

# Health - Integumentary System Cheat Sheet by Autumn (Autumn) via cheatography.com/145676/cs/33049/

### Parts Of The Integumentary System

- Skin
- Sweat glands
- ♠ Sebaceous glands
- Nails
- Subcutaneous tissue

## **Age-Related Changes**

- Thin skin & smaller elastin fibres
- C Collagen loss → wrinkles weaker & saggier skin
- C Less melanin → pale skin & grey/white hair
- C Longer skin repair time

#### Skin

#### **Functions**

- 1st defense line
- Maintains fluid balance

- Regulates body temp

### Layers

- Amain skin layers: epidermis & dermis
- Subcutaneous tissues (not skin)

### Subcutaneous Layer

- Aka hypodermis (underneath the dermis)
- Not part of the skin, mainly made of connective & adipose tissue
- Rich blood supply
- ☼ Insulates body and sits between skin & underlying structure

### **Epidermis**

- Top skin layer
- Made of keratinocytes
- $\ \ \, \ \ \, \ \ \, \ \ \, \ \ \,$  No blood supply gets  $O_2$  & nutrients from dermis

**Keratinisation**: Keratin protein deposited into coll

Melanocytes: Releases melanin & has armlike

projections to protect keratinocytes from UV light

#### Main Layers

Stratum	Stratum Germinati-
Corneum	vum/Basale
Top layer of epidermis	Bottom layer of epidermis
Dead cells rubbed off &	Continuously divides, older cells die & keratinise
replaced	1 layers

### Skin Colour

C Determined by 3 pigments:

### Melanin

- Darkening pigment from melanocytes

### Carotene

- Carotene → Vitamin A for healthy eyes, skin, vision etc.

### Haemoglobin

- Bright red
- Poorly oxygenated blood → decreased haemoglobin → cyanosis

#### Dermis

- Underneath epidermis

#### Connective Tissue

Collagen Fibres	Elastin Fibres
	Allows
elasticity → young	stretchy skin
appearance	
elasticity → young	

#### **Dermis Parts**

- ▶ Blood Vessels: Blood to sweat, sebaceous glands, hair follicles & dermis tissue
- **C** Lymph Vessels: Lymph & immune cells to dermis

- ♠ Arrector Pili: Contracts to raise hair & skin
- **C** Sebaceous Glands: Creates & releases sebum → prevents dry/cracked skin

#### 

Eccrine Glands	Apocrine Glands
	Sweat + bacteria → body odour
☼ Opens directly onto epidermis	Opens into hair follicles
Regulates body temp	

### Nails

- Made of tightly packed keratinzed cells
- Protects toe & finger tips



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Not published yet. Last updated 7th July, 2022. Page 1 of 1. Sponsored by **CrosswordCheats.com** Learn to solve cryptic crosswords!

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