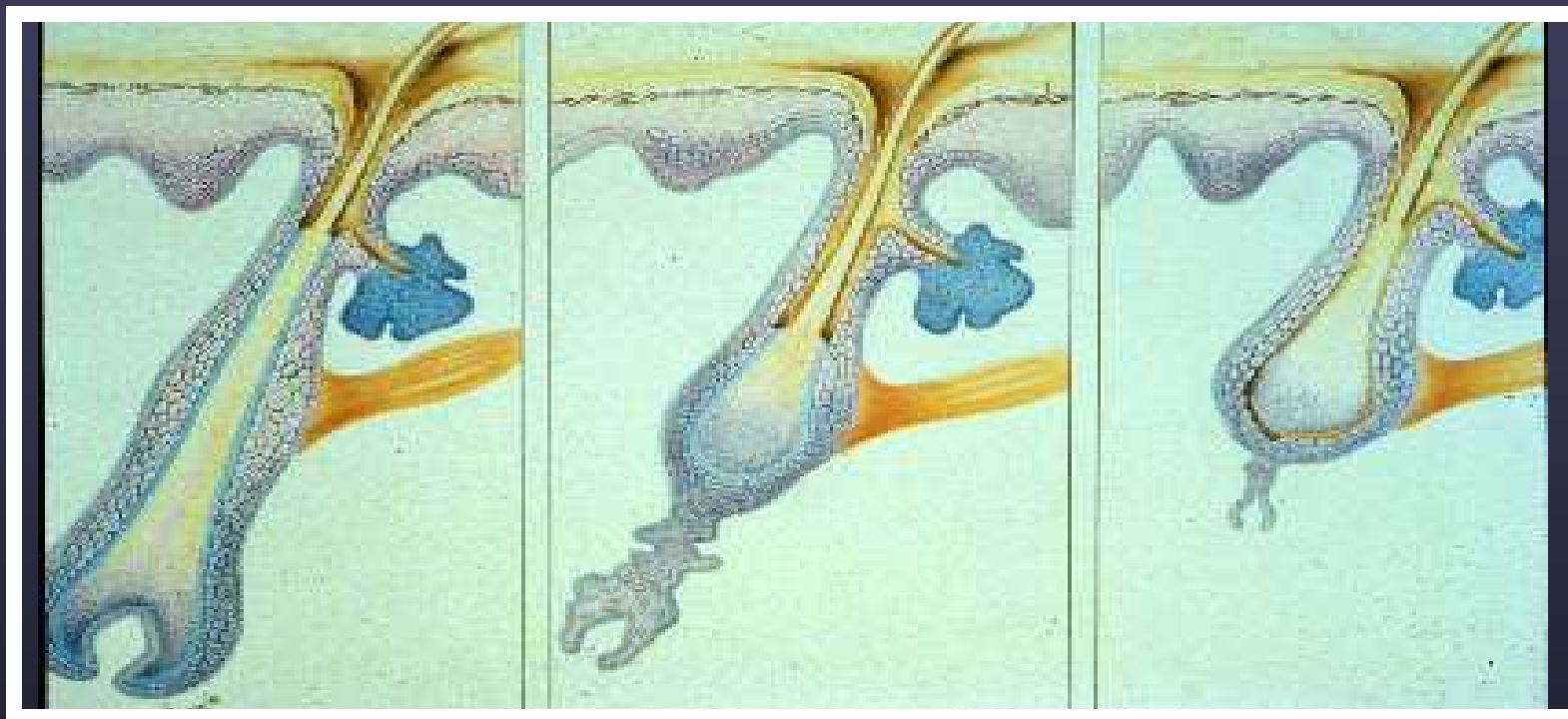


# Hair Cycle



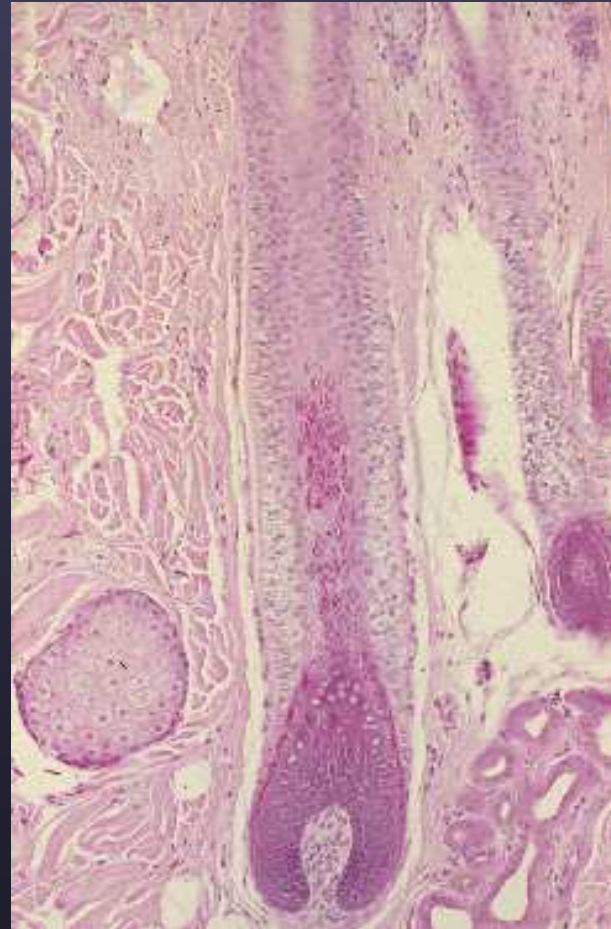
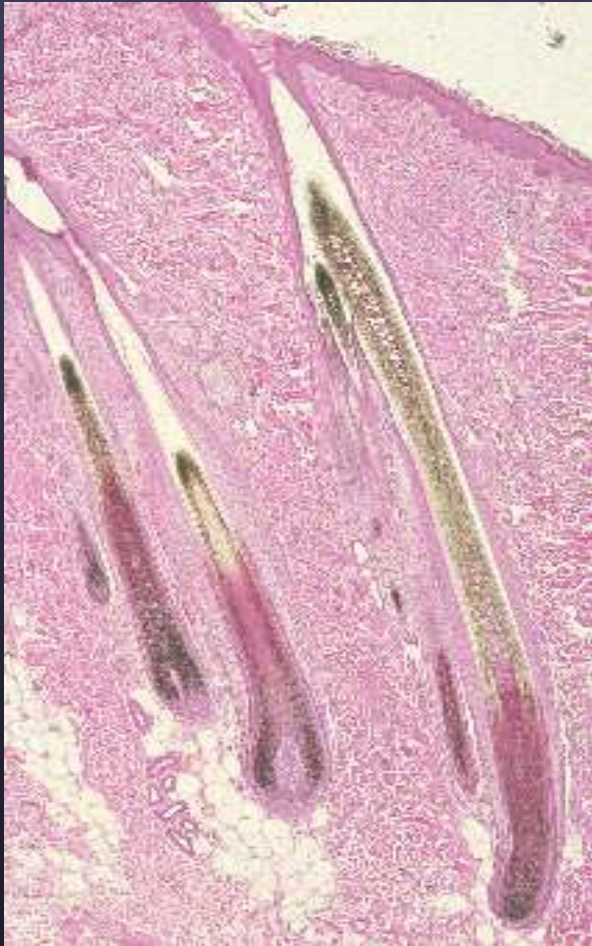
Anagen

Catagen

Telogen

- ▶ Fitzpatrick's Dermatology in General Medicine, 1999.

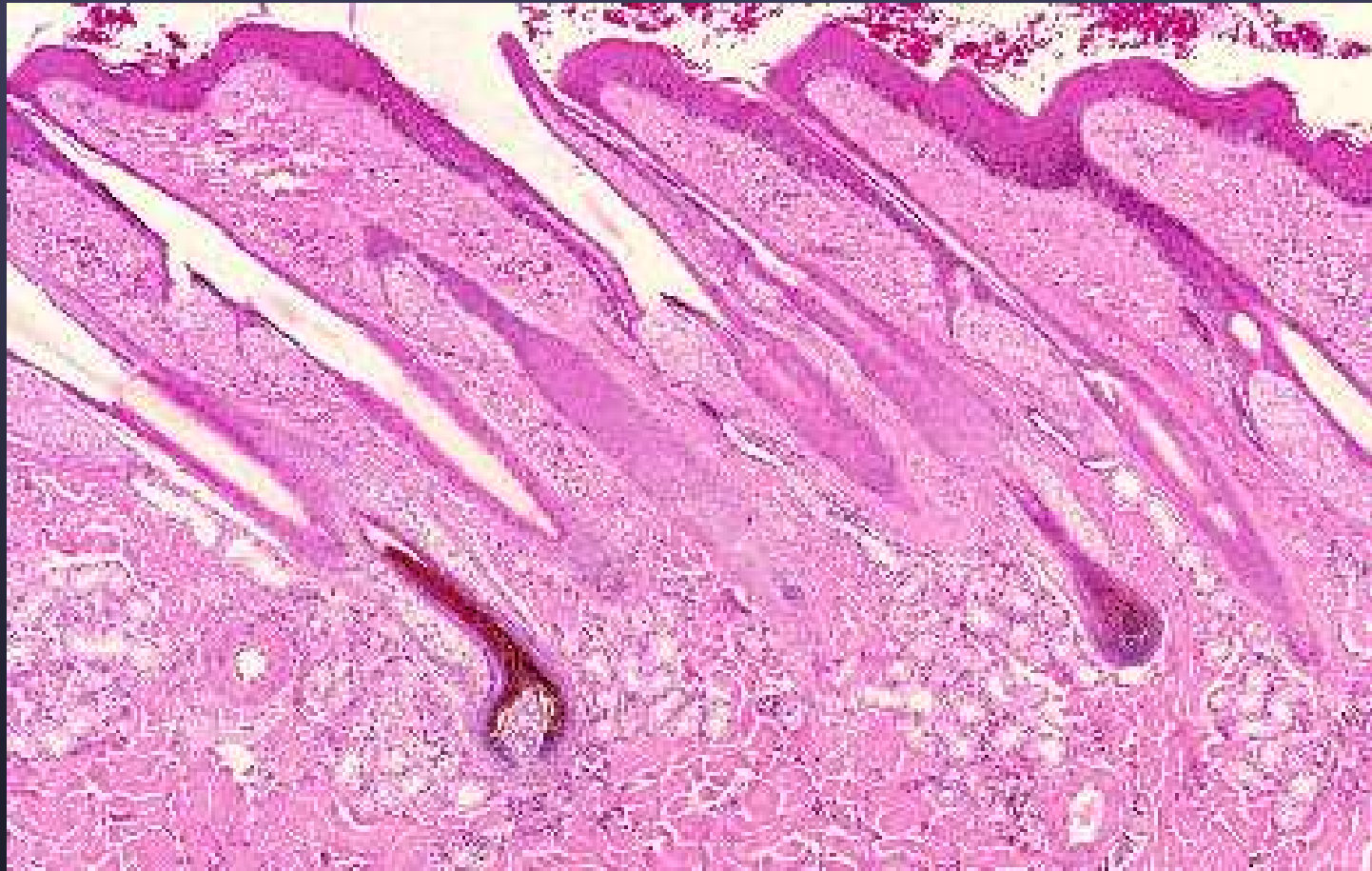
# Anagen Follicle



# Telogen follicle



# Stages of Hair Cycle



▶ Equine

# Species differences

- **Simple follicles**
  - Humans, cattle, horses, rats and mice
- **Compound follicles**
  - Dogs, cats, sheep, goats
  - Sheep- secondary follicles have secondary follicles
- **Hair cycle duration**



# Disorders affecting hair follicles

- Inflammation → **Folliculitis** → **Furunculosis**
- Hair follicle dysplasia
- Hair cycling Disorders
- Atrophy/Miniaturization

# Hormonal Influence on Hair cycle

- Hormones which stimulate anagen
  - Thyroid hormone
  - Androgens
- Hormones which inhibit anagen
  - Glucocorticoids
  - Estrogen



# Specialized Hair

- Sinus hairs (whiskers and vibrissae)
  - slow-adapting mechanoreceptors
- Tylotrich hairs
  - rapid adapting mechanoreceptors
  - scattered among normal hair
  - Merkel cells in tylotrich pads





# Tactile Hair

