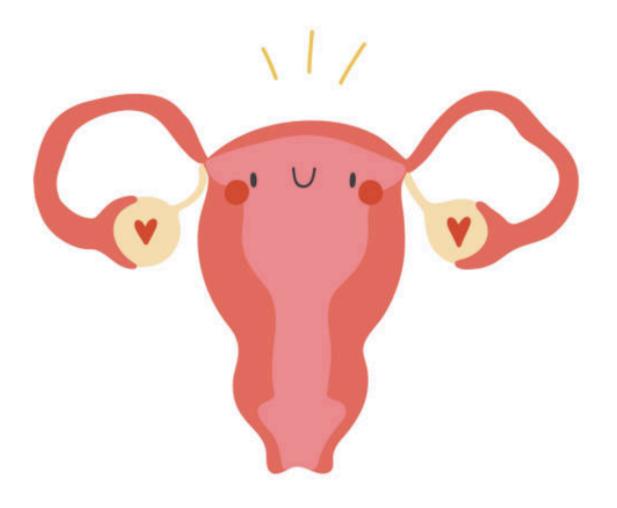
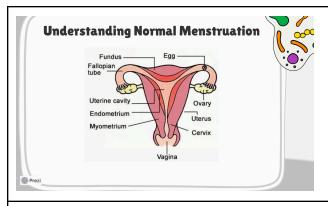
Guide to Menstrual Health & Problems Workshop

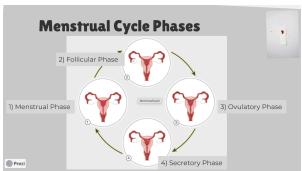


By Elizabeth LaCroix, Thomas J. Watson Fellow



Explain the anatomy of the female reproductive organs, making special note of where the vagina, cervix, uterus, ovary, fallopian tubes, uterine cavity, endometrium, and myometrium is.

Point to the endometrium as the regenerative layer shed each month in the form of period blood.



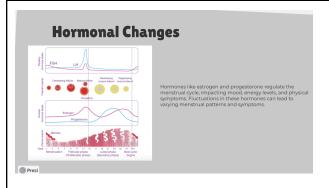
Menstrual Phase: On day 1, the uterus lining which is prepared for implantation starts to shed. (Day 1-5)

Follicular Phase: the primary follicle (where the select egg matures) starts developing into a mature "Graffian follicle." The endometrium begins proliferation to prepare for egg implantation. (Day 6-12)

Ovulatory Phase: Mid-cycle phase where the egg is released from the follicle and into the fallopian tube. This is the fertile window. (Day 13-17)

Luteal Phase: During the luteal phase, the follicle that contains the egg bursts and forms a cyst-like structure called the corpus-luteum, which is responsible for secreting estrogen and progesterone. Two hormones are responsible for thickening the endometrium and nourishing the egg if it has been fertilized. (Day 18-28) *This is how birth control works!*

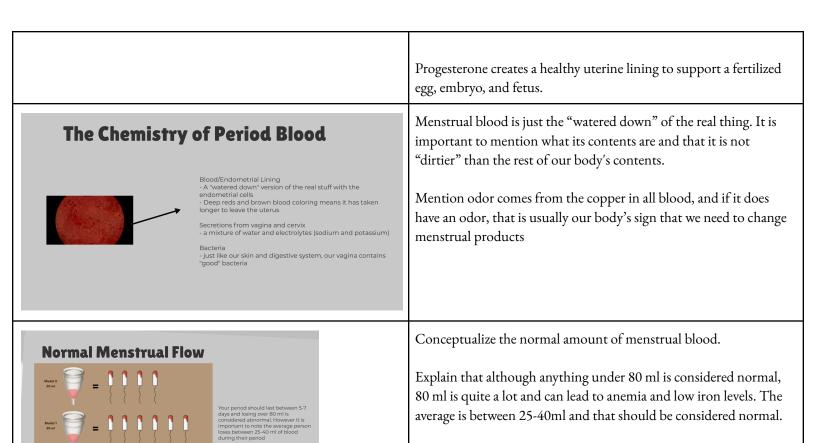
Estrogen and progesterone levels will drop dramatically if no fertilized egg is present and the uterine lining is shed in menstruation.



This chart details the hormonal and physical changes that occur throughout the menstrual cycle.

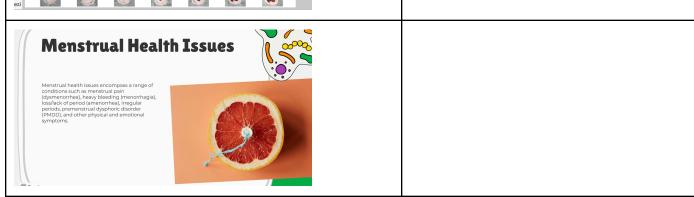
Follicle-stimulating hormone (FSH) and luteinizing hormone (LH) are two hormones secreted by the pituitary gland and spikes during ovulation. They help stimulate the growth of the follicle and the release of the egg.

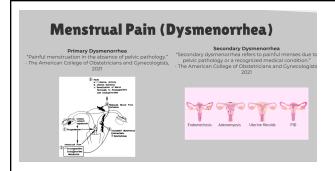
Estrogen plays a role in ovulation (when your ovaries release an egg) and thickens the lining of your uterus (endometrium) to prepare it for pregnancy



Somewhere between 5 and 8 tampons per period.







In Western medicine, there are two types of menstrual pain: primary and secondary. Primary dysmenorrhea is defined as menstrual pain in the absence of pelvic pathology and secondary dysmenorrhea is when pelvic pathology can be found.

Pelvic pathology is seen in the image to the right, where cells that do not belong in the anatomical region are growing, and/or there is inflammation in particular areas of the female reproductive organs.

Primary dysmenorrhea is largely believed to be caused by an inflammatory molecule made of fatty acids (remember this detail) which are released after the drop in progesterone at the onset of menstruation. They cause the myometrium to contract and expel blood. They are also involved during contractions in childbirth.

It is important to note that not all primary dysmenorrhea is link to elevated prostaglandins, and those with secondary dysmenorrhea often also have elevated levels of prostaglandins.

Menstrual Pain Management



Foods high in omega-3 fatty acids intercept the pathway in the production of prostaglandins.

Heavy Bleeding (Menorrhagia)



There is a reason why often your most painful periods are your heaviest! Menorrhagia is also associated with disordered prostaglandin production and many of the same diseases as secondary dysmenorrhea.



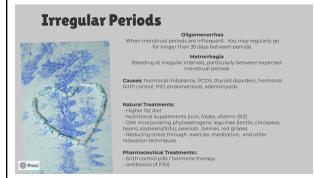
Mention that we will discuss PCOS, and pelvic inflammatory

Premature ovarian failure is when the body stops releasing eggs prior to menopause.

Those with female reproductive organs need a diet higher in healthy fats to be healthy. If our body fat percentage is low, our reproductive organs will not function properly because we cannot provide the necessary sustenance to a fetus.

Phytoestrogens are molecules in plants that model the female hormone estrogen. Since estrogen induces ovulation, phytoestrogen-containing foods can be helpful in inducing and regulating menstruation.





We can start to think of the female reproductive system as the body's alarm system!

What was your earliest memory of menstrual pain?

- Now old were you?

 Was this your first menstrual period?

 Can you describe the pain you felt (i.e. cramping in the lower abdomen, back pain, headache, body aches, etc.)

 Did you tell ancie, lie, friend, family member, medical practitioner)?

 How did you cope with the pain?

 Did you will with pain experience as normal or abnormal? Why was this your view?

- fyou learned about menstrual pain through someone or something else:

 Who taught you about menstrual pain?

 What did you learn?

 After learning about menstrual pain, did you ever experience menstrual pain firsthand? If so, how was your experience liferent and/or similar to how you learned?

 Did you learn about menstrual pain in a way that suggested it was normal or abnormal?

The first set of questions is meant for those who learned about menstrual pain by experiencing the pain.

The second set of questions is meant for those who learned about menstrual pain through another source, such as another person, media, and/or education.

Note: you only need to answer one set of questions

What was your earliest memory of menstrual pain?

Write (5 min):

Answer the questions on the previous slide on your own.

Share with your group (5-7 min):

- Give each person 1-2 minutes to share what they have written.
- · No comments on each other's experiences right now.

Group Share Out:

Those who choose, are given the option to share what they wrote with the whole aroup.

Divide into groups of 2-4 people.

Make sure each person is provided with a pen and paper. Clearly state that they must be listening (not commenting) on others' stories at this portion of the workshop.

Do you think menstrual pain is normal or abnormal?

- Discuss in a group (5 min):

 After hearing each other's stories, do you believe menstrual pain is normal?

 Are there types that are normal and others that are abnormal?
- Are there types that all similar the behalf of the behalf o

Elect a group spokesperson to share your findings with the room

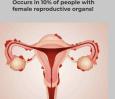
The goal is for everyone to recognize the differential experiences of everyone in the room as well as speak of a subject openly that is often taboo.

Menstrual pain isn't normal. Although not everyone will come to the same conclusion, they should be thinking more of menstrual problems as the body's alarm system.

Diseases & Disorders Related to Menstrual Issues



Endometriosis



"How many of you have heard of endometriosis?" Based on the number of attendees, name the number of people in the room who likely have the disease due to the 10% prevalence.

We are not certain of the exact cause of the disease, but we do not it is linked to increased inflammation and elevated estrogen. Therefore therapies targeting inflammation and increasing progesterone levels are considered helpful in treating the symptoms and stalling disease progression.

Not everyone with menstrual pain has endometriosis, but if you consistently have painful periods, some preventing you from going

Adenomyosis Is common with those already diagnosed with endometriosis. When the tissue that is similar to the ute inside the muscular wall of the ute Symptoms: menstrual pain, heavy during sex, difficulty or pain during pelvic pain, infertility Diagnosis: only diagnosable through intrastructure and in some cases through intrastructure are surgery is also necess where surgery is also necess.

about your daily activities you may want to consult a doctor.

It is essentially endometriosis growing inside the uterine wall.

It is mostly found in women past the age of thirty or after having children and often coupled with endometriosis and fibroids. However, it is not unheard of in adolescents.

Uterine fibroids

It is common to have both endometriosis and uterine fibroids.



Non-cancerous growths in the muscle layer of your uterus.

Symptoms: menstrual pain, heavy menstrual bleeding, pain during sex, pon-cyclical pelvic pain irregular bleeding.

Diagnosis: ultrasound

Treatment: the same as menstrual pain except in some

Adenomyosis is most common in women between ages 30 and 40 and is often coupled with endometriosis.

They consist of muscle tissue and fibrous connective tissue (the cells that hold our organs and tissues in place).

Ovarian Cysts

It is common to have both endometriosis and ovarian cysts.



A sac filled with fluid that forms on or inside the ovary. Usually they are harmless and go away on their own, but sometimes they can become twisted or rupture, causing serious symptoms

Symptoms: pelvic pain , pain during sex, heavy periods, irregular periods, lighter periods, bloating, difficulty defecating/constipation, menstrual pain

Diagnosis: ultrasound

Treatment: the same as menstrual pain except in some cases where surgery is also necessary.

You can treat the menstrual and pelvic pain symptoms with pharmaceutical or natural treatments. However, usually the cyst itself is left untreated and will go away on its own, but should be closely monitored in case of rupture.

Polycystic Ovary Syndrome (PCOS)



A condition where you have few, unusual, or very long periods. It is often associated with having too much of a male hormone called androgen, which causes many small sacs of fluid to develop on the ovaries, failing to regularly release

Symptoms: irregular menstrual periods, excess hair growth

Diagnosis: ultrasound, blood test confirming increased

Treatment: hormonal contraception and/or diet and nautral remedies for irregular periods

PCOS is a genetic disease and up to 70% of daughters of women with the disease will develop it.

Most common treatment is hormonal contraception and changes to diet.

Premenstrual Dysphoric Disorder (PMDD) Occurring during the luteal phase (1-2 weeks before your period) of your menstrual cycle, it causes severe feelings of wortheseness, depressed mode, self-deprecating throughts, sleep problems, and interpersonal conflict. Cause: Phought to be causes by a "sensitivity" to normal changes in hormone levels. Treatment: - Changes in diet to increase protein and carbohydrates and decrease sugar, salt, caffeine, and alcohol - Regular evercise and stress managment techniques - selective serotonin reuptake inhibitors (SSRIs)

It is often referred to as the more severe form of premenstrual syndrome.

Although it is thought to be caused by a "sensitivity" to normal changes in hormone levels, there is not extensive research on this.

This is one of the only menstrual disorders that is not commonly treated with birth control. Birth control has be prescribed to women with PMDD, but some find it makes their symptoms worse.

Pelvic Inflammatory Disease An infection in the upper part of the female reproductive system, namely the uterus, fallopian tubes, ovaries, and inside the pelvis. Cause: Marry types of bacteria can cause PID, but mostly genorrhea and chlamydia infections (two STIs). The bacteria are usually acquired during unprotected sex, but alternatively, bacteria can enter the reproductive tract with the cervis is breached. Symptoms: pain around pelvis/lower stomach, menstrual pain, heavy menstrual bleeding, pain when peeing, pain during sex, infertility Treatment: - Changes in diet to increase protein and carbohydrates and control of the pain of the period of

In rare cases poor menstrual hygiene can induce PID (usually if a tampon is left in for too long).



It is important to learn and practice advocating for ourselves in medical settings as female reproductive issues are historically normalized, underdiagnosed, and disregarded as "real" problems.



How to Consult a Medical Practitioner f given a treatment, "Is this fixing my symptoms or the underlying condition?"

If you still do not receive the answers and treatment you are seeking, remind yourself, that your menstrual problems are NOT normal. You are worthy of treatment.

Interactive Exercise:



The menstrual problems they can choose from are dysmenorrhea, amenorrhea, oligomenorrhea, menorrhagia, hypomenorrhea, and metrorrhagia. Not the other diseases or disorders. Although, they should mention the diseases or disorders their menstrual problem could be a sign of.

This is a practice of using the knowledge they gained today in the workshop to advocate for themselves.

Participants can either pretend they have a certain menstrual problem or use their current or past real menstrual problems.

The Importance of Menstrual Hygiene



Remember, prostaglandins are involved in the inflammatory networks. So, if you are exposing your body to an increased risk of infection, you are also risking increased inflammation that comes with infection.

Poor menstrual hygiene can make your menstrual pain and problems worse!