

# Premenstrual Syndrome(s)

## Understanding and management through case examples

Claire Bellone (NMP)

Nurse Consultant

Chelsea Westminster Hospital NHS Trust

# Conflicts of interest

- Educational sponsorship from Pharma
- Honorariums from Pharma

# Premenstrual Syndrome - A timeline

*Hippocrates' Aphorisms* – (370BC) 'shivering, lassitude and heaviness of the head denotes onset of menstruation...'

*Henry Maudsley (1873)* - First to make connection between PMS & cyclical ovarian activity

*Frank (1931)* - First use of term "Premenstrual tension"

*Greene & Dalton (1953)* – "Premenstrual syndrome"

*John Studd / Adam Magos (1986)* – HT (Estrogen Implants) for PMS

*John Studd (1988)* – "Ovarian Cycle Syndrome"

*PMS O'Brien (2008)* – International Society for Premenstrual Disorders





Lifestyle > Health & Families > Health News

## Up to a million British women may suffer from psychosis due to PMS, gynaecologist warns

'I got psychosis and started seeing things which weren't there. It happened just like that', one woman told The Independent

Siobhan Fenton Health Correspondent | @siobhanfenton | Wednesday 19 October 2016 | 1 comment



4K  
shares

Dr Panay says women are being let down by a toxic mix of “poor education of the public regarding the condition; poor education of health professionals at university and postgraduate level; social stigma/taboo and prejudice that this is not a ‘real’ condition.”

# RCOG Guidelines for Premenstrual Syndrome

[www.rcog.org.uk](http://www.rcog.org.uk)

Development of consensus and guidelines on PMS essential to encourage acceptance of condition by patients/health professionals and regulatory authorities

## “Management of Premenstrual Syndrome”



- 2007 RCOG Green-Top Guideline No 48
  - Panay et al.
- 2017 RCOG Green-Top Guideline No 48
  - Baker L, Panay N, Craig M, O’Brien PMS



Royal College of  
Obstetricians &  
Gynaecologists

\* guidelines systematically developed using standardised evidence-based methodology

# PMS Guidelines


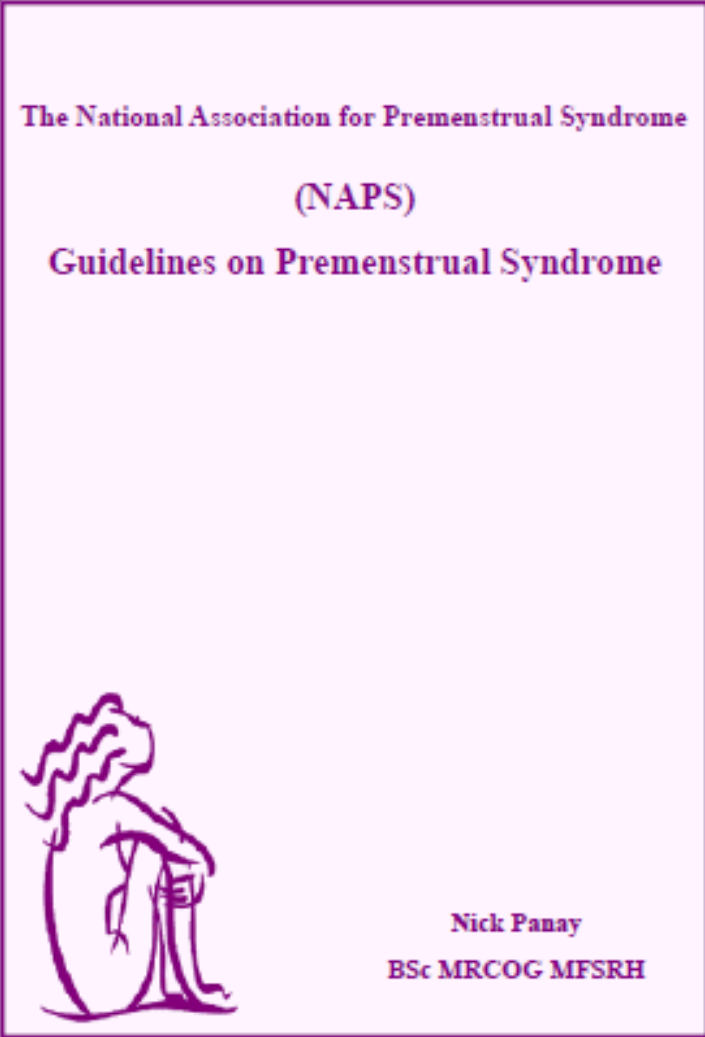


**Management of Premenstrual Syndrome**

Green-top Guideline No. 48  
November 2016

Please cite this paper as: Management of premenstrual syndrome. BJOG 2016; DOI: 10.1111/1471-0528.14260.

<https://doi.org/10.1111/1471-0528.14260>



**The National Association for Premenstrual Syndrome  
(NAPS)  
Guidelines on Premenstrual Syndrome**

**Nick Panay**  
BSc MRCOG MFSRH

[www.pms.org.uk](http://www.pms.org.uk)

# PMS: Aetiology & Prevalence

- Prevalence

- Peak prevalence of severe PMS in 40-50y age group
- Moderate PMS: 24% in SWS
- Severe PMS (PMDD) 5-8%<sup>2</sup> in general population v 23% in perimenopausal women

- Aetiology

- Likely to be multiple aetiologies (E2/serotonin, Progesterone-allopregnanolone/GABA)
- (Cyclical) ovarian activity / hormonal fluctuations play an essential role in the genesis of symptoms, also in VMS
- Probable genetic predisposition – unique ESR1 gene polymorphisms in PMDD sufferers v controls.

# International Society for PreMenstrual Disorders (ISPMD) Consensus on Definitions, Diagnosis and Management

- **Core Premenstrual Disorders (PMDs):** Classic PMS: Ovulatory cycles, functional impairment, post menstrual resolution

- **Variants**

- **Premenstrual Exacerbation** e.g.epilepsy, migraine
- **Non Ovulatory PMDs:** ovarian activity( perimenopause)
- **Progestogen Induced:** side effects of OCP / HRT
- **PMDs without Menstruation:** post TAH / ablation

PSYCHOLOGICAL & BEHAVIOURAL SYMPTOMS
Mood swings, depression
Tiredness, fatigue or lethargy, irritability
Anxiety, feeling out of control
Reduced cognitive ability, aggression, anger
Sleep disorders, , food cravings

PHYSICAL SYMPTOMS
Breast tenderness, skin rashes
Bloating, weight gain, clumsiness
Headaches, backache



# Premenstrual Dysphoric Disorder (PMDD)

## American Psychiatric Association DSM-5

A depressive disorder, with a 12-month prevalence ranging from 1.8% to 5.8% among women who menstruate

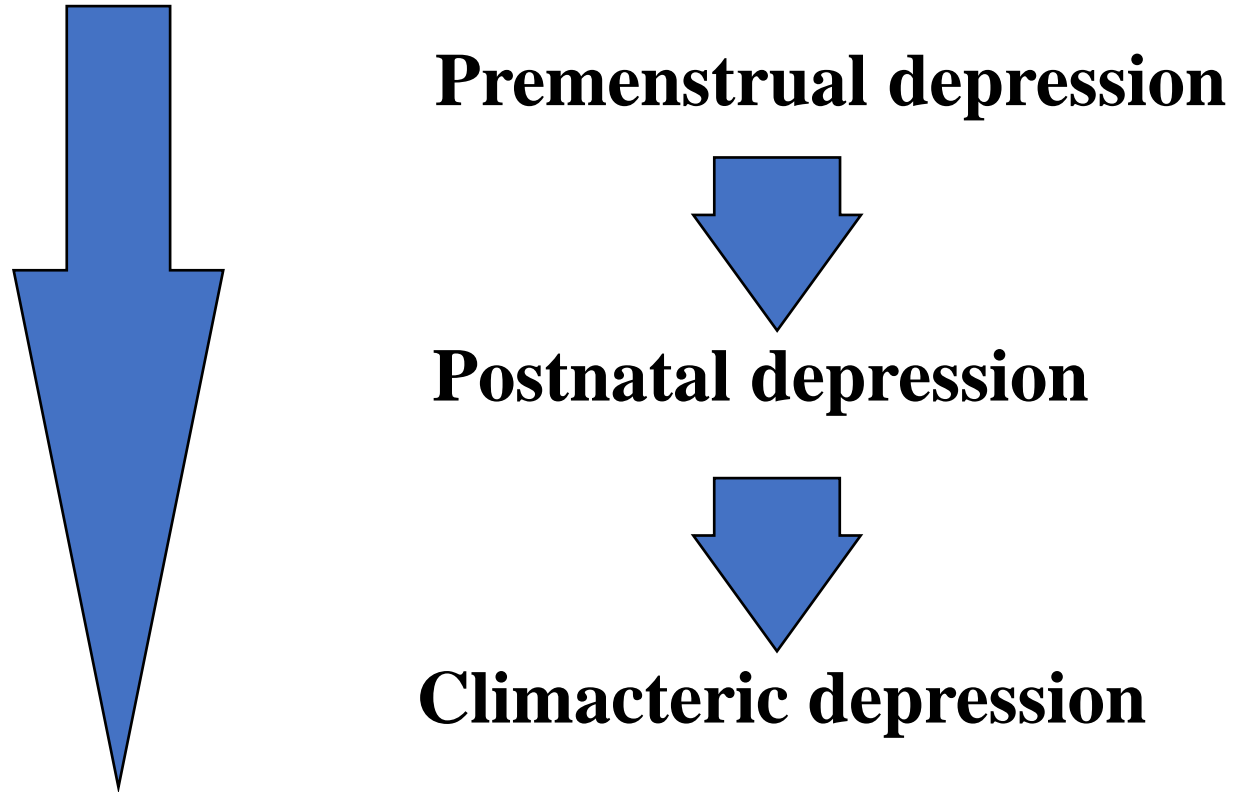
Factors that differentiate PMDD from other affective disorders include aetiology, duration, and temporal relationship with the menstrual cycle

- Demands 5 out of 11 stimulated symptoms, of which 1 must be mood
  - Must occur in the luteal phase
  - Is a distinct diagnosis but may occur with other psychopathology
  - Clinically significant distress or interference with work, school, usual social activities, or relationships with others
- 
- Criticism: the strict criteria may exclude women who may have a narrow range of severe symptoms
  - Many women seek this diagnosis to legitimise their symptoms and desperate to be believed

# Definitions: PMS or PMDD?

- NAPS changed its name to the National Association for Premenstrual Syndromes from “...Syndrome” to reflect the variation in definitions and severities of this disorder.
- Current PMS terminology should be maintained because PMDD refers to only one type of severe form of PMS.
- Education of public and HCPs is the key issue going forward.
- It is vital that there is universal recognition of the severe impact that PMS can have, whatever terminology is used.

# The triad of estrogen responsive depressive disorders





# Screening and Differentiation: PMS and other common psychiatric disorders

- Screening question: How many good days do you have a month?

- DDX: Bipolar disorder, borderline personality disorder
  - Psychiatric disorders do not follow the regularity of the ovarian cycle<sup>¥</sup>
  - Other psychiatric disorders may be co-morbid or exacerbated

- Differentiation: Symptoms cause significant impairment during the luteal phase of the menstrual cycle, resolving with menstruation.

<sup>¥</sup> Exception: PMDD

# PMS – that's too complicated for me?

- Hormones are not completed
  - They follow a logic
  - They go in a cyclical predictable pattern
  - The menstrual cycle is a seesaw
  - Push one side, the other reacts
- 
- PMS treatment principles aim to maintain status quo
  - Balance and equilibrium
  - Daily balance with no variability = No PMS
- 
- Finding the individual treatment combination is the challenge



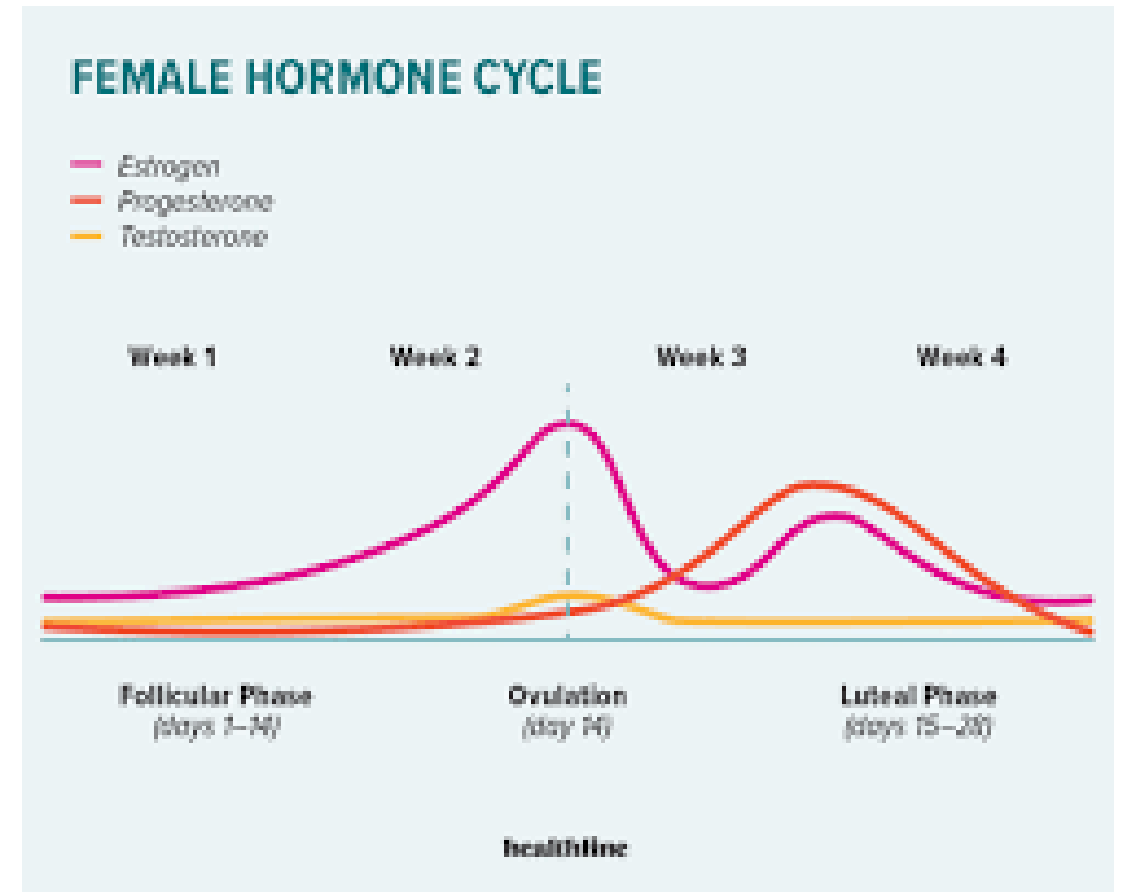
# Explaining PMS – Dx from clinical presentation

There are no diagnostic tests for PMS

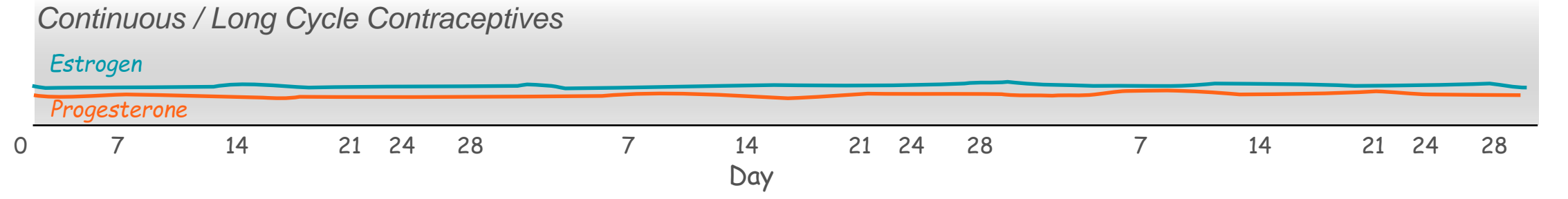
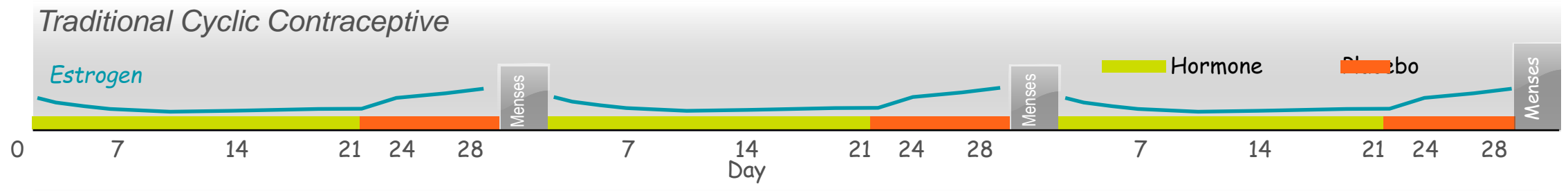
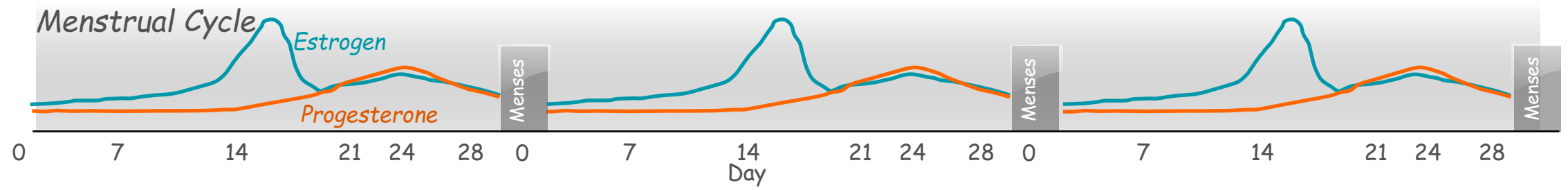
- Light switch



- Seesaw



# Moderation of Hormonal Fluctuations





# PMS, Pregnancy, Progesterone

- 'I felt the most well when pregnant'
- 'The best time of my life'

## WHY?

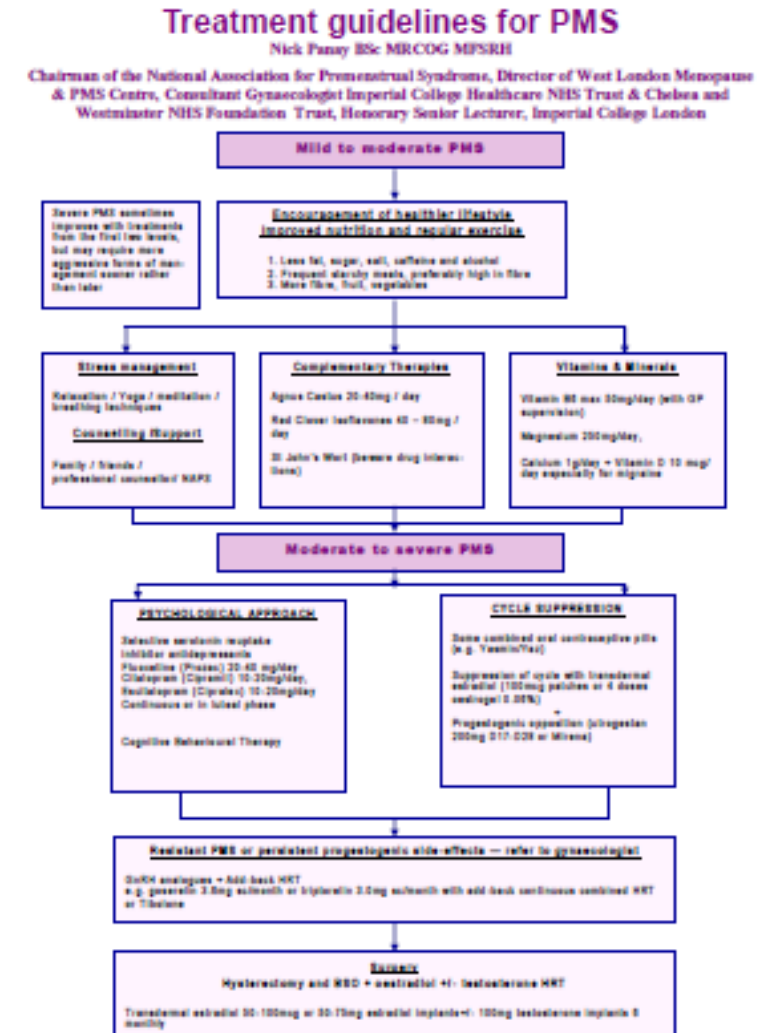
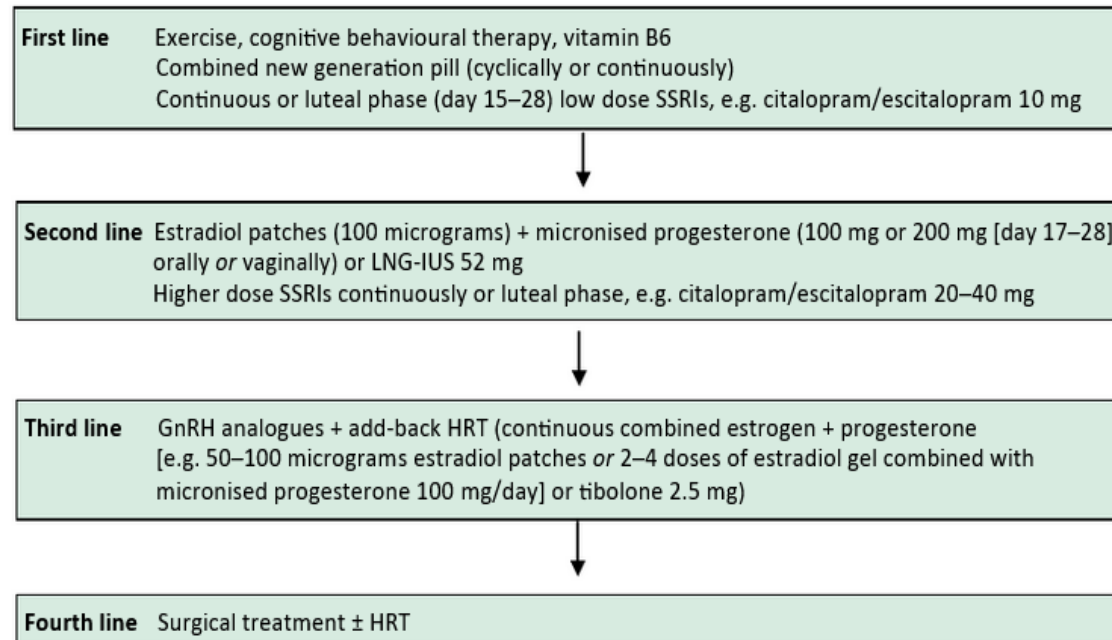
During pregnancy there are no cyclical hormones

Hormone levels increase serotonin and improve mood

## Consequence

- Led to licenced progestogens for PMS
- Encouraged use of COCP
- Synthetic progestogens generally not tolerated and exacerbate symptomology

# PMS Guidelines RCOG & NAPS



# 1. Case Study – Sally – Classical PMS

- Indra was 16 years old, troubled teenager at school
- Regular menses
- Regularly excluded for aggressive outburst
- Self harmed
- High achiever - failing in her studies
- High parental expectations
- Socially isolated
- Labelled borderline personality disorder
- Not sexually active
- Grandmother noticed a cyclical pattern of behaviour related symptoms

# Legal & practical considerations

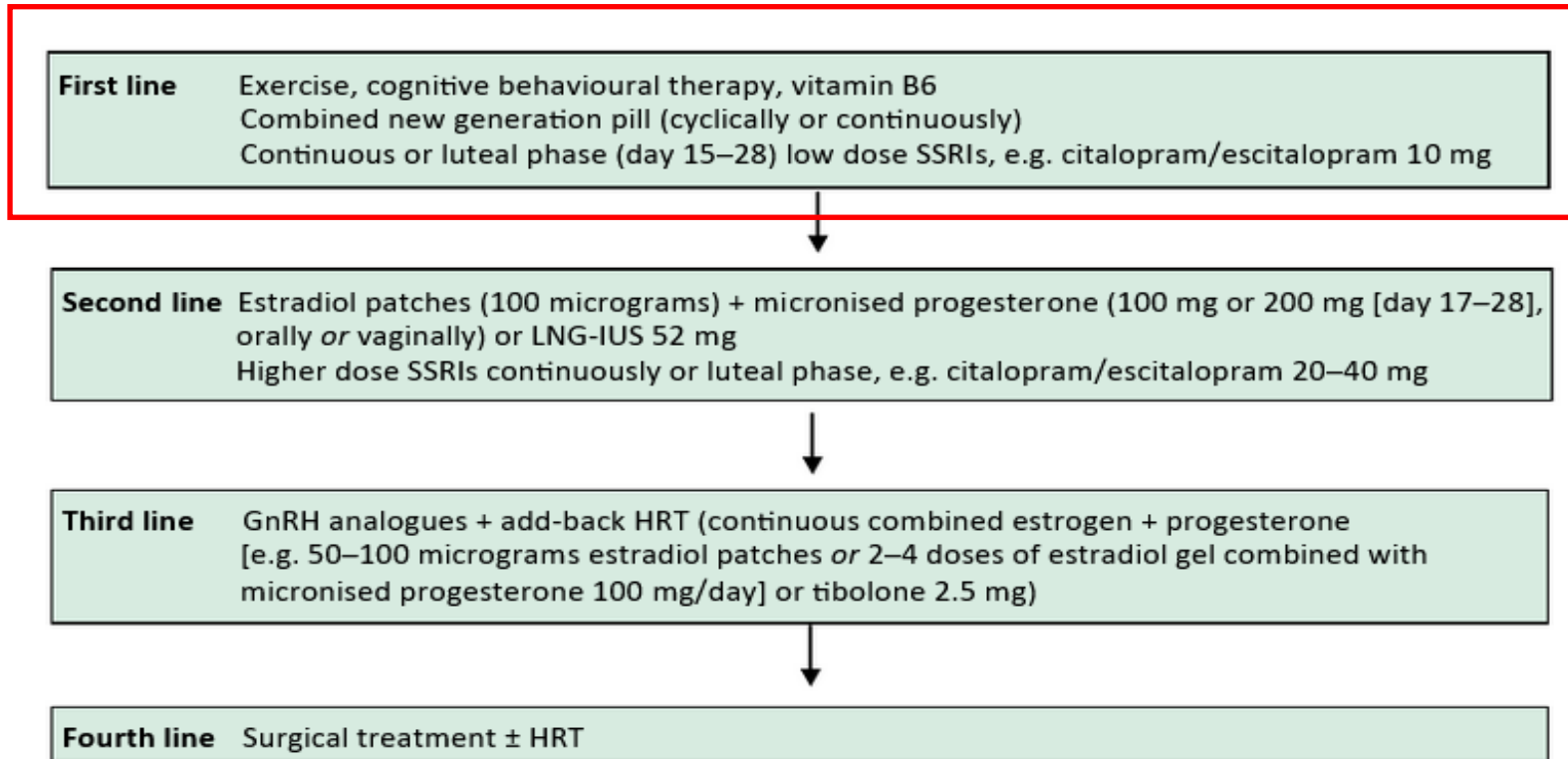
## Legal

- Gillick competence
- Mental capacity
- Safeguarding vulnerable children
- Prescribing off-label drugs and regimens in children

## Practical

- Engaging a teenager is not easy – compliance, peer pressure
- Parents with own agendas and ideas
- Parental support
- GP support

# RCOG decision making algorithm

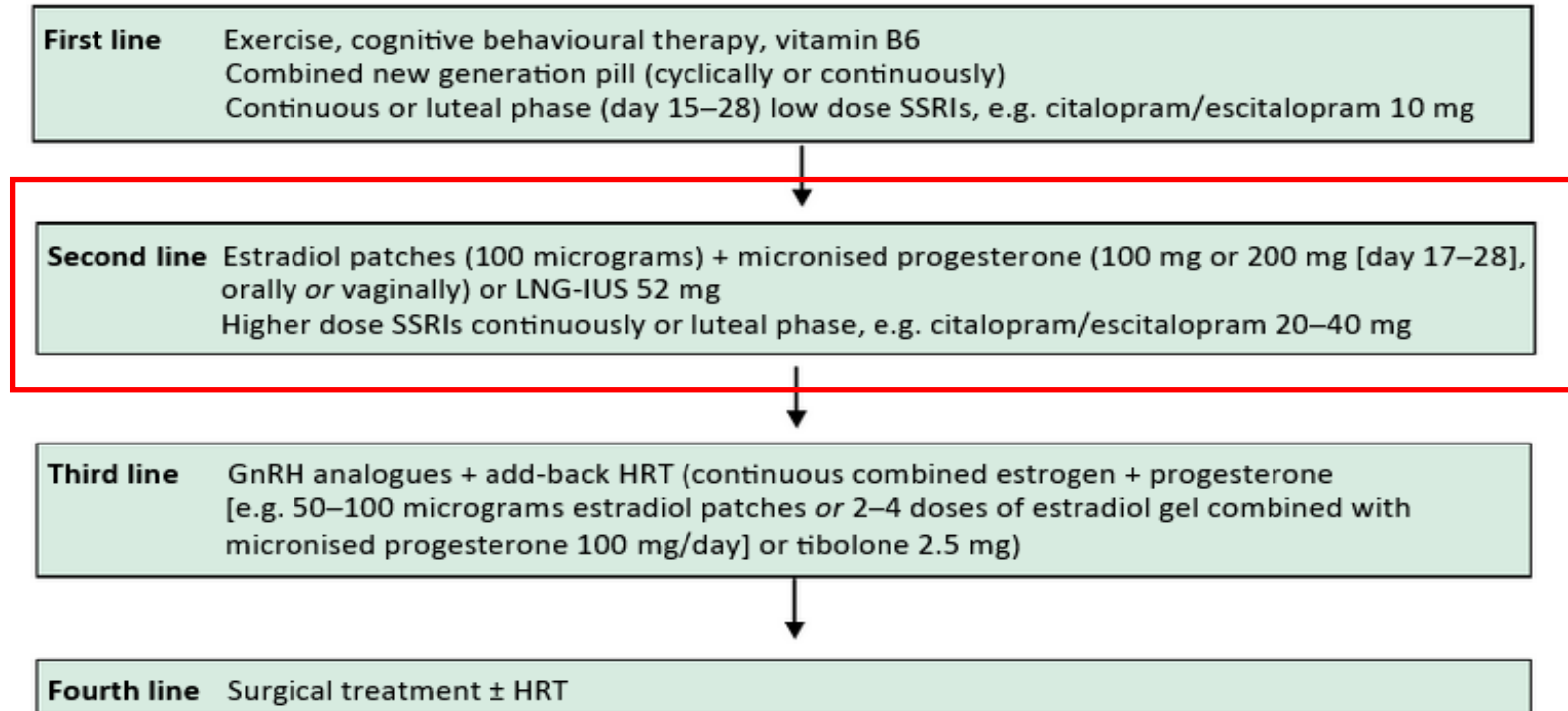


- CBT
- Parental education
- After school club-social skills / confidence
- School support
- Yasmin COCP, B2B (Drospirenone)
- @ 4/12 changed to Zoely COCP with estradiol, B2B (norgestrol acetate)
- @ age 24, graduated with 1<sup>st</sup> class honours degree in engineering

## 2. Case Study – Miriam - PMDD

- Miriam was 26 years old, para 1 age 18 months
- Menstrual cycles returned regularly
- New onset cyclical depression, anxiety, suicidal ideation
- 'Jekale and Hyde' each month
- No background psychopathology
- Never tolerated the COCP-very depressed
- Marital relationship breaking down
- Tried self help strategies and CBT
- Self diagnosis PMDD
- Rx: Citalopram – helped a little
- Contraception: Condoms
- Symptom diary consistent with premenstrual dysphoric disorder

# RCOG decision making algorithm



- SSRI changed to sertraline via GP
- Psychotherapy and ongoing GP reviews to assess suicide risk
- Cycle suppression with Estradiol 100mcg patches
- Cyclical utrogestan 200mg PO, then PV off label to reduce side-effects
- @4/12 changed to Kyleena off label with twice yearly USS
- @12 months relationship now back on track

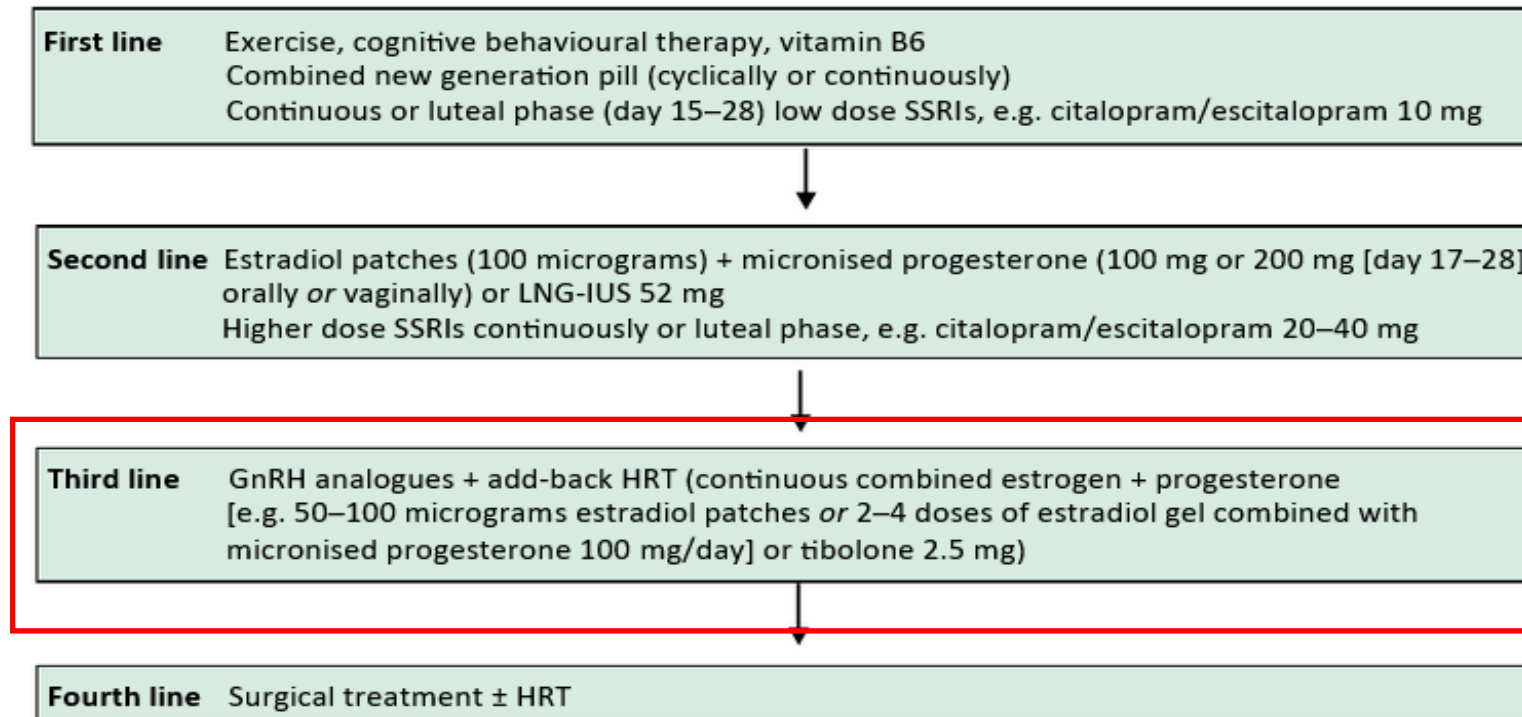
### 3. Case Study – Iona – PMDD

#### Our typical patient in clinic

- Iona age 36, para 0
- PMS since age 21, getting worse each year
- ‘I’m two people each month, I don’t recognise myself’
- ‘I’m desperate, I can’t go on. I’m very happy expect these 7 days’
- Self medicates with alcohol
- Does not want children at any time
- Contraception: condoms
- Wants a hysterectomy
- Tried depo provera, cocp, mirena - ‘I went mad, I was very suicidal’



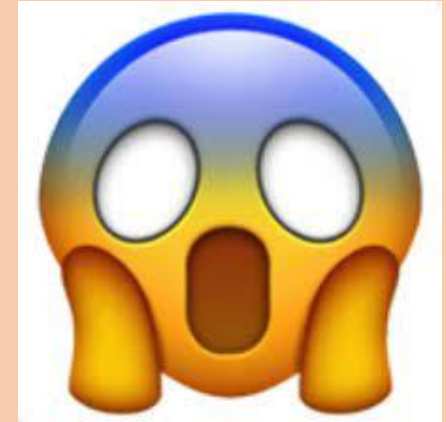
# RCOG decision making algorithm



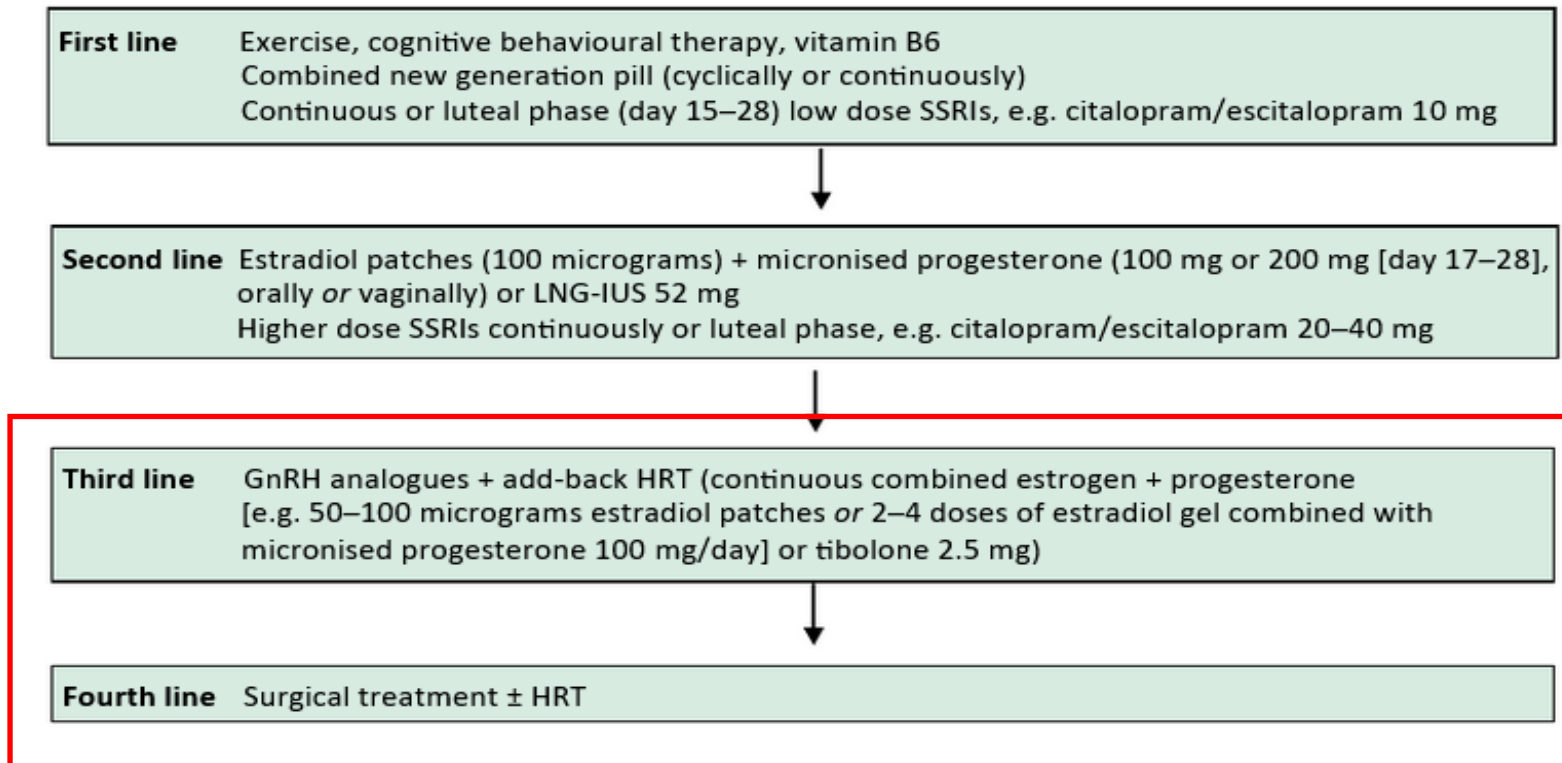
- Second line options attempted but cycle suppression not achieved
- Utrogestan poorly tolerated PV off-label and 'messy'
- Cyclical depression and suicidal ideation escalating
- Decapeptyl 11.25mg 10-12 weekly + estradiol 75mcg add back
- Contraception condoms
- Changed to dydrogesterone (DGN) 5mg daily
- @6/12, all symptoms resolved
- @18/12, agreed to continue regimen indefinitely without hysterectomy
- @age 48, still on Rx with BMD every 18 months
- No longer abuses alcohol - 9 years sober
- GnRH<sub>a</sub> to be discontinued between ages 51-55

## 4. Case Study – Nadia – Variant PMS

- Nadia was 38 years old, para 3
- Primary school teacher
- Brittle unstable asthma since menarche
- Regularly admitted to A&E and ICU (monthly)
- Asthma diary consistent with cyclical attacks and admissions
- On maximum asthma intervention
- Very positive can do attitude to life



# RCOG decision making algorithm



- Third line intervention as with previous patient
- Intolerant to all progestogens – IUC admission
- Acute allergic reaction to GnRHa – IUC admission
- Elective TAHBSO – post op crash call x2
- Estrogen only replacement
- All cyclical exacerbations now stopped.
- @ age 49, still brittle asthma with regular A&E attendances but QOL significantly improved
- Crash trolley always at hand in clinic!



# Heads Together



'Too often, people feel afraid to admit that they are struggling with their mental health. This fear of prejudice and judgement stops people from getting help and can destroy families and end lives.'

([www.headstogether.org.uk/](http://www.headstogether.org.uk/))

*.... Or is it that sometimes we are too afraid to listen and act because we don't understand or don't believe?*

*What do we really mean when we say – first do no harm?*

*So here is the challenge of PMS.... to hear what's being said, to see its impact, and take time to understand*





MHS

THANK YOU

# Resources

## **NAPS - National Association for Premenstrual Syndrome**

- <https://www.pms.org.uk>

## **Management of Premenstrual Syndrome - RCOG**

- <https://www.rcog.org.uk/globalassets/documents/guidelines/gt48...> · PDF fil

## **Self-care for PMDD | Mind, the mental health charity ...**

- <https://www.mind.org.uk/information-support/types-of-mental-health...>

## **PMS (premenstrual syndrome) - NHS**

- <https://www.nhs.uk/conditions/pre-menstrual-syndrome>

## **Premenstrual syndrome (PMS) | Office on Women's Health**

- <https://www.womenshealth.gov/menstrual-cycle/premenstrual-syndrome>

## **Premenstrual syndrome | Health topics A to Z | CKS | NICE**

- <https://cks.nice.org.uk/topics/premenstrual-syndrome>