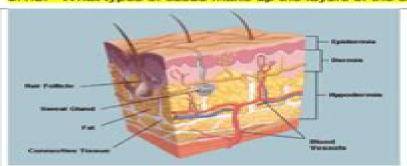
# 5.1 Skin Study Guide by Hisrich

#### 5.1.a. What are the functions of skin?

Protection	Sensation	Temperature Regulation
It is is the first defense against pathogens.	it alerts the body of danger through the sensation of pain.	It insulates us to maintain our internal temperature. It also allows us to lose or retain heat, mainly by shifting the diameter of the blood vessels in the skin.

#### 5.1.b. What types of tissue make up the layers of the skin?



The skin is made of epithelial ('having the nature of covering a surface') tissue. The top layer is the epidermis ('top skin')—which is neither sensitive nor vascular—and the next layer is the dermis ('skin'). It is also referred to as the mesoderm ('middle skin') and is very sensitive. Below that is the hypodermis ('below the skin'). The blood vessels penetrate the hypodermis and dermis. The hypodermis has fat tissue, blood vessels & connective tissue. The hair follicles begin in the hypodermis & the tips of the hair extend beyond the epidermis. Collagen and elastin are proteins found in the dermis. Together, they give the skin its smooth structure & make the skin look young. Keratin ('homy') is a fibrous protein that is part of the epidermis & the main component of hair.

#### 5.1.c. What role do accessory organs such as sweat glands and sebaceous glands play in the skin?

Sweat Glands	Sebaceous Glands
Sweat glands begin in the superficial hypodermis and extend through the dermis and empty out of the epidermis. They are exocrine ("secrete outside") glands & the primary function of most humans sweat glands is to cool the body (eccrine glands, found all over). Humans also have larger apocrine sweat glands in their armpits and perianal regions (i.e. crotch). They secrete an oily, milky substance that coats hair so odor-causing bacteria can grow on it. All sweat glands have specialized myoepithelial cells ("muscle covering surface") that help to squeeze the glands and push out the secretions & they are controlled by the nervous system & hormones from the endocrine system.	The sebaceous ("full of fat") glands begin in the hypodermis and empty through pores in the epidermis. They are exocrine ("secrete outside") glands that secrete and oilly/waxy material (sebum) to lubricate and waterproof skin and hair. Humans have the greatest density of these glands on tier faces and scalps. The only place they do NOT exist in humans is on the palms and soles. Eyelids have special sebaceous glands that secrete tears (a type of sebum).

#### 5.1.d. What happens to skin as it is exposed to sunlight and as a person ages?

Aging	Sunlight
Skin changes over time due to exposure to the sun's UV rays, which damage the fibers in skin called <b>elastin</b> , that helps give skin its flexibility. As <b>elastin</b> deteriorates, the skin starts to sag and stretch and become unable to go back into place after stretching. That makes skin bruise and tear more easily & take longer to heal.	Most wrinkles and spots are caused by sunlight. Sunlight speeds the aging process of skin & increases risk of skin cancer. Exposure to the sun causes skin lesions, tumors, wrinkles, freckles, discolored areas, yellowing & destruction of elastin and collagen tissues. UV light from the sun is the #1 cause of skin cancer (tanning beds are just as harmful). Metanin is a natural pigment that the skin produces when exposed to UVB radiation. It helps disperse about 99.9% of UV radiation as heat, protecting the skin from skin cancer. That's why people with darker skin (more metanin) are at lower risk of skin cancer).

# **Functions Of The Skin Study Guide**

**Zella Von Gremp, Lucile Broadwell** 

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