

## Retinoids

### I. Drugs

- A. Tretinoin
- B. Isotretinoin
- C. Adapalene
- D. Tazarotene

### II. Indications

- A. Acne
- B. Psoriasis
- C. Photoaging & Hyperpigmentation

### III. Activity

- A. Comedolytic
- B. Improves collagen & dermal matrix

### IV. Adverse Effects:

- A. Photosensitivity
- B. Risk of birth defects in pregnancy

## Other Topical Acne Medications

### I. Drugs

- A. Benzoyl Peroxide
  - 1. Antimicrobial
  - 2. Opens pores
- B. Salicylic Acid ->Psoriasis
  - 1. Exfoliates sebaceous glands
  - 2. Anti-inflammatory
- C. Azelaic Acid
  - 1. Antimicrobial
  - 2. Anti-inflammatory

### II. Indications

- A. Acne

## Pigment Disorder Medications

### I. Drugs

#### A. Hydroquinone

1. Indications: Reduces pigmentation in photoaging, melasma, freckles
2. Mech: Inhibits tyrosinase (melanin synthesis)
3. Adverse Effects: Possible carcinogenic

#### B. Methoxsalen - >Repigmentation agent

1. Indications: Vitiligo, psoriasis, Cutaneous T-cell lymphoma
2. Mech: Inhibits DNA Replication
  - a) Inhibits cell proliferation
  - b) Stimulates cell differentiation
3. Adverse Effects:
  - a) Possible carcinogen
  - b) Ages Skin

## Vitamin D Analogues

### I. Drugs

- A. Calcipotriene
- B. Calcitriol

### II. Indications

- A. Psoriasis

### III. Activity:

- A. Inhibits keratinocytes
- B. Promotes keratinocyte differentiation
- C. Reduces IgE mediated inflammation

### IV. Adverse Effects:

- A. Hypercalcemia