

# QUIZ TIME

oral physiology

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Lec: 7



**1. The oral mucosa exhibits regional variation in keratinization. Which factor most strongly influences the degree of keratinization?**

- a) Type of connective tissue fibers in lamina propria
- b) Functional stress and masticatory load on the region
- c) Presence of taste buds
- d) Local vascularization of submucosa
- e) Degree of salivary secretion

**Correct answer: b**

**2. The basal layer of the oral epithelium is primarily responsible for which of the following?**

- a) Providing a permeability barrier through keratin formation
- b) Initiating epithelial renewal through mitotic activity
- c) Anchoring keratinocytes via desmosomes only
- d) Containing Odland bodies that release coating materials
- e) Serving as the main layer for sensory transduction

**Correct answer: b**

**3. A mucosal biopsy from the ventral tongue shows an epithelium with intact nuclei in its superficial cells and no keratohyaline granules. This indicates:**

- a) Orthokeratinized epithelium
- b) Parakeratinized epithelium
- c) Non-keratinized epithelium
- d) Dysplastic epithelium
- e) Transitional epithelium

**Correct answer: c**

**4. Which of the following best explains why keratinized mucosa resists mechanical injury better than non-keratinized mucosa?**

- a) Higher rate of cell division
- b) Presence of a dehydrated, tonofilament-dense surface layer
- c) Larger intercellular spaces that allow flexibility
- d) Abundance of melanocytes in the basal layer
- e) Rich vascular supply within submucosa

**Correct answer: b**

**5. The lamina propria contributes to mucosal function primarily by:**

- a) Producing keratin proteins for surface protection
- b) Acting as a source of epithelial stem cells
- c) Providing vascular and immune support to the epithelium
- d) Regulating saliva production
- e) Forming the basement membrane

**Correct answer: c**

**6. If a researcher identifies Birbeck granules ( Langerhan's cell ) within a clear cell in the oral epithelium, which conclusion is most accurate?**

- a) The cell originated from neural crest and transfers pigment
- b) It functions as a mechanoreceptor in basal layer
- c) It participates in antigen capture and presentation
- d) It regulates epithelial desquamation
- e) It stores keratohyaline precursors

**Correct answer: c > الدكتورة حكت مو مطالبين فيه**

**7. In the basal lamina, hemidesmosomes serve which of the following roles?**

- a) Connecting adjacent epithelial cells
- b) Anchoring keratin filaments to connective tissue
- c) Allowing selective permeability of ions
- d) Serving as sensory transducers
- e) Facilitating cell migration during mitosis

**Correct answer: b**

**8. A lesion on the gingiva exhibits orthokeratinized epithelium. Compared to parakeratinized mucosa, which microscopic feature distinguishes it most?**

- a) Surface cells retain pyknotic nuclei
- b) Absence of keratohyaline granules
- c) Presence of anucleate stratum corneum
- d) Increased intercellular spaces in prickle layer
- e) Lack of tonofilaments in superficial cells

**Correct answer: c**

**9. The non-keratinocytes of oral epithelium collectively share which characteristic?**

- a) Rich in tonofilaments and desmosomes
- b) Stain deeply with hematoxylin and eosin
- c) Scattered distribution with clear cytoplasm and no junctions
- d) Responsible for forming keratin granules
- e) Limited to masticatory mucosa only

**Correct answer: c**

**10. The Odland bodies (membrane-coating granules) are:**

- a) Derived from ribosomes
- b) Responsible for keratin filament formation
- c) Originated from the Golgi apparatus
- d) Found only in basal layer
- e) Absent in oral mucosa

**Correct answer: c**

**11. The main protective function of the oral mucosa is achieved primarily by:**

- a) Salivary glands
- b) Stratified squamous epithelium
- c) Lamina propria
- d) Blood vessels in submucosa
- e) Taste buds

**Correct answer: b**

**12. The specialized mucosa is found on:**

- a) Gingiva
- b) Dorsal surface of the tongue
- c) Floor of the mouth
- d) Alveolar mucosa
- e) ventral surface of the tongue

**Correct answer: b**