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## **Menstrual Cycle** Your menstrual cycle **Premenstrual syndrome (PMS)** Premenstrual dysphoric disorder (PMDD) Period problems

Health and Wellness

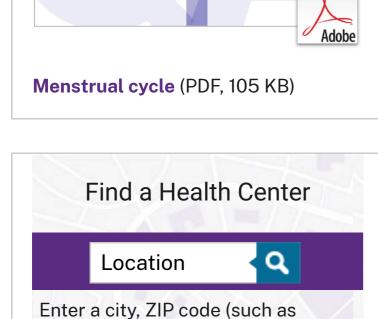
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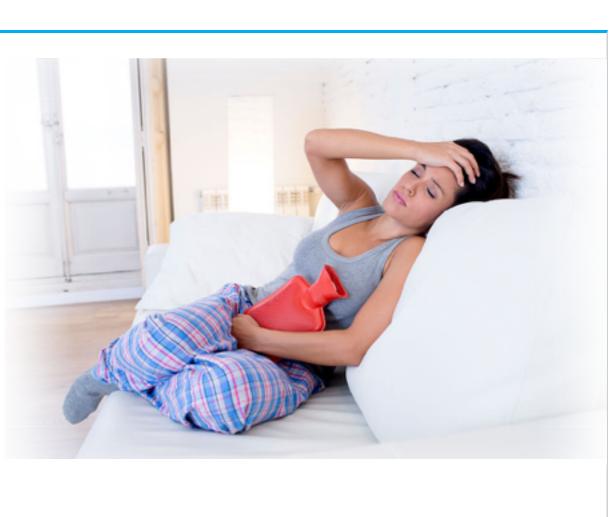
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## Premenstrual syndrome (PMS) Premenstrual syndrome (PMS) is a combination of

symptoms that many women get about a week or two **before their period.** Most women, over 90%, say they get

Reproductive Health

some premenstrual symptoms, such as bloating, headaches, and moodiness. For some women, these symptoms may be so severe that they miss work or school, but other women are not bothered by milder symptoms. On average, women in their 30s are most likely to have PMS. Your doctor can help you find ways to relieve your symptoms.



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PMS is a combination of physical and emotional symptoms that many women get after ovulation and before the start

What is PMS?

progesterone levels begin falling dramatically if you are not pregnant. PMS symptoms go away within a few days after a woman's period starts as hormone levels begin rising again. Some women get their periods without any signs of PMS or only very mild symptoms. For others, PMS symptoms may be so severe that it makes it hard to do everyday activities like go to work or school. Severe PMS symptoms may be a sign of premenstrual dysphoric disorder (PMDD). PMS goes away when you no longer get a period, such as after

of their menstrual period. Researchers think that PMS happens in the days after ovulation because estrogen and

menopause. After pregnancy, PMS might come back, but you might have different PMS symptoms. Who gets PMS?

As many as three in four women say they get PMS symptoms at some point in their lifetime.<sup>5</sup> For most women, PMS symptoms are mild.

Less than 5% of women of childbearing age get a more severe form of PMS, called premenstrual dysphoric disorder (PMDD).6 PMS may happen more often in women who:

 Have high levels of stress<sup>7</sup> • Have a family history of depression<sup>8</sup> • Have a personal history of either postpartum depression or depression 9,10

Yes. PMS symptoms may get worse as you reach your late 30s or 40s and approach menopause and are in the

This is especially true for women whose moods are sensitive to changing hormone levels during the menstrual cycle.

Does PMS change with age?

transition to menopause, called perimenopause.<sup>11</sup>

What are the symptoms of PMS?

Swollen or tender breasts

• Lower tolerance for noise or light

• Appetite changes or food cravings

Clumsiness

How is PMS diagnosed?

how much they affect your life.

In the years leading up to menopause, your hormone levels also go up and down in an unpredictable way as your body slowly transitions to menopause. You may get the same mood changes, or they may get worse. PMS stops after menopause when you no longer get a period.

PMS symptoms are different for every woman. You may get physical symptoms, such as bloating or gassiness, or emotional symptoms, such as sadness, or both. Your symptoms may also change throughout your life. Physical symptoms of PMS can include: 12

 Constipation or diarrhea Bloating or a gassy feeling Cramping Headache or backache

**Emotional or mental symptoms** of PMS include: 12 • Irritability or hostile behavior Feeling tired

• Trouble with concentration or memory Tension or anxiety • Depression, feelings of sadness, or crying spells

 Mood swings Less interest in sex

Sleep problems (sleeping too much or too little)

- Talk to your doctor or nurse if your symptoms bother you or affect your daily life.
- What causes PMS?

You probably have PMS if you have symptoms that:<sup>12</sup>

End within four days after your period starts

How does PMS affect other health problems?

What can I do at home to relieve PMS symptoms?

massage,<sup>19</sup> or meditation<sup>20</sup> helpful.

What medicines can treat PMS symptoms?

Ibuprofen

depression, difficulty concentrating, and fatigue. 16

headaches, backaches, and breast tenderness. These include:

anxiety and can make PMS symptoms such as moodiness worse.<sup>12</sup>

Keep you from enjoying or doing some of your normal activities

have heavy menstrual bleeding and early or premature menopause. 14

Researchers do not know exactly what causes PMS. Changes in hormone levels during the menstrual cycle may play a

role.<sup>13</sup> These changing hormone levels may affect some women more than others.

There is no single test for PMS. Your doctor will talk with you about your symptoms, including when they happen and

Keep track of which PMS symptoms you have and how severe they are for a few months. Write down your symptoms each day on a calendar or with an app on your phone. Take this information with you when you see your doctor.

Happen in the five days before your period for at least three menstrual cycles in a row

• **Depression and anxiety disorders.** These are the most common conditions that overlap with PMS. Depression and anxiety symptoms are similar to PMS and may get worse before or during your period. • Myalgic encephalomyelitis/chronic fatigue syndrome (ME/CFS). Some women report that their symptoms often get worse right before their period. Research shows that women with ME/CFS may also be more likely to

About half of women who need relief from PMS also have another health problem, which may get worse in the time

before their menstrual period.<sup>12</sup> These health problems share many symptoms with PMS and include:

right before your period. • Bladder pain syndrome. Women with bladder pain syndrome are more likely to have painful cramps during PMS. PMS may also worsen some health problems, such as asthma, allergies, and migraines.

• Irritable bowel syndrome (IBS). IBS causes cramping, bloating, and gas. Your IBS symptoms may get worse

These tips will help you be healthier in general, and may relieve some of your PMS symptoms.

• Get regular aerobic physical activity throughout the month. Exercise can help with symptoms such as

• Choose healthy foods most of the time. 17 Avoiding foods and drinks with caffeine, salt, and sugar in the two weeks before your period may lessen many PMS symptoms. Learn more about healthy eating for women. • Get enough sleep. Try to get about eight hours of sleep each night. Lack of sleep is linked to depression and

• Find healthy ways to cope with stress. Talk to your friends or write in a journal. Some women also find yoga, 18

• **Don't smoke.** In one large study, women who smoked reported more PMS symptoms and worse PMS symptoms than women who did not smoke.<sup>21</sup>

Over-the-counter pain relievers you can buy in most stores may help lessen physical symptoms, such as cramps,

 Naproxen Aspirin Some women find that taking an over-the-counter pain reliever right before their period starts lessens the amount of pain and bleeding they have during their period.

Prescription medicines may help if over-the-counter pain medicines don't work:<sup>22</sup>

All medicines have risks. Talk to your doctor or nurse about the benefits and risks.

Over-the-counter and prescription medicines can help treat some PMS symptoms.

You may need to try several different types of birth control before you find one that helps your symptoms. • Antidepressants can help relieve emotional symptoms of PMS for some women when other medicines don't help. Selective serotonin reuptake inhibitors, or SSRIs, are the most common type of antidepressant used to treat PMS.<sup>23</sup> • Diuretics ("water pills") may reduce symptoms of bloating and breast tenderness. • Anti-anxiety medicine may help reduce feelings of anxiousness.

• Hormonal birth control may help with the physical symptoms of PMS,<sup>12</sup> but it may make other symptoms worse.

Should I take vitamins or minerals to treat PMS symptoms?

Maybe. Studies show that certain vitamins and minerals may help relieve some PMS symptoms. The Food and Drug

Administration (FDA) does not regulate vitamins or mineral and herbal supplements in the same way they regulate

• Vitamin B6. Vitamin B6 may help with PMS symptoms, including moodiness, irritability, forgetfulness, bloating, and anxiety. Vitamin B6 can be found in foods such as fish, poultry, potatoes, fruit (except for citrus fruits), and

Studies have found benefits for: • Calcium. Studies show that calcium can help reduce some PMS symptoms, such as fatigue, cravings, and depression.<sup>24,25</sup> Calcium is found in foods such as milk, cheese, and yogurt. Some foods, such as orange juice, cereal, and bread, have calcium added (fortified). You can also take a calcium supplement.

fortified cereals. You can also take it as a dietary supplement.

What complementary or alternative medicines may help relieve PMS symptoms?

medicines. Talk to your doctor before taking any supplement.

Studies have found mixed results for: • Magnesium.<sup>24</sup> Magnesium may help relieve some PMS symptoms, including migraines. If you get menstrual migraines, talk to your doctor about whether you need more magnesium.<sup>26</sup> Magnesium is found in green, leafy vegetables such as spinach, as well as in nuts, whole grains, and fortified cereals. You can also take a supplement. • Polyunsaturated fatty acids (omega-3 and omega-6). Studies show that taking a supplement with 1 to 2 grams of polyunsaturated fatty acids may help reduce cramps and other PMS symptoms.<sup>27</sup> Good sources of polyunsaturated fatty acids include flaxseed, nuts, fish, and green leafy vegetables.

Some women report relief from their PMS symptoms with yoga or meditation. Others say herbal supplements help

other medicines you take, making your other medicine not work or cause dangerous side effects. The Food and Drug

relieve symptoms. Talk with your doctor or nurse before taking any of these supplements. They may interact with

Some research studies show relief from PMS symptoms with these herbal supplements, but other studies do not.

Many herbal supplements should not be used with other medicines. Some herbal supplements women use to ease

Administration (FDA) does not regulate herbal supplements at the same level that it regulates medicines.

• Black cohosh.<sup>28</sup> The underground stems and root of black cohosh are used fresh or dried to make tea, capsules, pills, or liquid extracts. Black cohosh is most often used to help treat menopausal symptoms,<sup>29</sup> and some women use it to help relieve PMS symptoms. • Chasteberry. 30 Dried ripe chasteberry is used to prepare liquid extracts or pills that some women take to relieve PMS symptoms. Women taking hormonal birth control or hormone therapy for menopause symptoms

pill helps relieve PMS symptoms, but the research results are mixed.<sup>29</sup>

Premenstrual Syndrome — Information from the National Library of Medicine

Syndrome. Journal of Women's Health; 20(1): 29–35.

PMS symptoms include:

clinicaltrials.gov.

from other organizations:

Gynecologists

Sources

should not take chasteberry.

Did we answer your question about PMS? For more information about PMS, call the OWH Helpline at 1-800-994-9662 or check out the following resources

Researchers continue to search for new ways to treat PMS. Learn more about current PMS treatment studies at

• Evening primrose oil. The oil is taken from the plant's seeds and put into capsules. Some women report that the

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