

## WEEK 11

# PAIN, HEADACHE, AND REPRODUCTIVE SYSTEM DISORDERS

### Objectives:

1. Describe the term nociception and the four phases of nociception.
  2. Discuss how peripheral sensitization leads to hyperalgesia.
  3. Describe how capsaicin works on its receptor.
  4. Explain the four different types of afferent axon fibers and what sense they transmit.
  5. Describe the DCML and ALS tracts for pain transmission.
  6. Explain how descending pathways and opioids work to regulate pain.
  7. Explain how pain may be regulated through the gate control theory.
  8. Discuss the different types of pain and how they are categorized.
  9. Describe how common pain medication works to modulate pain.
  10. Compare and contrast the different types of headaches (migraine, tension, cluster, and chronic).
  11. Describe some common medications to treat headaches.
  12. Describe benign prostatic hyperplasia (BPH) and prostate cancer and how they differ.
  13. Discuss common disorders of the uterus (PID, endometriosis, adenomyosis, etc.)
  14. Describe the normal physiology of the menstrual, ovarian, and follicular cycles.
  15. Discuss the pathophysiology of polycystic ovarian syndrome (PCOS) and ovarian cancer.
  16. Recall the signs, symptoms, and risk factors for breast cancer.
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Vocabulary:

- Adenomyosis
  - Allodynia
  - ALS pathway
  - Androgen
  - Aromatase
  - Aura
  - BPH
  - Bradykinin
  - BRCA 1 and 2
  - Capsaicin
  - CGRP
  - Corpus albicans
  - Corpus luteum
  - DCML pathway
  - DNIC
  - Enkephalin and endorphin
  - Endometriosis
  - Estrogen
  - Follicular and luteal phases
  - Gate control theory of pain
  - GnRH, LH, FSH
  - Granulosa cell
  - Hirsutism
  - Hyperalgesia
  - Hyperplasia
  - Hypertrophy
  - Hysterectomy
  - Leiomyoma
  - LH surge
  - Menses
  - Nociception
  - Ovulatory age
  - Ovulation
  - PID
  - Proliferative and secretory phases
  - Progesterone
  - PSA
  - SERM
  - Substance P
  - Theca cell
  - DHT
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Pain and Headaches

Introduction to Pain and Pain Assessments

Pain Transduction

Pain Transmission

Pain Perception

Pain Modulation

The Gate-Control Theory of Pain

Types of Pain

Pain Medication

Headaches

Reproductive System Disorders

Benign Prostatic Hyperplasia and Prostate Cancer

Disorders of the Uterus

Review of the Physiology of the Menstrual Cycle

Disorders of the Ovary

Breast Structures and Breast Cancer



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