



# Fertility Market Overview

MARCH 2022

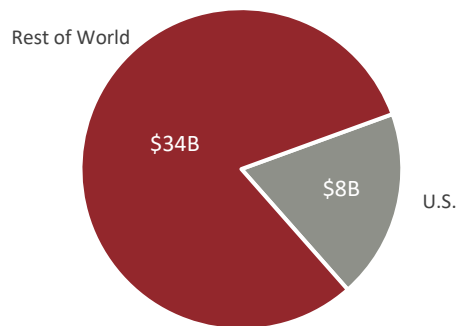
# The Appeal of the Fertility Services Industry

INVESTORS ARE HIGHLY INTERESTED IN THE FERTILITY SERVICES INDUSTRY DUE TO ITS LARGE SIZE, FRAGMENTATION, AND GROWTH OPPORTUNITIES.

- The U.S. fertility market is estimated to be \$8B across in-vitro fertilization (“IVF”), genetic testing, reproductive tissue storage, and donor services
  - Growing awareness of IVF and related services is creating an ever-larger addressable market opportunity; U.S. IVF services alone are estimated at >\$3B and projected to grow at a ~10%+ CAGR through 2025P
- Strong, long-term demand drivers including:
  - 1 Cultural shift to having children later in life, as well as lifestyle and health issues increasing incidences of infertility
  - 2 One of few healthcare service sectors in which clinical outcomes data are measured and reported, providing potential benefit to best-in-class providers
  - 3 Significant private pay component provides highly attractive reimbursement profile and insulation from pricing pressures relative to other healthcare sectors
  - 4 Highly recession-resistant demand due to parents’ desire to build families and the ticking of the biological clock
- Highly fragmented provider landscape primarily comprising of local / regional clinics; platforms of scale are able to leverage best practices, invest in leading technology, attract new physician partners and scientists, and improve operations

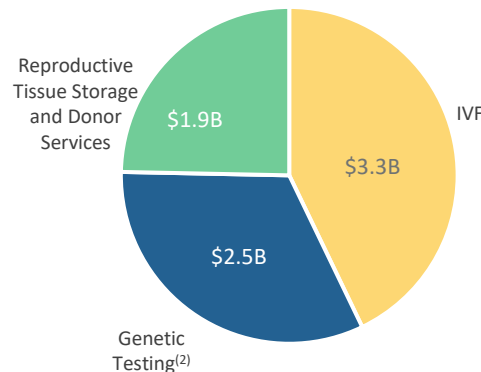
## GLOBAL FERTILITY SERVICES MARKET<sup>(1)</sup>

(2019 \$ in billions)



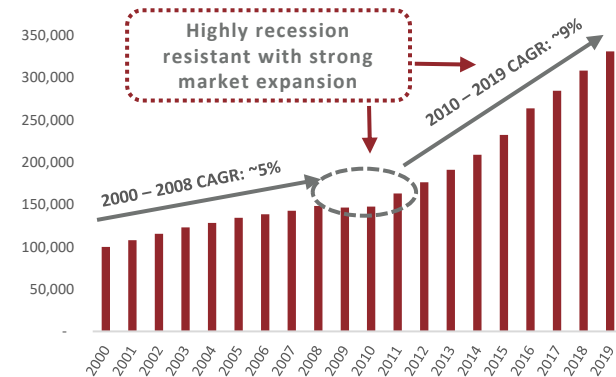
## U.S. FERTILITY SERVICES MARKET<sup>(1)</sup>

(2019 \$ in billions)



## STRONG, RECESSION-RESISTANT DEMAND<sup>(3)</sup>

ART Cycles Performed in the U.S.



# IVF vs. Other Fertility Treatment Methods

IVF IS ONE OF THE MOST SUCCESSFUL FERTILITY TREATMENTS AVAILABLE.<sup>(1)</sup>

- Most couples seeking fertility services explore multiple options with their physician, who develops a treatment plan that may consist of corrective surgery, natural cycle monitoring, ovulation induction, timed intercourse, IUI, and/or IVF
- IVF offers the highest success rates, a lower overall time to pregnancy, and greater applicability to a wider range of patients

In Vitro Fertilization (IVF)		Other Fertility Treatments																								
Description	<ul style="list-style-type: none"><li>• Involves fertilization of eggs in a laboratory setting after they have been removed from the ovaries</li><li>• Healthy embryo(s) is transferred back to the uterus to continue development</li></ul>	<ul style="list-style-type: none"><li>• Relies on medication, intrauterine insemination (IUI), or corrective surgery (hysteroscopy, laparoscopy, myomectomy, etc.) to aid in conception</li><li>• Can sometimes be a first step, particularly among younger women, prior to IVF</li></ul>																								
Advantages	<ul style="list-style-type: none"><li>• Greater control results in healthier babies and reduction in multiple births</li><li>• Addresses wide range of both male and female fertility issues, such as low sperm count and motility and damaged fallopian tubes</li></ul>	<ul style="list-style-type: none"><li>• Typically, less expensive than IVF</li><li>• Sometimes able to treat infertility less aggressively</li></ul>																								
Disadvantages	<ul style="list-style-type: none"><li>• More expensive on a per treatment basis, but patients who seek IVF first can save thousands of dollars and more quickly achieve a successful birth</li></ul>	<ul style="list-style-type: none"><li>• Often presents more risk than IVF, including higher chance of miscarriage, multiple births, and complications from surgery</li><li>• Several physical conditions, including abnormal fallopian tubes, make medication and injection treatments not possible to some patients facing infertility</li></ul>																								
Industry Average Cost <sup>(2)</sup>	<ul style="list-style-type: none"><li>• \$12,000 - \$25,000 per cycle (excluding medications, and assumes use of non-donor eggs on lower end); surrogacy can add \$60K-\$120K</li></ul>	<ul style="list-style-type: none"><li>• Ranges between \$100 - \$5,000 per treatment</li></ul>																								
Industry Avg. Success Rates (Pregnancy Rate per Cycle)	<div><div><p>Probability of Live Birth per IVF Cycle with Autologous Eggs<sup>(3)</sup></p><table><tr><th>Age</th><th>Probability of Live Birth per IVF Cycle with Autologous Eggs<sup>(3)</sup></th></tr><tr><td>&lt; 35</td><td>54.5%</td></tr><tr><td>35 - 37</td><td>40.3%</td></tr><tr><td>38 - 40</td><td>25.9%</td></tr><tr><td>41 - 42</td><td>13.4%</td></tr><tr><td>&gt; 42</td><td>4.1%</td></tr></table></div><div><p>Women across all ages are over 3x more likely to conceive with IVF compared to other treatments</p></div><div><p>Probability of Pregnancy Using Medication and IUI<sup>(4)</sup></p><table><tr><th>Age</th><th>Probability of Pregnancy Using Medication and IUI<sup>(4)</sup></th></tr><tr><td>&lt; 35</td><td>11.5%</td></tr><tr><td>35 - 37</td><td>9.2%</td></tr><tr><td>38 - 40</td><td>7.3%</td></tr><tr><td>41 - 42</td><td>4.3%</td></tr><tr><td>&gt; 42</td><td>1.0%</td></tr></table></div></div>		Age	Probability of Live Birth per IVF Cycle with Autologous Eggs <sup>(3)</sup>	< 35	54.5%	35 - 37	40.3%	38 - 40	25.9%	41 - 42	13.4%	> 42	4.1%	Age	Probability of Pregnancy Using Medication and IUI <sup>(4)</sup>	< 35	11.5%	35 - 37	9.2%	38 - 40	7.3%	41 - 42	4.3%	> 42	1.0%
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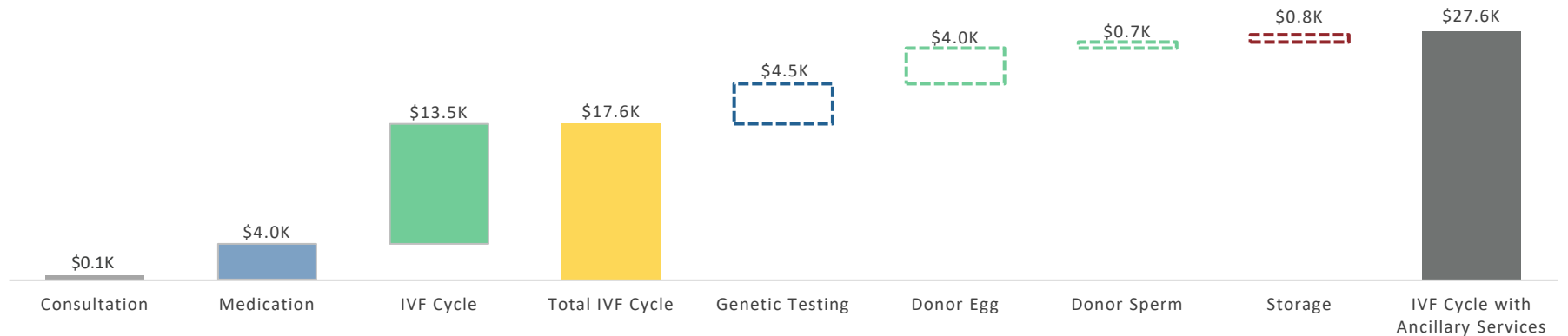
(1) Yale Medicine.  
(2) IBIS World Report on Fertility Clinics in the U.S., FertilityIQ, and Harris Williams proprietary data.

(3) Statistics based on publicly available SART data.  
(4) Statistics based on study published by Serena Dovey in Fertility and Sterility and shown for females who took fertility medication in conjunction with receiving Intrauterine Insemination (IUI).

# IVF Treatment Overview

THE TYPICAL COST OF AN IVF CYCLE RANGES AS PATIENTS CHOOSE THE MOST APPROPRIATE COMBINATION OF SERVICES THAT INCREASES THEIR LIKELIHOOD OF A SUCCESSFUL PREGNANCY.

## TYPICAL IVF SERVICES COST BREAKOUT<sup>(1)</sup>



### Consultation

Individuals who try to conceive naturally may face difficulties due to age, health conditions, or other inhibiting factors, driving them to seek fertility treatment

- Potential patients are referred to consultation visits by other physicians, or through direct-to-consumer marketing efforts
- Physician practices perform consultations for patients
- Physician determines diagnosis and discusses goals/family planning with patients. Initial assessment may include carrier screening
- Physician develops treatment plan, which may include IVF initially or after other treatment options fail

### Fertility Medication

Often used in combination with other fertility treatments, including IUI and IVF

### IVF

Patients choose IVF for various reasons, including:

- Medical indications (e.g. blocked tubes, severe endometriosis, pelvic adhesions)
- Prior treatments were unsuccessful
- Screen familial genetic conditions or prior recurrent pregnancy loss (using PGT-M or PGT-A in conjunction with IVF)
- Option of using donor egg and/or donor sperm

If the patient proceeds with IVF, the physician will retrieve the patient's oocytes for assessment and will fertilize oocytes with sperm and culture the resulting embryos

### Preimplantation Genetic Testing

Screens for detectable genetic defects prior to selecting and transferring an embryo, which drives higher single embryo transfer and implantation rates

### Donor Services

Allows patients to utilize egg and/or sperm donors

### Fertility Storage/Egg Banking

Preservation of embryos, oocytes, sperm, and other reproductive tissue for future reproductive potential

# Strong Trends Driving Attractive Growth

FAVORABLE TRENDS WILL CONTINUE TO DRIVE STRONG GROWTH IN THE FERTILITY MARKET.

## INDUSTRY GROWTH DRIVERS

### INCREASING AWARENESS & ACCESSIBILITY

- Increasing awareness of fertility treatments as well as advancements in technology and genetic testing are increasing success rates and lowering total average costs to make treatment more accessible

### CULTURAL SHIFTS

- Shifting cultural dynamics to have children later in life are driving people to use more IVF services as well as elective fertility preservation services
- Growing population of same-sex couples desiring children driving additional demand

### INCREASE IN CHRONIC HEALTH CONDITIONS

- Increasing prevalence of chronic conditions and health issues driving increasing rates of infertility and demand for IVF services

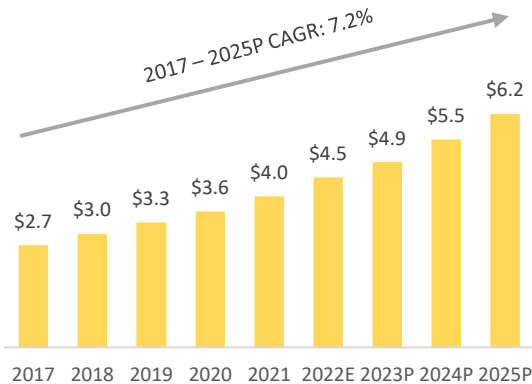
### REIMBURSEMENT & BENEFIT TRENDS

- Significant private pay component, despite moderately increasing insurance coverage and employee benefits for IVF and genetic testing services

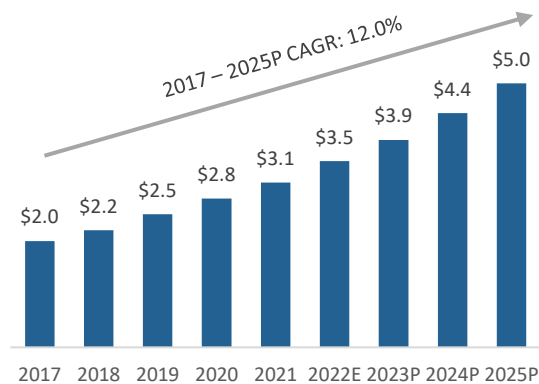
## DRIVING SUSTAINED INDUSTRY GROWTH

For the Years Ended and Ending December 31, 2017 – 2025P  
(\$ in billions)

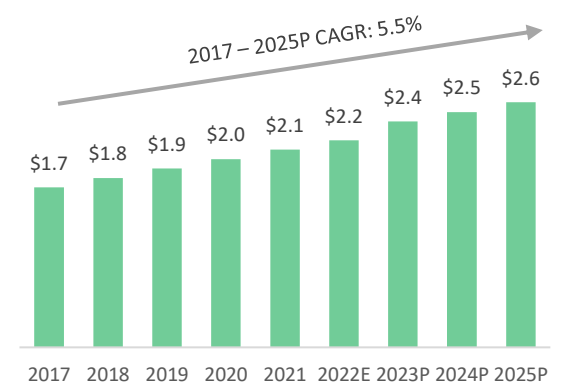
### IVF SERVICES U.S. MARKET<sup>(1)</sup>



### GENETIC TESTING U.S. MARKET<sup>(1)(2)</sup>



### REPRODUCTIVE TISSUE STORAGE & DONOR SERVICES U.S. MARKET<sup>(1)</sup>



# Industry Growth Drivers: *Increasing Awareness and Accessibility*

THE INCREASING SOCIAL AWARENESS AND ACCESSIBILITY OF USING FERTILITY SERVICES, AS WELL AS PARENTS WAITING LONGER TO START A FAMILY, HAVE LED TO A RAPIDLY GROWING MARKET.

- Approximately eight million babies have been born globally using ART services since 1978<sup>(1)</sup>, driven by continued technological and genetic testing advancements and substantially improved outcomes and costs, resulting in increased accessibility and demand
- Rapidly growing social awareness of fertility services, such as high-profile references in popular culture and campaigns like the National Infertility Awareness Week
  - Driving greater interest in ART services, as demonstrated by an over 124% increase in ART cycles performed from 2010 to 2019<sup>(2)</sup>
- Since 1970, the average age of first motherhood in the U.S. has increased from 21 to 26, driven primarily by an increase in first children born to women 35 and older, with significantly increased infertility issues and demand for ART services among women in their 30s and 40s<sup>(3)</sup>

## GROWING CULTURAL AWARENESS

**BBC** Michelle Obama reveals daughters were conceived by IVF

**CNN** Dispelling taboos, Michelle Obama talks IVF and miscarriage

*"The biological clock is real and egg production is limited, something I realized at age 34; we had to do IVF. I think that as women the worst thing that we do to each other is that we do not share the truth about our bodies, how they work or do not work."*

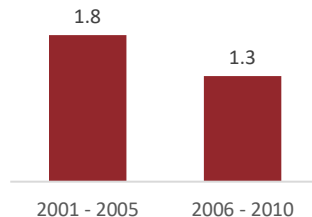
- Michelle Obama



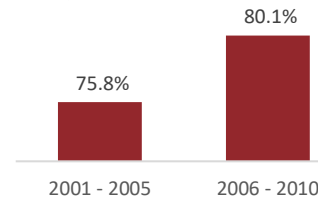
## INCREASED SUCCESS RATES DRIVE ACCESSIBILITY <sup>(4)</sup>

Overall improvement in IVF techniques has resulted in higher pregnancy rates per cycle, driving down the average total cost of an IVF pregnancy, making the service more accessible to a broader population

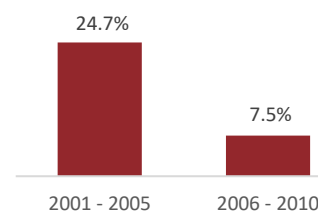
### Average Embryos Transferred with IVF



### Likelihood of a Live Birth by the Fifth Cycle with IVF

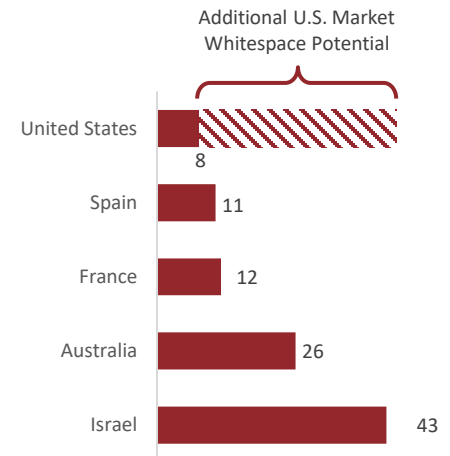


### Multiple Birth Rate with IVF



## ROOM TO GROW <sup>(5)</sup>

### IVF Prevalence by Country IVF Cycle per 10,000 People



# Industry Growth Drivers: *Cultural Shifts*

SOCIETAL TRENDS HAVE RESULTED IN MORE COUPLES WHO REQUIRE FERTILITY SERVICES IN ORDER TO CONCEIVE.

## WOMEN DELAYING MOTHERHOOD DRIVE ART SERVICES

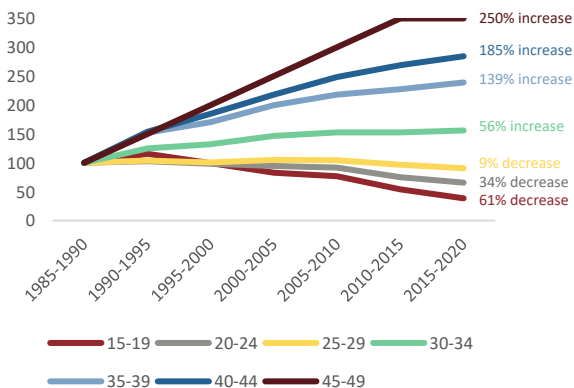
- Larger presence of women in the workforce and shift toward having children later in life have driven demand for ART services to increase chances of successful pregnancy later in life
  - Infertility and the probability of having children with genetic diseases increases as women age, driving increased demand for taking preventive measures with elective fertility preservation services and using ART services
- Organizations such as Single Mothers by Choice and Choice Mom have grown considerably in recent years
  - The growth of these organizations highlights the increasing number of women choosing to have children on their own, which typically requires ART services in order to conceive

## LARGE DEMAND FROM SAME-SEX COUPLES

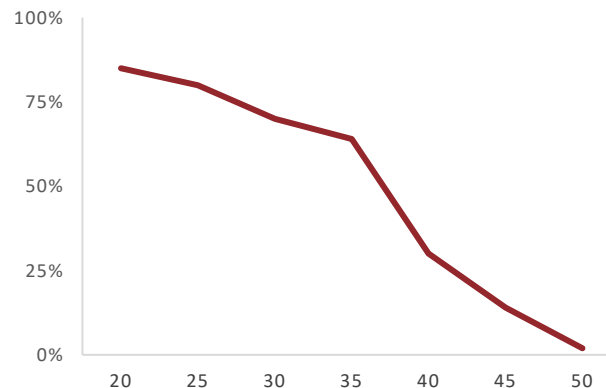
- Cultural shifts and legislation changes have led to a growing number of same-sex couples having children
  - Approximately 16% of all same-sex households are raising children<sup>(1)</sup>
  - Growing number choosing to use ART services given the complexities of adoption

## U.S. BIRTH RATES BY AGE OF MOTHER<sup>(2)</sup>

Years Ended and Ending December 31, 1985-2020  
(Rate per Thousand Women Indexed at 100)

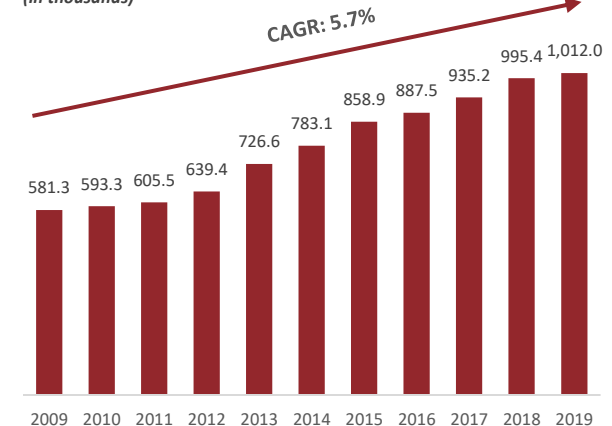


## SHARP DECREASE IN PROBABILITY OF CONCEIVING WITH AUTOLOGOUS EGGS BY AGE<sup>(3)</sup>



## GROWING POPULATION OF SAME-SEX COUPLES IN THE U.S.<sup>(4)</sup>

(In thousands)





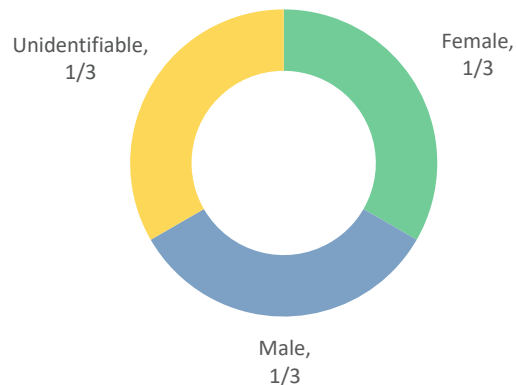
# Industry Growth Drivers: *Increase in Chronic Health Conditions*

APPROXIMATELY 15% OF U.S. COUPLES ARE INVOLUNTARILY INFERTILE<sup>(1)</sup>, AND RISING OBESITY, MEDICAL CONDITIONS, AND OTHER FACTORS ARE DRIVING INFERTILITY RATES HIGHER, INCREASING DEMAND FOR FERTILITY SERVICES.

- Chronic health conditions present in males and females result in similar proportions of infertility cases in each gender
- Obesity is continuing to increase across the U.S. and is a large driver of infertility issues
  - Women defined as obese are three times more likely to suffer from infertility than women with a normal body mass index (BMI)
  - Polycystic Ovarian Syndrome (PCOS), a hormonal disorder that affects roughly 10% of women by interfering with ovulation patterns and drives infertility, is linked to obesity<sup>(2)</sup>
  - Likelihood of uterine abnormalities, including endometrial polyps, increases with age and obesity
  - Male obesity reduces sperm quality and impairs the molecular structure of mature sperm
- Both sexes are susceptible to decreasing fertility rates due to increased alcohol use, stress, and limited exercise
- Females in particular are susceptible to certain genetic and hormonal medical conditions that may interfere with reproductive abilities

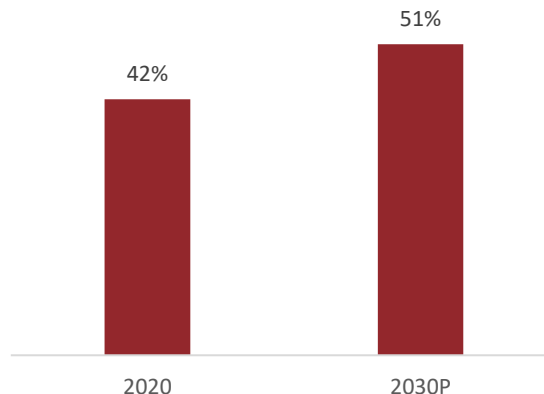
## INFERTILITY CAUSES BY GENDER<sup>(3)</sup>

Percentage of Infertility Cases Attributed to Each Gender



## RISING OBESITY RATES<sup>(4)</sup>

Percentage of U.S. Population Defined as Obese



## MEDICAL CONDITIONS IMPACTING FERTILITY

### GENETIC CONDITIONS

- Birth Defects
- Chromosomal Abnormalities

### MEDICAL AND SURGICAL DISEASES

- Uterine Fibroids and Polyps (Benign Growths)
- Endometriosis (Pelvic Tissue Overgrowth)
- Autoimmune Disorders
- Early Menopause
- Obesity

### HORMONAL CONDITIONS

- PCOS
- Diabetes
- Thyroid Conditions

### OTHER FACTORS

- Sexually Transmitted Diseases
- Cancer / Chemotherapy
- Risk Factors (Age, Smoking, Alcohol, Stress, Limited Exercise)





# Expansion of Fertility Benefits

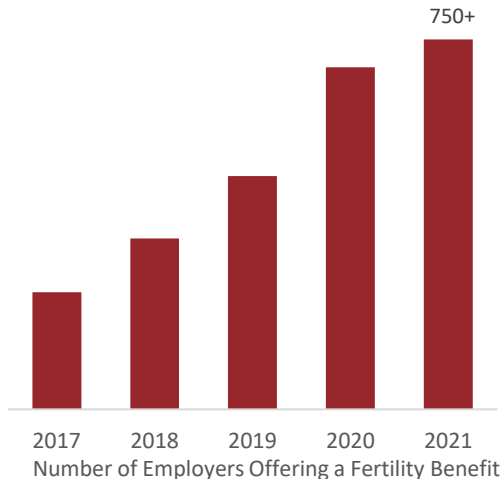
EMPLOYERS INCREASINGLY RECOGNIZE THE VALUE CREATED FROM EXPANDED FERTILITY BENEFITS.

- In order to attract and retain talent, the number of employers who offer fertility benefits has doubled since 2018
- Expanding coverage creates direct-to-employer growth opportunity
- Superior clinical results create savings opportunities for self-insured employers that are continuing to expand fertility coverage
  - Produces fewer higher-order births relative to the industry, delivering significant incremental cost savings to payors/employers

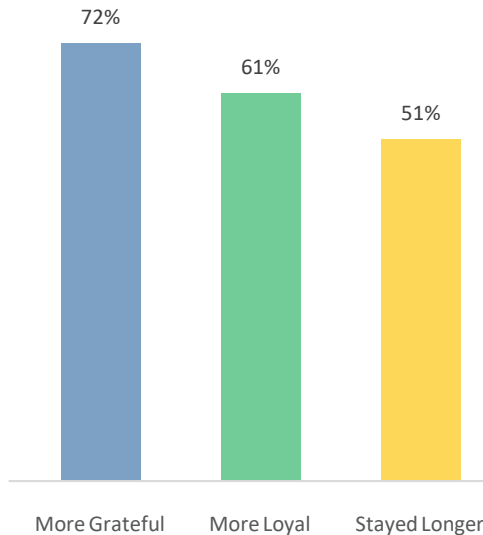
## SURVEY DATA AROUND EMPLOYEES VALUING BENEFIT<sup>(1)</sup>

### Rapid Expansion of Corporate Fertility Benefits

~33% CAGR in Employers Offering Benefits

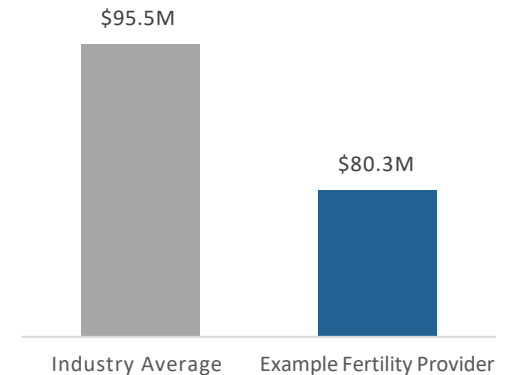


### Fertility Benefits Help Attract and Retain Talent



## SIGNIFICANT SAVINGS FROM TOP PROVIDERS

### Example of Potential Savings from IVF Deliveries for Payors per 1,000 Live Births<sup>(2)</sup>



Top Providers Offer Payors 15%+ Lower Pregnancy-Related Costs on Average per Live Birth Relative to the Industry

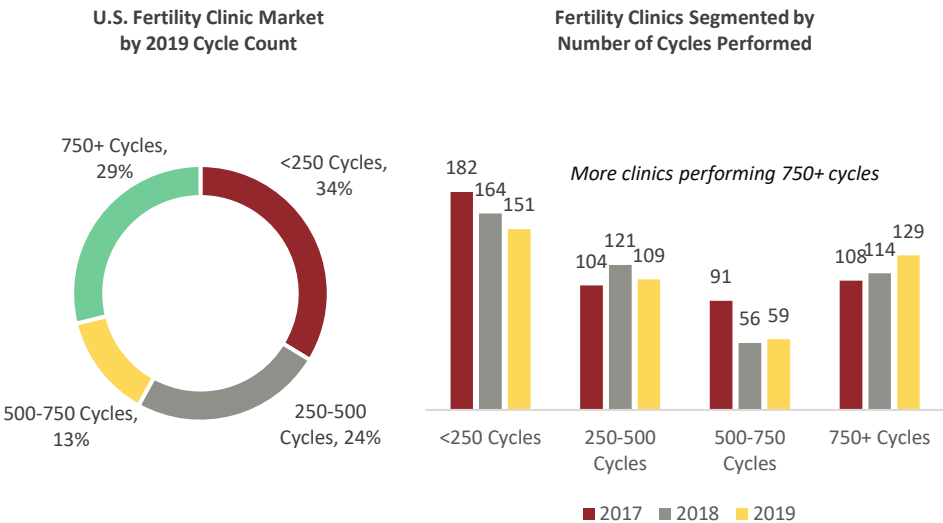
# Highly Fragmented Market

THE U.S. FERTILITY MARKET REMAINS HIGHLY FRAGMENTED AND MAINLY COMPRISES INDIVIDUAL CLINICS.

- The largest five players in the market capture only ~20% of the total IVF cycles in the U.S., representing a significant opportunity for existing players to expand national reach
- Significant opportunity to capitalize on international opportunity where few competitors of scale and quality exist

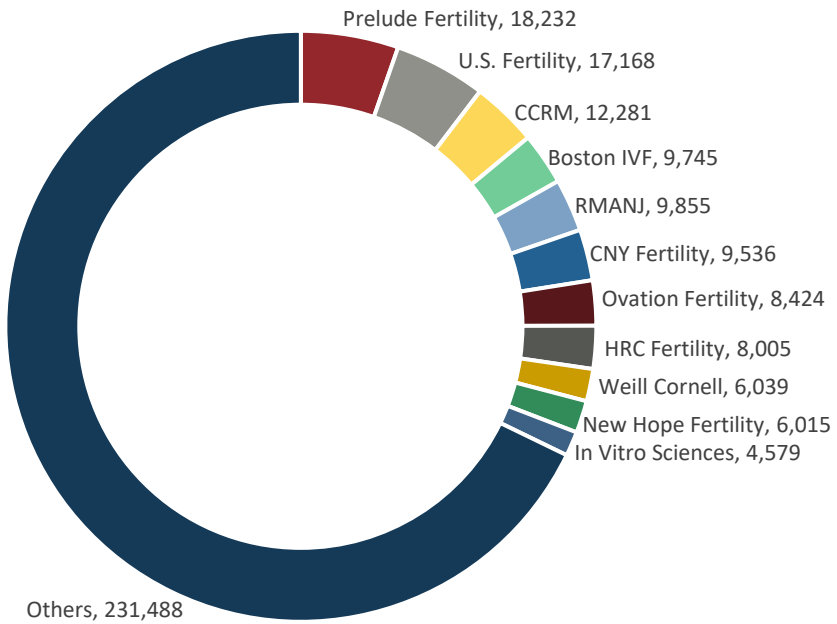
## HIGHLY FRAGMENTED MARKET

### U.S. Fertility Clinic Market by Cycles<sup>(1)</sup>



## COMPETITIVE LANDSCAPE

### Top U.S. IVF Clinics by Preliminary 2019 Cycle Count<sup>(1)</sup>









































































# Fertility Services and Women's Health M&A Activity

TRANSACTION ACTIVITY AND INTEREST IN FERTILITY AND BROADER WOMEN'S HEALTH SECTOR HAS INCREASED DRAMATICALLY.

- Activity has been robust across all sectors of women's health, driven by continued demand growth industry-wide in fertility and the emergence of true value-based care models in OB/GYN
  - Fertility: Platform transformation continues with several large-scale platforms both in the U.S. and internationally reaching likely investment timeline maturity with current sponsors
  - OB/GYN: Unified, Women's Care Enterprises, and Axia have all experienced strong growth and recently partnered with new investors to continue their expansion

## NOTABLE TRANSACTIONS<sup>(1)</sup>

	Oct-16	Dec-16	Feb-17	May-17	Jul-17	Jul-17	Aug-17	Oct-17	Oct-17	Oct-17	Jun-18
Target											
Acquirer	has been acquired by  	has been acquired by 	has been acquired by 	has received an investment from 	has been acquired by 	has received an investment from 	has been acquired by 	has been acquired by 	has been acquired by 	has been acquired by 	has been acquired by 
	Oct-18	Dec-18	Mar-19	Apr-19	Jun-19	Jun-19	Dec-19	May-20	Aug-20	Dec-20	Dec-20
Target											
Acquirer	has received an investment from 	has been acquired by 	has been acquired by 	has been acquired by 	has been acquired by 	has completed an initial public offering	has been acquired by 	have been acquired by 	has been acquired by 	has been acquired by 	has been acquired by 
	Dec-20	Feb-21	May-21	July-21	Aug-21	Aug-21	Nov-21	Dec-21	Dec-21	Dec-21	Feb-22
Target											
Acquirer	has been acquired by 	has been acquired by 	has been acquired by 	has established a strategic partnership with  backed by  	has been acquired by 	has been acquired by 	has been acquired by 	has been acquired by 	has been acquired by 	has been acquired by 	has been acquired by 
											
	Fertility services transactions				Other women's health transactions						

# Select Harris Williams Fertility Transaction Advisory



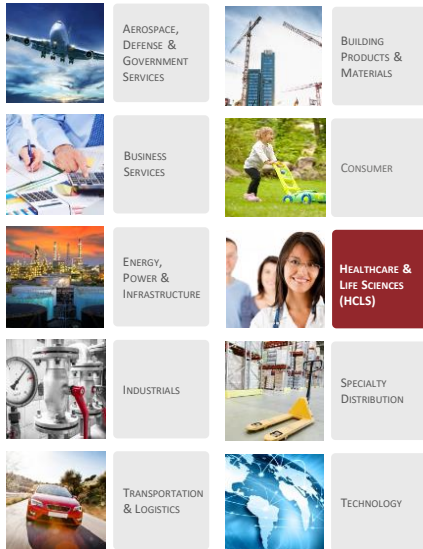
# Harris Williams HCLS Group Overview

THE HARRIS WILLIAMS HCLS GROUP HAS DEEP SUBSECTOR EXPERTISE DEVELOPED THROUGHOUT THE HEALTHCARE CONTINUUM.

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## HCLS GROUP REPRESENTATIVE EXPERIENCE

### PROVIDERS

- Behavioral Health
- Dental
- Dermatology
- Gastroenterology
- Home Health & Hospice
- Medspa Services
- Multi-Specialty/Other Specialty PPM
- Orthopedics
- Physical Therapy
- Primary Care
- Urology
- Vet Products & Services
- Vision
- Women's Health

### PAYORS & PAYOR SERVICES

- Cost Containment & Member Engagement Solutions
- Direct-to-Payor Provider Services
- Health Plans & Network Services
- Pharmacy Benefit Managers
- Third-Party Administrators

### OUTSOURCED PHARMA SERVICES

- Commercialization Services
- CDMOs
- CROs
- Safety & Regulatory Affairs

### OUTSOURCED PROVIDER SERVICES

- Clinical Provider Services
- Provider Business Services

### MEDICAL PRODUCTS & DEVICES

- Cardio
- Contract Manufacturing
- Dental & Orthodontics
- Eyecare
- HME/DME/Mobility
- Medical & Surgical Equipment
- Orthopedics & Spine
- Patient Diagnostics & Monitoring
- Product Services
- Specialty Distribution

### PHARMACEUTICALS

- Biotechnology
- Generic Pharmaceuticals
- OTC/Consumer Health
- Pharmaceuticals
- Specialty Pharmaceuticals

### PHARMACY

- Compounding Pharmacy
- Infusion Services
- Institutional Pharmacy
- Outsourced Pharmacy Management
- Retail Pharmacy
- Specialty Pharmacy
- 340B

### PROVIDER, PHARMA & DEVICE DISTRIBUTION

### CLINICAL LAB SERVICES

### HCIT

### LIFE SCIENCES TOOLS

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