

PRACTICAL CLINICAL COURSES

A Service of the Gordon J. Christensen
Career Development Program

X4325

What's the Best Laser for My Practice?

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Materials Included

C.E. Instruction Sheet
AGD Post-Test

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PRACTICAL CLINICAL COURSES

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1. Which of the following are characteristics of true optical lasers?
 - a. For most procedures, they touch tissue.
 - b. For most procedures, they are initiated.
 - c. Both a. and b.
 - d. Neither a. nor b.

2. The purpose of initiating a laser is to:
 - a. focus the laser energy.
 - b. prevent the photons from exiting the handpiece.
 - c. enable the laser to work optically.
 - d. all of the above.

3. Spallation refers to:
 - a. how lasers cut soft tissue.
 - b. how lasers cut hard tissue.
 - c. how lasers cut both hard and soft tissue.
 - d. how initiation helps lasers cut soft tissue.

4. Which of the following ranks hard tissues from easiest to cut with an Erbium laser to most difficult to cut with an Erbium laser?
 - a. Healthy Enamel – Healthy Dentin – Healthy Cementum
 - b. Healthy Cementum – Healthy Dentin – Healthy Enamel
 - c. Healthy Dentin – Healthy Enamel – Healthy Cementum
 - d. Healthy Cementum – Healthy Enamel – Healthy Dentin

5. The relationship between wavelength and energy is:
 - a. direct.
 - b. inverse.
 - c. nonexistent. There is no relationship between wavelength and energy.
 - d. direct only in the UV part of the spectrum.

6. Which of the following is NOT classified as an optical device?
 - a. CO₂
 - b. Diode
 - c. Erbium.YAG
 - d. Erbium.Chromium.YSGG

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7. Which of the following is NOT a primary chromophore in the oral cavity?
 - a. Hemoglobin
 - b. Melanin
 - c. Water
 - d. Fluoroapatite

8. Carbon dioxide lasers are more than _____ better absorbed in oral mucosa than Diode lasers.
 - a. two times
 - b. ten times
 - c. one hundred times
 - d. one thousand times

9. Which of the following lasers CANNOT be used on hard tissue?
 - a. CO2 10,600 nm
 - b. Erbium.YAG
 - c. Erbium.Cr.YSGG
 - d. CO2 9300 nm

10. Which of the following types of laser-tissue interaction is the most therapeutic interaction?
 - a. Reflection
 - b. Absorption
 - c. Transmission
 - d. Scatter

11. Which of the following lasers may be used during operative dentistry procedures?
 - a. PBM
 - b. Erbium.YAG
 - c. 9300 nm CO2
 - d. All of the above

12. The relationship between wavelength and absorption in metal is roughly:
 - a. inverse.
 - b. direct.
 - c. nonexistent. There is no relationship between wavelength and absorption in metal.
 - d. inverse only in the IR part of the spectrum.

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13. Which of the following wavelengths has been approved by the American Dental Association's Clinical Practice Guidelines to be used as an adjunct to scaling/root planing in the treatment of chronic periodontitis?
 - a. Er:YAG
 - b. Diode
 - c. Nd:YAG
 - d. None of the above

14. Which of the following is LEAST important when deciding the true cost of a laser?
 - a. Cost of the extended warranty
 - b. Cost of disposables
 - c. Purchase price
 - d. Operating expense

15. Why do Diode lasers drag through tissue after a few seconds of use?
 - a. Loss of initiation
 - b. Fiber tip becomes dull
 - c. Gook (melted tissue) on the tip
 - d. All of the above

16. The relationship between chromophore content and power settings is:
 - a. direct.
 - b. inverse.
 - c. nonexistent. There is no relationship between chromophore content and power settings.
 - d. different when a laser is pulsed vs. continuous wave.

17. Laser presets are:
 - a. more important than chromophore content in determining optimal settings.
 - b. the ideal settings for most procedures/patients.
 - c. merely starting points to adjust optimum parameters for most patients/procedures.
 - d. all of the above.

18. Diodes may be used as true optical lasers for treatment of:
 - a. vascular lesions (hemangiomas, venous lakes, etc.).
 - b. pigmented lesions (melanotic macules, etc.).
 - c. aphthous ulcers.
 - d. all of the above.

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- 19. Diodes are used as true optical devices when they are:
 - a. initiated.
 - b. in contact with tissue.
 - c. both a. and b.
 - d. neither a. nor b.

- 20. According to a paper written by the Research, Science and Therapy Committee of the American Academy of Periodontology, which of the following wavelengths has been shown to “enhance(d) reduction in periodontal probing depths”?
 - a. Diode
 - b. Erbium
 - c. CO2 10,600 nm
 - d. Nd.YAG

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