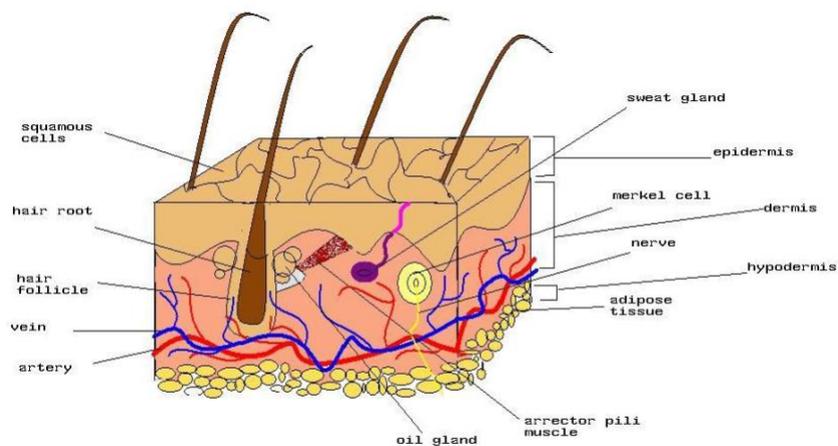


Level 3 Massage year 11 Task. The Integumentary system.



Structure of the skin

The **Epidermis** consists of 5 layers

- Stratum corneum (horny layer), stratum lucidum (transparent layer), stratum granulosum (granular layer), stratum spinosum (prickle cell layer), stratum germinativum (basal layer)
- Please draw and label the 5 layers of the Epidermis. USE colour to identify different layers.

The 5 Layers of the Epidermis

The following technical terms are factors affecting the skin. Please describe each term in detail.

Keratinisation

Melanocytes

Malpighian layer

Columnar cells

Keratinocytes

Desquamation

Acid mantle

The **second section** of skin below the Epidermis is called the **Dermis**, using the key terms below please explain and describe the Dermis layer of the skin. Please use a minimum of 15 of the key terms.

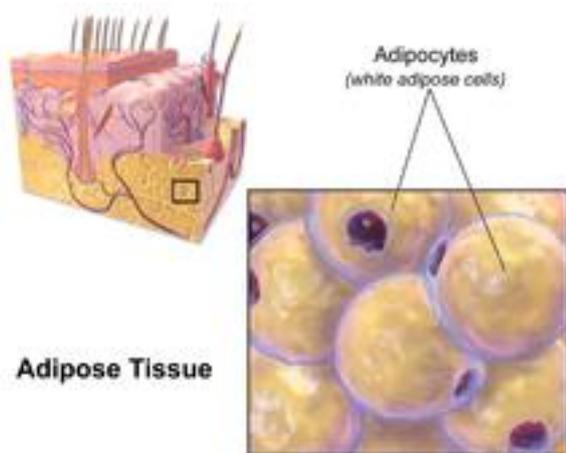
Papillary, reticular, Langers lines, sebaceous gland, arrector pili muscle, dermal papillae, hair follicle, hair follicle walls (outer root sheath), hair bulb, bulge, stem cells, sweat gland (eccrine and apocrine), sweat pore, sweat duct, Langerhans cells, fibroblasts, mast cells, leucocytes, phagocytes, sensory nerves, motor nerves, Pacinian corpuscles, Ruffini corpuscles, Meissner's corpuscles, arteriole, venule, lymphatic vessel, collagen, elastin.

The **third section** of the skin, below the Dermis, is the **subcutaneous** section. Describe the 3 components of this layer.

Areolar

Adipose

Fat cells



Functions of the skin

Explain each of the functions of the skin listed below.

Secretion

Heat regulation

Absorption

Protection

Excretion

Sensation

Vitamin D formation

Melanin formation

Well done on completing the information above, I would like you to re-read all the information above and then answer the following quiz questions to test your knowledge. If you prefer you could get a family member to ask you the questions.

1. List 2 layers within the Epidermis and describe where they are located.
2. Describe the term Melanocytes?
3. State what Desquamation is?
4. Discuss 2 functions of the skin?
5. What is the purpose of Melanin?

Finally I would like you to list 3 interesting facts that you have discovered through your research about the Integumentary system.

- 1.
- 2.
- 3.

Useful links

<https://opentextbc.ca/anatomyandphysiology/chapter/5-1layers-of-the-skin/>

<https://www.eucerin.co.uk/about-skin/basic-skin-knowledge/skin-structure-and-function>