

## CONCEPT: STEROID HORMONES

- Cholesterol is a \_\_\_\_\_ for steroid hormones.
- \_\_\_\_\_: signaling molecules released by a cell/gland that can travel & affect distant cells in other areas.
- Steroid Hormones can be classified into \_\_\_\_\_ groups according to the physiological responses they evoke:

They are angry **HORMONAL** elves.

Steroid Hormone	Function	Example
Androgens (Gonads)	Controls sexual development in _____.	<b>Testosterone</b> 
Estrogens (Gonads)	Controls sexual development in _____.	<b>Estradiol</b> 
Progestins (Gonads)	Controls the menstrual cycle & _____ in females.	<b>Progesterone</b> 
Glucocorticoids (Adrenal Cortex)	Helps control carbohydrate, protein, & lipid _____.	<b>Cortisol</b> 
Mineralcorticoids (Adrenal Cortex)	Regulates _____ excretion of salt and water.	<b>Aldosterone</b> 

**PRACTICE:** Each of the following can be synthesized from cholesterol EXCEPT:

- a) Glucose.      b) Progesterone.      c) Cholic acid.      d) Testosterone.      e) Estradiol.

**PRACTICE:** Identify the molecule derived from sterols.

- a) Arachidonic acid.      c) Phosphatidylglycerol.      e) Cortisol.  
 b) Gangliosides.      d) Prostaglandins.

**PRACTICE:** Which of the following steroid hormones regulates a female's menstrual cycle?

- a) Estrogen.      b) Testosterone.      c) Progesterone.      d) Cortisol.