

## Adrenal Hormones

## Chapter 27

- I. Adrenal Gland
  - A. Structure
    - 1. cortex
    - 2. medulla
- II. Adrenal Cortex
  - A. Zones
- III. Mineralocorticoids
  - A. Structure
  - B. Aldosterone
  - C. spironolactone (Aldactone)
    - 1. Conn's syndrome
  - D. eplerenone (Inspra)
- IV. Glucocorticoids
  - A. Cortisol
    - 1. metabolic actions
    - 2. permissive actions
    - 3. stress
    - 4. anti-inflammatory effects
    - 5. regulation
      - a. CRH
      - b. ACTH
  - B. Therapeutic uses of corticosteroids
    - 1. replacement therapy
      - a. Addison disease
        - 1) hydrocortisone
    - 2. too much
      - a. Cushing syndrome
        - 1) diagnosis
          - a) dexamethasone (Decadron)
        - 2) treatment
          - a) ketoconazole (Nizoral)
      - b. CAH - Congenital adrenal hyperplasia
    - 3. Relief of inflammatory symptoms
      - a. Topicals
        - a) betamethasone (Celestone, Diprolene, Luxiq)
        - b) triamcinolone (Kenalog, Nasacort, Aristospan)
          - 1) conditions
      - b. Oral
        - a) methylprednisolone (Medrol)
        - b) prednisolone (Orapred, Pediapred)
        - c) prednisone
          - 1) conditions
      - c. injection - intra-articular
      - d. inhalation - see next chapter (section)
- V. Pharmacokinetics
- VI. Adverse effects
- VII. Discontinuation