

# **Dermatology**

## **Structure and functions Of Skin**

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# DERMATOLOGY

- ▶ The branch of medicine concerned with the diagnosis, treatment, and prevention of diseases of the skin, hair, nails and mucosae.

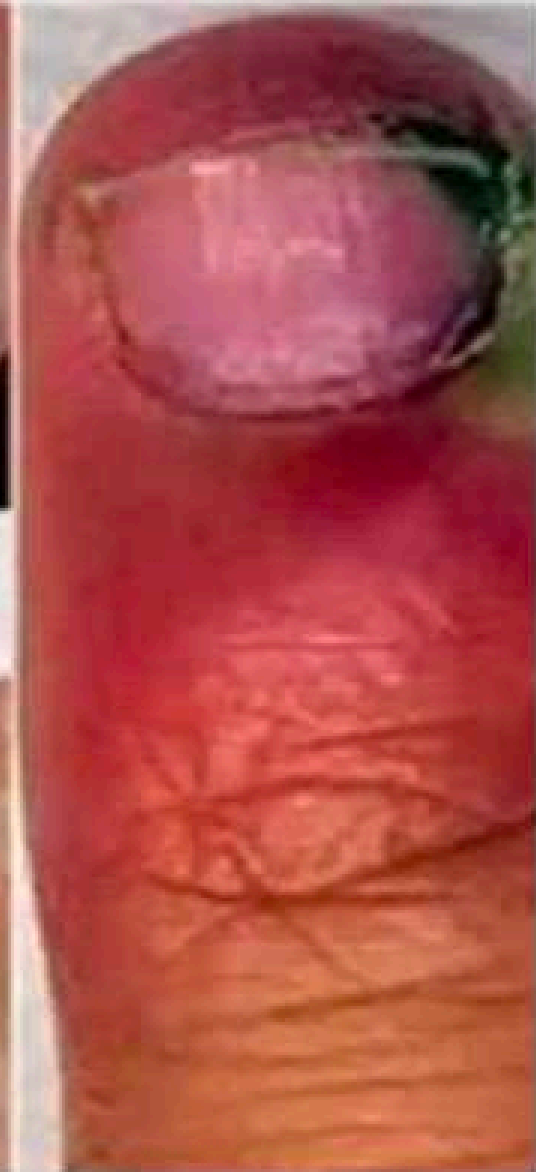
Onycholysis



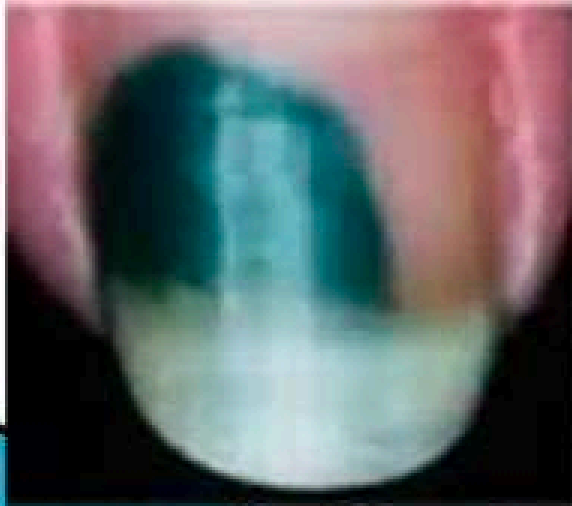
Pitted nails



Paronychia



Hematoma




Pseudomonas  
bacteria



# TOPICS

- Structure and functions of skin
- Basic skin lesions
- Acne Vulgaris
- Lichen planus
- Psoriasis
- Eczema
- Cutaneous Bacterial infections
- Cutaneous Fungal infections
- Cutaneous Viral infections
- Cutaneous Tuberculosis

- Leprosy
  - Scabies
  - Pediculosis
  - Disorders of Hair
  - Disorders of Pigmentation
  - Bullous disorders
- 

# Reference Books

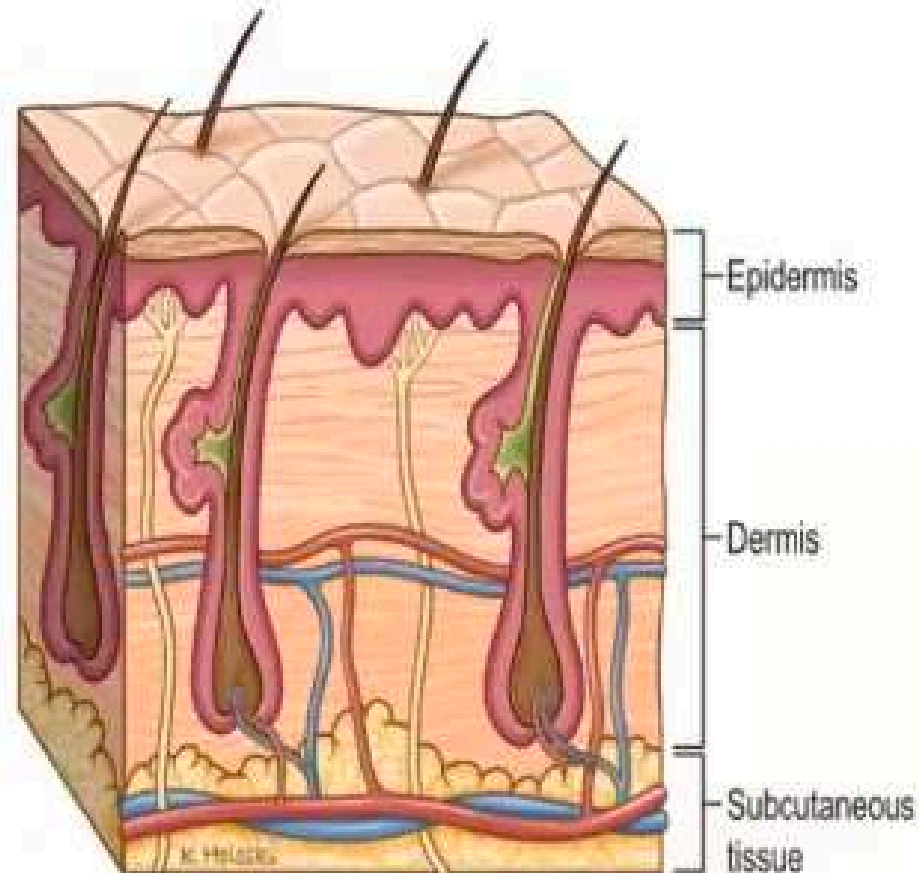
- ▶ ABC of Dermatology
- ▶ Davidson's handbook of Medicine
- ▶ PJ Kumar's handbook of Medicine

# STRUCTURE AND FUNCTIONS OF SKIN

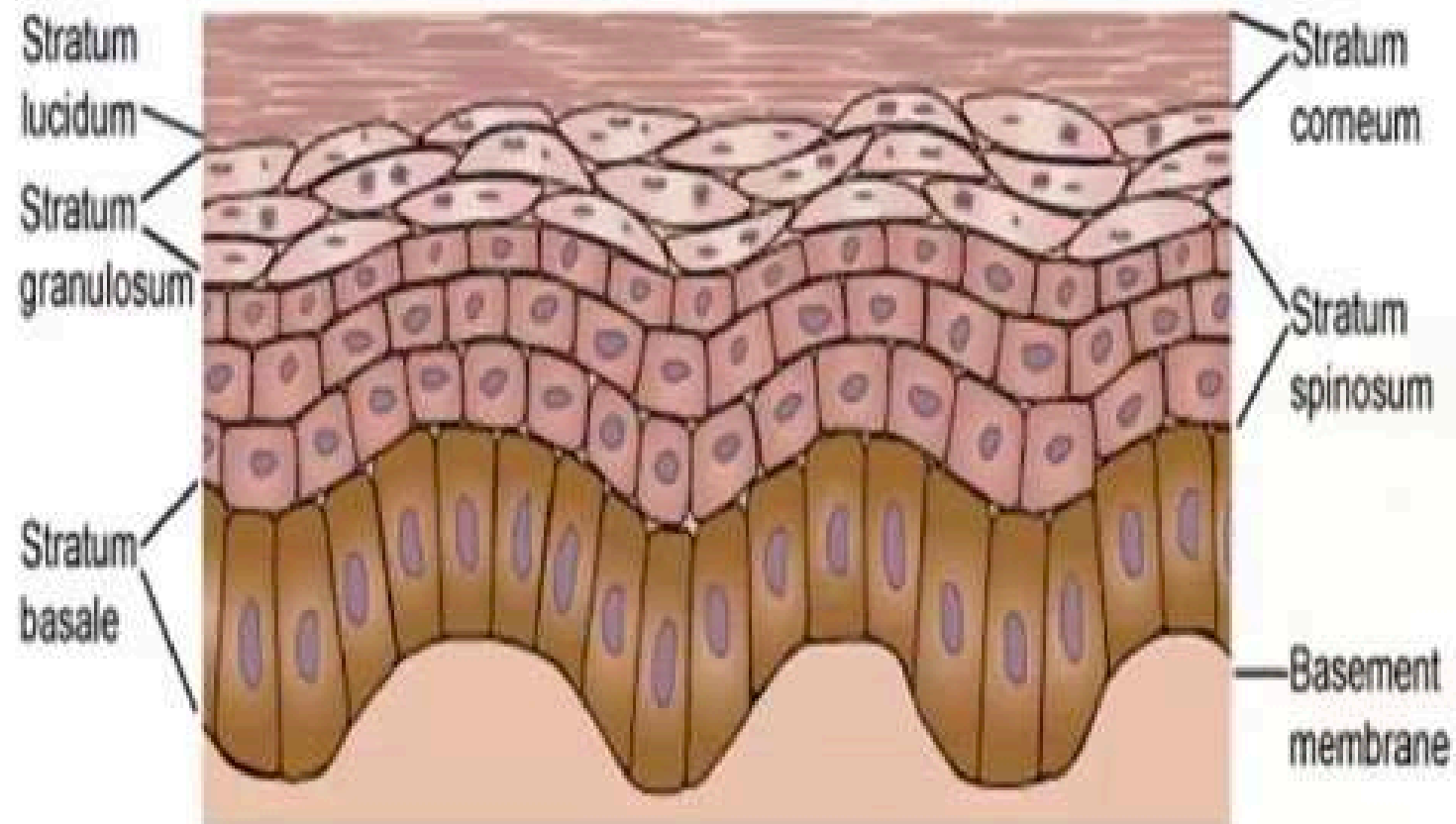
# Anatomy of skin

- ▶ Epidermis

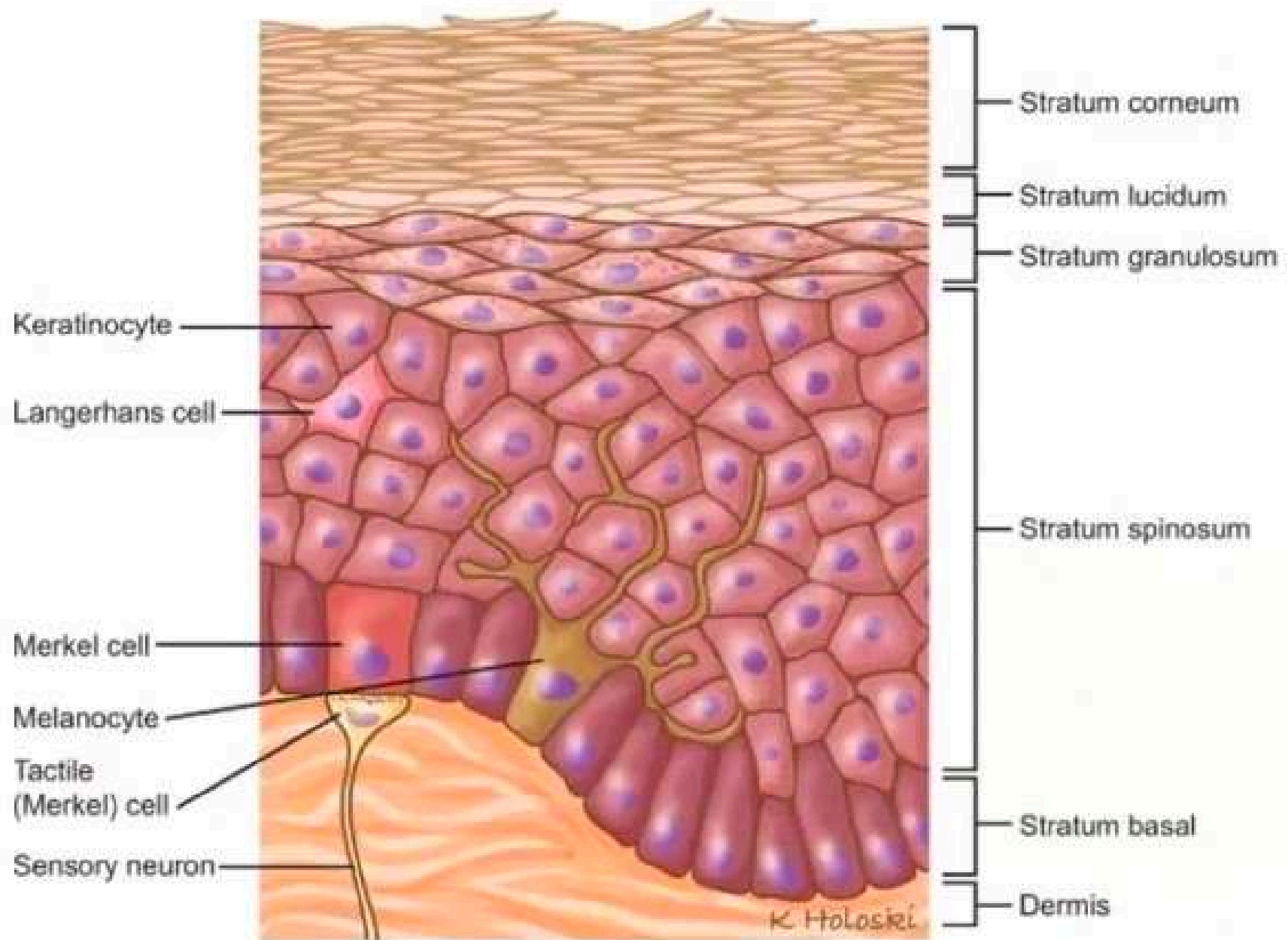
- ▶ Dermis







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# Epidermis

## 1.Stratum basale

- Tall columnar cells with large nuclei
- Scattered in between are Melanocytes

## 2.Stratum Spinosum ( prickles cell layer)

- Several polygonal squamous cells
- Attached to each other by intercellular bridges (prickles)

## 3.St.Granulosum

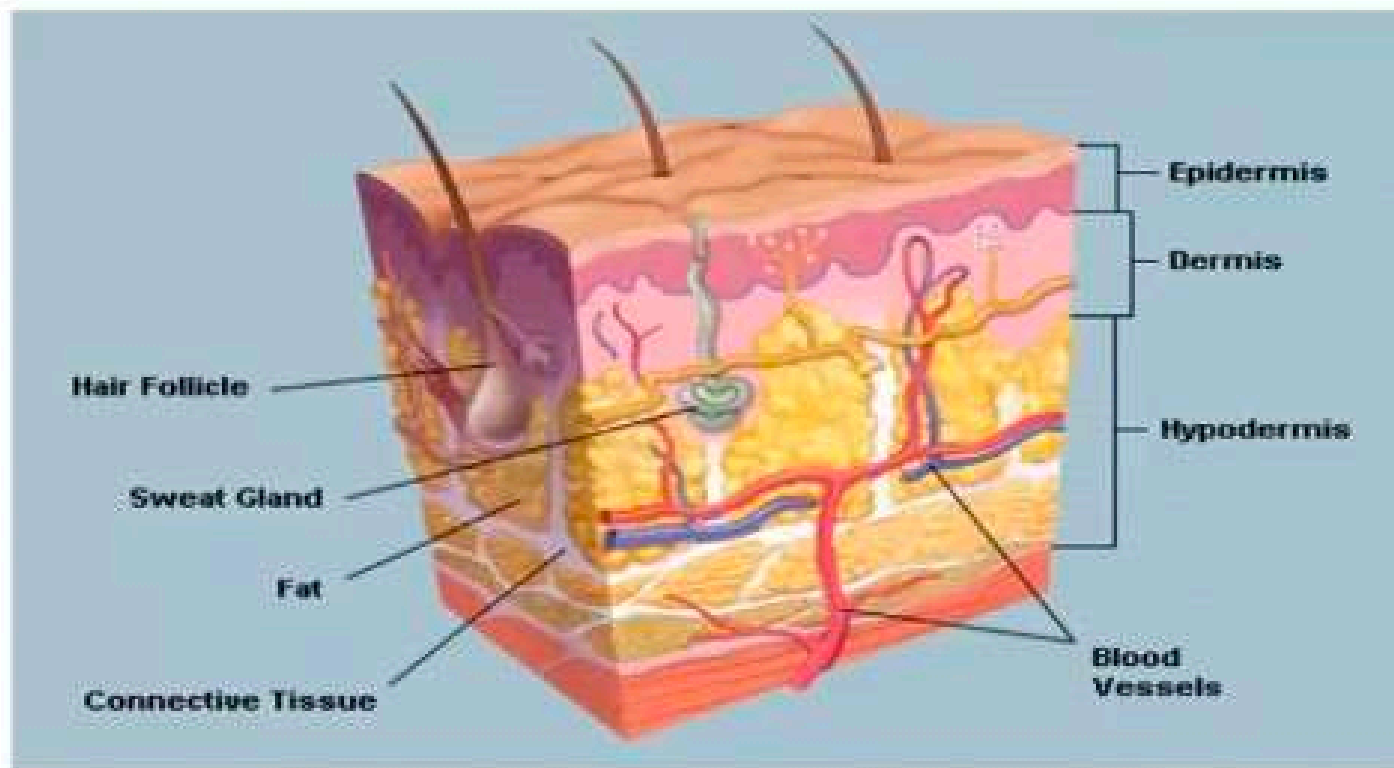
- Transversely lying cells with keratohyaline granules

## 4.St. lucidum

- Clear zone found in palms and soles

## 5.St.Corneum

- Several rows of anucleated cornified cells



# Special ectodermal structures

- ▶ Hair
- ▶ Nails

# Functions of skin

# Functions of skin

- ▶ Protection
  - ▶ Water and electrolyte regulation
  - ▶ Heat regulation
  - ▶ Perception
  - ▶ Excretion
  - ▶ Manufacturing
  - ▶ Aesthetic
  - ▶ Emotional
- 