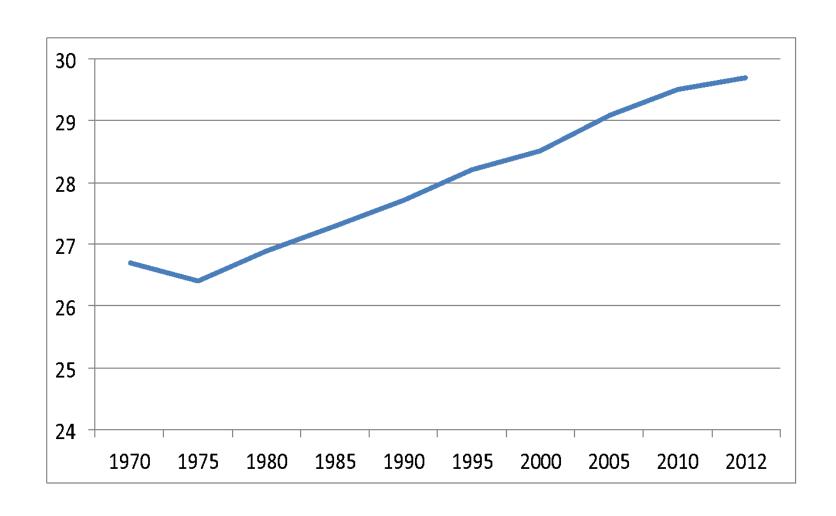
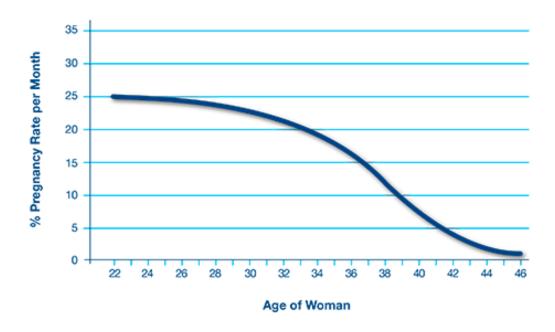
The Fertility Journey from egg freezing to egg donation

Michael Savvas King's College Hospital

Age of women giving birth in UK

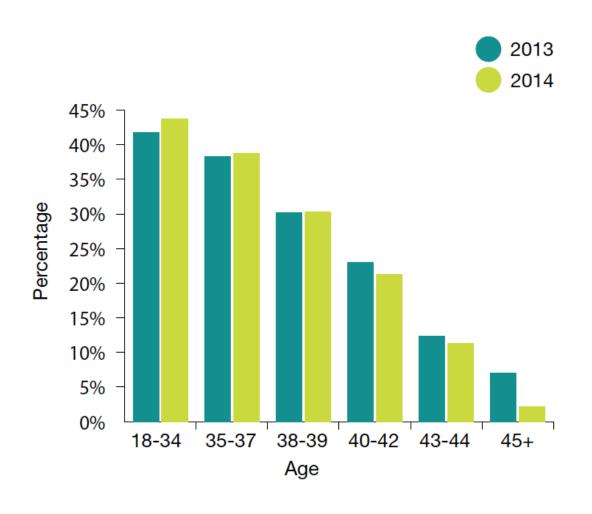


The Effect of a Woman's Age on Estimated Monthly Pregnancy Rates





Pregnancy per embryo transfer



Premature Ovarian Insufficiency

Loss of fertility most distressing consequence

Fertility Planning

- Prognosis
- Predicting fertility potential
- Fertility cryo-presevation
- Donor egg treatment

Predicting Fertility Potential Ovarian Insufficiency

- Clinical / Family history
- Ovarian reserve testing "The fertility MOT"

Assessment of Ovarian Reserve

- FSH
- Antral Follicle count using USS
- AMH

Ovarian Reserve Test

- Useful in predicting response to ovarian stimulation
- Cannot reliably predict menopause or future fertility

Fertility Cryopreservation

- Embryo
- Oocyte
- Ovarian tissue

Not helpful following diagnosis POI

Embryo Freezing

- Established effectiveness
- Routinely used to store surplus embryos
- Fertility preservation for women in relationship

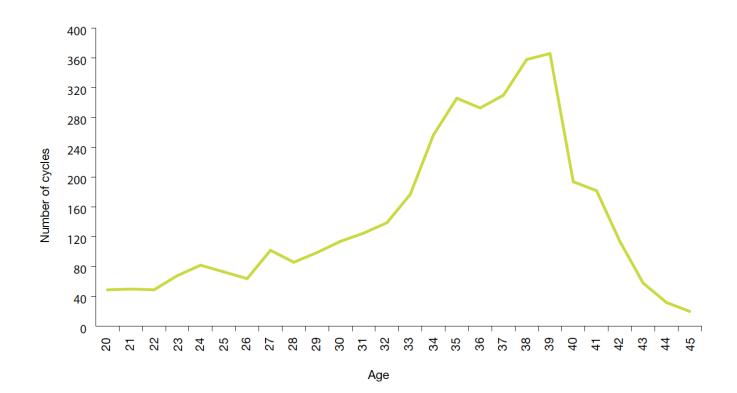
Oocyte Vitrification

- Single women
- Where embryo freezing not permitted
- Avoids legal disputes
- Donor egg banks

Viral Screening

Egg Freezing

Figure 12: Number of storage cycles started by woman's age (20-45) at start of cycle, 2001-2014



Egg Vitrification 2011-2015 Kings ACU

	Number
No. of Cycles	37
No. of thaws	5
Biochem Pregnancies	3
Clin Pregnancies	2
Live births	1

Vitrifed donor eggs

	Egg Bank	Fresh
Age of donor	26	26
Age of recipient	41	41
вмі	22.6	22.5
CPR	50.2%	49.8%
Twins	32.4%	37.5%

Cobo et al Hum Rep 2010

Elective Fertility Preservation

(Social Egg Freezing)

Public Support for Social egg freezing

•	Prior to	cancer	treatment	89%
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• For career advancement 72%

• Lack of Partner 63%

• Insufficient funds 58%

Support for employer funding 37%

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Revealed: Apple and Facebook pay women staff to freeze their eggs because bosses want to keep them working longer

- Silicon Valley giants willing to pay £12,500 a time to put eggs on ice
- According to NBC, Facebook has already started and Apple will in 2015
- One egg-freezing advocate said the move was 'investing in women'
- But one academic warned employees may see babies as 'incompatible'

By DAVID GARDNER IN LOS ANGELES

PUBLISHED: 00:54, 15 October 2014 | **UPDATED:** 01:37, 15 October 2014











DON'T MISS

▶ CBB winner Stephen Bear celebrates in style as he parties the night away with a bevy of beauties... leaving love interest Chloe Khan in the lurch



Newly-blonde Kim



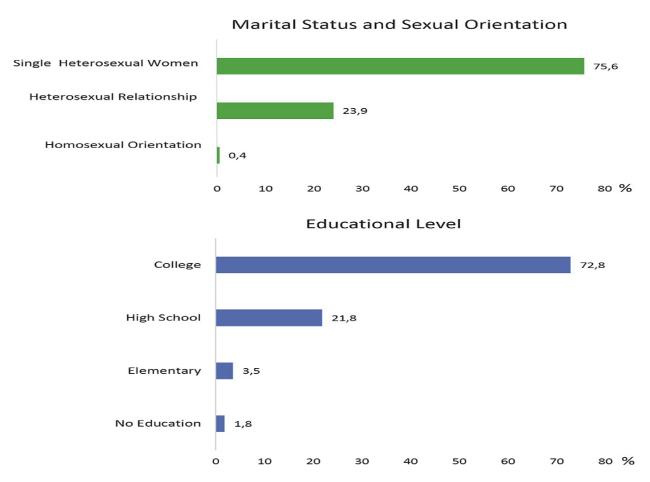
Social egg freezing

- Survey of 86 women
- Mean age 37 years
- Most women freezing believe will never need them
- 96% would do it again
- 50% in steady relationship
- 70% wished they had done it earlier

Stoop et al ESHRE 2013

- 1468 Non Cancer patients
- 94% for age related concerns

Cobo et al Fertil Steril 2016



NO.	1468
AGE AT FP	37.2
Pts with children	18 (1.4)
Egg no. per cycle	8.9
No. returning for treatment	137
Age when returning	39.2

No eggs thawed per patient	8.6
Survival rate	85%
ET per patient	1.5
CPR per transfer	54/117 (46.2%)
CPR per patient	54/137 (27%)
Deliveries	26
Live births	31

Conclusion

Oocyte Freezing Effective

- Age
- Number of eggs
 - 8-10 eggs in women <35 years
- Increased obstetric complications
- Use of Donor sperm (47%)

Donor egg treatment

Egg Donors

- Altruistic
- Reasonable Expenses
- Egg donors max £750 per donation
- Max 10 families

HFEA 2012

Egg Donors

- Healthy fertile women
- Age of 18 and 35 years of age
- Should preferably have had healthy children of her own.
- No history of mental disorders.
- There should be no family history of genetic or heritable diseases.
- Infectious screen
- Procedure and risks explained

Legal parenthood

- Woman given birth is the legal mother
- Her spouse or civil partner is second parent
- Unmarried couples have to complete parenthood forms WP and PP

Egg Donors

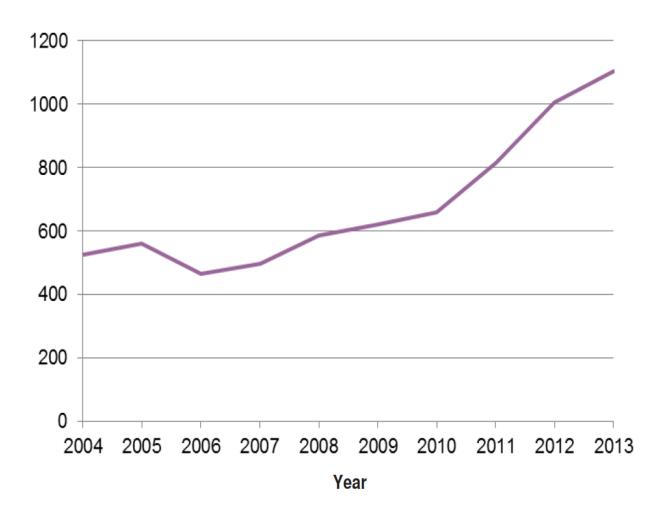
 Donors have no legal rights or obligations to children born as a result of their donated eggs.

 Can be told whether any children were born the sex and the year they were born.

Donor Anonymity

- Those who donate gametes or embryos after 1 April 2005 are identifiable.
- Donor conceived person can obtain donor's name and last known address once they reach the age of 18.
- The decision to initiate contact is solely that of the donor-conceived child

Figure 8: Newly registered non-patient egg donors, 2004–2013 Number



Egg donors

- Great shortage of altruistic anonymous donors in UK
- Known donors
- Egg Sharing
- Treatment overseas

The recipient

- Full Medical history
- WOC
- Quality parenting
- Parenthood

Egg recepient

- will be provided with non-identifying information such as height and ethnicity.
- Pen portrait

The endometrium





Obstetric outcomes

Donor eggs compared with own eggs

- Increased risk of first trimester bleeding and pregnancy induced hypertension
- Higher caesarean section rate

Stoop et al 2012

Conclusion

- No reliable way of predicting fertility
- Egg freezing becoming popular despite lack of UK figures
- Donor egg treatment is useful treatmnet in women with reduced ovarian function.

Thank you