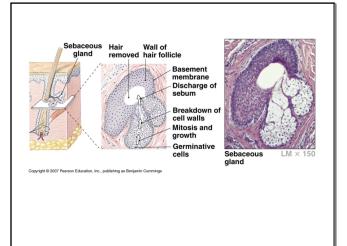


# **IS - Appendages and Imbalances**

### SEBACEOUS GLANDS

- a.k.a. oil glands
- $\cdot$  specialized epithelial cells associated with a hair follicle
- holocrine gland that secretes an oily mixture of fatty materials and cellular debris called sebum
- sebum helps keep hair soft, pliable, and waterproof
- $\cdot$  acne can result from clogged sebaceous glands



## SWEAT GLAND - ECCRINE

- · a.k.a. sudoriferous glands
- · found all over the body
- $\cdot$  "sweat" to decrease body temperature
- "sweat" releases water if you're thirsty, you've already lost enough water to compromise some body functions....DRINK WATER!!!!
- "sweat" releases salt, but not enough to lower salt levels in the body
- "sweat" also releases trace amounts of vitamin C which helps prevent bacterial growth on skin HOW?...by making skin acidic

# SWEAT GLANDS - APOCRINE

- located in armpit and groin
- secrete sweat + fatty acids
  - fatty acids = body odor (BO) fatty acids attract bacteria that breakdown the fatty acids (byproduct of this metabolism makes you smell)
- Did you know...the average square inch of skin holds 650 sweat glands, 20 blood vessels, 60,000 melanocytes, and more than 1,000 nerve endings

# WHAT is a BURN?

- burn = damage to skin or other body parts caused by extreme heat, flame, contact with heated objects, or chemicals
- · categorized as first, second, or third degree
- treatment depends on depth, area, and location of burn

additional factors - materials burned into or onto skin

#### Degrees OF severity

first degree superficial burn epidermis intact and functioning properly



second degree partial-thickness burn damage extends into dermis; most painful blisters w/o epidermis victims begin to lose fluids, heat, and the ability to block infection

third degree full-thickness burn both dermis and epidermis destroyed nerve ending destroyed; NO feeling of pain lose fluid, heat, and ability to block infection



## **IS - Appendages and Imbalances**

## RULE OF NINES

- · body surface area varies with height and weight
- assessment tool used to determine the
- approximate extent of body surface area burned · body divided into 11 regions
- each region accounts for 9% of skin surface area = 99%
- remaining 1% accounts for the groin

# RULE OF NINES - 11 BODY REGIONS

9%

- head • right arm
- left arm
- chest
- abdomen
- upper back
- lower back
- right thigh
- · left thigh
- right leg (below the knee)
- · left leg (below the knee)

## WHAT is a sunburn?

- $\cdot$  sunburn = a burn to the skin caused by ultraviolet (UV) radiation • sun gives off UVA & UVB rays both are damaging to skin
  - UVA = aging
- UVB = burns symptoms
- redness and irritation
  - - blistering overexposure can lead to shock (vital organs do not function properly) and even death (sun poisoning)