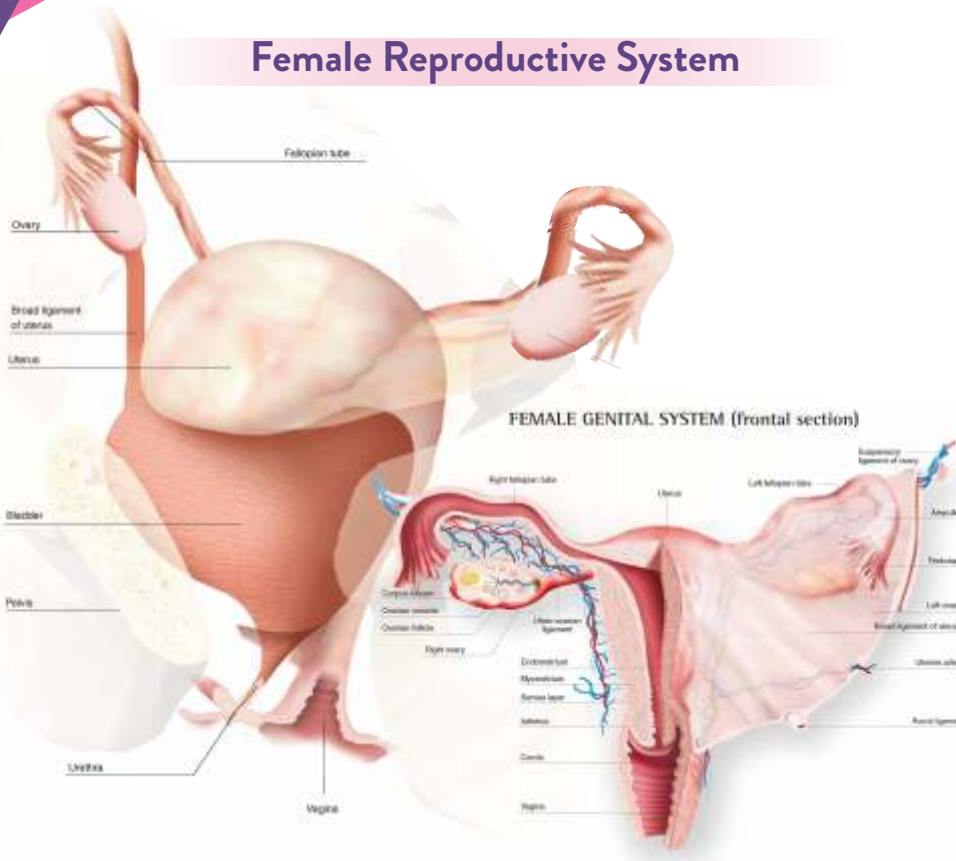
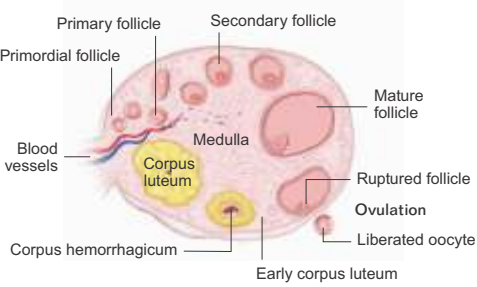


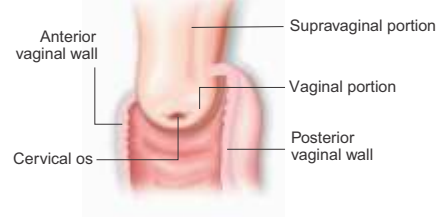
# Female Reproductive System



## OVARY



## CERVIX

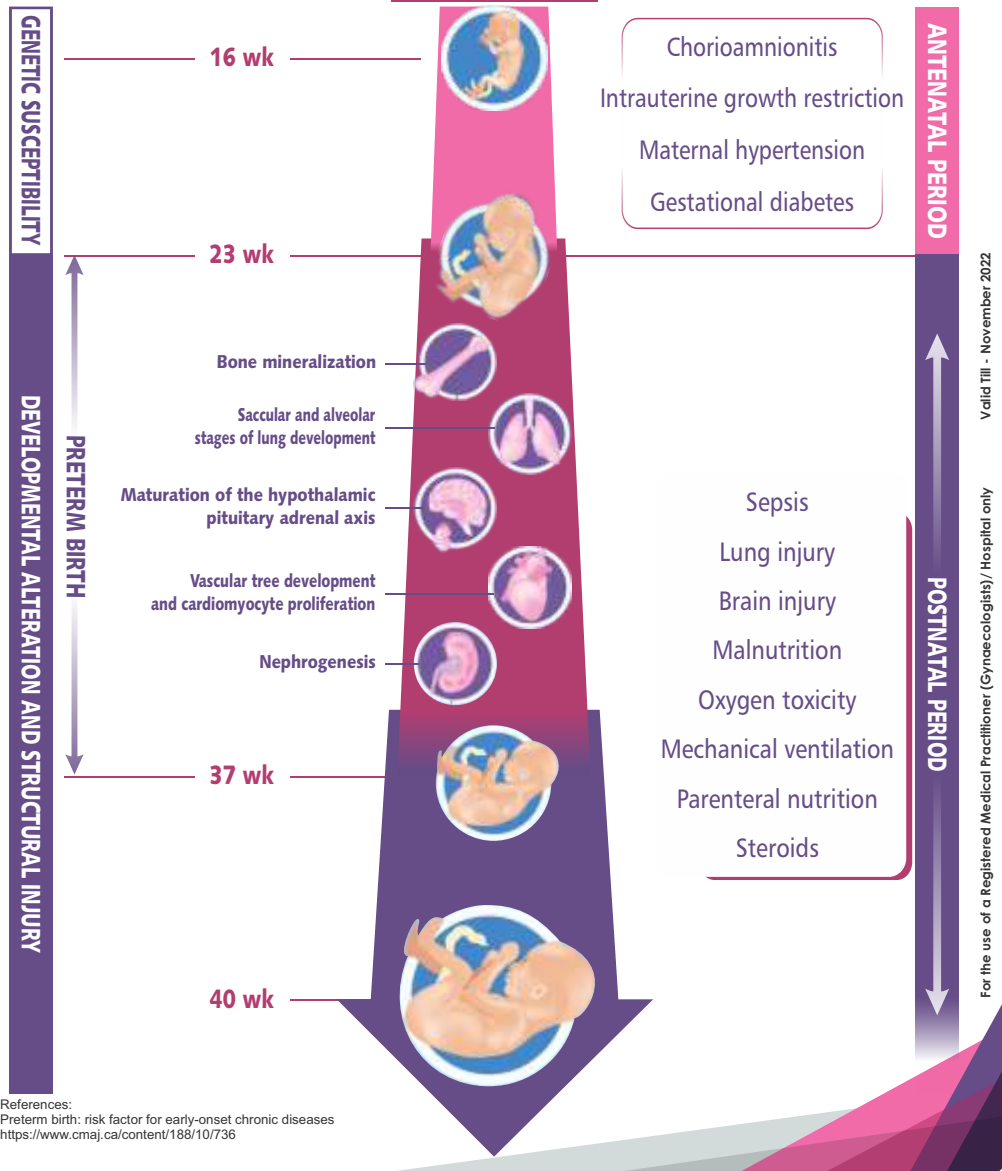


References:  
 Standing S. female reproductive system. Chapter 77. In: Grays Anatomy  
 The Anatomical basis of Clinical Practice. 41th edition. London: Elsevier; 2016. p. 1279-1313.

Valid Till - November 2022  
 For the use of a Registered Medical Practitioner (Gynaecologists)/ Hospital only

## Few Pregnancy Disorders Related to Progesterone Deficiency

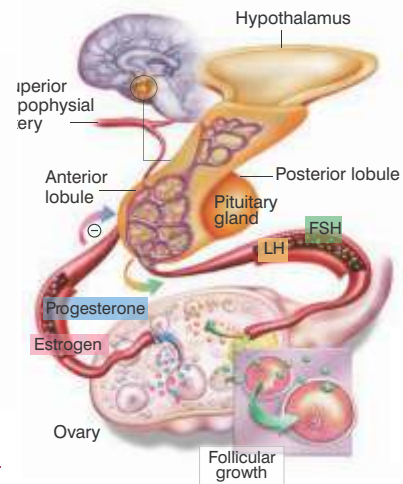
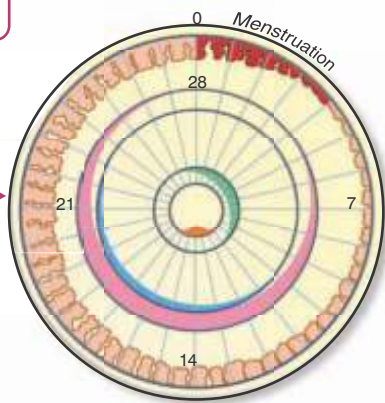
### Preterm Birth



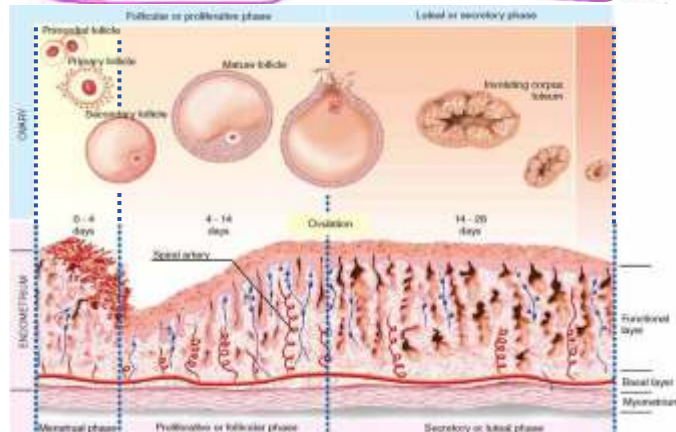
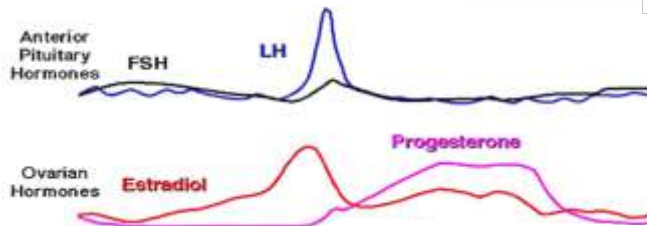
References:  
 Preterm birth: risk factor for early-onset chronic diseases  
<https://www.cmaj.ca/content/188/10/736>

# Menstrual Cycle & Related Hormones

- Estrogen
- Progesterone
- FSH
- LH



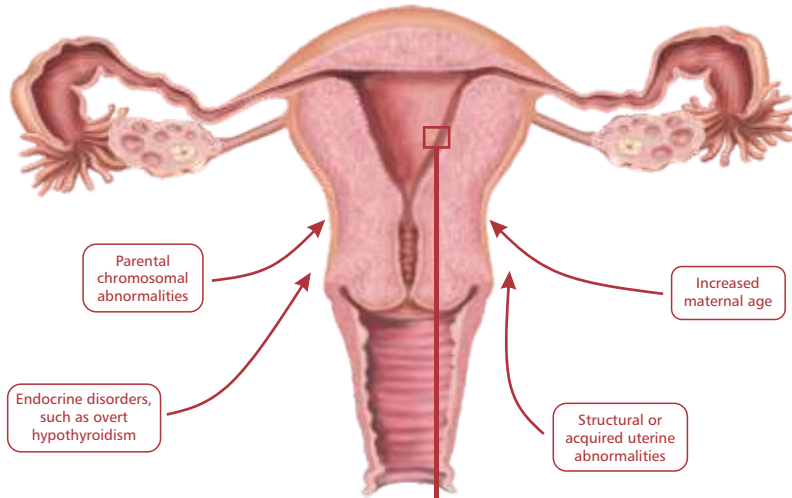
## OVARIAN AND ENDOMETRIAL CYCLE



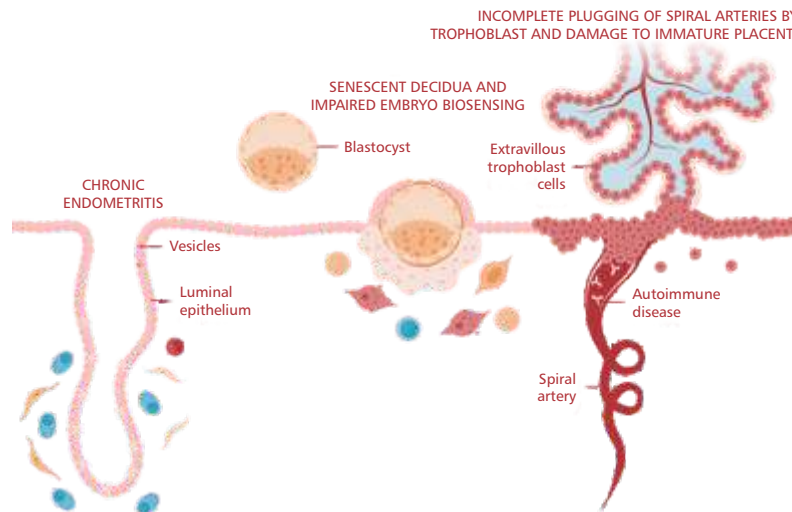
References:  
 1. Stevens A and Lowe J. Female Reproductive System. Chapter 17. In: Human Histology, 3rd edition. London: Elsevier, 2005.  
 2. Gordon K and Oehninger S. Reproductive Physiology. Chapter 3. In: Copeland L. Textbook of Gynecology, 2nd edition. Philadelphia: Saunders Company, 2000.

## Few Pregnancy Disorders Related to Progesterone Deficiency

### Recurrent Pregnancy Loss



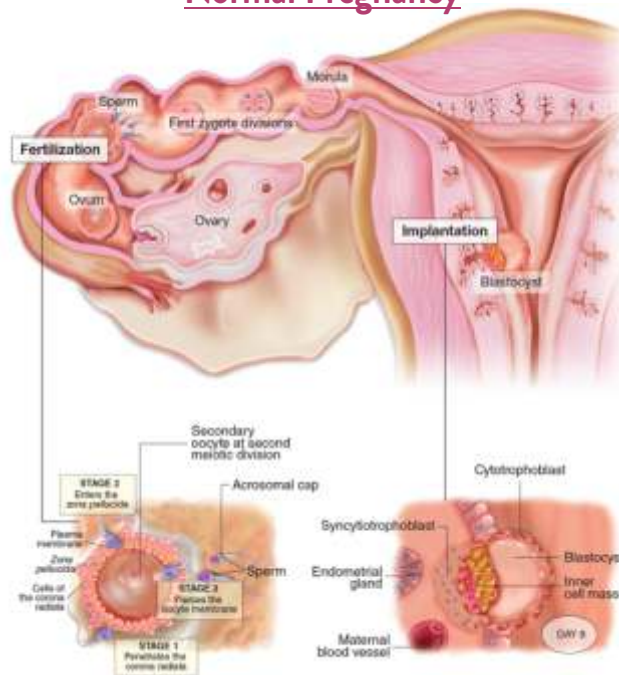
Several risk factors for recurrent pregnancy loss have been identified. How some of these factors lead to pregnancy loss is poorly understood.



References:  
<https://www.nature.com/articles/s41572-020-00238-x>

## Luteal Phase Deficiency

### Normal Pregnancy



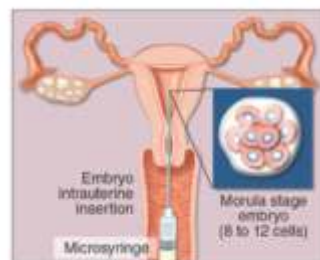
### IVF Pregnancy



**Fertilization in vitro (FIV)**



**Selection of embryos**



**Embryo transfer**

References: (1) Lobo RA. Infertility, Etiology, Diagnostic Evaluation, Management, Prognosis. Chapter 41. In: Katz VL, Lentz GM, Lobo RA and Gershenson DM. Comprehensive Gynecology, 5th edition. Philadelphia: Mosby Elsevier, 2007.  
 (2) Pauli SA, Berga SL, Shang W and Session DR. Current Status of the Approach to Assisted Reproduction. *Pediatr Clin N Am* 2009;56:467-88.

## Few Pregnancy Disorders Related to Progesterone Deficiency

### Threatened Abortion

Threatened Miscarriage



Vaginal Bleeding Occurs

Inevitable Miscarriage



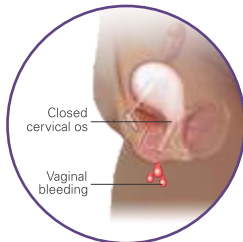
Membranes Rupture & Cervix Dilates

Incomplete Miscarriage



Some Products of Conception  
have been expelled

### Signs of Threatened Abortion



Bleeding / Blood Clot  
from Vagina



Abdominal Cramping



Sharp Pain in  
the lower back

#### References:

1. <http://www.medzsoft.com/pregnancy/obstetric-history>
2. Mouri M, Rupp TJ. Threatened Abortion. StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2020 Jan.

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