Embryo Banking Cycles Converted from Fertility Preservation: 0

Oocyte Banking Cycles Converted from Fertility Preservation: 0

Show less



All SART Member Clinics

Provide feedback on SART's new Clinic Summary Report



Preliminary CSR for 2014

2637 cycles reported as Delayed Outcome

Total Cycles: 188023

Embryo Banking for Fertility Preservation: 4992

Oocyte Banking for Fertility Preservation: 5709

UNDERSTAND THIS REPORT

This report is completely re-designed from the past. We did this to provide patients with outcomes that reflect changes in the way infertility is treated through IVF. In recent years, there has been increased emphasis on embryo cryopreservation, genetic testing, and single embryo transfer that was not adequately captured by the old reporting system. This report captures the treatment burden to the patient (the number of cycles) as well as the best outcome (delivery of a healthy child) by tracking outcomes over time for an individual, accounting for both fresh and frozen embryo transfers. We hope this will help you better understand the expected outcomes from Assisted Reproductive Technologies (ART). If you want to get a more personalized prognosis for your chances, please visit the [SART patient predictor](#).

Read more

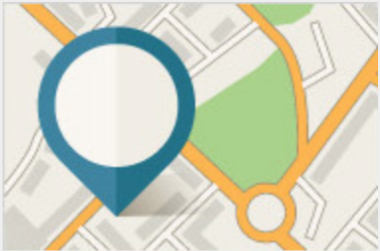


Atlanta Center for Reproductive Medicine

ADDRESS & HOURS

5909 Peachtree Dunwoody Rd, # 720
Atlanta, GA 30328

770 928-2276



Website: <http://www.acrm.com>

[Request information from this clinic](#)

SERVICES & PROFILE

Practice Director: Lisa A Hasty, M.D.

Medical Director: James P Toner, MD, PhD

Laboratory Director: Chad A Johnson, PhD, HCLD

- ✓ SART Member
- ✓ Verified Lab Accreditation

Services:

- ✓ Donor Egg
- ✗ Donor Embryo
- ✓ Gestational Carriers
- ✓ Cryopreservation
- ✓ Egg Cryopreservation
- ✓ Female Couple
- ✓ Male Couple
- ✓ Single Men
- ✓ Single Woman
- ✓ PGD/PGS
- ✓ Mental Health Services

▲ Show less

PATIENT SEVERITY INDEX

Why we don't provide information on patient characteristics per clinic:

It is understandable that patients would like to use SART clinic outcome reports both as a "report card" to judge quality of care and as a predictor of chance of success for each individual patient. Currently, the SART clinic summary reports cannot be used without context for either purpose.

[Read more](#)

Should clinics be able to use the data presented in the Clinic Specific Report to compare their outcomes to other clinics?

- A. Yes
- B. No



UNDERSTAND THIS REPORT

PATIENT'S OWN EGGS

DONOR EGGS

FILTER

Cumulative Outcome Per Intended Egg Retrieval

Primary Outcome Per Intended Retrieval

Subsequent Outcome (Frozen Cycles)

Live Birth Per Patient

PATIENT'S OWN EGGS

PRELIMINARY CUMULATIVE OUTCOME PER INTENDED EGG RETRIEVAL



	Age of woman				
	< 35	35 - 37	38 - 40	41 - 42	> 42
Number of cycle starts	40580	20965	20016	10691	8357
Singletons	30.6 %	20.0 %	20.0 %	10.7 %	3.4 %
Twins	11.8 %	8.1 %	4.1 %	1.5 %	0.3 %
Triplets or more	0.4 %	0.3 %	0.2 %	0.1 %	0.0 %
Live Births	48.7 %	38.3 %	24.3 %	12.3 %	3.7 %
(Confidence Range)	(48.2 - 49.2)	(37.7 - 39.0)	(23.7 - 24.9)	(11.7 - 12.9)	(3.3 - 4.1)



Cumulative Outcome Per Intended Egg Retrieval

Primary Outcome Per Intended Retrieval

Subsequent Outcome (Frozen Cycles)

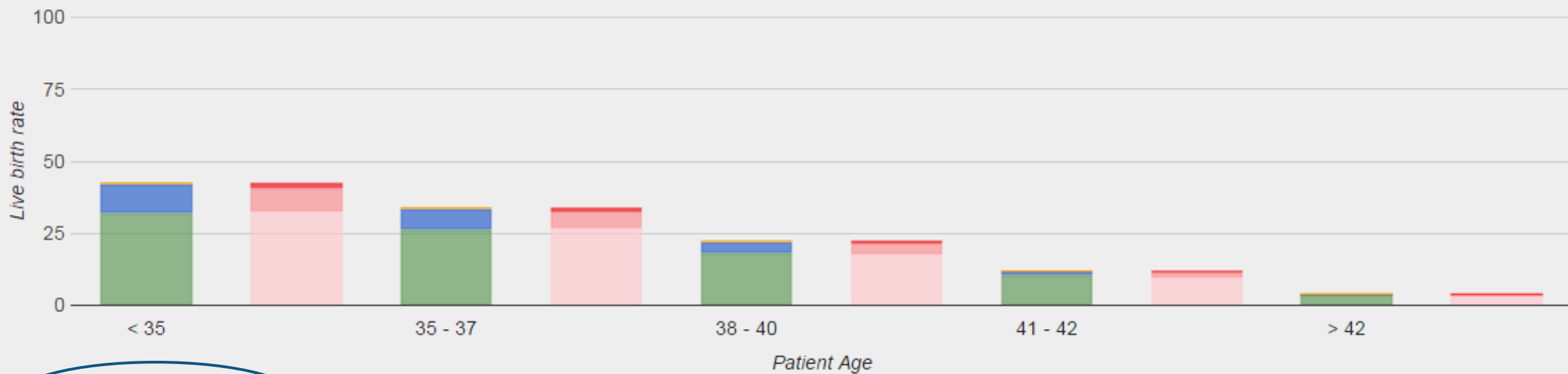
Live Birth Per Patient

PATIENT'S OWN EGGS

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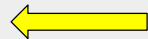
Compare number transferred

Triplet births ■ Very pre-term births ■
 Twin births ■ Pre-term births ■
 Singleton births ■ Term births ■

▼ Show Cycle characteristics



▼ Show Pregnancy outcomes

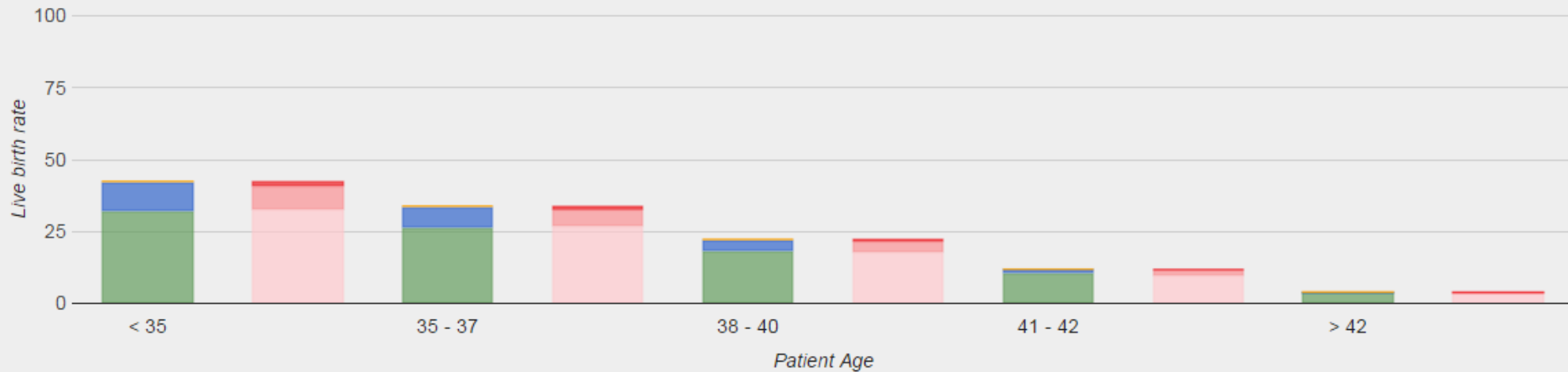


Cumulative Outcome Per Intended Egg Retrieval

Primary Outcome Per Intended Retrieval

Subsequent Outcome (Frozen Cycles)

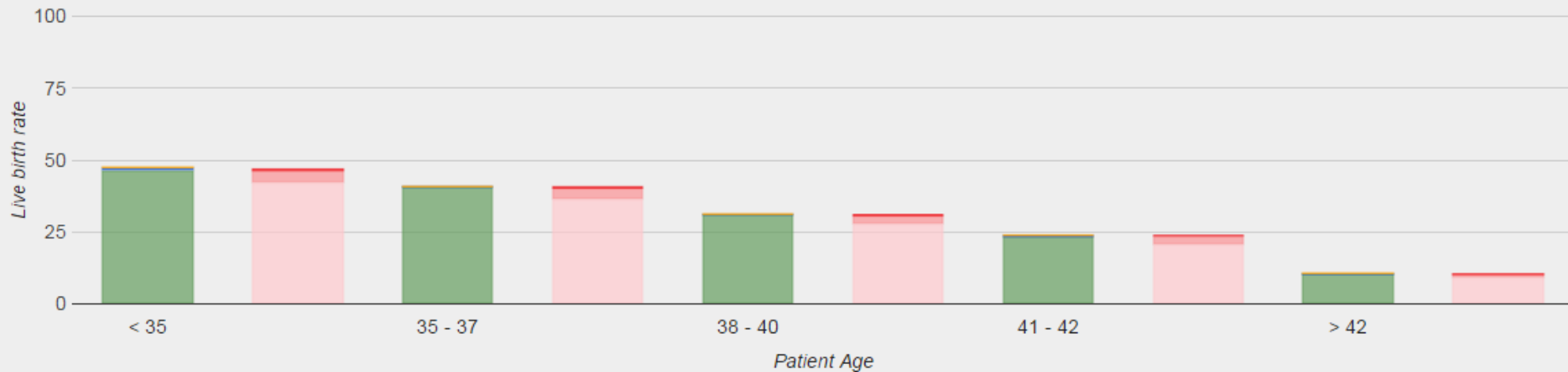
Live Birth Per Patient



Compare number transferred

Triplet births ■ Very pre-term births ■
 Twin births ■ Pre-term births ■
 Singleton births ■ Term births ■

Select # embryos transferred:





Cumulative Outcome Per Intended Egg Retrieval

Primary Outcome Per Intended Retrieval

Subsequent Outcome (Frozen Cycles)

Live Birth Per Patient

Patient Age

Hide Cycle characteristics

Age of woman

< 35

35 - 37

38 - 40

41 - 42

> 42

Number of cycle starts

41304

21518

20551

10988

8621

Number of retrievals

39006

19723

18302

9483

7216

Cancelled cycles

5.6 %

8.3 %

10.9 %

13.7 %

16.3 %

Retrievals with no embryos suitable for transfer

3.7 %

6.1 %

10.2 %

15.8 %

23.2 %

Mean number of embryos transferred

1.0

1.8

2.0

2.4

2.0

eSET % (elective Single Embryo Transfer)

32.4 %

23.0 %

15.3 %

11.0 %

10.3 %

Hide Pregnancy outcomes

Age of woman

	< 35	35 - 37	38 - 40	41 - 42	> 42
Number of cycle starts	41304	21518	20551	10988	8621
Positive pregnancy test	57.3 %	48.4 %	36.9 %	24.8 %	11.7 %
Clinical pregnancies	49.0 %	40.7 %	29.6 %	18.7 %	7.6 %
Miscarriage rate	11.6 %	14.7 %	22.4 %	33.4 %	45.1 %
Number of retrievals	39006	19723	18302	9483	7216
Live birth per retrieval	45.1 %	36.9 %	25.0 %	13.8 %	4.7 %
Positive pregnancy test	60.6 %	52.7 %	41.3 %	28.6 %	13.9 %
Clinical pregnancies	51.8 %	44.3 %	33.2 %	21.6 %	9.1 %
Number of transfers	35634	17075	14309	6484	3963
Live birth per transfer	49.3 %	42.7 %	32.0 %	20.2 %	8.5 %
Positive pregnancy test	66.3 %	60.8 %	52.8 %	41.9 %	25.3 %
Clinical pregnancies	56.7 %	51.2 %	42.4 %	31.6 %	16.6 %
Implantation rate	42.6 %	34.4 %	23.5 %	13.2 %	5.6 %

Cumulative Outcome Per Patient

(Frozen Cycles)

Live Birth Per Patient

PRELIMINARY

RETRIEVAL

Number of cycle starts

Singletons

Twins

Triplets or more

Live Births

(Confidence Range)

Term

Pre-term

Very pre-term

Filter Report



ⓘ Filters cannot be applied to the 'Cumulative Outcome Per Intended Egg Retrieval' and 'Live Birth Per Patient' sections. These sections will be hidden if a filter has been applied.

Reporting Year:

2014

Diagnosis:

All Diagnoses

Cycle Type:

All cycle types

Minimal stimulation

Natural cycle

Conventional stimulation

In vitro maturation

Additional Filters:

INCLUDE ONLY

EXCLUDE

First IVF

eSET

PGD / PGS

Day 5/6 transfer

Frozen egg

Frozen embryo

Gestational carrier

ICSI

41 - 42

> 42

10691

8357

10.7 %

3.4 %

1.5 %

0.3 %

0.1 %

0.0 %

12.3 %

3.7 %

(1.7 - 12.9)

(3.3 - 4.1)

5 %

84.6 %

5 %

12.5 %

0 %

2.9 %


Apply filter

Reset filter

Cancel

All SART Member Clinics

Provide feedback on SART's new Clinic Summary Report

 **Preliminary CSR for 2014**

2637 cycles reported as Delayed Outcome

Total Cycles: 188023

Embryo Banking for Fertility Preservation: 4992 | Oocyte Banking for Fertility Preservation: 5709

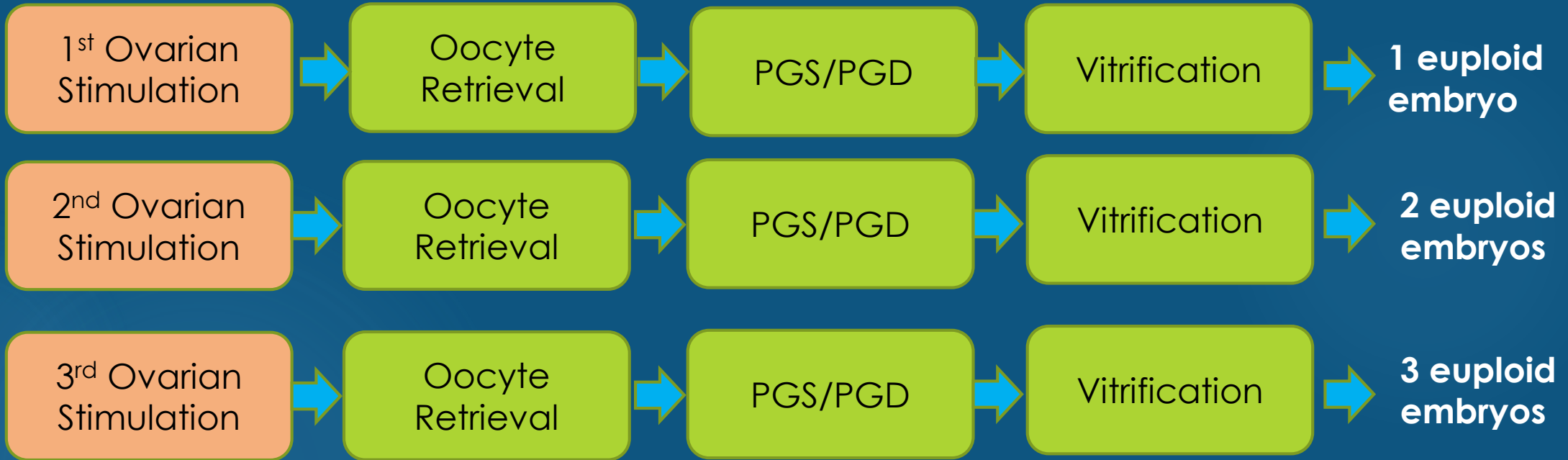
What cycles qualify as fertility preservation?

Fertility Preservation

Cycles that are initiated with no intention of performing embryo transfer within the next 12 months. The intent of treatment **MUST** be clearly documented in the medical record.

Fertility preservation cycles must be prospectively reported. (You cannot decide to call a cycle fertility preservation after the prospective reporting deadline.)

New Reporting



Note

- ▶ SART Validation Committee now selecting clinics on "outlier" basis, such as:
 - ▶ No cancellations
 - ▶ High rates of conversion from long term banking
 - ▶ High rates of fertility preservation with embryo banking
- ▶ Prospective reporting rates will go live with the 2016 data
- ▶ In FET cycles, PGS/PGD has to be indicated even if embryos are pulled from cycle already identified as including PGS

Changes to Data Collection



- ▶ More fields
- ▶ Adding value to SARTCORs for SART members

History

Clinic Index

Clinic Cycle Id

Clinic Patient Id

Patient History

Gravidity

Surgical Sterilization

Biochemical Pregnancies

Prior Spontaneous Abortions

Prior Preterm Births (< 37 wks)

Prior Full Term Births (>=37 wks)

Prior Still Births

Prior Ectopic Pregnancies

Therapeutic Abortions

Smoked 3 Months Prior to Start

Months Attempting Pregnancy Since Last Clinical Pregnancy

Patient Height inches

Patient Weight

Height Unknown

Weight Unknown

[Save and go to Cycle List](#)

[Undo Changes \(this form\)](#)

[Complete Cycle](#)

[Next Tab >](#)

Reason for ART

Male Infertility

Medical Condition

Genetic or chromosomal abnormality

Specify:

Abnormal sperm parameters

Azoospermia, obstructive

Azoospermia, non-obstructive

Oligospermia, severe (< 5 million / mL)

Oligospermia, moderate (5 - 15 million / mL)

Low Motility (< 40%)

Low Morphology (4 %)

Very Severe Male Factor (< 1 million)

Other male factor

Specify:

History of Endometriosis

Tubal Ligation (Not Reversed)

Tubal Hydrosalpinx (In Place)

Communicating

Occluded

Unknown

Other Tubal Disease

Uterine

Ovulation Disorders

PCOS

Hypothalamic Amenorrhea

Diminished Ovarian Reserve

Other ovulation disorders

Oocyte or embryo banking

Indication for use of gestational carrier

Absence of uterus

Significant uterine anomaly

Medical contraindication to pregnancy

Recurrent pregnancy loss

Unknown

Recurrent pregnancy loss

Other

Other (Genetic PGT)

Other (Non-Infertile)

Specify:

Unexplained (clears all diagnoses)

Patient Medication

Start Date

Clomiphene

Other Medication

GnRH Agonist Flare

FSH IUs

Ovulation Trigger

Agonist Suppression

Medication with LH/HCG Activity

Unstimulated

Antagonist Suppression

Tamoxifen

Minimal Stimulation

- Not Entered
- Not Entered
- HCG Only
- GnRH Agonist Only
- Both HCG/GnRHa
- No Trigger Used
- Other

Aromatase Inhibitors

ART Treatment

Cycle occurred as intended

Cycle Type

Cycle Type Details

Oocyte Source

- Autologous*
- Donor Oocyte*
- Donor Embryo*

Oocyte/Embryo State

- Fresh Embryo*
- Thawed Embryo*
- Thawed Oocyte*

Transfer Method

- Transcervical (IVF)*
- Zygotes to tubes (ZIFT or TET)*
- Gametes to Tubes (GIFT)*

Long Term Banking for Fertility Preservation

- Oocyte Banking for Fertility Preservation Only*
- Embryo Banking for Fertility Preservation Only*

Short-Term Freeze-All

- Thaw for Refreeze*
- Delay of transfer to obtain genetic information (Fresh Only)*
- Delay of transfer for other reasons (Fresh Only)*

- Gestational Carrier*
- Converted From IUI*
- Invitro Maturation*

Research

Micromanipulation and Fertilization

Intracytoplasmic Sperm Injection All Mature Oocytes ▼

ICSI Indication (Check all that apply)

- | | |
|--|--|
| <input type="checkbox"/> <i>Prior Failed Fertilization</i> | <input type="checkbox"/> <i>Laboratory Routine</i> |
| <input type="checkbox"/> <i>Prior Poor Fertilization</i> | <input type="checkbox"/> <i>Frozen Oocytes</i> |
| <input type="checkbox"/> <i>PGT</i> | <input type="checkbox"/> <i>Rescue ICSI</i> |
| <input checked="" type="checkbox"/> <i>Abnormal Semen Parameters</i> | <input type="checkbox"/> <i>Other</i> |
| <input type="checkbox"/> <i>Low Oocyte Yield</i> | |



Pre-implantation Genetic Testing All Embryos ▼

PGT Indication (Check all that apply)

- Either genetic parent is a known carrier of a gene mutation or a chromosomal abnormality*
- Single Gene Analysis*
- Aneuploidy Screening for Advanced Age*
- Aneuploidy Screening for Recurrent Miscarriage*
- Aneuploidy Screening for Recurrent IVF Failure*
- Desired eSET*
- Elective PGT*
- Aneuploidy Determination, Balanced Translocation*
- Gender Determination/X-Linked Disease*
- Elective Gender Determination*
- HLA 'typing' with Determination of Specific Gene Mutation*
- HLA 'typing' without Specific Gene Mutation Evaluated*
- Other*

Embryos Biopsied 6 ▼

Embryos Diagnosed 6 ▼

Number Suitable For Transfer 2 ▼

- Genetic Analysis Performed on Products of Conception, Amniotic Fluid, Chorionic Villi, Fetus or Livebirth*

PGT Technique (Check all that apply)

- Polar Body Biopsy*
- Blastomere Biopsy (Cleavage Stage)*
- Trophectoderm Biopsy (Blastocyst)*
- Unknown*

Test Method (Check all that apply)

- Array CGH*
- Metaphase CGH*
- PCR*
- NGS*

FAQs

Q: Why are some of our cycle starts for egg retrieval omitted from the Primary or Cumulative outcome tables of the preliminary report?

A: DELAYED CYCLES

Q: How can I get to our frozen embryo transfer outcomes?

A: Use the filter, look at data in the primary and subsequent tables.

PRELIMINARY PRIMARY OUTCOME PER INTENDED RETRIEVAL



	Age of woman			
	< 35	35 - 37	38 - 40	41 - 42
Number of cycle starts	222	164	129	64
Singletons	35.1 %	28.7 %	32.0 %	21.0 %
Twins	21.6 %	21.3 %	4.7 %	6.2 %
Triplets or more	0.9 %	1.2 %	0 %	0 %
Live Births	57.7 %	51.2 %	37.2 %	28.1 %

Type of ART and Procedural Factors ^a				Patient Diagnosis ^b				
IVF	100%	With ICSI	77%	Tubal factor	6%	Uterine factor	2%	Multiple Factors
Unstimulated	7%	PGD/PGS	15%	Ovulatory dysfunction	7%	Male factor	22%	Female factor
Used gestational carrier	2%			Diminished ovarian reserve	28%	Other factor	30%	Female factor
				Endometriosis	7%	Unknown factor	14%	

2014 ART SUCCESS RATES^c

Total number of cycles^d: 1,393 (includes 1 cycle[s] using frozen eggs)

Type of Cycle	Age of Woman			
	<35	35-37	38-40	41-42
Fresh Embryos from Nondonor Eggs				
Number of cycles	176	109	56	34
Percentage of cancellations before retrieval (%)	2.3	11.9	25.0	14.7
Average number of embryos transferred	1.8	1.8	1.6	1.7
Percentage of embryos transferred resulting in implantation (%)	61.9	54.4	50.0	6 / 16
Percentage of elective single embryo transfers (eSET) (%)	14.4	15.0	26.1	1 / 7
Outcomes per Cycle				
Percentage of cycles resulting in term, normal weight & singleton live births ^e (%)	31.3	22.9	21.4	8.8
Percentage of cycles resulting in singleton live births (%)	35.8	24.8	21.4	11.8
Percentage of cycles resulting in twin live births (%)	21.6	20.2	5.4	2.9
Percentage of cycles resulting in live births (%)	58.5	45.9	26.8	14.7

Would it be helpful if you could build your own queries?

[Clinic Summary Report \(2014 & Forward\)](#)[CDC Clinic Summary Report](#)[Legacy Clinic Summary Report](#)[Patient Reports](#)[Legacy Clinic Summary Detail Report](#)[All Fields Export](#)[CSR Audit Report](#)[Clinic Contact Report](#)[Query Engine](#)[Unlinked FET Cycles](#)[Review Comments](#)[Return to Main Menu](#)

Please Remember...



- ▶ This is version 1 and can/will be adjusted
- ▶ Feedback is needed and encouraged!

Many contributors including:

Kevin Doody, MD

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