

QUIZ TIME

oral physiology

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Lec: 15



1. Which of the following best explains why tactile discrimination is highest on the lips and fingertips?

- A. Presence of slow-adapting thermoreceptors
- B. Smaller cortical representation areas
- C. Fewer tactile receptors with high convergence
- D. Larger number of receptors and minimal neural convergence
- E. Higher density of nociceptors

Correct Answer: D

2. Fine touch is distinguished from crude touch primarily because fine touch:

- A. Is perceived only at the thalamic level
- B. Requires a stronger stimulus for activation
- C. Is sharply localized and identifies stimulus nature
- D. Uses only free nerve endings
- E. Cannot be clinically tested

Correct Answer: C

3. During Weber's compass test, a patient fails to distinguish two points on the tongue until they are 10 mm apart. This primarily indicates:

- A. Poor temperature perception
- B. Reduced epicritic sensitivity
- C. Hyperactivity of pain receptors
- D. Dysfunction of thermoreceptors
- E. Absence of crude touch

Correct Answer: B

4. Vibration sense is tested using a tuning fork placed over a bony prominence mainly because bones:

- A. Are themselves highly vibration-sensitive
- B. Contain mechanoreceptors within the periosteum
- C. Conduct vibration widely to surrounding receptors
- D. Reduce receptor fatigue
- E. Provide uniform temperature

Correct Answer: C

5. Which mechanoreceptive modality depends most on muscle spindle and tendon organ activation?

- A. Crude pressure
- B. Fine touch
- C. Dynamic proprioception
- D. Vibration sense
- E. Crude touch

Correct Answer: C

6. All of the following are classified as epicritic sensations EXCEPT:

- A. Vibration
- B. Fine touch
- C. Deep pressure
- D. Crude touch
- E. Sense of position

Correct Answer: D

7. A patient closes their eyes. You touch the oral mucosa lightly and ask them to point exactly to the touched location. This test examines:

- A. Crude touch
- B. Tactile localization
- C. Dynamic proprioception
- D. Pain threshold
- E. Deep pressure sensation

Correct Answer: B

8. Cold receptors being 4–10 times more numerous than warm receptors mainly enhances the body's ability to:

- A. Prevent vibration loss
- B. Regulate external temperature changes
- C. Increase pain sensitivity
- D. Improve deep pressure discrimination
- E. Amplify proprioceptive input

Correct Answer: B

9. A patient can differentiate between weights without lifting them. This ability represents:

- A. Static proprioception
- B. Fine pressure sense
- C. Crude touch
- D. Deep pain sensation
- E. Temperature discrimination

Correct Answer: B

10. A patient accidentally bites down too forcefully without realizing it. A deficit in which sensory system best explains this failure?

- A. Crude touch sensation of the mucosa
- B. Thermal sensation of the palate
- C. Proprioceptive input from the periodontal ligament
- D. Vibratory sense from bony conduction
- E. Two-point discrimination in the tongue

Correct Answer: C

