

New insights to fertility treatment with RRM

Knock, Ireland 4th Oct 2025





Conflicts of Interest

> President



Co-owner and developer of



What is RRM?

RRM (Restorative Reproductive Medicine)

Any medical and /or <u>surgical</u> treatments that <u>treat infertility</u>, usually combined with fertility charting. www.iirrm.org

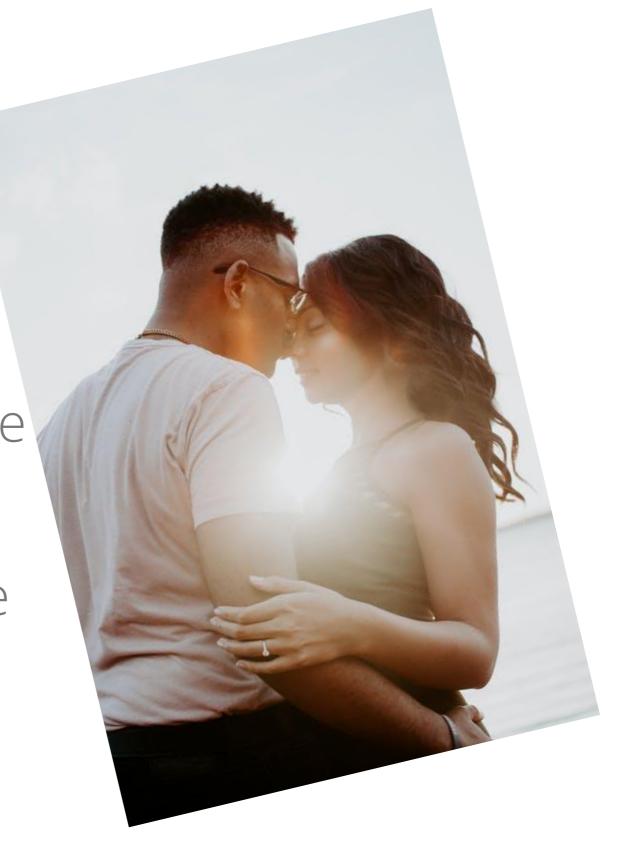
Develop a new medical specialty – challenge current norms with scientific medical perspectives, rather than moral arguments

What is RRM?

Continue for 12 balanced cycles



with love & science



What is IVF?



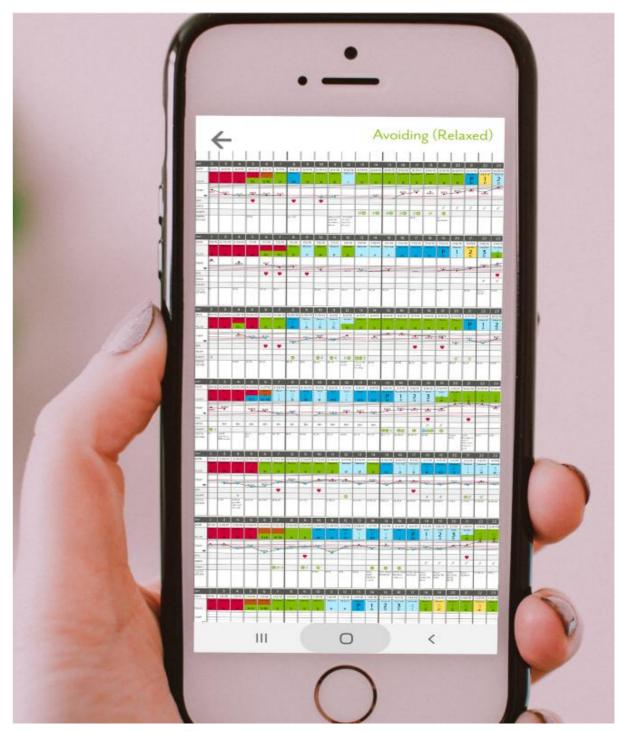
Outside of loving embrace

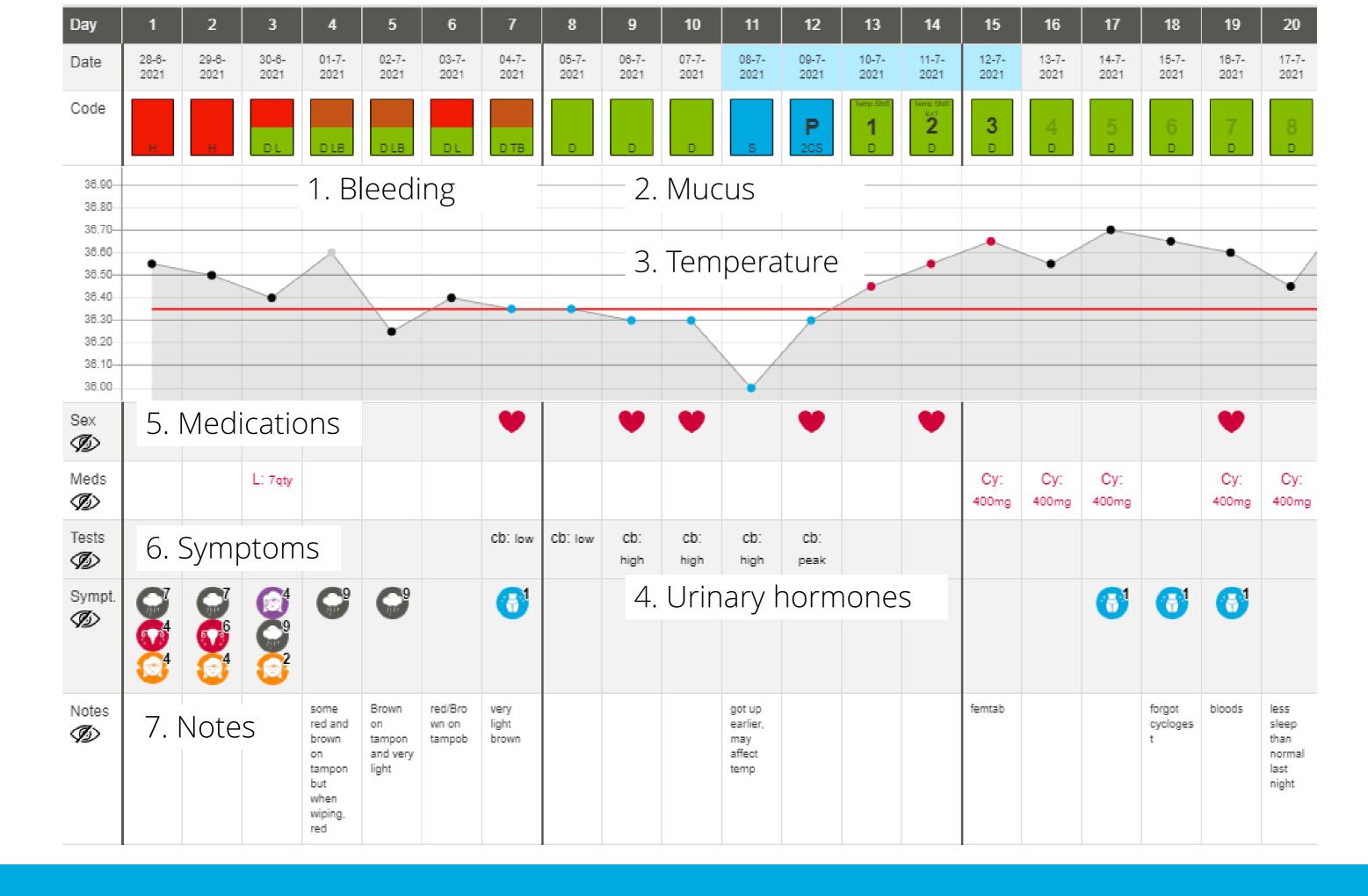


Multiple-Index Method

- Ovulation Method
- Sympto-Thermal Method
- Sympto-hormonal method

Flexible and versatile
Use as many indicators as you choose





NeoFertility Team Couple Fertility Doctors Fertility

Fertility Reception Advisor



OPTIMAL OVULATION & OPTIMAL CYCLES NEW CONCEPTS



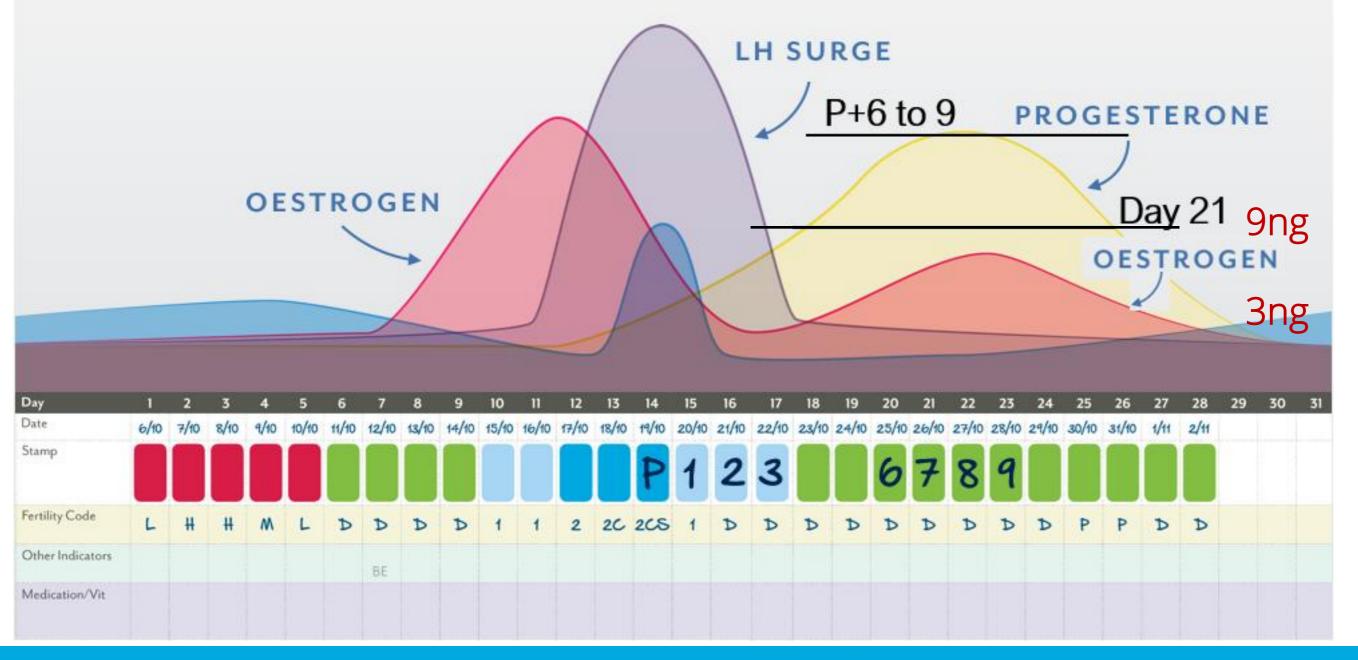
Fertility evaluation of infertile women: a committee opinion. ASRM 2021

- 1. Serum progesterone measurement should generally be obtained approximately 1 week before the expected onset of the next menses, rather than day 21
- 2. a single progesterone value may be used to confirm ovulation

https://www.asrm.org/practice-guidance/practice-committee-documents/fertility-evaluation-of-infertile-women-a-committee-opinion-2021/

Peak +7 Blood Test (New Concept!)

Blood test for oestradiol & progesterone every month on Peak +7 (or 6,8,9) to assess quality of ovulation



P+7 bloods

<u>Progesterone</u>

>60nmol/l

(>19ng/ml)

<u>Oestradiol</u>

>400pmol/l

(>109pg/ml)



Fertility evaluation of infertile women: a committee opinion. ASRM 2021

A <u>progesterone</u> concentration >3 ng/mL provides presumptive and sufficient evidence of recent ovulation

But the authors say

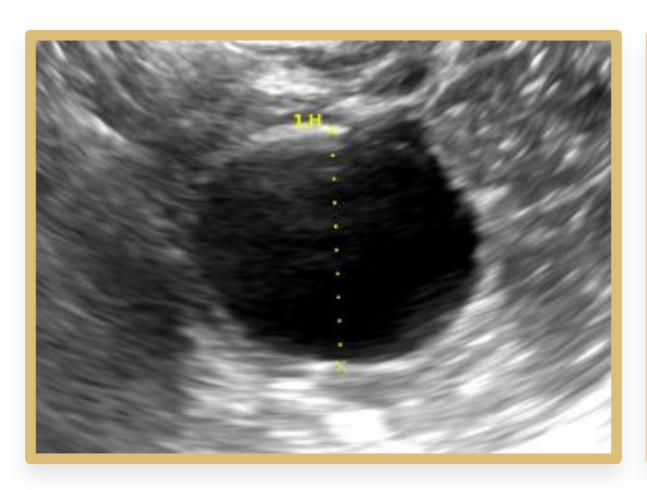
"We accept that these definitions are arbitrary and scientifically unsatisfactory"

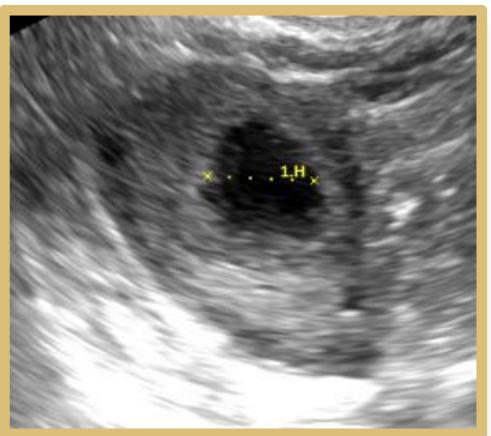
Wathen NC, Perry L, Lilford RJ, Chard T. Interpretation of single progesterone measurement in <u>diagnosis of anovulation and defective luteal phase</u>: observations on analysis of the normal range. Br Med J (Clin Res Ed) <u>1984</u>;288:7–9

MATURE FOLLICLE

COMPLETE RUPTURE

Ultrasound image





Average diameter must decrease by 5mm or more for complete rupture

Contrast with current Fertility Clinics

- 1. Progesterone/Oestradiol deficiency mostly UNDETECTED
- 2. IF it is severe and detected Inadequate treatment

Table 4

Diagnosis	CDC	Pre RRM	Post RRM	
Unexplained	11%	24%	1%	
Recurrent	6%	17%	11%	
miscarriage				
Ovulatory	14%	19%	76%	
dysfunction				
Polycystic ovarian	Not reported	12%	12%	
syndrome				
Corpus luteum	Not reported	0%	71%	
deficiency				
Diminished ovarian	29%	20%	20%	
reserve		45.	10.	
Follicle stimulating	Not reported	4%	4%	
hormone >10 mIU/ml				
Male factor	27%	16%	20%	
Elevated sperm DNA	Not reported	0%	10%	
fragmentation				
Endometriosis	7%	10%	25%	
Tubal factor	10%			
Hydrosalpinx	Not reported	1%	0%	
Blocked tubes	Not reported	3%	2%	
Pelvic inflammatory	Not reported	2%	3%	
disease				
Hypothyroidism	Not reported	7%	24%	
Hyperprolactinemia	Not reported	4%	1%	
Insulin resistance	Not reported	2%	16%	
Hypoandrogenism	Not reported	0%	31%	
Endometritis	Not reported	0%	17%	
(including brown post				
menstrual spotting)				
Symptoms of clinical	Not reported	1%	67%	
endorphin deficiency				
Immune (natural	Not reported	2%	9%	
killer cell, LAD)				

Multifactorial Diagnoses

x3

Treatment of low progesterone

	RRM	Non RRM
Confirmed mid luteal phase		
Oestradiol tested		
Mucus assessed		
Length of Luteal phase confirmed		
Optimal Prog/Oest confirmed		
Follicle rupture confirmed		
Continued for 12 good cycles		

Optimal Cycle

- 1. Semen analysis +/- DNA Fragmentation test
- 2. Treat Chronic Endometritis
- 3. Immune dysfunction
- 4. Laparoscopy
- 5. Hysteroscopy
- 6. Emotional Support

Optimal Cycle

- 1. Relaxed enjoyable intercourse
- 2. Alternate days during best mucus
- 3. Managed expectations 12 cycles

CASE REPORT (12642) 35YRS 2 MISC 18 OVULATION INDUCTION 1 IVF



First visit



- 1st appointment Jan 2022
- Age 35 +7
 TTC Sept 2019 2.5 years
 DX PCOS Long cycles, 38 days (range 12-90 days)
- Rx 18 cycles Ovulation Induction
 (8 x Clomiphene, 3 x Letrozole, 7 x FSH (Gonal F),
 9 cycles with metformin 500mg twice daily
- 1 IVF Hyperstimulated, 17 eggs,
 2 Frozen Embryos transferred



Multifactorial Treatment

- Diet
- Food Intolerance
- Vitamin Deficiency
- Endorphin Deficiency
- Low DHEA
- Reduced
 Sympathetic Tone
- Thyroid dysfunction
- Male treatment

- Follicle stimulation
- Mid cycle HCG
- Luteal phase rx
- Insulin Resistance
- Antibiotics
- NK Cells
- Clotting abnormality

- Laparoscopy
- Hysteroscopy
- Immune dysfunction



Chart 1

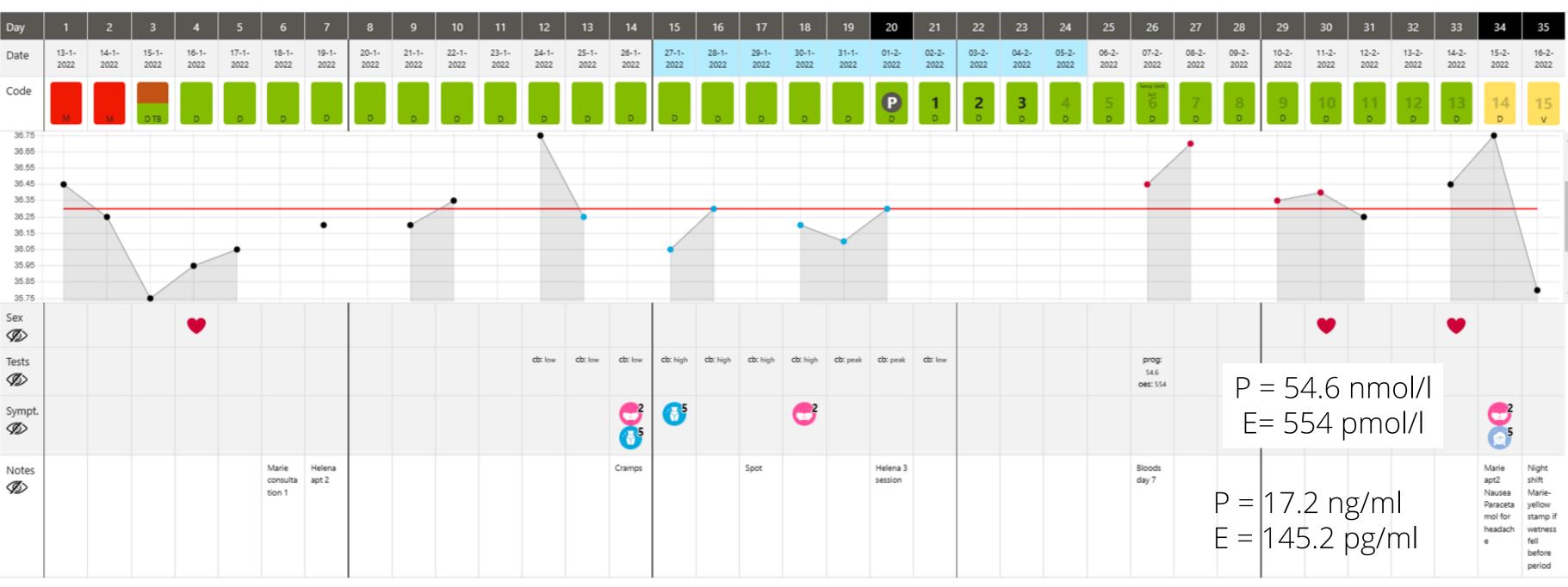
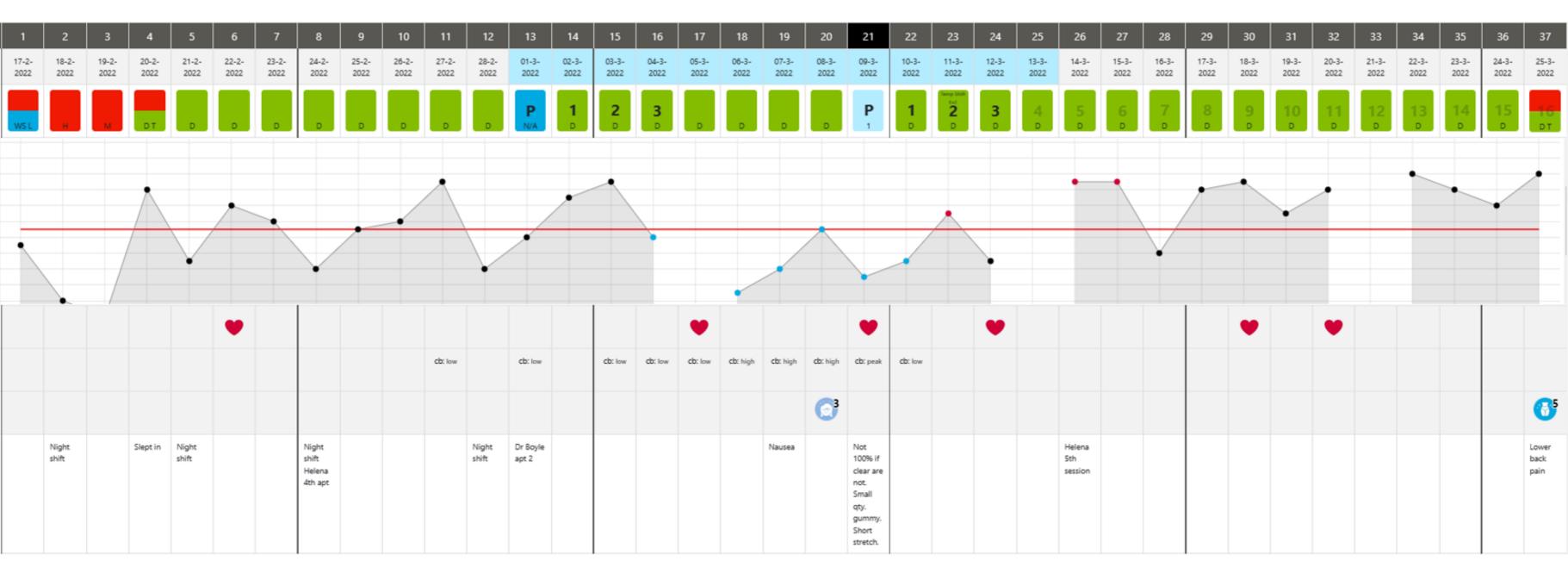




Chart 2





Letrozole 2.5 mg 8 7 tablets od x 2 days, start day Prednisolone 9 once daily x 30 days (Deltacortril EC tab) 5 mg mane 10 Cyclogest 400mg PR/PV x 10 nights, start peak + 3 of cycle Monthly Blood Test P 7 Progesterone and Oestradiol P+6 to 9 11 Follicle tracking day 14 12 one cycle and 19

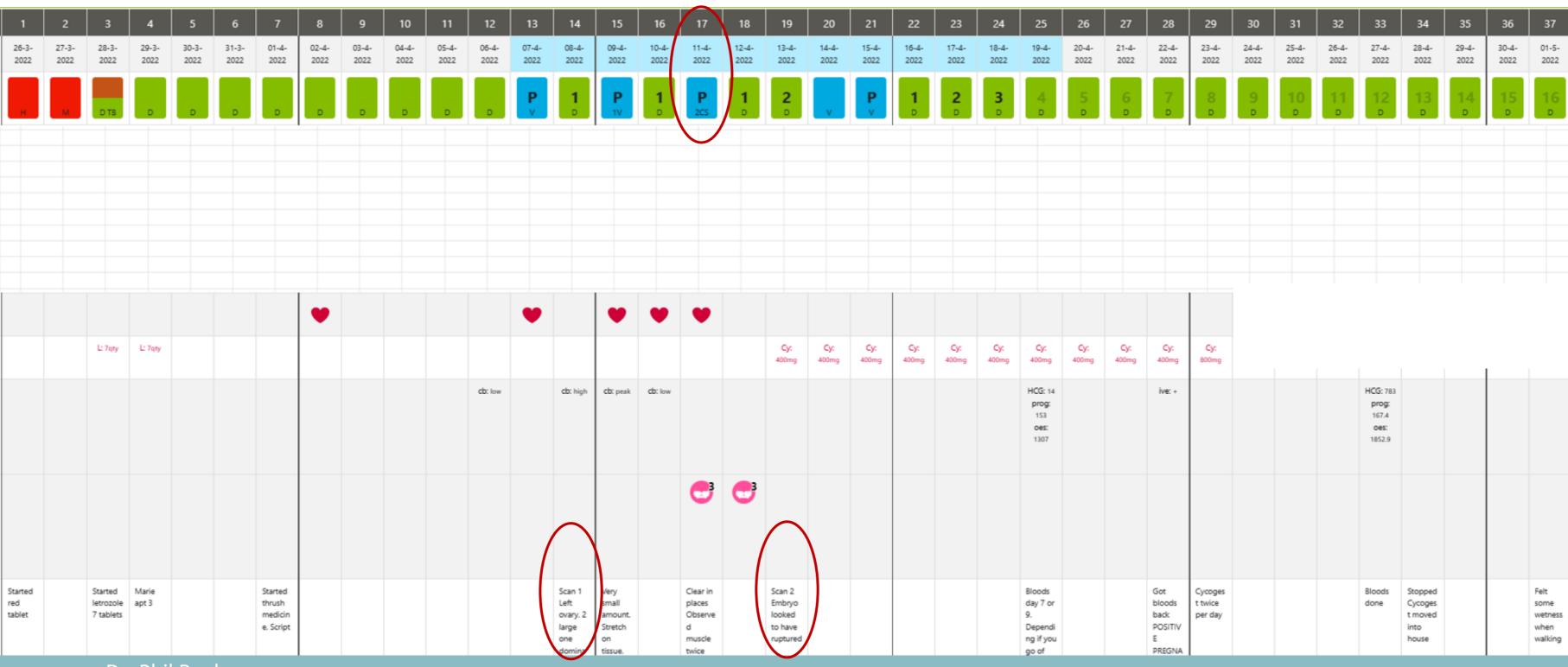


Phase 3

Allow to conceive



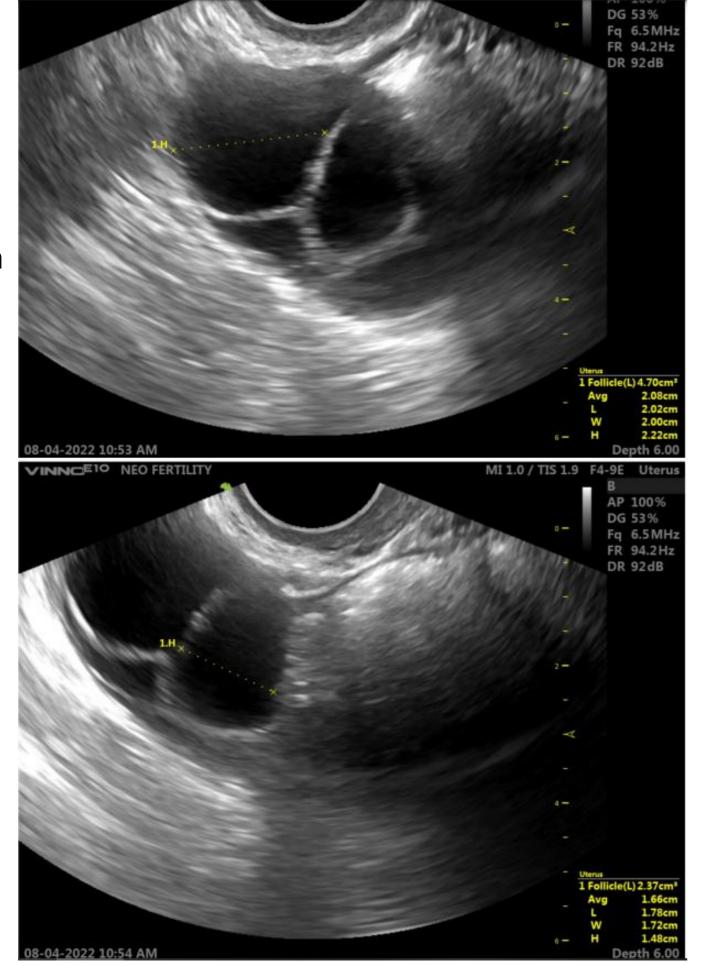
Chart 3

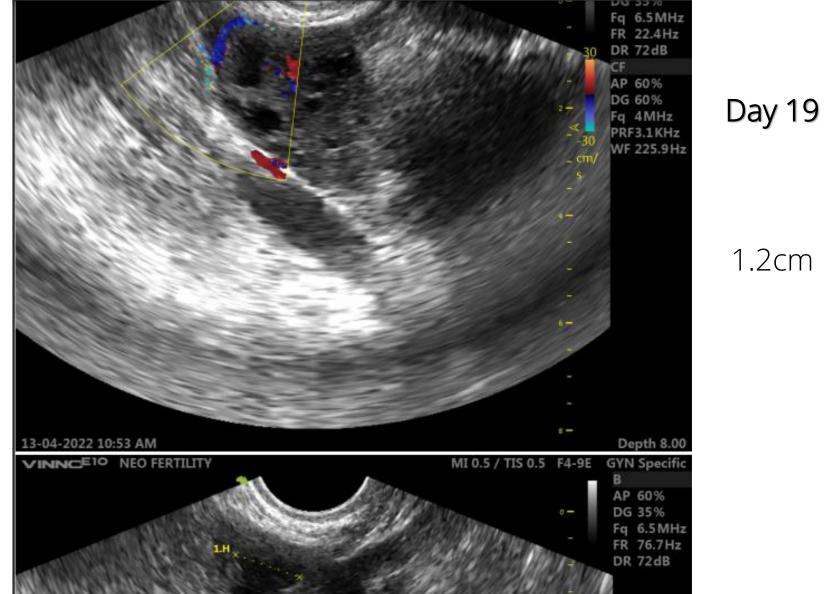


Day 14

2.0cm

1.6cm





13-04-2022 10:54 AM

1.2cm

2nd FR?



Chart 3

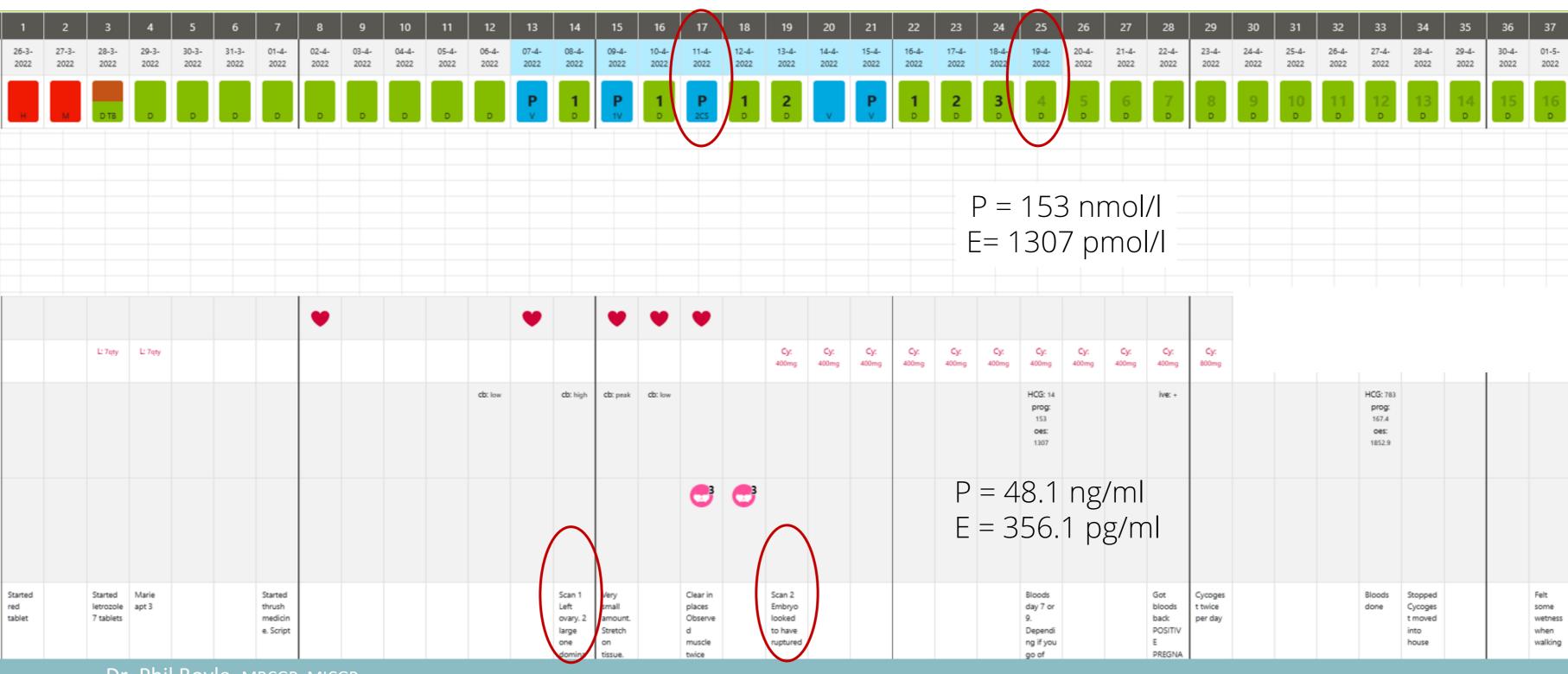
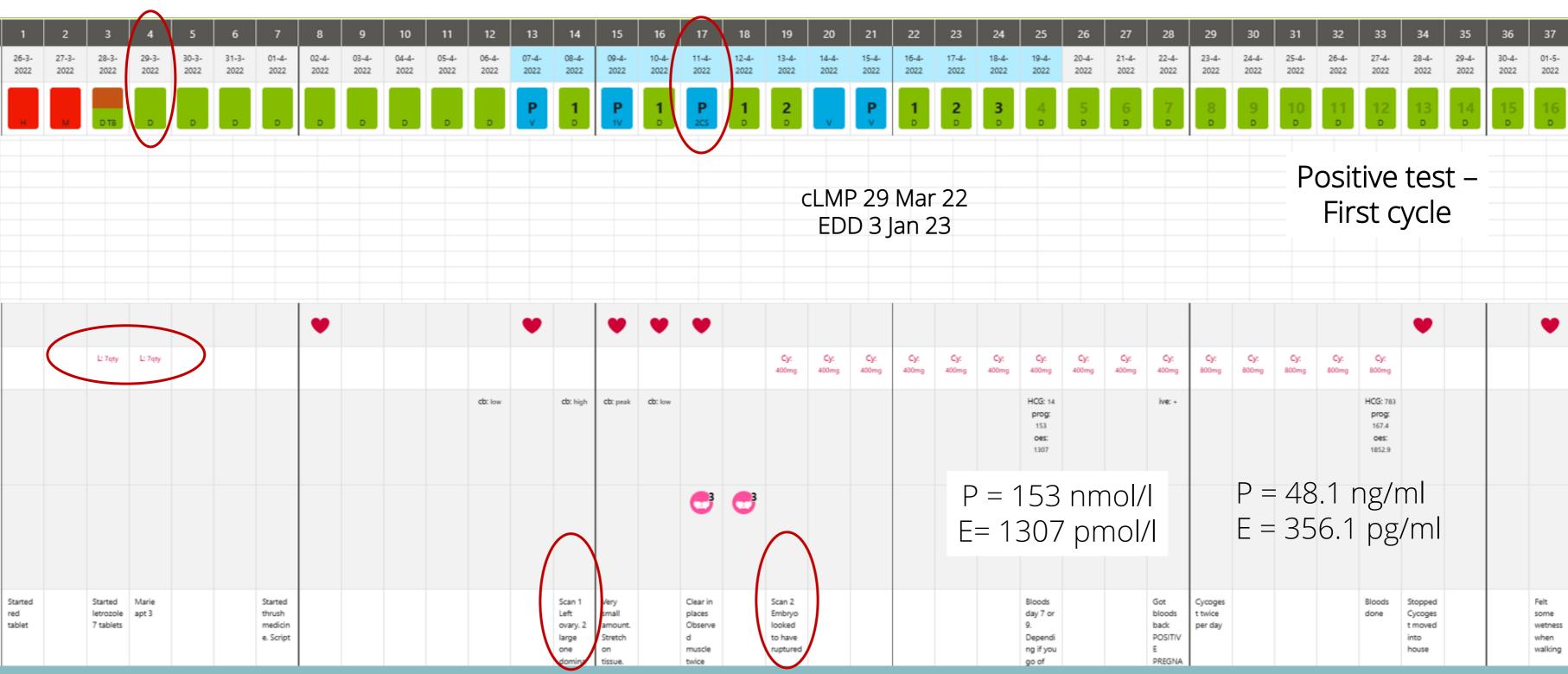


Chart 3



Date	Current Rx	Blood date	Gestation	Prog nmo	Prog ng/n	Oestradiol	Change of Rx	Comments
22-04-2022	**Positive Test**		3w4d (P+11)					
28-04-2022		27-04-2022	4w2d	167.4	52.64	1852.9	stop Cyclo BT 1 week	HCG 783
05-05-2022		04-05-2022	5w2d	167.6	52.70	2754.4	Stop cyc, bt 1 wk, scan 2 wks	HCG 18,216
12-05-2022		11-05-2022	6w2d	114.7	36.07	2978.0	continue no cyc	HCG 95,686

90% confident of good scan - Twins?









- Male
- Born 1Jan 23
- Vacuum delivery
- Full term, healthy
- 7lb 5oz (3316g)





- Repeat treatment
- Male
- Born 16 May 2024
- 5lb 7 oz induced



PUBLISHED CASE REPORTS

1. 16 YEARS INFERTILITY
 2. 5 PREGNANCY LOSSES



Infertility – 16 years, 3 misc, 8 Embryo T/F

Boyle et al. Journal of Medical Case Reports (2022) 16:246 https://doi.org/10.1186/s13256-022-03465-w

Journal of Medical Case Reports

CASE REPORT Open Access



Successful pregnancy with restorative reproductive medicine after 16 years of infertility, three recurrent miscarriages, and eight unsuccessful embryo transfers with in vitro fertilization/intracytoplasmic sperm injection: a case report

Phil C. Boyle^{1*}, Joseph B. Stanford² and Ivana Zecevic³

https://jmedicalcasereports.biomedcentral.com/articles/10.1186/s13256-022-03465-w

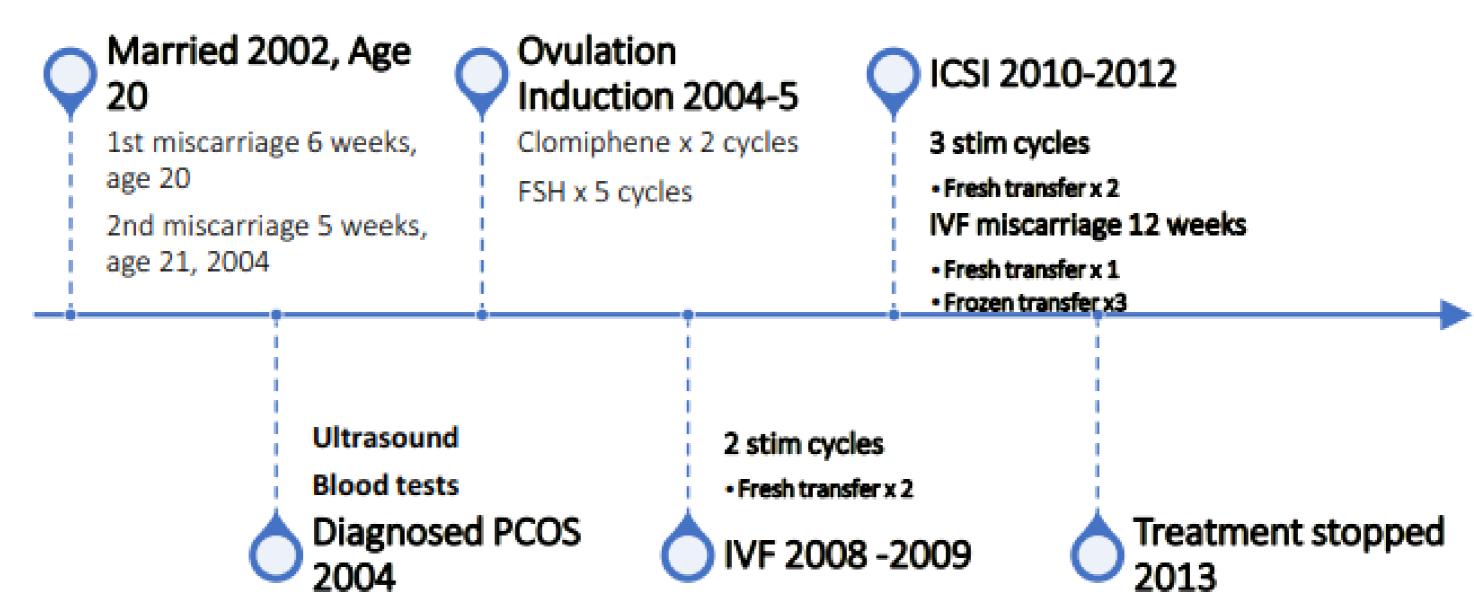


Fig. 1 History timeline

Table 2 In vitro fertilization/intracytoplasmic sperm injection summary

Date	ICSI	IVF	Location	No. of embryos	Grade of embryos transferred (TF)	Fresh or frozen	Nonimplant	Birth, misc ectopic
1. 12/2008		х	Zagreb	2	2, 8-cells and 6-cells	Fresh	×	
2.05/2009		x	Zagreb	2	2, stage morula	Fresh	X	
3.07/2010	X		Zagreb	2	2, 1 morula & 8-cells	Fresh	X	
4. 11/2010	X		Zagreb	3	3, Blastocyst	Fresh		Misc12w
5.05/2011			Zagreb	1	1 6-cells	Frozen	X	
6. 10/2011	X		Zagreb	2	2, 6-cells and 4-cells	Fresh	X	
7. 10/2012			Zagreb	1	1, 8-cells	Frozen	X	
8. 12/2012			Zagreb	1	1, unknown	Frozen	X	

Infertility – 16 years, 3 misc, 8 Embryo T/F

Polycystic ovaries diagnosed in 2004

Cycle 45-53 days

BMI 35.6

AMH 46.4pmol/l (2019)

DHEA-s 11.04 umol/l

RRM Diagnoses

- 1. Polycystic ovarian syndrome diagnosed in 2004
- 2. Hypothyroidism (previously known)
- 3. Poor follicle function
- 4. Low endorphins (clinical)
- 5. Uterine Septum surgically corrected in 2020
- 6. Balanced Robertsonian translocation (Ch 13-14)

3rd balanced cycle after surgery

Starting 04-9-2020 PDF PDF



Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Date	04-9- 2020	05-9- 2020	06-9- 2020	07-9- 2020	08-9- 2020	09-9- 2020	10-9- 2020	11-9- 2020	12-9- 2020	13-9- 2020	14-9- 2020	15-9- 2020	16-9- 2020	17-9- 2020	18-9- 2020	19-9- 2020	20-9- 2020	21-9- 2020	22-9- 2020	23-9- 2020	24-9- 2020	25-9- 2020	26-9- 2020	27-9- 2020	28-9- 2020	29-9- 2020	30-9- 2020	01-10- 2020
Code	M	M	Н	M	V TB	P V TB	1	2	PV	1PV	1V	1V	P	1	2	3	4 D	5 D	6 D	7	8 D	9 D	10 D	11 D	12 D	13 D	14 P	15 P
Sex								•	•			•		•	•	•				•		•	•	•				
Meds	D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Pr: 5mg Myo: 2000mg Euthyrox : 25mg evening primros e oil caps:	D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Pr: 5mg Myo: 2000mg Euthyrox : 25mg evening primros e oil caps:	L: 4qty D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Myo: 2000mg Euthyrox : 25mg evening primros e oil caps:	L: 4qty D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Myo: 2000mg Euthyrox : 25mg evening primros e oil caps:	L: 4qty D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Myo: 2000mg Euthyrox : 25mg evening primros e oil caps:	D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Myo: 2000mg Euthyrox : 25mg evening primros e oil caps: 1300mg	D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Pr: 5mg Myo: 2000mg Euthyrox : 25mg evening primros e oil caps:	D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Pr: 5mg Myo: 2000mg Euthyrox : 25mg evening primros e oil caps:	D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Pr: 5mg Myo: 2000mg Euthyrox : 25mg evening primros e oil caps:	D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Pr: 5mg Myo: 2000mg Euthyrox : 25mg evening primros e oil caps:	D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Pr: 5mg Myo: 2000mg Euthyrox : 25mg evening primros e oil caps:	D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Pr: 5mg Myo: 2000mg Euthyrox : 25mg evening primros e oil caps:	H: 10000iu D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Pr: 5mg Myo: 2000mg Euthyrox : 25mg evening primros	D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Pr: 5mg Myo: 2000mg Euthyrox : 25mg evening primros e oil caps:	D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Pr: 5mg Myo: 2000mg Euthyrox : 25mg evening primros e oil caps:	D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Myo: 2000mg Euthyrox : 25mg evening primros e oil caps: 1300mg	P: 200mg D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Pr: 5mg Myo: 2000mg Euthyrox : 25mg	H: 1500iu P: 200mg D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Pr: 5mg Myo: 2000mg Euthyrox : 25mg	P: 200mg D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Myo: 2000mg Euthyrox : 25mg	H: 1500iu P: 200mg D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Myo: 2000mg Euthyrox : 25mg	P: 200mg D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Myo: 2000mg Euthyrox : 25mg	P: 200mg D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Myo: 2000mg Euthyrox : 25mg	P: 200mg D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Myo: 2000mg Euthyrox : 25mg	P: 200mg D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Myo: 2000mg Euthyrox : 25mg	P: 200mg D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Myo: 2000mg Euthyrox : 25mg		D3: 4000iu O3: 1100mg Fa: 4mcg LDN: 4.5mg Myo: 2000mg Euthyrox : 25mg	
	1300mg	1300mg	1300mg	1300mg	1300mg		1300mg	1300mg	1300mg	1300mg NAC: 1200mg	1300mg NAC: 1200mg	1300mg NAC: 1200mg	e oil caps: 1300mg NAC: 1200mg	1300mg NAC: 1200mg	1300mg NAC: 1200mg	NAC: 1200mg						nmo pmo				Pre tes	egnai t	าсу
Tests											ufs: follicle									ufs: follicle	prog: 165.4 oes: 938.5							

Baby Boy June 2021



Elective C-Section for malpresentation

39 weeks

Baby Boy

3.670kg (8lb 1oz)

Mum and baby well

Baby boy Sept 2024



Spontaneously conceived

Hormone support during pregnancy



PUBLISHED CASE REPORTS

1. 16 YEARS INFERTILITY
 2. 5 PREGNANCY LOSSES



TYPE Case Report PUBLISHED 15 February 2024 DOI 10.3389/fmed.2024.1358563



OPEN ACCESS

EDITED BY Ali Çetin, University of Health Sciences, Türkiye

REVIEWED BY
Abdul Kadir Abdul Karim,
National University of Malaysia, Malaysia
Taylan Onat,
Inönű University, Türkiye

*CORRESPONDENCE
Phil C. Boyle
☑ phil.boyle@neofertility.ie

RECEIVED 20 December 2023 ACCEPTED 30 January 2024 PUBLISHED 15 February 2024

CITATION

Boyle PC, Pandalache C and Turczynski C (2024) Successful pregnancy using oral DHEA treatment for hypoandrogenemia in a 30-year-old female with 5 recurrent miscarriages, including fetal demise at 24 weeks: a case report. Front. Med. 11:1358563. doi: 10.3389/fmed.2024.1358563

COPYRIGHT

© 2024 Boyle, Pandalache and Turczynski. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use. Successful pregnancy using oral DHEA treatment for hypoandrogenemia in a 30-year-old female with 5 recurrent miscarriages, including fetal demise at 24 weeks: a case report

Phil C. Boyle*, Codruta Pandalache and Craig Turczynski

NeoFertility Clinic, Dublin, Ireland

Hypoandrogenemia is not usually considered as a potential cause of recurrent miscarriage. We present the case of a 30-year-old female with 6 previous pregnancies resulting in one live birth and 5 pregnancy losses, including fetal demise at 24 weeks gestation. She had standard investigations after her 4th loss, at a specialized miscarriage clinic. Lupus anticoagulant, anticardiolipin antibodies, thyroid function, parental karyotypes were all normal. Fetal products

30yrs, 6 pregnancies, 1 live birth

Reason for Request: DAY 3

24 Feb 2022

Test Name:	Result:	Flag:	Reference Range:
Testosterone	<0.4 nmol/L	LOW	0.0.1.0
Sex Hormone Bindi:			0.3-1.7
Globulin	ng 78.1 nmo 1/L	Androgen	24.6-122
Free Testosterone Index	<0.5	Levels	0.3-5.6
DHEA Sulphate	1.8 umol/L	Low	0 7 0 0
Thyroglobulin		2011	2.7-9.2
	8.8 ng/ml		3.5-77
Anti-Thyroglobulin	1 <20 IU/ml		0-115

KEY FINDINGS

- 1. LOW DHEA
- 2. LOW ENDORPHINS
- 3. LOW PROGESTERONE



30yrs, 6 pregnancies, 1 live birth

Clomid 50mg

50mg daily for 5 days, start day

3 of cycle

HCG (Gonasi) 10,000 iu SC

2 x 5,000iu vials.

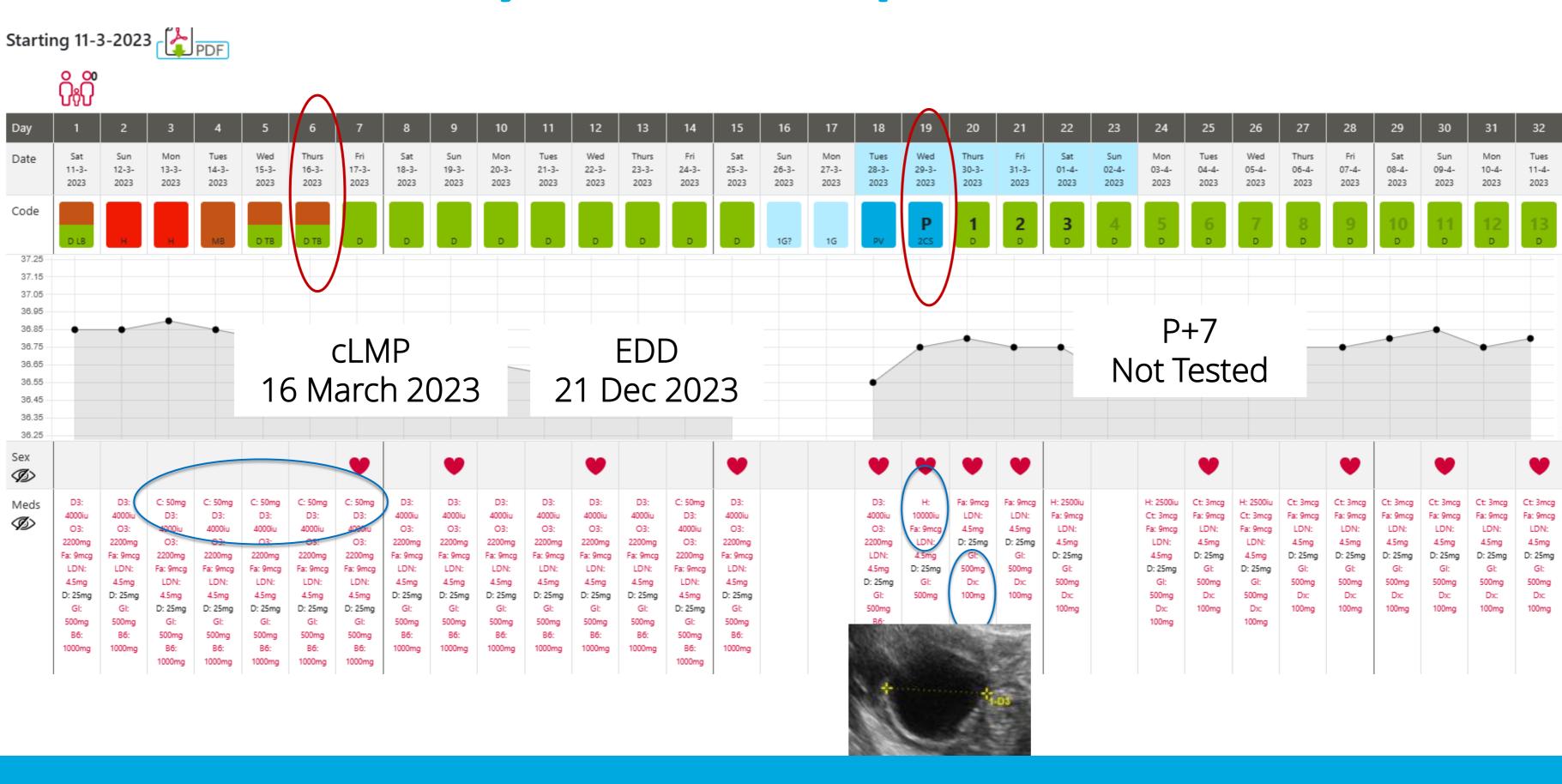
with pos ov test

HCG (Gonasi) 2,500iu Peak

3 x 5000iu Vials

+3.5.7 of the cycle

Cycle of conception



Pregnancy prescription

We continued treatment during pregnancy with

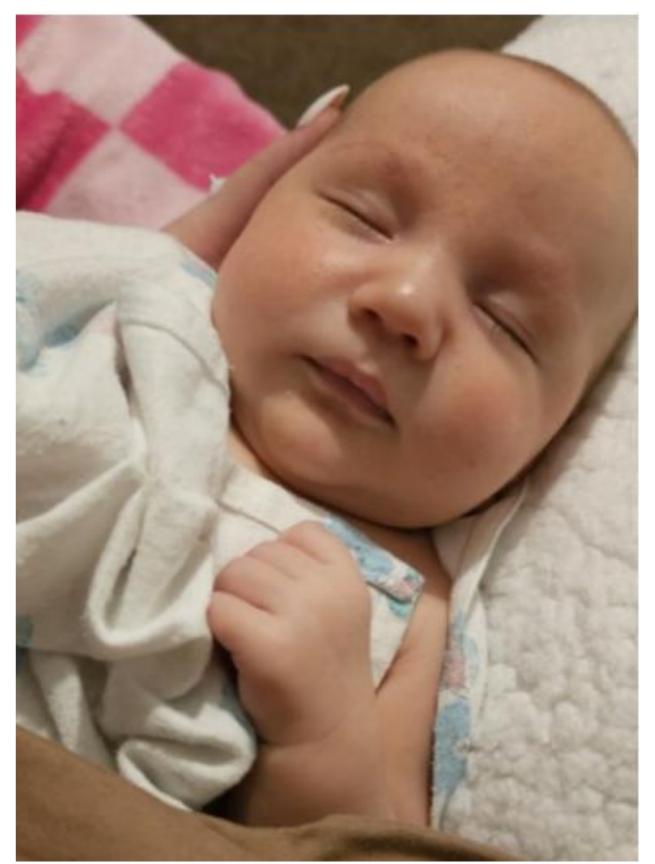
- DHEA 20 mg once daily
- Cyclogest® (Progesterone) pessaries 400 mg pv twice daily
- Naltrexone 4.5 mg nightly.

30yrs, 6 pregnancies, 1 live birth

Date	Current Rx	Blood date	Gestation	Prog nmo	Prog ng/n	Oestradiol	Change of Rx	Comments
14-04-2023	P+16		positive today					
17-04-2023		17-04-2023	4w5d (P+19)	30.6	9.62	1524		HCG 2025.1
24-04-2023	Cyclo bd, DHEA 10 bd	24-04-2023	5w5d	75.8	23.84	1893	slow rising HCG - cautious	HCG 14659.8
28-04-2023	Cyclo bd, DHEA 10 bd	28-04-2023	6w2d	70.8	22.26	2138	C to call	HCG 29690.6

Successful Pregnancy

- Planned C section, Nov 2023
- Healthy Boy
- 6lb 12 oz (3080g)





Dr Achebe and Dr Craig Turczynski July 2025

Research Paper of the year award 2025 American Academy of FertilityCare Professionals

Boyle P, Andralojc K, van der Velden S, Najmabadi S, de Groot T, Turczynski C, Stanford JB. **Restoration of serum estradiol and reduced incidence of miscarriage in patients with low serum estradiol during pregnancy**: a retrospective cohort study using a multifactorial protocol including DHEA. Front Reprod Health. 2024 Jan 4;5:1321284.



Retrospective review of evolving clinical practice 2009-2017

Treatment							
No Estradiol or	Estradiol	DHEA					
DHEA 2009–2011	2013–2015	2015-2017					

- 1. Observation... 2009-2011....Weekly blood tests 1st 3 weeks
- 2. Estradiol..... 2013-2015
- 3. DHEA2015-2017

Current practice is to identify and treat DHEA deficiency before conceiving, so less DHEA is needed during pregnancy



3. Risk of miscarriage reduced from 45.5% to 17.5% (p = 0.038) with DHEA treatment during pregnancy

TABLE 4 Estradiol or DHEA supplementation and pregnancy outcome in 114 pregnant women with low serum estradiol levels in early pregnancy.

	Treatment						
	No Estradiol or DHEA 2009–2011	Estradiol 2013–2015	DHEA 2015–2017				
Total patients	22	52	40				
Pregnancy outcor	mes n (%)						
Miscarriage	10 (45.5)	11 (21.2)	7 (17.5)*				
Premature delivery	0 (0)	4 (7.7)	3 (7.5)				
Term delivery	11 (50.0)	36 (69.2)	30 (75.0)				
Missing	1 (4.5)	1 (1.9)	0 (0)				
Births	11	40	33				
Fetal outcomes n	(%)						
Very low birth weight (<1,500 gr)	0	0	0				
Low birth weight (1,500-2,500 gr)	1 (9.1)	0	2 (6.1)				
Preterm (<37 weeks	0	4 (10.0)	3 (9.1)				
Small for gestational age	2 (18.2)	3 (7.5)	2 (6.1)				
Large for gestational age	4 (36.4)	6 (15.0)	6 (18.2)				

DHEA = dehydroepiandrosterone.



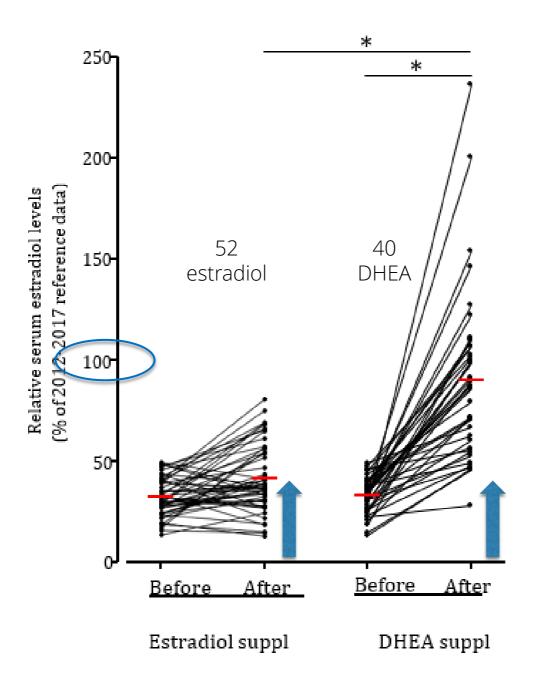
^{*}p < 0.05 as compared to "No Estradiol or DHEA".

KEY POINTS

- 1. THIS TREATMENT IS FOR WOMEN WITH LOW OESTRADIOL IN PREGNANCY
- 2. DHEA DRAMATICALLY IMPROVED LOW OESTRADIOL LEVELS (P < 0.0001)
- 3. RISK OF MISCARRIAGE REDUCED FROM 45.5% TO 17.5% (P = 0.038) WITH DHEA TREATMENT DURING PREGNANCY
- 4. FIRST PAPER SHOWING BENEFITS OF DHEA TREATMENT DURING PREGNANCY



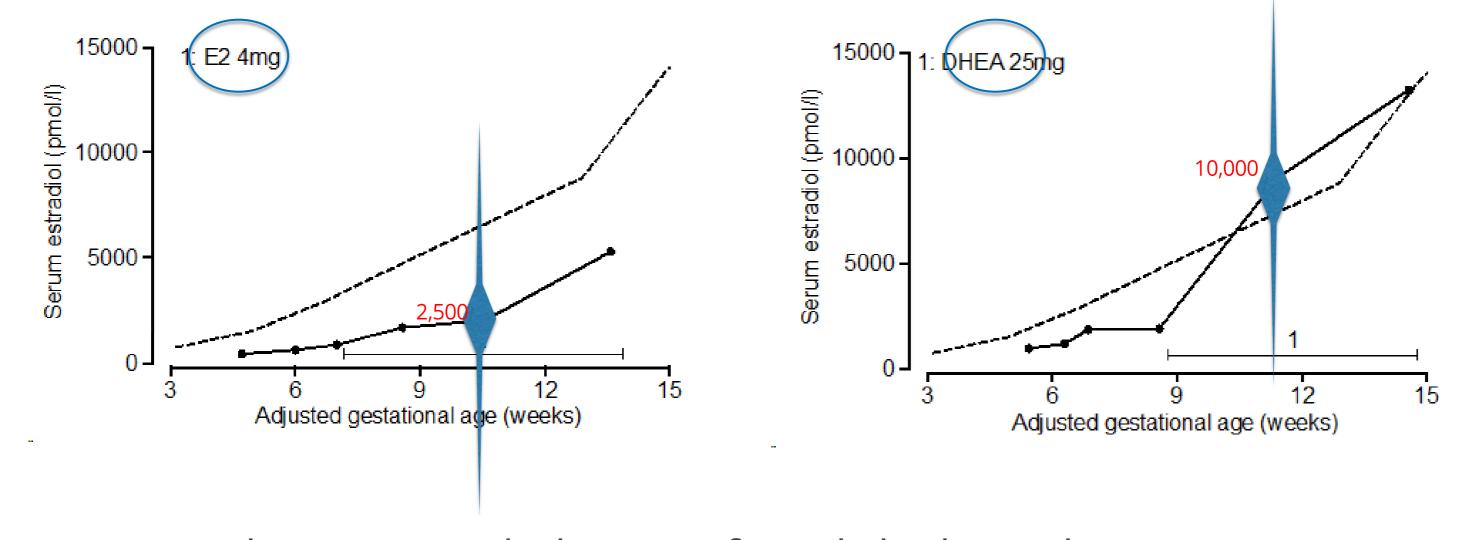
2. DHEA dramatically improved low oestradiol levels



Among women with low serum estradiol levels in early pregnancy, the mean relative serum estradiol level increased from 33.2% to 90.2% (p < 0.0001), after supplementation with DHEA,

neo fertility

2. DHEA dramatically improved low oestradiol levels



DHEA supplementation led to significantly higher relative serum estradiol levels as compared to estradiol supplementation (p < 0.0001)



4. First paper showing benefits of DHEA during pregnancy

DHEA

- May improve egg quality pre-conception
- Continue during pregnancy for optimal oestradiol

More studies are needed This paper offers hope to women with recurrent miscarriage.

Future studies will likely show DHEA reduces risk of premature delivery.





4lb 13 oz, 35 weeks, Oct 2017

5lb 6 oz, 36 weeks, March 2020



DHEA treatment during pregnancy

Measure total and free testosterone during pregnancy treated with DHEA



RRM COMPARED TO IVF



Peer Reviewed Publication 2025

ORIGINAL RESEARCH



Restorative reproductive medicine (RRM) outcomes compared to in-vitro fertilization (IVF) for the treatment of infertility: a retrospective evaluation of a 2019 clinic cohort compared to one cycle of IVF

Phil C. Boyle¹, Agnes Toth¹, Monica Minjeur², Craig Turczynski^{1,3}

¹NeoFertility Clinic, Suite 7, Beacon Mall, Sandyford, Dublin 18; ²Radiant Clinic, Cedar Rapids, IA, 52402; ³Billings Ovulation Method Association. St Cloud, MN 56302

DOI: https://doi.org/10.63264/gejytw70

JOURNAL OF RESTORATIVE REPRODUCTIVE MEDICINE |

https://rrmjournal.org/index.php/jrrm/article/view/9

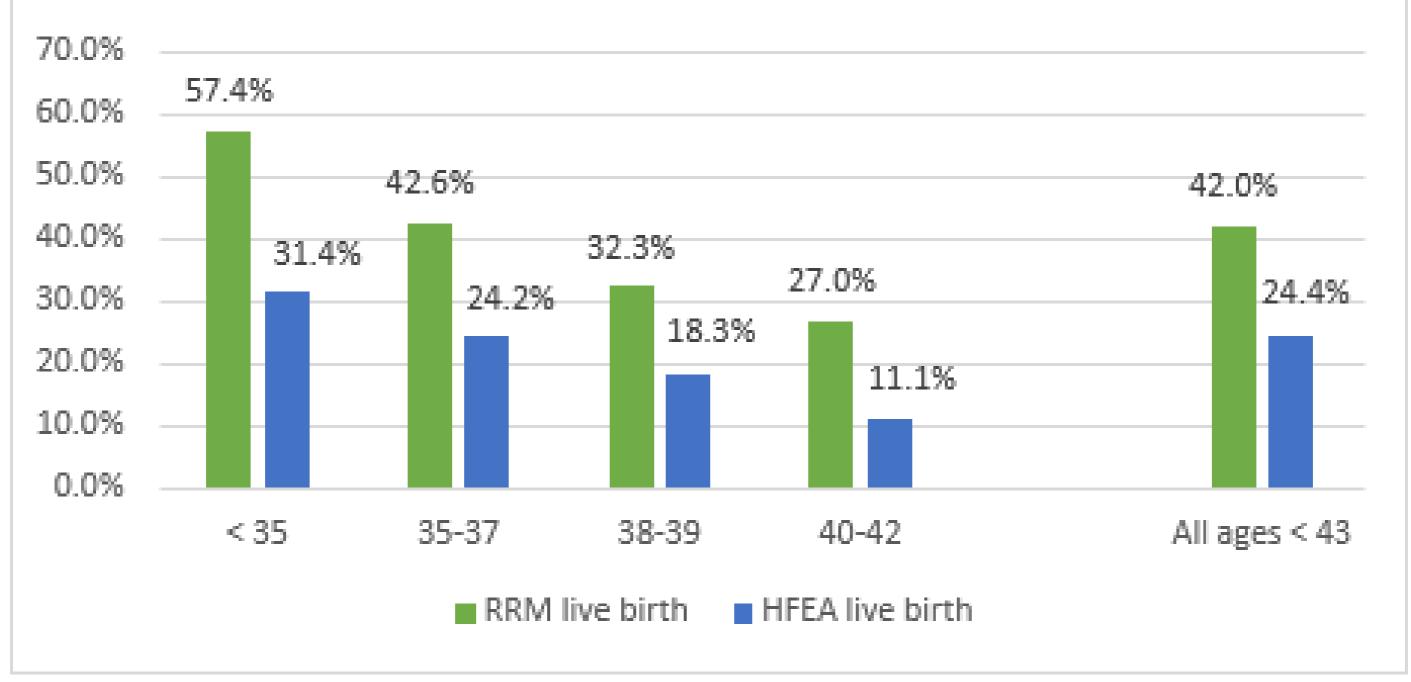
Study Outline

RRM and IVF outcomes 2019 Data

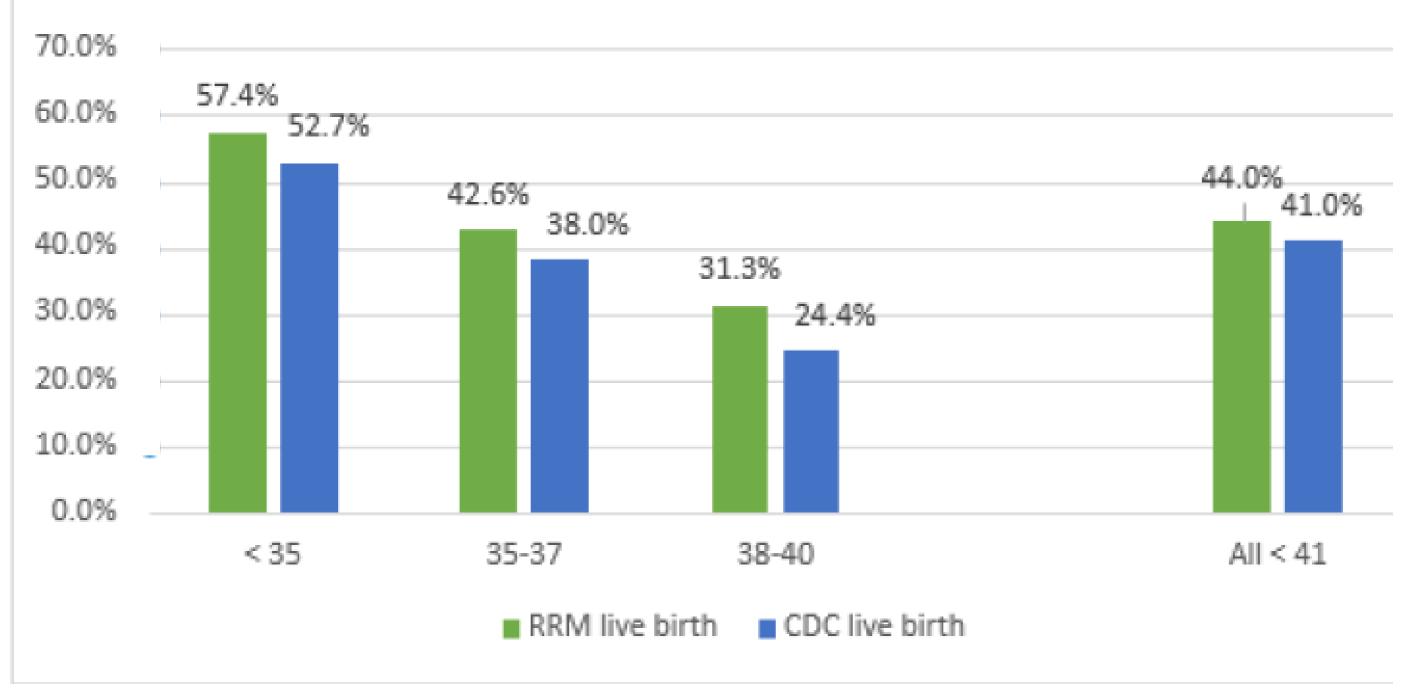
- 1. Objectives
- 2. Methods
- 3. Results
- 4. Conclusion
- 5. Limitations

	RRM	HFEA (UK)	CDC/SART (USA)
Live Birth Rate	41%	24%	37%
Twins	2.5%	7%	6%
Premature Birth	6.5%	N/A	14.4%
Very premature	0%	N/A	N/A
Birth Weight	3422g (7lb9oz)	N/A	N/A
Weeks gestation	39w	N/A	N/A

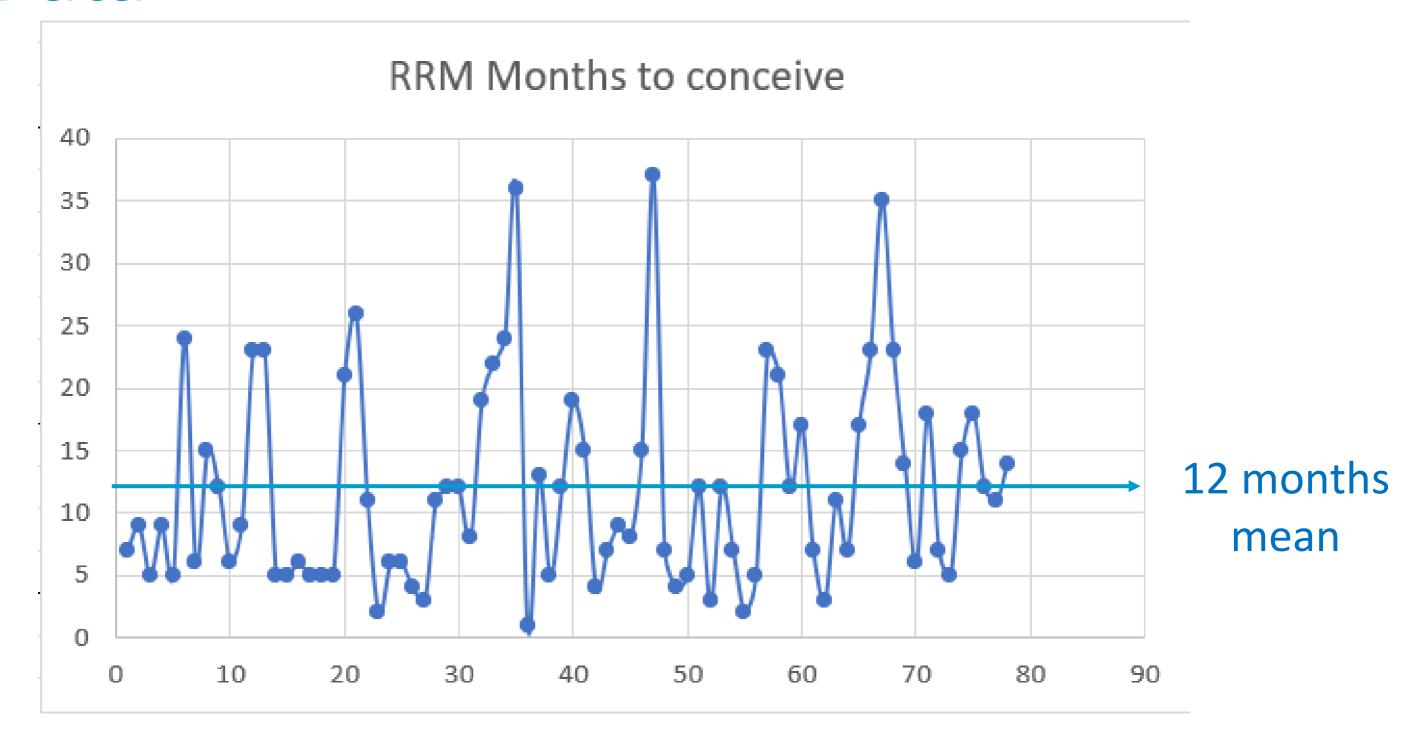
Percentage Live Birth RRM at the Dublin Clinic vs UK Data 2019



Percentage Live Birth RRM at the Dublin Clinic Compared to US (CDC) Data 2019



RRM Data



RRM Data

	RRM	IVF
Live Birth Rate	44%	41%
Lower cost	~	
Improved Health	>	
Individualized treatment	>	
Minimal side effects	>	
Noninvasive	>	
Twin pregnancy rate	2.5%	6%
Premature Delivery rate	6.5%	14%
Repeat successful pregnancy	~	
Surplus Embryos	None	Many

Age 40 and under

RRM Data

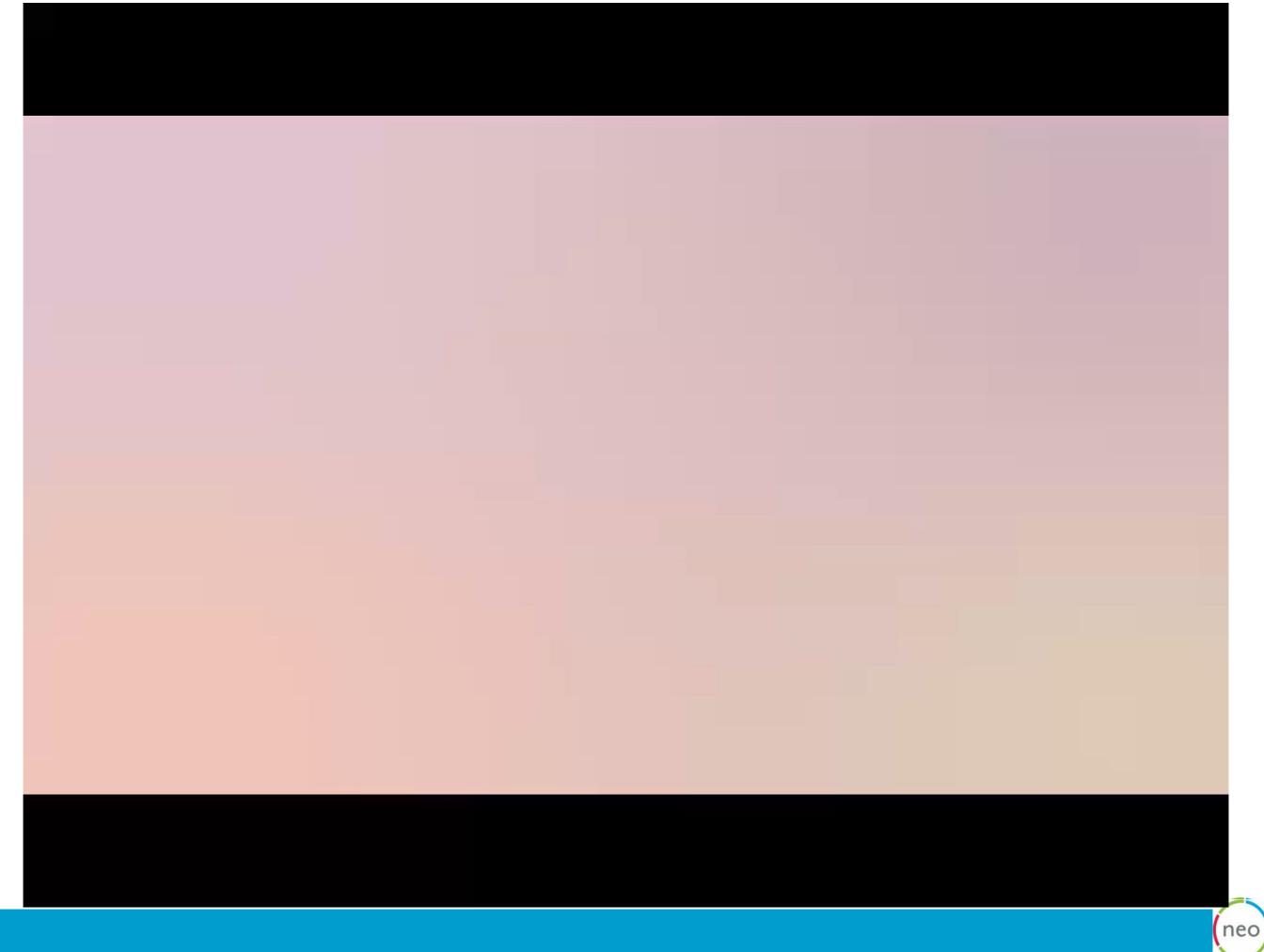
May have comparable or higher success (Live Birth Rate)

Less than half the cost per couple

Improved maternal and fetal health

Reduced number of premature babies and low birth weight, this data needs to be included in cost analysis

The majority can have a repeat successful pregnancy



References

- 1. Boyle PC, Stanford JB, Zecevic I. <u>Successful pregnancy with restorative reproductive medicine after 16 years of infertility, three recurrent miscarriages, and eight unsuccessful embryo transfers with in vitro fertilization/intracytoplasmic sperm injection: a case report. J Med Case Rep. 2022 Jun 22;16(1):246. doi: 10.1186/s13256-022-03465-w. PMID: 35729591; PMCID: PMC9213097.</u>
- 2. Boyle PC, Pandalache C, Turczynski C. <u>Successful pregnancy using oral DHEA treatment for hypoandrogenemia in a 30-year-old female with 5 recurrent miscarriages</u>, including fetal demise at 24 weeks: a case report. Front Med (Lausanne). 2024 Feb 15;11:1358563. doi: 10.3389/fmed.2024.1358563. PMID: 38426161; PMCID: PMC10902037.
- 3. Boyle P, Toth A, Minjeur M, Turczynski C. Restorative reproductive medicine (RRM) outcomes compared to in-vitro fertilization (IVF) for the treatment of infertility: a retrospective evaluation of a 2019 clinic cohort compared to one cycle of IVF. J Restorative Reprod Med [Internet]. 2025 Sep. 16 Available from: https://rrmjournal.org/index.php/jrrm/article/view/9
- 4. https://orcid.org/my-orcid?orcid=0000-0003-2555-6294

References

5. Boyle P, Andralojc K, van der Velden S, Najmabadi S, de Groot T, Turczynski C, Stanford JB. Restoration of serum estradiol and reduced incidence of miscarriage in patients with low serum estradiol during pregnancy: a retrospective cohort study using a multifactorial protocol including DHEA. Front Reprod Health. 2024 Jan 4;5:1321284. doi:

 $\underline{10.3389/frph.2023.1321284}$

Thank You