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President: International Menopause Society



The modern management of PMS/PMDD - Latest Definitions, Guidelines, Management & Research (based on RCOG / NAPS / TOG Guidelines)

vv

NATIONAL ASSOCIATION FOR PREMENSTRUAL SYNDROMES (NAPS)



STUDY DAY ON WOMEN'S HEALTH

Friday 17th November 2023

Gleeson Lecture Theatre, Chelsea and Westminster Hospital

369 Fulham Rd. London SW10 9NH

9.00am – 4.45pm

Key Disclosures

Pharma:

- Lecturer/Advisory: Abbott, Besins, Gedeon Richter, Mithra, Novo, Se Cur, Theramex, Viatris
- Research Grants: Viatris, Yes company

Professional:

- President: International Menopause Society
- Board Member BMS
- Patron Daisy Network
- Chair NAPS (PMS Society UK)
- Clinical Advisory Board Member (IAPMD)

Too many precious lives are being lost!

We dedicate this NAPS meeting as a tribute to Paige

- TRIBUTE BY TEWKESBURY RFC NOV 18, 2022
- Today we say goodbye to one of our own, Paige McCormack. The most kind-hearted, calm and considerate person with the fastest legs and the most ruthless tackles.
- Our thoughts are with all of Paige's family, friends and teammates.
- In memory of Paige the club will be making donations to the following charities [National Association for Premenstrual Syndromes \(PMS\) NAPS](#) and [Great Western Air Ambulance Charity](#) Please visit the links below if you would like to make a donation.
- NAPS – National Association For premenstrual Syndromes – <https://www.pms.org.uk/donate/>



Goodbye to Paige

by Gill Mould | Nov 18, 2022 | Club Info



Fashionable 19th.
Century Disorders in Women

- Neurasthenia
- Insanity
- Menstrual madness
- Nymphomania
- Masturbation
- Moral insanity
- Hysteria

all often due to
reading serious



Do not underestimate impact of PMS on women's mental health,
government told

Ministers urged to take treatment for premenstrual syndrome seriously as report claims women's
health concerns are dismissed

By Laura Donnelly, HEALTH EDITOR

15 April 2022 • 6:00pm

Dr Panay, who is also the chairman of the National Association for Premenstrual
Syndromes, said that he hoped the strategy would mean more research into menstrual health and
better information and education, both for women and healthcare professionals.

The Telegraph, April 2022



Topics highlighted were:

- menstrual health and gynaecological conditions, including the impact of premenstrual syndrome on someone's quality of life
- fertility, pregnancy, pregnancy loss, and maternal health, including women not feeling listened to during and after pregnancy and the provision of bereavement support services
- menopause, including suggestions for improvements in training and guidelines for healthcare professionals
- gynaecological and other cancers, including barriers to accessing high-quality, up-to-date information on risk factors for female cancers
- mental health, including its interaction with other health conditions across women's lives
- healthy ageing, including the need to increase focus on the health needs of older women and emphasise that women may experience the same conditions as men in different ways
- violence against women and girls, including the complications associated with hymenoplasty and barriers to accessing healthcare support for those who have been subject to years of violence and abuse.

Psychological symptoms

- Irritability
- Nervousness
- Lack of control
- Agitation
- Anger
- Insomnia
- Difficulty in concentrating
- Depression
- Severe fatigue
- Anxiety
- Confusion
- Forgetfulness
- Poor self-image
- Paranoia
- Emotional sensitivity
- Crying spells
- Moodiness
- Trouble sleeping

Fluid retention

- Swelling of the ankles, hands, and feet
- Periodic weight gain
- Diminished urine output
- Breast fullness and pain

Respiratory problems

- Allergies
- Infections

Eye complaints

- Vision changes
- Eye infection

Gastrointestinal symptoms

- Abdominal cramps
- Bloating
- Constipation
- Nausea
- Vomiting
- Pelvic heaviness or pressure
- Backache

Skin problems

- Acne
- Skin inflammation with itching
- Aggravation of other skin disorders, including cold sores

Neurologic and vascular symptoms

- Headache
- Dizziness
- Fainting
- Numbness, prickling, tingling, or heightened sensitivity of arms and/or legs
- Easy bruising
- Heart palpitations
- Muscle spasms

Other

- Decreased coordination
- Painful menstruation
- Diminished sex drive
- Appetite changes
- Food cravings
- Hot flashes

PMDD – A SEVERE FORM OF PREMENSTRUAL SYNDROME

APA definition of a type of severe premenstrual disorder

- Over the course of a year, during most menstrual cycles, 5 or more of the following symptoms must be present:
 - Depressed mood
 - Anger or irritability
 - Trouble concentrating
 - Lack of interest in activities once enjoyed
 - Moodiness
 - Increased appetite
 - Insomnia or the need for more sleep
 - Feeling overwhelmed or out of control
 - Other physical symptoms, the most common being belly bloating, breast tenderness, and headache
- Symptoms that disturb your ability to function in social, work, or other situations
- Symptoms that are not related to, or exaggerated by, another medical condition

Freeman EW. Premenstrual syndrome and premenstrual dysphoric disorder: definitions and diagnosis. Psychoneuroendocrinology. 2003 Aug;28 Suppl 3:25-37.

Definitions: Premenstrual Syndrome (PMS) or premenstrual dysphoric disorder (PMDD)?

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

International Society for PreMenstrual Disorders (ISPMD) Consensus on Definitions, Diagnosis and Management – best way forward?

- **Core Premenstrual Disorders (PMDs):** Classic PMS: Ovulatory cycles, functional impairment, post menstrual resolution
- **Variants**
 - **Premenstrual Exacerbation (PME)** e.g.epilepsy, migraine, asthma, psychosis
 - **Non-Ovulatory PMDs:** ovarian activity(perimenopause)
 - **Progestogen Induced:** side effects of OCP / HRT
 - **PMDs without Menstruation:** post TAH / ablation

■ Variants

- **Premenstrual Exacerbation (PME)**

- Preliminary evidence suggests ovarian hormones may exert strong effects on Borderline Personality Disorder symptom expression (also ?ADHD)
- Background symptomatology with premenstrual exacerbation due to hormonal fluctuation
- Further research is warranted examining mechanisms and developing interventions.



Published in final edited form as:
Curr Psychiatry Rep. ; 21(11): 109. doi:10.1007/s11920-019-1096-y.

Ovarian Hormones as a Source of Fluctuating Biological Vulnerability in Borderline Personality Disorder

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Abstract

Purpose of Review: To examine the potential role of ovarian hormones in biological vulnerability to borderline personality disorder (BPD). The review focuses primarily on research examining the menstrual cycle as a source of short-term lability of BPD symptom expression, while discussing the currently understudied possibility of ovarian hormone influence in the developmental course of BPD.

Findings: Several patterns of menstrual cycle effects on BPD symptoms and relevant features in non-clinical samples have been observed in empirical studies. Most symptoms demonstrated patterns consistent with peri-menstrual exacerbation; however, timing varied between high and low arousal symptoms, potentially reflecting differing mechanisms. Symptoms are typically lowest around ovulation, with an exception for proactive aggression and some forms of impulsive behaviors.

Summary: Preliminary evidence suggests ovarian hormones may exert strong effects on BPD symptom expression, and further research is warranted examining mechanisms and developing interventions. Recommendations for researchers and clinicians working with BPD are provided.

Keywords

Menstrual Cycle; Estradiol; Progesterone; Borderline Personality Disorder; Premenstrual Exacerbation; Premenstrual Dysphoric Disorder



RCOG Guidelines for Premenstrual Syndrome

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 N et al.
 - 2017 RCOG Green-Top Guideline No 48
 - Baker L, Panay N, Craig M, O’Brien PMS
- *guidelines systematically developed using standardised evidence-based methodology

Management of Premenstrual Syndrome

Green-top Guideline No. 48

February 2017

Please cite this paper as: Green LJ, O'Brien PMS, Panay N, Craig M on behalf of the Royal College of Obstetricians and Gynaecologists. Management of premenstrual syndrome. BJOG 2017;124:e73–e105.

www.rcog.org.uk

Management of Premenstrual Syndrome (NAPS Guidelines)



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www.pms.org.uk

DOI: 10.1111/tog.12848

The Obstetrician & Gynaecologist

<http://onlinetog.org>

2023;25:38–46

Review

Premenstrual disorders including premenstrual syndrome and premenstrual dysphoric disorder

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Accepted on 7 March 2022.

<http://onlinetog.org>

PMS 2.2a Prevalence

■ Prevalence

- Peak prevalence of severe PMS in 35-45y age group
- Moderate PMS: 24% in SWS¹
- Severe PMS (PMDD) 5-8%² general population v 23% perimenopause³
- Asian countries slightly lower compared to Europe and the United States.⁴
- PMS/PMDD higher prevalence if prior emotional and physical abuse.⁵⁻⁶

PMS 2.2b Etiology

■ Etiology

- May be multiple etiologies (E2/serotonin, Progesterone/allopregnanolone/GABA)
- Abnormalities have been demonstrated by fMRI.¹
 - **Brain imaging studies of task-related activation during fMRI have identified several regions of abnormal function in women with PMDD esp in amygdala during luteal phase.**
- (Cyclic) ovarian activity / hormonal fluctuations essential in genesis of symptoms.
- Probable genetic predisposition / increased sensitivity to hormonal fluctuations
 - **ESR1 gene polymorphisms in PMDD sufferers v controls.²**

1. Comasco E, Sundström-Poromaa I. Neuroimaging the Menstrual Cycle and Premenstrual Dysphoric Disorder. Curr Psychiatry Rep. 2015 Oct;17(10):77

2. Huo L, Straub RE, Roca C, Schmidt PJ, Shi K, Vakkalanka R, Weinberger DR, Rubinow DR. Risk for premenstrual dysphoric disorder is

- Sensitivity may be attributed to dysregulation and overexpression of the ESC/E(Z)] gene complex in PMDD. ¹
- “This is a big moment for women’s health, because it establishes that women with PMDD have an intrinsic difference in their molecular apparatus for response to sex hormones – not just emotional behaviors they should be able to voluntarily control,” said Prof Goldman.

NEWS RELEASES

Tuesday, January 3, 2017

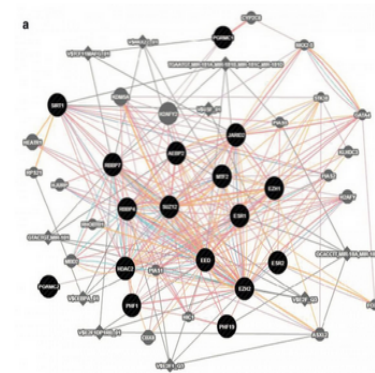
Sex hormone-sensitive gene complex linked to premenstrual mood disorder

Dysregulated cellular response to estrogen and progesterone suspected.

National Institutes of Health (NIH) researchers have discovered molecular mechanisms that may underlie a woman's susceptibility to disabling irritability, sadness, and anxiety in the days leading up to her menstrual period. Such [premenstrual dysphoric disorder \(PMDD\)](#) affects 2 to 5 percent of women of reproductive age, whereas less severe [premenstrual syndrome \(PMS\)](#) is much more common.

“We found dysregulated expression in a suspect gene complex which adds to evidence that PMDD is a disorder of cellular response to estrogen and progesterone,” explained [Peter Schmidt, M.D.](#) of the NIH’s National Institute of Mental Health, Behavioral Endocrinology Branch. “Learning more about the role of this gene complex holds hope for improved treatment of such prevalent reproductive endocrine-related mood disorders.”

Schmidt, [David Goldman, M.D.](#), of the NIH’s National Institute on Alcohol Abuse and Alcoholism, and colleagues, report on their findings January 3, 2017 in the journal *Molecular Psychiatry*.



Expression of this ESC/E(Z) gene network was found to be systematically disturbed in PMDD. [Peter Schmidt, M.D.](#), NIMH, [David Goldman, M.D.](#), NIAAA

Institute/Center

[National Institute of Mental Health \(NIMH\)](#)

[National Institute on Alcohol Abuse and Alcoholism \(NIAAA\)](#)

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[John Bowersox](#)
NIAAA Press Office
301-443-3860

Related Links

[NIMH Twitter Chat on Premenstrual Dysphoric Disorder](#)

[Participate in NIMH research on PMDD](#)

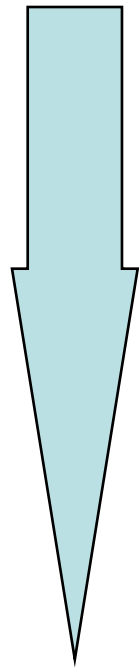
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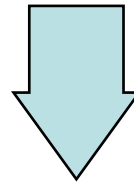
[RSS Feed](#)

1. Dubey N The ESC/E (Z) complex, an effector of response to ovarian steroids, manifests an intrinsic difference in cells from women with premenstrual dysphoric disorder. *Mol Psychiatry* 2017; **22**: 1172-84.

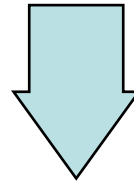
The triad of estrogen responsive depressive disorders



Postnatal depression



Premenstrual depression



Climacteric depression

NB: Worsening PMS could be a sign of imminent POI / menopause due to hormonal fluctuations. D2/3 HP may be helpful.

Studd J, Panay N. Hormones and depression in women.
Climacteric. 2004 Dec;7(4):338-46.

Proof that ovarian activity integral to PMS Aetiology

Stages with no symptoms

Pre-puberty



Pregnancy



Post-Menopause



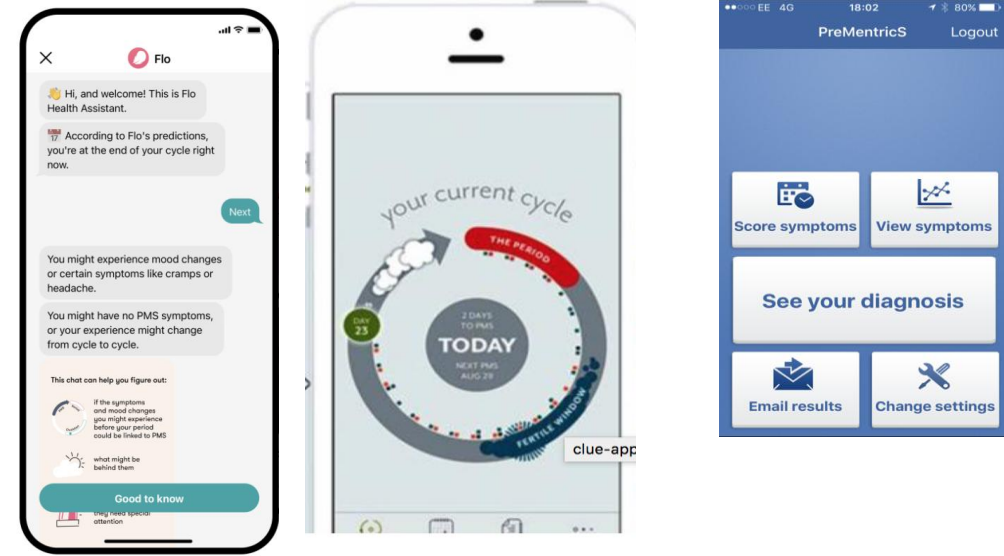
How do I approach a PMS/PMDD patient?

- **Listen Carefully!**
- **Confirm the diagnosis** – charts NB: beware prior misdiagnosis of bipolar disorder!
- **Judge intervention** according to....
 - Patient wishes – consider all interventions
 - Previous treatments – use treatment algorithm
 - Severity of PMS – may need to start with GnRHa if lives are at risk
- **Review at 3 months** but remain available
- **Don't place arbitrary limits** on treatment duration
- **Co-manage patients with background psychopathology with Mental Health Services**

PMS

4. Diagnosis

“There are no diagnostic laboratory tests/investigations to make a diagnosis of PMS/PMDD.”



4. How is PMS diagnosed?

When assessing women with PMS, symptoms should be recorded prospectively, over two cycles using a symptom diary, as retrospective recall of symptoms is unreliable.



There are many symptom diaries available but the Daily Record of Severity of Problems (DRSP) is well-established and simple for patients to use (See Appendix 1).⁴

PMS

5.How should severe PMS be treated? (1)

Good Practice Points

When treating women with PMS:

- ☒ ■ General advice about exercise, diet and stress reduction should be considered before starting treatment
- The most efficacious treatments for PMS are evidence based but unlicensed for that indication
- ☒ ■ Women with underlying psychopathology as well as PMS should be referred to a psychiatrist (ideally in a MDT)....

PMS

5. How should severe PMS be treated? (2)

- Survey by IAPMD (International Association for Premenstrual Disorders) published on 'World Suicide Day 2021' showed that 86% of women with PMDD considered suicide and 30% report at least one attempt during their lifetime.
- Suicidal thoughts, ideation, plans and attempts are strongly associated with PMDD, and all PMDs should be considered risk categories for suicidality.¹⁻²
- It is therefore vital that hormonal management is coordinated closely with mental health teams with plans in place for times when the woman has suicidal ideation and intent.

1. Saunders KE, Hawton K. Suicidal behaviour and the menstrual cycle. *Psychol Med* 2006; **36**: 901-12.

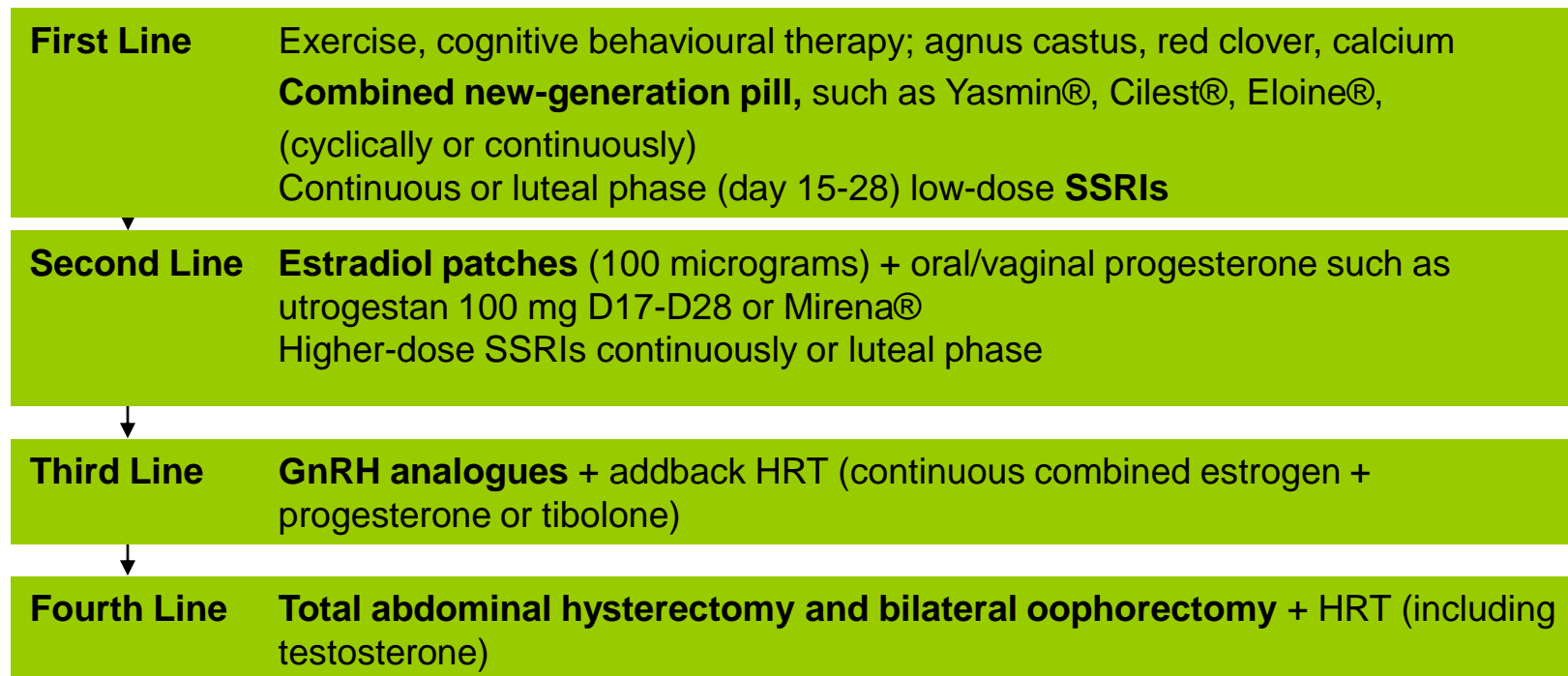
2. Osborn E, Brooks J, O'Brien PMS, Wittkowski, A. Suicidality in women with premenstrual dysphoric disorder: a systematic literature review. *Arch Womens Ment Health* 2021; **24**: 173-184.



PMS

6.2 Algorithm – Management GTG

Figure1. Possible treatment regimen for the management of severe PMS



PMS – Complementary therapies

Summary of best evidence for complementary therapies

Complementary therapy	Benefit	Type of studies	Number in the studies	Note
Vitamin B6	No	Meta-analysis	1067 (13 trials)	10 – 50 mg max/d PN at higher doses
Calcium	Yes	2 RCTs crossover	499	Consistent evidence of benefit
Isoflavones	Yes	2 Double-blind randomised studies	72	May benefit menstrual migraine
Agnus castus	Yes	7/8 RCTs showed benefit	560	Effective but lack of standard preparations
St John's Wort	Unknown	RCT double blind	125	Significant interactions



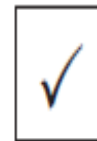
8. Cognitive therapy

8. Managing severe PMS with cognitive behavioural therapy

When treating women with severe PMS, cognitive behavioural therapy should be considered routinely as a treatment option.



A clinical psychology service should be available for this patient group.



RCT: Fluoxetine 20mg v CBT v combined therapy – no significant diff. between groups.¹

Meta analysis of 5 CBT studies showed benefit.²



PMS

9. Management with SSRIs/SNRIs

- Modulating levels of serotonin with SSRIs improves psychological PMS symptoms. [A]
- When treating women with PMS, both luteal and continuous dosing with SSRIs can be recommended. [B]
- Well tolerated: Escitalopram 5 – 20mg in luteal phase or even symptom phase dosing [Personal Experience]
- In perimenopause, short term treatment of symptoms until cycle stabilisation achieved hormonally [Personal view]



PMS

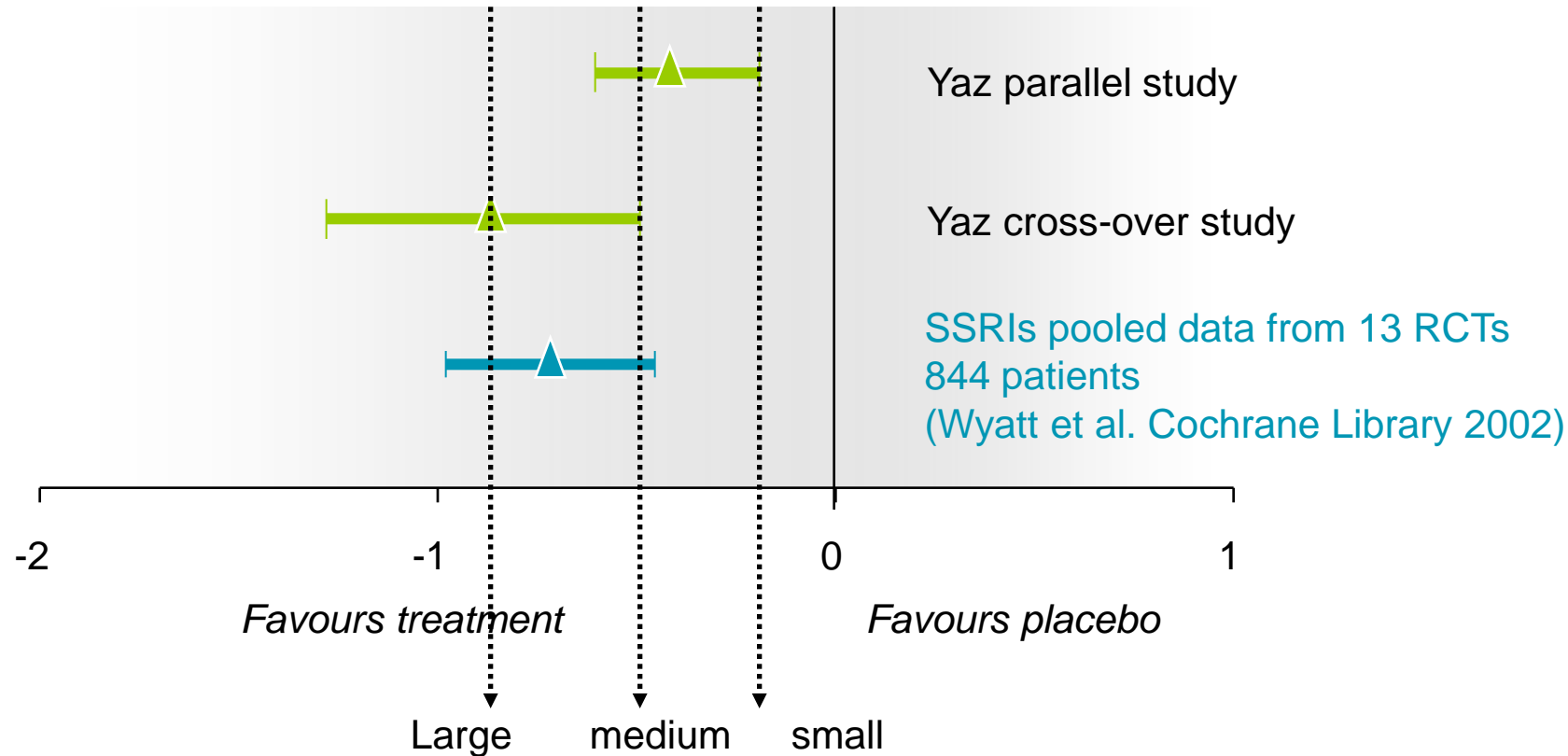
10. Management with cycle modifying agents – **COC cyclical regimens**

- **Problems with COC in PMS: 7/7 HFI & PMS side effects of some progs.**
 - **?Role of E2/E4 pills**
-
- Cochrane review of five RCTs with 1920 participants.¹
 - EE COCs: Drsp(3 mg) v Plbo v Deso(150mcg) v Levo(150mcg)
 - Drospirenone - containing COCs for 3/12 beneficial in reducing severity of PMDD.
 - (MD -7.92; 95% CI -11.16 to -4.67)

EE 20mcg/DRSP 3mg 24/4(Yaz) vs. SSRIs in PMDD

Standardized mean difference 95% CI on overall symptoms

OC v SSRI for PMS
**Similar efficacy so let women decide
according to preference!**



Yonkers et al Obstet Gynecol 2005; Pearlstein et al Contraception 2005; NB: Marr et al Int J O & G 2011 – further study confirming benefit of Yaz v Placebo

10.Management with cycle modifying agents - HRT



Estradot 100mcg twice weekly or..
Oestrogel 2 pumps twice daily, with

Utrogestan 100-300mg 7-12 days / cycle
pO / pV (depending on tolerance)

or Mirena IUS (also contraception)

**NB: Role of Jaydess/Kyleena being
evaluated in PI women with USS
monitoring of ET**

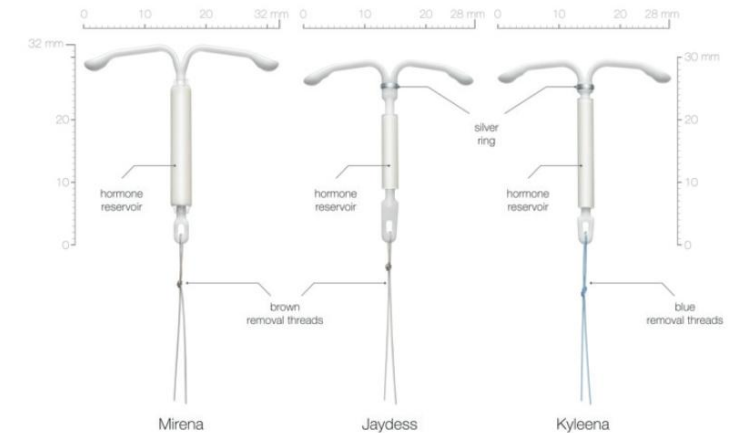


Figure 1: Physical appearance of Mirena, Jaydess and Kyleena.

Table 1: Average *in vivo* LNG release rates (µg/day) of the 3 LNG-IUS

	Mirena	Jaydess	Kyleena
Initial Release*	20	14	17.5
2 months	n/c	10	15
1 year	n/c	6	10
End of indicated period of use**	10	5	7



10. Management with cycle modifying agents – GnRHa

- If GnRH analogue therapy does not result in elimination of premenstrual symptoms, this suggests a questionable diagnosis rather than limitation of therapy. *Evidence level 1++*
- When treating women with severe PMS using GnRH analogues for > 6 months, add-back hormone therapy should be used. [A]
- Women on long-term treatment should have measurement of bone mineral density (ideally by dual energy X-ray absorptiometry). [A]

TOP TIPS

- Start with nasal GnRHa if patient uncertainty re Rx
- Minimum 3 cycles to assess response
- Transdermal E2 50-100 /
Utrogestan 100-200, best ccHRT

Original Article

The treatment of severe premenstrual syndrome with goserelin with and without 'add-back' estrogen therapy: A placebo-controlled study

A. T. Leather, J. W. W. Studd, N. R. Watson & E. F. N. Holland
Pages 48-55 | Published online: 28 Aug 2009

Download citation | <https://doi.org/10.1080/09513599909167531>





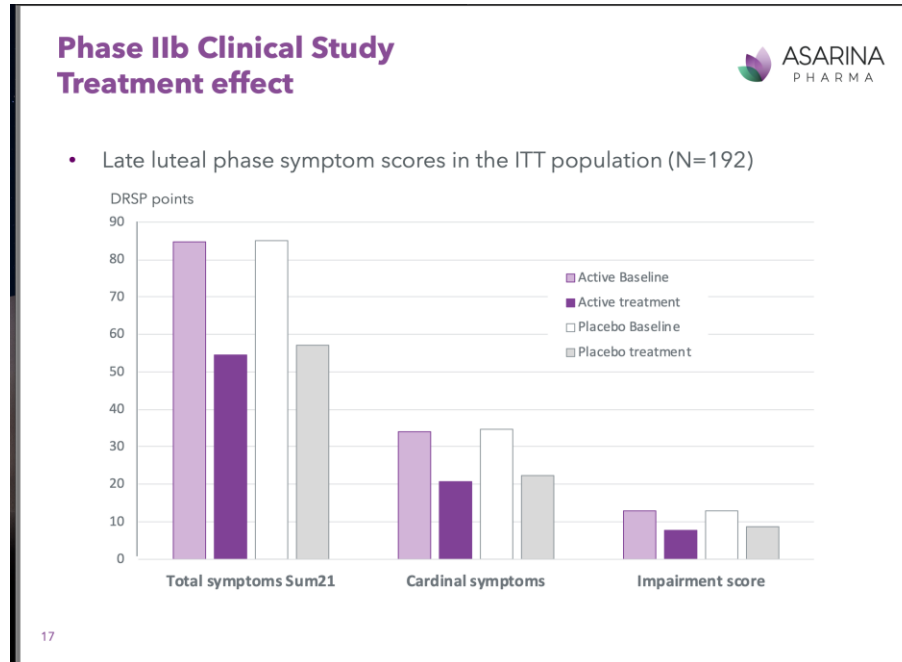
PMS

12.Surgical approach (Hysterectomy and BSO)

- Hysterectomy and bilateral salpingo-oophorectomy is of benefit. [C]
 - NB: BSO alone not ideal as EP still required!
- TAH BSO if long-term GnRHa or other gynae conditions indicate surgery e.g. fibroids/bleeding. [GPP]
- Pre-operative GnRH analogue test mandatory to ensure adequate efficacy / HT tolerance. [GPP]
- Adequate E2 +/- T essential post operatively!
- NB: Residual “CRS” in some women – possibly related to hormonal fluctuations esp with gels



Sepranolone* PMDD study (*GABA receptor modulator which regulates effects of allopregnanolone)



Phase IIb Clinical Study In Conclusion



- The baseline data show that the intended patient population was recruited
 - Stricter inclusion criteria produced a well defined patient population
- Sepranolone did not meet the primary or secondary end-points
 - Placebo effect high and with large variance
 - The change from baseline in the Sepranolone also with larger variance than expected
 - Numerically, reduction was larger for the Sepranolone group than the placebo group for all symptoms and end-points, but not statistically significantly
- Sepranolone was well tolerated with no safety signals observed

“Symptom reduction was greater for the Sepranolone group than for placebo but the difference between the groups was not statistically significant”



A new era of collaboration?



- Across PMD, MM, and CE, various exogenous hormone manipulations have been tested to treat symptoms,
- While no individual treatment or study design treats all three menstrual cycle-linked CNS disorders, it is clear that there is overlap in study design and neuroendocrine-based hormone sensitivity.
- In the current scientific landscape that promotes open science, reproducibility, and translational collaboration, there are massive opportunities for collaboration and education among menstrual cycle researchers across psychiatric and neurologic fields.

Barone JC, Butler MP, Ross A, Patterson A, Wagner-Schuman M, Eisenlohr-Moul TA. A scoping review of hormonal clinical trials in menstrual cycle-related brain disorders: Studies in premenstrual mood disorder, menstrual migraine, and catamenial epilepsy. *Front Neuroendocrinol.* 2023 Aug 22;71:101098.



Severe PMS/PMDD – time for a new approach!

CLIMACTERIC 2015;18:1–2

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18	phoric disorder (PMDD) remains a poorly understood, poorly	75
19	diagnosed and poorly treated condition. The severest symp-	76
20	ptoms occur in 5–10% of women in whom their personal,	77
21	social and professional lives are disrupted, occasionally lead-	78
22	ing to suicide and homicide attempts ¹ . Whilst physical symp-	79
23	ptoms are common, e.g. breast tenderness, weight gain, head-	80
	the levonorgestrel intrauterine system, they do not	
	menstruate.	
	Awareness of the condition and training in its management	
	are essential. Although primary care should deal with most	
	cases of mild to moderate PMS, women with severe PMS	
	should ideally be managed by a multidisciplinary team within	
	a specialist setting, which might comprise of a gynecologist.	

WHO states, "Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity".

We must continue to strive to improve recognition and provide appropriate treatment to women affected by premenstrual disorders.

Key take home messages.....



The modern management of PMS/PMDD

– Key Messages



- Universal adoption of ISPMD diagnostic criteria would be helpful to facilitate recognition and treatment of PMS/PMDD
 - *In a landmark decision in May 2019, the World Health Organization (WHO) added (**PMDD**) to the International Statistical Classification of Diseases, **Eleventh** Revision (**ICD-11**). **PMDD** now has its own **ICD** code (GA34).*
- Best evidence thus far is for 24/4 or continuous OCs, Estradiol (TD), SSRIs & GnRHa
- Training of Health Professionals should be addressed by Universities & Royal Colleges
- Management of severe PMS/PMDD ideally by MDTs with evidence-based guidelines
- Adequately resourced women's health strategies for PMS/PMDD required globally!



Further Information

PEER SUPPORT GROUPS (When 'I' is replaced by 'We', 'illness' becomes 'Wellness')

NAPS (National Association for Premenstrual Syndromes)

- Website <https://www.pms.org.uk>
- Ask the Experts
- Scientific Meetings / Webinars
- PMS Guidelines
- Collaboration

IAPMD (International Association for Premenstrual Disorders)

- Website <https://iapmd.org>
- Lifeline of support for sufferers
- Information & Educational Resources
- PCORI (Patient Centred Outcomes Research Institute Grant – PMDD/PME)



What are PMS and PMDD?

Premenstrual Syndrome (PMS) is a chronic condition experienced by many women who menstruate, with approximately 25% experiencing moderate to severe symptoms. It is characterised by physical, psychological and behavioural symptoms in the luteal phase (before period) of the menstrual cycle. These symptoms will then disappear when menstruation occurs (period begins) or by the day of the heaviest flow.

Premenstrual Dysphoric Disorder (PMDD) is a severe form of PMS and a complex hormone-based mood disorder characterised by extreme mood changes, anxiety, sleep disturbance and physical changes that increase in the luteal phase. If premenstrual symptoms impact on every day functioning and wellbeing this should be recognised as clinically significant and the woman should be offered appropriate treatment and care.



This fact sheet has been produced in collaboration with NAPS





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