

ASX: MEM

Felix A unique device to treat male infertility

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Pressing need for improvements in IVF



IVF:

- Expensive up to \$10,000 per try, average of 2.2 tries before successful pregnancy, success not always possible
- Physically and emotionally draining
- Increases risk of miscarriage, conceiving genetically impaired child

What if there were a technology that:

- Increased the likelihood of pregnancy, and
- Increased likelihood of giving birth to a healthy baby?

What would that be worth?



Need to improve male fertility

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Male Infertility

- A factor in ~50% of infertile couples
- Affects ~1/3rd of men over 40
- Has been rapidly increasing for the past few decades
 - environmental and lifestyle factors
- No meaningful advances in male sperm preparation treatments since the advent of IVF

Sperm quality, rather than quantity, is the issue

Human IVF market is large and rapidly growing



Key Human IVF market statistics			
IVF treatments market size 2012/2020	US\$9.3bn / US\$21.6bn		
Estimated no. IVF cycles pa	~6 million		
IVF consumables market	US\$450m		
Consumables cost per cycle	~\$400		
Cost to patient per cycle (developing/developed countries)	~US\$2,000 / ~US\$10,000		

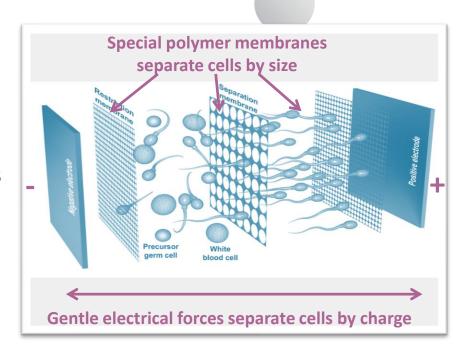
Accessible Market ¹		
IVF treatments including ICSI (Intra Cytoplasmic Sperm Injection)	>\$600 million	
ADD IUI (Intra Uterine Insertion)	> \$600 million	
TOTAL	~\$1.2 Billion	

¹ Assuming \$100 per cycle

MEM's technology provides better chance of success



- Unique, patented IP, proven to work
- Developed with Prof John Aitken, worldrenowned fertility expert
- Separates the 'best' quality, least DNAdamaged sperm¹ from IVF semen samples
- Sperm DNA damage A major factor affecting ability to conceive and to give birth to a healthy child



¹Best quality are most negatively charged

Memphasys' 'Felix' device has major advantages over current IVF sperm processing methods¹



	Current methods	'Felix' device
٠	30-40 minute, manual	√ 3 minute, automated
•	Damage DNA	✓ Gentle, no centrifuging, no cell damage
•	Limited in types of sperm samples they can treat	✓ Can treat wide range of sperm samples
•	DNA-damaged sperm can unknowingly be selected	✓ Selects best quality, least DNA- damaged sperm

¹ Differential Gradient Centrifugation ('DGC') /'Swim Up'

Achievements and upcoming milestones



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2008: Human births with earlier prototype device achieved

Mid 2017: Prototype device with re-usable cartridges built





2018 (now): Development of clinical system with single-use cartridges commenced

2019: 10-15 international IVF Key Opinion Leader (KOL) invitro study; CE Mark approval (Europe) possible by the end of 2019 cal. year



We've come a long way!









Corporate Statistics



Corporate Statistics		
Shares on issue	363,922,478	
Market capitalisation	\$18.2 million (@ 5 cents)	

	Top 10 Shareholders	
1	Mr Andrew Ernest Goodall	24.39%
2	Peters Investments Pty Ltd	18.32%
3	Ms Alison Coutts	16.21%

Top 3 hold ~ 59% Top 10 hold ~ 72%

Investment highlights

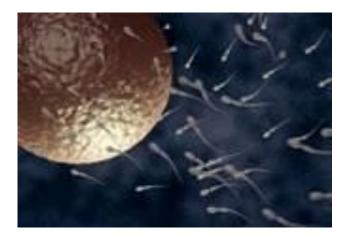


Unique, patented sperm separation technology

 Developed with world-renowned reproduction specialist -Professor John Aitken

Felix device for Human IVF

- Proven to work; low technology risk
- Need for better sperm processing for IVF
- Large, fast-growing global IVF market
- Development of Felix device for IVF clinics on track
- Relatively small funding and time frame before device is commercially available



Thank you

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