

Endometriosis and GnRH Antagonists

Description:

Do a full-brain workout to study for this exam. This technique is perhaps the single most effective way to master a topic because it includes: recalling information, describing a topic as thoroughly as possible, thinking about a concept from many angles, actively reviewing your notes and textbook, writing about a topic, seeking and correcting misunderstandings, and critically deriving the simplest correct answer for the question being asked.

Directions:

1. Follow these steps in sequential order:
 - a. Using a colored pen (e.g. **green**) and only your own memory, write down everything you can to answer the question. This includes definitions, diagrams, feedback pathways, graphs, concept maps, keywords, sketches—anything at all.
 - b. Using a different colored pen (e.g. **purple**) and all the resources you have available (notes, lecture recordings, the textbook, the Internet, etc.), fill in any information you did not originally include in your answer. Additionally, use a third color of pen (e.g. **red**) to correct anything that you wrote down incorrectly.
2. Once you have collected all the pertinent information to answer the question in one place, in a separate space work to come up with the most complete, yet concise answer possible that would correctly answer the question being asked.

Inking Prompt:

Endometriosis is a condition in which endometrial cells grow outside of the uterus, usually within the abdominal cavity. These “explants” of endometrial tissue follow the same pattern of growth during the menstrual cycle as normal uterine tissue, which often leads to increased bleeding and pain during one's menstrual period. In severe cases, GnRH antagonists are prescribed to control the condition.

- a) Explain what menstruation is and detail what causes it to occur monthly.
- b) Next, draw a negative feedback diagram that illustrates why a GnRH antagonist would be effective at reducing the symptoms of endometriosis. Include all applicable hormones and organs involved.