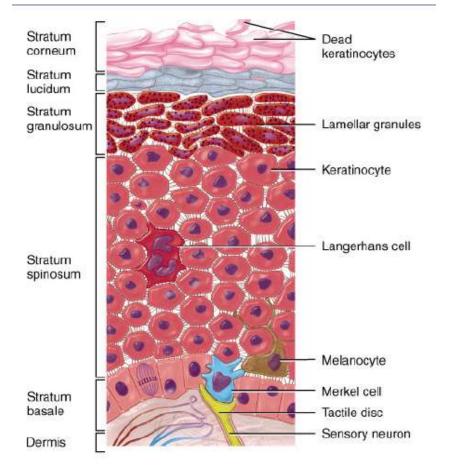
Integumentary System Part 2

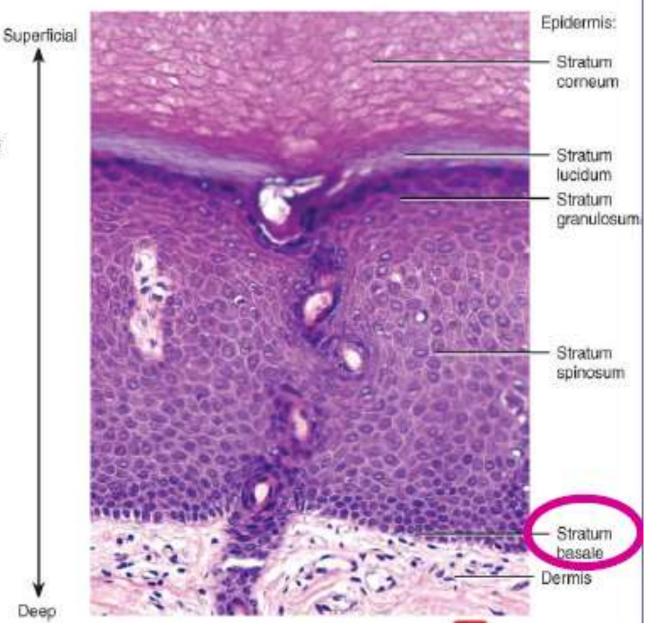
EQ: Why are there 5 layers to the epidermis?

I. Layers of the Epidermis



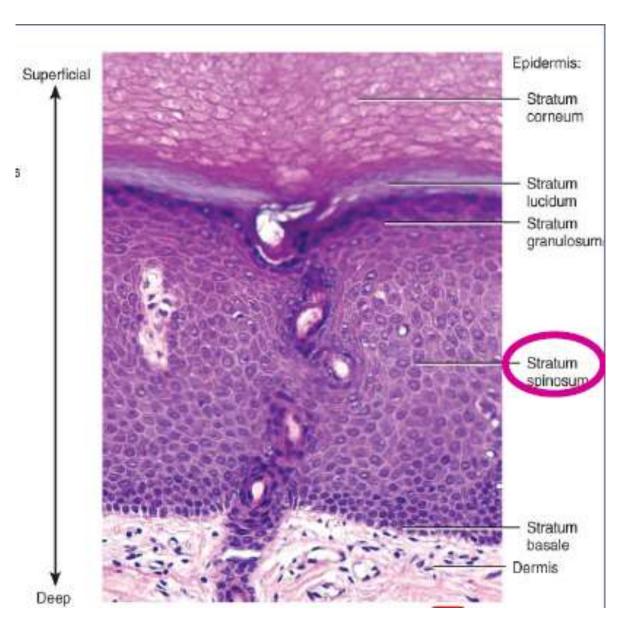
- a. From inside out:
 - Stratum basale (also called Stratum germinativum)
 - ii. Stratum spinosum
 - iii. Stratum granulosum
 - iv. Stratum lucidum (only in palms & soles)
 - v. Stratum corneum

i. Stratum Basale



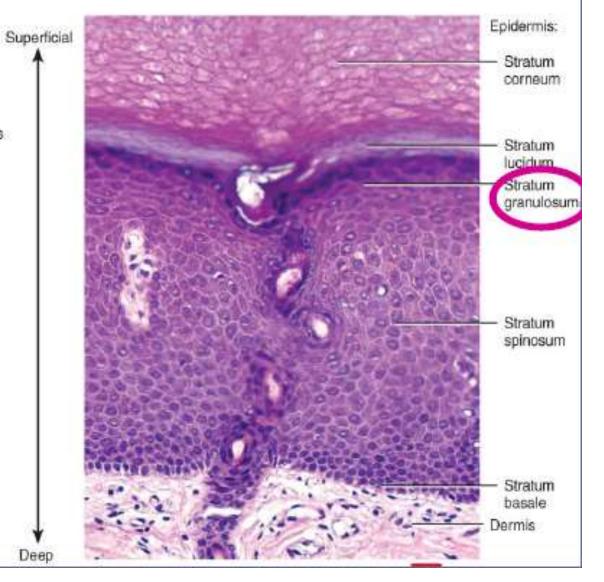
- Deepest layer connected to the dermis
- They are alive and constantly dividing
- Melanocytes found here producing melanin to protect the DNA below from UV light.

ii. Stratum spinosum



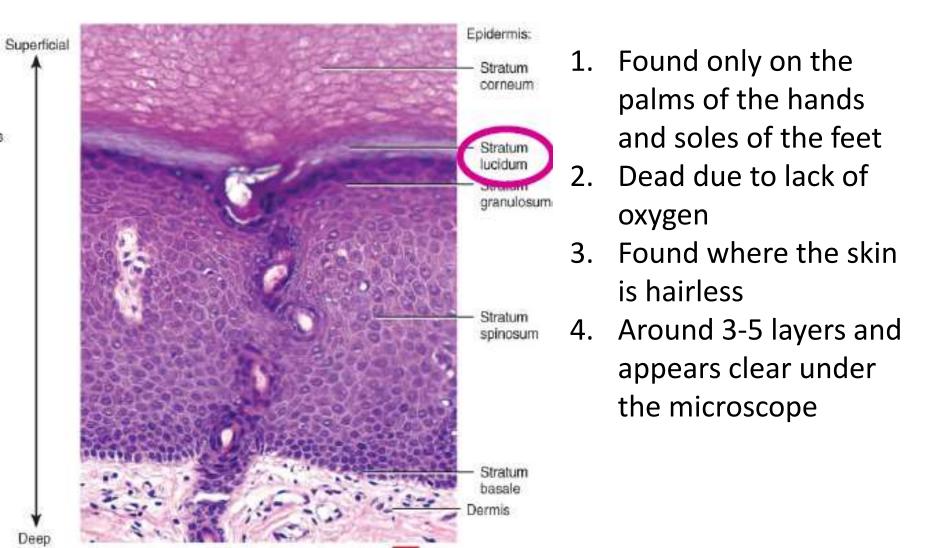
- About 8 to 10 cell layers thick
- 2. More keratin accumulates
- Provides
 strength to
 the skin

iii. Stratum Granulosum

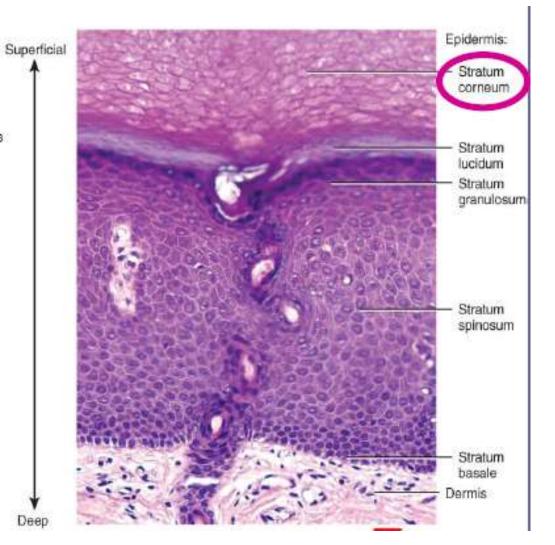


- 3-5 layers of flat dying cells
- 2. Much more keratin here

iv. Stratum Lucidum



v. Stratum Corneum



- 1. 20-30 cell layers thick
- 2. All flat/dead cells filled w/keratin
- We shed 40lbs of dead cells in a lifetime (18kg)