

# 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

### **Age-Related Changes**

- Thin skin & smaller elastin fibres
- Collagen loss → wrinkles weaker & saggier skin
- C Less melanin → pale skin & grey/white hair
- Reduced blood supply to skin → harder to regulate body temp
- C Longer skin repair time

#### Skin

#### **Functions**

- 1st defense line
- Maintains fluid balance
- Protects organs & structures

- 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

**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 lavers

## Skin Colour

C Determined by 3 pigments:

## Melanin

- ☼ Darkening pigment from melanocytes
- More melanin → darker skin colour

#### Carotene

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

## Haemoglobin

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

#### Dermis

- Underneath epidermis

#### Connective Tissue

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#### **Dermis Parts**

- ▶ Blood Vessels: Blood to sweat, sebaceous glands, hair follicles & dermis tissue
- **C** Lymph Vessels: Lymph & immune cells to dermis
- Sensory Nerve Endings: Nocioreceptors (pain), thermoreceptors (temperature), mechanoreceptors (pressure)
- ♠ Arrector Pili: Contracts to raise hair & skin
- **C** Sebaceous Glands: Creates & releases sebum → prevents dry/cracked skin

#### 

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

## Nails

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



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