

## Learning unit: Dermatologics

### Impact of the learning unit

Learning outcomes of the learning unit are to introduce the drug dosage forms most used in dermatology and the active substances from the group of antiseptics, disinfectants, emollients, astringents, antipsoriatics and drugs for acne therapy. Student will learn how to prescribe IPP of dermatological preparations and is able to avoid the major incompatibilities of components in prescription.

### Relevant terms

antiseptics, disinfectants

- alcohols, aldehydes, phenols
  - ethanol
  - isopropanol
  - phenol
- acids
  - boric acid
  - salicylic acid
- oxidizing agents
  - hydrogen peroxide
  - potassium permanganate
  - iodine / iodine tincture / Lugol's solution
  - chlorine / chlorhexidine / hypochlorite
- surfactants
  - soaps
  - quaternary ammonium compounds
- organic dyes
  - gentian violet
- metals
  - silver
  - mercury

astringents

- tannins
- silver nitrate
- aluminium acetate and tartrate

keratolytics, keratoplastics

- salicylic acid
- urea
- tretinoin
- ichthammol
- tar (pix)

#### wound healing substances

- pantothenic acid / dexpanthenol
- balsam of Peru
- chlorophyll
- chamazulene
- hyaluronic acid
- propolis

#### emollients

- liquid paraffin
- white grease
- almond oil
- urea
- soybean oil
- fish oil

#### acne therapy

- retinoids
- antibiotics
- benzoyl peroxide

#### antipsoriatics

- tar
- ichtamol
- retinoids
- derivatives of vit. D
- psoralen / PUVA
- biologic treatment
  - etanercept
  - infliximab
  - adalimumab

#### topical ATBs

- neomycin + bacitracin
- fusidic acid
- mupirocin
- systemic antibiotics used topically (clindamycin, tetracycline, erythromycin, azithromycin, chloramphenicol, kanamycin, tobramycin, ofloxacin, sulfacetamide, metronidazole)

#### anti-inflammatory drugs

- glucocorticoids

#### urticaria

#### rosacea

## **Learning outcomes**

Student knows the basic pharmacological profile (mechanism of action, side effects, indications and contraindications) of individual classes of dermatologics.

## **Study literature**

Rang & Dale's Pharmacology, 9th ed., 2020

Study materials in IS aVLFA0822c and aVLFA08222p.

## **Exam questions**

*Special pharmacology:* 39. Dermatologics – overview of classes, drugs and effects

*"Essential" drugs:* aciclovir; ciprofloxacin; cyclosporine; gentamicin; methotrexate; terbinafine