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Executive summary

The purpose of this report is to provide our perspective on the fertility services landscape in Asia, which is garnering significant global investor interest due to surging demand and attractive characteristics of the business model

Summary of the report

- The global fertility services market is expected to grow at a **CAGR of 7%** from **US\$35bn in 2023** to over **US\$70bn in 2033**, driven by:
 - **Market demand tailwinds:** Couples are increasingly seeking fertility treatment as they experience challenges conceiving (due to several factors, including age of childbirth, health, and lifestyle) and are comfortable with the effectiveness / safety of IVF treatment
 - **Public policies and corporate benefits:** Governments are implementing policies to encourage couples to undergo fertility treatment to bolster the birth rate and tackle an aging population. Corporations are also beginning to offer employee benefits to support fertility treatment
 - **Provider ecosystem and technology:** Scaled players are beginning to consolidate the highly fragmented market, taking advantage of scale economies, standardised procedures, and technology to drive better patient outcomes / success rates
- Market demand tailwinds are even more pronounced in Asia and the fertility market ecosystem is relatively nascent compared to the West
 - Asia Pacific is expected to grow at a CAGR of 10% over the next 10 years, significantly outpacing global growth
- **Fertility tourism** is also increasingly common, as individuals look to escape long waiting times and take advantage of a wider array of treatment options, more affordable care, and/or higher success rates
 - Asia continues to serve as a large outbound and inbound destination for fertility tourism
- The fertility services market has attracted considerable interest from both strategic and financial investors
 - The business model has attractive characteristics such as high barriers to entry (due to license requirements, brand reputation, access to talent, ability to achieve high success rates), robust EBITDA margins, and low capital intensity relative to hospitals
 - SEA has been a particular focus for global investors due to the high fragmentation of providers and large under-served populations with growing local demand for fertility services
 - India has also attracted significant interest as the IVF sector is expected to grow at a CAGR of 16% over the next 10 years, and scaled players start to emerge with the backing of financial sponsors
 - Going forward, we expect significant M&A activity in the fertility services sector across Asia, with a particular acceleration in SEA and India



What are assisted reproductive technologies (ART)?

ART include all fertility treatments to help patients with infertility achieve pregnancy

ART overview

- ART refer to the types of medical technologies and treatments complemented with laboratory technologies to assist individuals in overcoming infertility
- Infertility is broadly defined as the inability to achieve a clinical pregnancy after at least 12 months of trying naturally
- ART are often offered in a clinical setting along with other support services such as assessment, diagnostics and testing, monitoring, preconception care, and counselling
- There are three main types of ART:

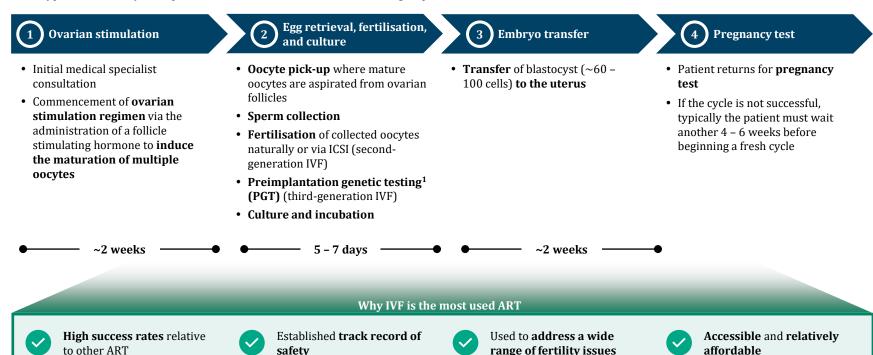
Procedure	Overview
Key focus of the report	Fertilisation of extracted oocytes and sperm outside of the body in a laboratory
In-vitro fertilisation (IVF)	 Can be used alongside other ART including intracytoplasmic sperm injection (ICSI), where a single sperm is injected into an egg instead of natural sperm penetration (typically recommended for male-factor infertility treatment)
	Gamete IFT (GIFT): Gametes are placed directly into the fallopian tubes via laparoscopy
Intrafallopian transfer (IFT)	Zygote IFT (ZIFT): Combination of IVF and GIFT
	• Pronuclear stage tubal transfer (PROST): Transfer of a fertilised egg to a fallopian tube before cell division occurs
Intrauterine insemination (IUI) / artificial insemination	Collection, washing, and concentration of sperm, which is transferred to the uterus around ovulation

What is IVF?

IVF is the most common fertility treatment offered today due to its high success rates, safety, and relative affordability

IVF overview

- IVF consists of a set of procedures that involves the in-vitro handling of human oocytes and sperm or embryos to establish a pregnancy
- · IVF is most often utilised when other, less expensive / complex fertility techniques have failed
- First performed in 1978 in England and over 8 million babies worldwide have now been born via IVF
- A typical fresh IVF cycle requires **4 5 weeks** and involves the following steps:



Global fertility services market overview

The global fertility services market is expected to grow at a CAGR of 7% over the next 10 years, driven by significant demand tailwinds, broader corporate and government support, and an expanding ecosystem with advanced technologies

A high growth market driven by...

Global fertility market size, US\$bn **Global CAGR: 7%** Asia Pacific CAGR: 10% -71 66 61 57 53 15 32E 23A 24E 25E 26E 28E 29E 30E 31E 33E 27E ■ Asia Pacific Rest of world

The IVF market growth rate in Asia Pacific is expected to outpace the global average by 3pp

...robust market demand, policies, and provider ecosystem

Market demand tailwinds



Lifestyle changes

 Women are prioritising education and careers, pushing back the average age of having children



Health conditions

 Rising infertility rate due to health conditions driven by stress, poor dietary habits, alcohol consumption, and environmental pollution



Awareness & acceptance

 Increasing awareness and comfort in fertility treatment, driven by an established track record and growing societal acceptance

Corporate and government policies



Public policies

 Governments are introducing policies to encourage couples to have children and help fund fertility treatment



Corporate benefits

• Corporations are expanding their benefit policies to provide support to individuals seeking fertility treatment

Provider ecosystem and technologies



Industry consolidation

• The clinic ecosystem is highly fragmented, with market leaders beginning to consolidate the market and improve the quality of care



Technological advancements

 New technology, such as next generation sequencing (NGS) / PGT are contributing to better patient outcomes

BDA 16

Industry tailwinds: market demand tailwinds



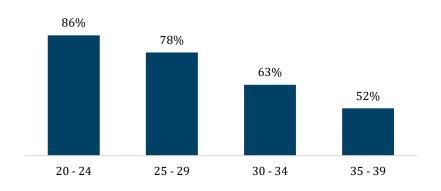
Delayed childbirth and increasing prevalence of health conditions have contributed to rising infertility rates, driving significant demand for IVF services

Commentary

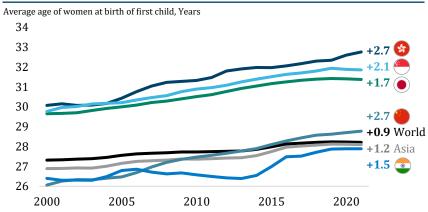
- Women are prioritising higher education and career opportunities
 - Delayed parenthood increases the risk of infertility, prompting couples to seek fertility services
- Environmental pollution and changing lifestyles including greater stress, obesity, poor dietary habits, excessive alcohol consumption, and a sedentary lifestyle have negatively impacted fertility
- **Increased social acceptance** of IVF due to safety, effectiveness, and affordability has resulted in people being aware of and comfortable to consider such options
- Growing number of single mothers by choice and LGBTQ+ couples having children have led to a greater adoption of ART services

Chances of a natural pregnancy decrease significantly with age

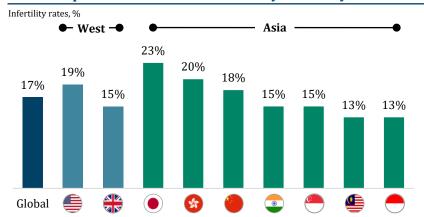
Likelihood of a natural pregnancy by age within 1 year, %



Couples are delaying childbirth, especially in Asia



1 in 6 couples worldwide are affected by infertility





Industry tailwinds: corporate and public policies

The public and private sectors are increasing support for couples seeking fertility services

Growing government support and improved funding

- Governments have introduced new policies to encourage childbirth, offering greater flexibility on treatment plans
- These measures have led to additional support and funding for fertility treatment, including IVF, embryo transplantation, and cryopreservation
- Government coverage is typically applicable only for public hospitals, which
 can have lower success rates and longer waiting times, resulting in patients
 seeking care from the private sector

"Soon, govt hospitals to offer expensive IVF treatment valued at over Rs 2 lakh [~US\$2.4k], for free to infertile couples in state"

- Feb 2024



"Beijing to cover IVF, other fertility treatments for couples from July 2023"

- Jul 2023



"Singapore to allow women, including singles, to freeze their eggs for non-medical reasons"

- Mar 2022

THE STRAITS TIMES 🖱

"China has formally revised its laws to allow **couples to have up to three children**, to boost the birth rate"

- Aug 2021

2020

2015

2015

2020



Private sector is increasingly covering fertility services

- Companies are offering fertility coverage as they focus on diversity, equity, and inclusion, and seek to attract and retain talent
 - 43% of surveyed UK employees aged 24 34 have indicated a willingness to consider switching jobs due to a lack of workplace support for fertility services¹
- Providing fertility coverage creates a win-win situation for both employees and employers:
 - Employers benefit as employees exhibit greater loyalty, productivity, and lower absenteeism from reduced stress
 - Employees benefit as they have reduced financial stress given the cost of treatment and have increased access to care

Fertility coverage is growing **Select companies with coverage** % of companies (20k+ US employees) with coverage **IVF Egg-freezing ●** +6pp **−** Daiwa Google X HSBC J.P.Morgan 42% 36% McKinsev KOKUYD & Company **●** +13pp **=** 19% Microsoft Meta 6% (•) MUFG NOMURA PayPal P&G SAMSUNG SONY &UBS



Industry overview Valuation environment Introduction **Country overview** Business model

technologies

Industry tailwinds: provider ecosystem and technologies

Market consolidation and broader developments in technology support fertility market growth through improved techniques, efficacy, and reputation amongst consumers, attracting greater patient volumes

The global fertility services market remains fragmented...



...though larger players have started consolidation



Larger players have more resources to provide quality services and attract patients, creating a virtuous cycle of growth

Technological advancements drive better patient outcomes

- Advancements in technology have supported **improved outcomes**, thereby increasing acceptance and awareness for fertility services
- · Key technologies include:
 - AI: Enhances embryo selection through assessing the likelihood of embryos that will lead to pregnancy
 - NGS: Enables DNA / RNA sequencing and variants / mutations detection, **improving embryo selection** and successful implantation chances
 - Vitrification: Rapid freezing technique that improves the success rates of cryopreservation by **preventing ice crystal formation**

Case study: AI adoption to enhance outcomes





- Alpha IVF utilises AI technologies to optimise embryo selection and outcomes
- Selected approaches include:
- **Time-series AI:** Time-series images analysed to identify success patterns, creating a model to rate likelihood of successful pregnancy, refined by participating clinic data
- **Genetic AI:** Images analysed to identify chromosomally normal embryos, creating an embryonic genetic assessment, indicating the likelihood of being chromosomally normal
- · Embryos with the highest score are selected for transfer
- Use of AI has contributed to Alpha IVF being able to achieve above-average success rates relative to its peers²

Improved technologies boost safety, efficacy, and success rates, encouraging previously hesitant individuals to seek fertility services

Global medical tourism for fertility services is on the rise

Thousands of people cross international borders every year in search of fertility services

Key reasons for travel



Navigate regulatory limitations and access services that may be restricted in home country



High cost of fertility treatments in home country



Intentionally seeking out clinics with higher success rates



Improved and more comprehensive quality of medical service



Extended waiting times due to limited supply in public hospitals



Wider treatment options, and availability of more advanced treatments



Donor availability

Selected major destinations for fertility services medical tourism



- Wide variety of services, including surrogacy
- · Advanced technologies with high success rates
- **English** speaking
- High cost, especially for patients travelling from Asia



Spain

- Strong regulatory support allowing variety of treatment
- · Cost competitive
- High success rates
- Popular destination for European patients
- Donor identity protection



Greece

- High affordability
- High service quality
- Favourable regulatory environment
- Popular destination for European patients







Thailand

- High affordability
- Well-developed medical tourism infrastructure
- Strong regulatory support allowing variety of treatments
- Popular destination for medical tourists, especially from China
- First country in SEA to legalise same-sex marriage



Singapore

- High quality of services with advanced technology
- Bilingual
- Strict regulations
- Expensive





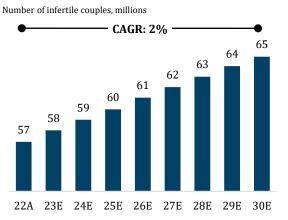


- High affordability
- Popular destination for medical tourists, especially from Indonesia and China
- Well-developed medical tourism infrastructure
- Strong regulatory support allowing variety of treatments

Significant demand for fertility services in Mainland China, which has historically been met abroad

Mainland China has significant unmet demand for fertility services, leading many Chinese to spend over US\$1bn annually on treatments abroad

Infertility continues to increase



Key reasons why Chinese patients are travelling overseas for fertility treatments



End of the One Child Policy, thereby allowing couples to have additional children



Strict domestic regulations limiting services available (e.g. IVF access restricted to married couples diagnosed with infertility)



Fertility-related **medical infrastructure and resources** are substantially **under-developed and inadequate** because of the limited institutions for IVF and even less with PGT licenses



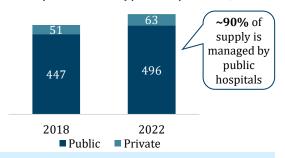
High patient volumes and **limited medical resources** resulting in public hospitals having **long waiting times** and only being able to provide **relatively basic ART services**



Individuals are increasingly seeking out fertility preservation services as they delay parenthood

Domestic fertility sector is mainly public

Assisted reproductive centres by private and public sector, 2022



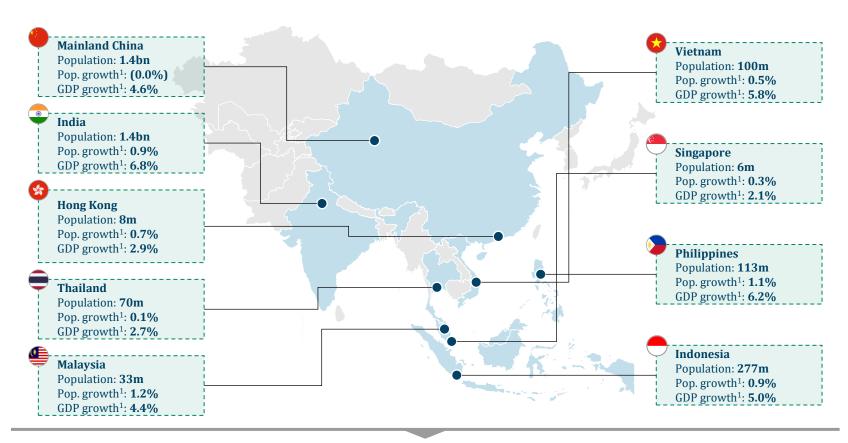
Long waiting times at public hospitals with an average duration of \sim 1 year

Preferred destinations for Chinese tourists



Large, fast-growing and highly attractive economies

Greater China, India, and SEA are home to sizeable, emerging economies that are key drivers of global growth





~3.4bn
Total population (2023)



+17m
Total population growth (2024)



US\$25.3tr Total GDP (2023)

Fertility services market overview - Mainland China

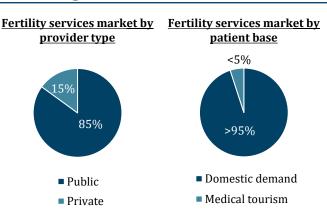
Mainland China has Asia's largest fertility services market, predominantly served by public hospitals with long waiting times

Market overview

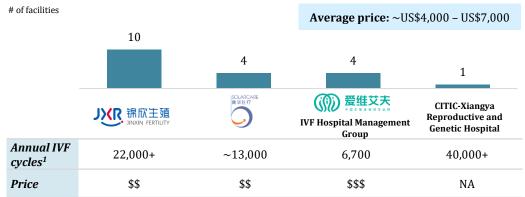


- One million annual IVF cycles performed
- Recent developments:
 - 2024: Certain provinces (e.g. Shanghai, Qinghai) expanded health insurance coverage of fertility treatment
 - 2023: The government pledged to improve pre- and post-natal services to boost childbirth

Market insights



Private-sector competitive landscape



Recent M&A / expansion activities

- Apr 2024: Jinxin Fertility acquired a 30% stake in Morula, the leading IVF player in Indonesia
- Aug 2022: Bytedance acquired Am-Sino, which has a highly regarded IVF hospital, for US\$1.4bn
- Apr 2022: Jinxin Fertility acquired Yunnan Jiuzhou Hospital, and Kunming Hewanjia OBGYN Hospital, for US\$152m
- Dec 2018: Jinxin Fertility acquired HRC Management to expand into the US IVF market

Regulatory overview

_ .		
	IVF	⊘
mll	Elective egg freezing	
Technology	PGT	2
	Commercial surrogacy	
Donor	Sperm donation	Ø
regulation	Egg/embryo donation	
International	Import/export gametes	
Maximum fore	70%	
Public health insurance coverage		



Introduction

Industry overview

Country overview

Fertility services market overview - Hong Kong

Greater legislative support expected to translate to an uptick in demand for fertility services in Hong Kong

Market overview

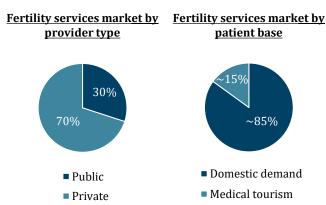
\$	Market size	~US\$130m
O	Annual IVF cycles	~8,500
•	Pop. of birthage women ¹	22%
*	Health exp. as % of GDP	9%

- Recent developments:
 - 2024: Legislative proposal announced tax breaks of up to HK\$100k (US\$13k) per year for couples seeking ART
 - 2023: Announced a 3-year program where parents whose babies born from 25 Oct 2023 will receive a oneoff payment of HK\$20,000 (~US\$2,600)
 - **2023:** Hospital Authority to increase ARS2 quota for IVF by 60% over next 5 years³

Private-sector competitive landscape



Market insights



Recent M&A / expansion activities

- Aug 2021: Jinxin Fertility acquired a 51% stake in Hong Kong Reproductive Health Centre (RHC or "Gratia Medical Centre") and Hong Kong Assisted Reproduction Centre (ARC) to further expand its presence
- Mar 2021: Lunar Capital acquired a 47% stake in Women's Clinic Group, the leading IVF clinic chain in Hong Kong, for US\$34m
- May 2018: The Women's Clinic and Reproductive Healthcare merged to form Hong Kong's largest fertility chain

Regulatory overview

	IVF	②
mll	Elective egg freezing	②
Technology	PGT	9 5
	Commercial surrogacy	
Donor	Sperm donation	
regulation	Egg/embryo donation	\bigcirc
International	Import/export gametes	②
Full foreign ow	②	
Public health i		

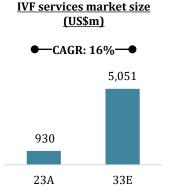
Sources: BDA research, Company websites, LEK, Hugill & Ip Solicitors, South China Morning Post, Government websites, Hong Kong Censure and Statistics Department Notes: (1) Females aged between 20 and 49; (2) Assisted reproductive services (3) Treatment cycles to increase from 1,100 cycles annually to 1,800 cycles; (4) Annual IVF cycles per latest disclosed data. If such data is not disclosed, the number of IVF cycles is estimated via revenue and approximate pricing; (5) PGT can only be used to detect genetic disorders (e.g. thalassemia); (6) Subsidised cost from public hospitals



Fertility services market overview - India

Growth driven by increase in awareness and acceptance of infertility, expansion in access to fertility treatments and acceptance of assisted reproductive technologies

Market overview

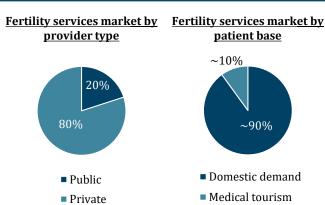


- Rapidly expanding market with ~300,000 annual IVF cycles
- Recent developments:
 - 2024: Central government modified surrogacy rules and announced that couples with medical conditions can use donor gametes
 - 2023: The health ministry tightened regulations, reminding clinics to follow compliance procedures and limiting oocytes in a cycle

Private-sector competitive landscape



Market insights



Recent M&A / expansion activities

- **Jun 2024:** CX Partners acquired a majority stake in Sabine Hospital, an IVF services provider, for US\$50m
- May 2024: Birla Fertility & IVF acquired an 86% stake in ARMC IVF, for US\$11m
- Nov 2023: EOT acquired a 66% stake in India's largest fertility clinic chain, Indira IVF, for US\$700m
- Apr 2023: Verlinvest committed US\$50m to build fertility platform through its investment in Ferty9

Regulatory overview

IVF		
Elective egg freezing		
PGT	2	
Commercial surrogacy		
Sperm donation	②	
Egg/embryo donation		
International Import/export gametes		
Full foreign ownership		
Public health insurance coverage		
	Elective egg freezing PGT Commercial surrogacy Sperm donation Egg/embryo donation Import/export gametes	

Country overview Valuation environment Introduction Industry overview Business model

Fertility services market overview - Malaysia

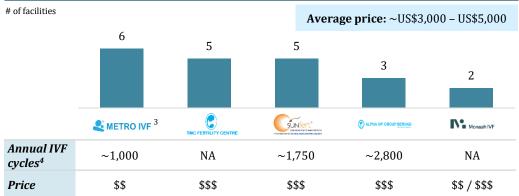
Malaysia remains a relatively popular destination for fertility tourism, lured by lower costs, high success rates, and cultural familiarity

Market overview

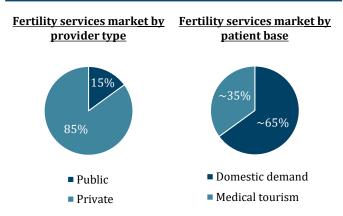


- performed
- Recent developments:
 - **2023:** The government announced the construction of its first national subfertility centre, and is expected to be operational in 2029

Private-sector competitive landscape



Market insights



Recent M&A / expansion activities

- May 2024: Metro Healthcare, a fertility and OBGYN services provider, filed for an IPO on the ACE Market of the Bursa Malaysia to raise capital (transfer listing from LEAP Market)
- Mar 2024: Alpha Group (KLSE:ALPHA) began trading on the KLSE. Shares available for public subscription were oversubscribed by 2.7x. Alpha Group has reaffirmed its commitment to both domestic and international expansion
- 2016: Fertility Associates entered a partnership with Sunfert to expand in Malaysia

Regulatory overview

	IVF	\bigcirc
T	Elective egg freezing	②
Technology	PGT	⊘ ⁵
	Commercial surrogacy	
Donor	Sperm donation	②
regulation	Egg/embryo donation	6
International	Import/export gametes	②
Full foreign ow	₹ 7	
Public health insurance coverage		

Sources: BDA research, Company websites, LEK, The Star Malaysia, The Edge Malaysia, Bernama, Malay Mail, Malaysian Investment Development Authority Notes: (1) Market size for fertility and OBGYN services; (2) Assumed to grow at 11% until 2026, and at the Asia fertility market growth rate of 10% thereafter; (3) Metro IVF has 6 fertility clinics, in addition to 3 maternity hospitals, 6 clinics and 1 diagnostic imaging centre; (4) Annual IVF cycles per latest disclosed data. If such data is not disclosed, the number of IVF cycles is estimated via revenue and approximate pricing. Alpha Group calculated BDA 116

as number of IVF cases; (5) PGT can only be used to detect genetic disorders (e.g. thalassemia); (6) Permitted for non-Muslims only; (7) Foreign ownership for private healthcare facilities is subject to approval



Fertility services market overview - Singapore

Singapore has seen a sustained growth in demand for IVF services, backed by government initiatives. This demand has historically been met by public hospitals

Market overview

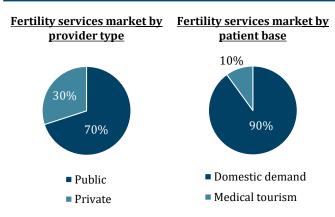


- Recent developments:
 - 2024: Public hospitals (KKH² & SGH³) are increasing IVF capacity (~20%) in response to growing demand
 - 2023: Women regardless of martial status, are allowed to freeze eggs. Age limit also raised from 35 to 37 years
 - 2022: Couples to receive funding support from government for certain PGTs

Private-sector competitive landscape



Market insights



Recent M&A / expansion activities

- Apr 2022: Monash IVF further its SEA expansion with the opening of its first clinic in Singapore
- **Mar 2022:** Dymon Asia acquired Singapore O&G, a women and children's health service provider, for US\$96m
- Feb 2019: CHA Healthcare invested
 ~US\$37m into Singapore Medical Group
 (SMG), increasing its stake to 24%. SMG has
 an OBGYN clinic group in Singapore and a
 fertility business in Australia

Regulatory overview

	IVF	
T	Elective egg freezing	
Technology	PGT	6
	Commercial surrogacy	
Donor	Sperm donation	②
regulation	Egg/embryo donation	②
International Import/export gametes		②
Full foreign ow	②	
Public health i		

Sources: BDA research, Company websites, LEK, The Straits Times, Mergermarket, Zico Law, World Bank

Notes: (1) Singapore female citizens aged between 20 and 49; (2) KK Women's and Children's Hospital; (3) Singapore General Hospital; (4) SOG clinics only offer IUI services; (5) Annual IVF cycles per latest disclosed data. If such data is not disclosed, the number of IVF cycles is estimated via revenue and approximate pricing. Alpha Group calculated as number of IVF cases; (6) PGT can only be used to detect genetic disorders (e.g. thalassemia)



Fertility services market overview - Thailand

Thailand is a leading destination for fertility tourism, with recent legislation changes and proposals that can help support an above-average market growth

Market overview



- annually
- Recent developments:
 - 2024: Local demand has markedly increased, and foreign patient flows are diversifying from China to other countries
 - 2024: Legalisation of samesex marriage
 - **2024:** Health ministry announced plans to end the ban on commercial surrogacy

Private-sector competitive landscape



Fertility services market by patient base



- Domestic demand
- Medical tourism

Recent M&A / expansion activities

- Nov 2023: SAFE Fertility debuted on the Stock Exchange of Thailand
- Aug 2019: TPG acquired a minority stake in Jetanin Institute, a hospital specialising in fertility treatments, for an undisclosed sum
- **Jul 2019:** MSPE acquired a minority stake in SAFE Fertility, a leading IVF clinic operator in Thailand

Regulatory overview

	IVF		
To also also ass	Elective egg freezing	Ø	
Technology	PGT	Ø	
	Commercial surrogacy		
Donor	Sperm donation	Ø	
regulation	Egg/embryo donation	②	
International			
Maximum fore	<50%		
Public health i			



Fertility services market overview - Vietnam, Indonesia & Philippines

Vietnam is currently the largest market in SEA for completed IVF cycles. Indonesia and the Philippines represent significant growth markets given under-penetration



Commercial surrogacy

Egg/embryo donation

Import/export gametes

Sperm donation

Donor regulation

International

Full foreign ownership

Public health insurance coverage

Market overview - Indonesia			
\$	Market size	~US\$40m	
	Number of facilities	50+	
10/	Price	US\$2,000 - US\$4,000	
0	Annual IVF cycles ¹	~12,000	
Кеу р	olayers		









Market overview - Philippines

Market size

3	11011100010	0010111
	Number of facilities	~10
S	Price	US\$5,000 - US\$7,000
0	Annual IVF cycles ¹	~7,000

Key players











~US40m



Regulatory overview

	IVF	②
m 1 1	Elective egg freezing	②
Technology	PGT	2
	Commercial surrogacy	
Donor	Sperm donation	②
regulation	Egg/embryo donation	②
International	Import/export gametes	
Full foreign ownership		②
Public health insurance coverage		0

Regulatory overview

Technology	IVF	②
	Elective egg freezing	
	PGT	⊘ ²
	Commercial surrogacy	
Donor	Sperm donation	
regulation	Egg/embryo donation	
International		
Full foreign owr	⊘	
Public health in:		

Characteristics that make the IVF business model attractive

IVF clinic operators experience high barriers to entry as the business gains scale, including robust revenue growth and EBITDA margins, while employing less capital compared to other healthcare service specialties

Key characteristics



- IVF effectiveness declines with age, creating a sense of urgency for patients to seek treatment regardless of macroeconomic conditions
- Patients are highly motivated and often willing to travel internationally to the doctors and clinics with the best success rates, reputation, and treatment options



High barriers to entry

- Regulatory licenses: The IVF market is highly regulated, making it difficult for new players to attain the required licenses
- **Brand reputation:** Patients seek leading clinics with a proven track record of high success rates and reputation of quality. It takes many years to build a strong brand / reputation, making it difficult for new entrants to gain market share from incumbents
- Access to talent: Doctors are the key asset for IVF clinics and can have a significant impact on the treatment outcomes and reputation of the clinics. Attracting and retaining key doctors is key for incumbents and a large barrier to entry for new players
- Access to capital: New entrants require capital to acquire the medical equipment and build out the clinics. While capital can be a barrier to entry, it can often be overcome by doctors with meaningful financial resources or private-equity sponsors



- High level of specialisation and barriers to entry allow clinics to charge a premium price for services, and the ability to pass on any cost increases to customers with minimal change in demand
- Improved technology can reduce overall treatment costs by reducing the number of cycles required for success
- Fertility clinics generally have a median EBITDA margin of 33%¹



- $\bullet \ \ \text{Fast-growing market with a CAGR of 7\% from 2023-2033, and accelerated growth in Asia with a CAGR of 10\% over the same period and accelerated growth in Asia with a CAGR of 10\% over the same period and the same period are same period as a superior of the same period and the same period are same period as a superior of the same period are same period and the same period are same period as a superior of the same period are same period and the same period are same period as a superior of the same period are same period and the same period are same$
- Significant runway for growth given lifestyle changes and rising infertility to persist, ensuring patient flows for fertility services
- Market remains highly fragmented, with the largest player globally having a ~3% market share further opportunity for consolidation to build regional fertility services businesses

Benefits of scale in the IVF sector



Greater breadth of services available to patients leveraging regulatory differences across markets



Superior margins due to economies of scale and patient volumes



Capacity for investment in new technologies, training, marketing, and recruitment



Stronger brand recognition and success rate, attracting larger patient volumes

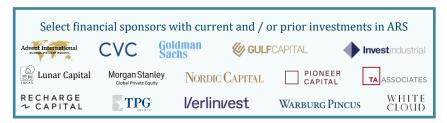
B|D|A

Fertility services investment landscape

Strategics and financial sponsors are interested in the fertility services sector in Asia

Financial sponsors have reiterated their confidence in the sector

Date	Buyer	Target	HQ	# of clinics1
Jun 2024	CX partners	Sabine HOSPIDLE RESERVED CENTRE WIT LTD	•	1
May 2024	THIEL ²	Rhea	C :	2
Nov 2023	KKR/IVIRMA) G E D	• eugin	***	~69
Oct 2023	> Driv	MEDICUS	#	4
Jul 2023	EQT	INDIRA IVF	•	116
Aug 2022	KEDAARA	Oasis	•	26
May 2022	Liverpool Partners	∏ge∩ea	*	12
Mar 2022	KKR	IVIRMA)	徽	75+
Mar 2022	Liverpool Partners	n adora	NK.	4



Case study: Strategic expansion into SEA

- SEA has been garnering strategics' particular interest in setting up / acquiring fertility clinics in the region
- In April 2024, Jinxin Fertility announced an investment into Morula, and noted the sizable untapped potential of SEA IVF markets
- This follows a wider trend of strategics expanding into SEA, including Monash and Fertility Associates. Sponsors-backed platforms are also seeking to build such businesses (e.g. Rhea Fertility)
- We believe establishing a SEA platform is attractive as:
 - 1 Underserved market, with low penetration rate compared to the West
 - 2 Patients have access to a **wider variety** of treatments
 - **Quality services** with relatively lower cost
 - 4 Enhanced patient experience given consistent branding
- **Capture medical tourism flows**, particularly within SEA



Case study: KKR and IVIRMA

KKR has built a scaled, cross-border fertility clinics platform

At a glance

\$	2023 Proforma revenue ¹	~US\$900m
- Constitution of the Cons	ART cycles 2023	150,000+
	Success rate ²	75%
12	Babies born daily	100+
Å	Physicians & embryologists	465+
†	Employees	4,400+

Acquisition rationale

- Integration of business with existing investment, GeneraLife (European fertility clinic group)
 - Creation of a pan-regional, vertically integrated fertility group with in-house procurement and leading genetic capabilities
 - Combined resources can enhance efficiency, service quality, and patient outcomes (e.g. larger gamete bank to allow for faster egg-donation, reducing waiting times)
- Strong industry and demand tailwinds
- Expand geographical presence within Europe and the Americas

KKR timeline to building a trans-continental fertility clinics platform

•	Nov 2021	KKR acquired GeneraLife clinics (30 clinics across Europe) for US\$378m
0	2022	Tecnobios Procreazione & Livio acquired to expand fertility clinic network in Europe
0	Dec 2022	KKR completes acquisition of IVIRMA for US\$3.3bn
0	Aug 2023	IVI RMA acquired Conceptions Reproductive Associates of Colorado
0	Nov 2023	IVI RMA acquired the North American operations of Eugin

Geographical presence





Trading comparables

Listed IVF clinics are trading at 3.7x - 4.5x LTM Revenue and 12.0x - 13.0x LTM EBITDA

Trading comparables

			Enterprise	Market	E	V / Reven	ue	E	/ / EBITD	A ¹		CAGR			Margins		Capital
			Value	Cap.							Revenue	EBITDA1	NI	Gross	EBITDA1	NI	intensity
	Company	HQ	(US\$m)	(US\$m)	LTM	2024E	2025E	LTM	2024E	2025E	20-24	20-24	20-24	LTM	LTM	LTM	LTM
JXIR 锦欣主殖 JINXIN FERTILITY	Jinxin Fertility	*;	1,176	890	3.3x	2.9x	2.5x	12.0x	10.4x	9.2x	22.3%	24.5%	21.0%	42.1%	27.5%	12.4%	6.2%
Monash IVF	Monash IVF	*	429	351	2.8x	2.5x	2.3x	12.3x	9.6x	9.0x	13.4%	16.3%	14.4%	34.1%	22.7%	10.2%	11.4%
ALPHA IVF GROUP BERHAD	Alpha IVF	(•	317	346	8.6x	7.7x	6.1x	19.0x	16.4x	13.1x	NA ²	NA ²	NA ²	58.1%	45.5%	31.6%	5.0%
SAFE SINCE 2007 OD &	SAFE Fertility		94	136	3.7x	3.2x	2.7x	10.2x	8.6x	7.2x	18.6%	30.1%	57.7%	55.8%	36.1%	25.5%	4.3%
G·F·C	Genesis Fertility		41	49	3.9x	3.3x	2.7x	11.7x	10.3x	8.4x	20.2%	NA ²	12.8%	49.0%	33.4%	23.1%	12.8%
Mean					4.5x	3.9x	3.3x	13.0x	11.1x	9.4x	18.7%	23.6%	26.5%	47.8%	33.0%	20.5%	8.0%
Median					3.7x	3.2x	2.7x	12.0x	10.3x	9.0x	19.4%	24.5%	17.8%	49.0%	33.4%	23.1%	6.2%

Transaction comparables

IVF clinics transacted at 3.7x - 4.4x LTM Revenue and 18.8x - 20.0x LTM EBITDA

Transaction comparables

Date ann.	Target company	Target country	Target description	Buyer company	Percent acquired	Implied EV (US\$m)	EV/Revenue	EV/EBITDA
Apr-24	Morula IVF		Fertility clinic chain	Jinxin Fertility	30%	NA^1	NA^1	NA^1
Nov-23	Eugin Group	(高)	International fertility clinic chain	IVI RMA, GED	100%	526	2.2x	NA^1
Jul-23	Indira IVF	0	Chain of specialty fertility clinics	EQT	66%	1,100	7.2x	23.0x ²
Jan-23	IVI RMA	<u> </u>	Fertility clinic chain	KKR	100%	3,225	NA ¹	20.0x
Aug-22	Oasis Fertility	•	Chain of IVF clinics	Kedaara Capital	<50%	100	NA ¹	NA ¹
May-22	Genea Limited	*	Provider of integrated IVF services	Liverpool Partners	100%	142	2.2x	17.1x
Apr-22	Jiuzhou / Hewanjia Hospital	*}	Two hospitals with IVF licenses	Jinxin Fertility	90%	167	3.5x	NA ¹
Dec-21	Virtus Health Group	**	Provider of fertility and medical diagnostic services	BGH Capital	100%	620	2.6x	10.4x
Nov-21	GeneraLife	海	Fertility clinic chain	KKR	100%	378	6.0x	NA ¹
Dec-20	Eugin Group	海	International fertility clinic chain	Frensenius	100%	525	2.7x	13.9x
Jun-20	Wuhan Huangpu OBGYN Hospital	*}	Maternity hospital specialised in IVF	Jinxin Fertility	75%	61	3.9x	NA ¹
Aug-19	Jetanin Institute		Leading IVF clinic operator in Thailand	TPG Capital	30%	800	NA ¹	22.5x ³
Mar-19	Igenomix S.L.	(衛)	Genetic testing services and IVF clinics	EQT Partners	100%	450	6.7x	20.0x
Mean							4.4x	18.8x
Median							3.7x	20.0x



Summary of IVF M&A opportunities in APAC

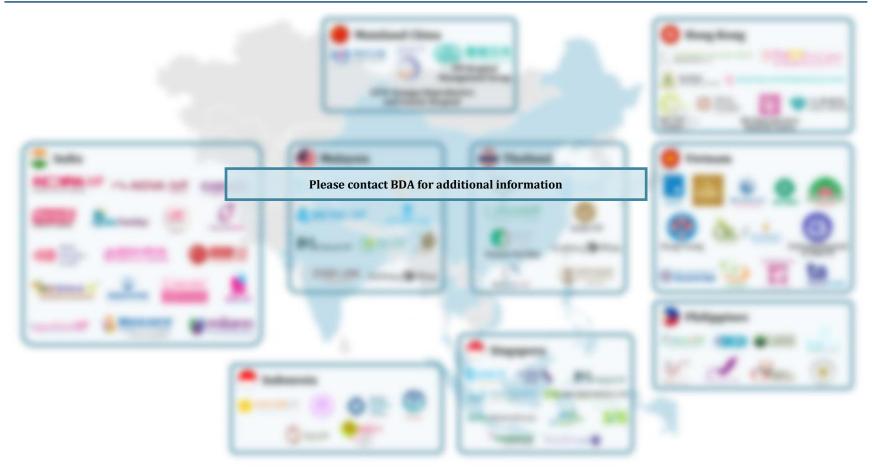
BDA is currently tracking several actionable M&A opportunities in the IVF sector in APAC



Fertility services market landscape in Asia

The fertility services market is highly fragmented, dominated by local players in each country

Key market players¹



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