

Estrogens and Androgens

Chapter 26

- I. Overview
 - A. Steroid hormones
 - 1. lipophilic
 - 1) nuclear receptors
 - a. membrane receptors
 - B. Physiology
 - C. Medicinal uses
- II. Estrogens
 - A. estradiol
 - B. Metabolites
 - 1. estrone
 - 2. estriol
 - C. SERMs
 - 1. drugs
 - a. **tamoxifen**
 - b. **raloxofene**
 - c. clomiphene
 - D. Synthetic
 - 1. **ethinyl estradiol**
 - 2. mestranol
- III. Progestogens
 - A. Progesterone
- IV. Contraceptives
 - 1. adverse reactions
 - A. Combination oral
 - 1. **desogestrel**
 - 2. **drospirenone**
 - 3. **levonorgestrel**
 - 4. **norethindrone**
 - 5. **norethindrone acetate**
 - 6. **norgestimate**
 - B. Transdermal patch
 - 1. **norelgestromin**
 - C. Vaginal ring
 - 1. **etonogestrel**
 - D. Progestin-only pills
 - 1. **norethindrone**
 - E. Injectable
 - 1. **medroxyprogesterone acetate**
 - F. Progestin implants
 - 1. **etonogestrel**
 - G. Progestin intrauterine device - IUD
 - 1. **levonorgestrel**

- V. Emergency contraception
 - A. High dose hormone
 - 1. progestin alone
 - a. **levonorgestrel**
 - 1) Next Choice, Plan B
 - 2) PlanB One-Step
 - 2. progestin + estrogen
 - B. Antiprogestin
 - 1. **mifepristone** = RU486
 - C. Progesterone agonist/antagonist
 - 1. **ulipristal acetate**

- VI. Androgens
 - A. Physiology
 - a. testosterone
 - 1. other androgens
 - 2. effects
 - B. Therapeutic uses
 - 1. **danazol**
 - C. Pharmacokinetics
 - 1. derivatives
 - a. **fluoxymesterone**
 - b. **oxandrolone**
 - D. Adverse effects
 - E. Antiandrogens
 - 1. inhibit production
 - a. **finasteride**
 - b. **dutasteride**
 - 2. block receptors
 - a. **flutamide**
 - b. **bicalutamide**
 - c. **enzalutamide**
 - d. **nilutamide**