**Appendages of Skin**

|  |  |  |
| --- | --- | --- |
| Name | Notes | Identification |
| Eccrine Sweat Glands | * releases \_\_\_\_\_\_\_\_\_ (99% water, salts, vitamin C, antibodies, wastes)
* Abundant on palms, soles of feet, forehead
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 | http://www.daviddarling.info/images/eccrine_gland.jpg |
| Apocrine Sweat Glands | * Sweat + fatty substances & proteins → milky/yellowish
* With bacteria = \_\_\_\_\_\_\_\_\_\_\_\_
* Activated at puberty → \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 | http://www.daviddarling.info/images/apocrine_gland.jpg |
| Sebaceous Glands | * Secrete oil (\_\_\_\_\_\_\_\_\_) into the hair follicle
* Waterproofing skin
* Soften & \_\_\_\_\_\_\_\_\_\_ hair, skin
* Kills bacteria
* \_\_\_\_\_\_\_\_\_- active inflammation of sebaceous glands caused by bacterial infection (staph)
 | http://ourskeletonsystem5.weebly.com/uploads/2/9/3/4/29349039/1530709.jpghttp://www.acnenomoreremedies.com/wp-content/uploads/2015/09/Vitals_BlackheadsWhiteheadsDiagram.jpg |
| * \_\_\_\_\_\_\_\_\_- active inflammation of sebaceous glands caused by bacterial infection (staph)
* Treatment:
	+ Reduce \_\_\_\_\_\_\_\_\_\_\_
	+ Speed up skin cell turnover (prevent plugged follicles)
	+ Fight \_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Reduce \_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_ = blocked sebaceous gland
* \_\_\_\_\_\_\_\_\_\_\_\_\_ = sebum oxidizes and dries
 |
| Hair (Pili) | * 2 main regions: \_\_\_\_\_\_\_\_\_\_\_ & hair shaft
* Project from follicles in \_\_\_\_\_\_\_\_\_\_
* Consists of dead, keratinized cells
* \_\_\_\_\_\_\_\_\_\_\_ pili (smooth muscles) attached to hair root → pulls hair upright
 | http://philschatz.com/anatomy-book/resources/506_Hair.jpg |
| Nails | * Grows from nail matrix
* Visible part of nail is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Cuticle covers nail root
* Contains hard \_\_\_\_\_\_\_\_\_\_
 | http://healthfavo.com/wp-content/uploads/2013/08/human-nails.jpg |

**Skin Pigments**

|  |  |
| --- | --- |
| Melanin- brown/black or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | * Made by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Only found in deeper layers of epidermis
* Freckles & moles = local accumulations of melanin
* Protect DNA from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 |
| Carotene- yellow-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | * Accumulate in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, hypodermis
* Carotene converts to \_\_\_\_\_\_\_\_\_\_\_\_\_ in body
* Asians: yellowish skin = melanin + carotene
 |
| Hemoglobin- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ blue | * Red blood cells in capillaries
 |

**Homeostatic Imbalances:**

* Cyanosis: poorly oxygenated blood, blue color
* Excessive sun exposure: leathery skin, rashes, \_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_: blushing, fever, allergy, inflammation, hypertension (high BP)
* Pale skin (pallor): anemia, low blood pressure, fear, anger
* Jaundice (yellow cast): liver disorder (bile pigments = bilirubin)
* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: Addison’s disease, pituitary gland tumors
* Bruises: blood clots under skin