**Appendages of Skin**

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| 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.jpg  http://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**

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| 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