CE Self-Instruction Test—March 2010

1 **Earn 1 Credit Hour** for successful completion of this month's test *(March 2010)*. This is a self-instructional program. CR Foundation is an ADA CERP recognized provider and an AGD approved PACE program provider.

2 **Complete the Test.**

CE Self-Instruction Test—March 2010 *Check the box next to the most correct answer*

1. Which of the following is ***not*** a direct clinical implication of polymerization stress development in resin-based composites?
   - ❒ A. Open margins and/or white line
   - ❒ B. Staining
   - ❒ C. Cuspal deflection
   - ❒ D. Wear of the placed restoration

2. Which of the following statements is ***true*** for the resin-based composites?
   - ❒ A. All of the tested flowable resin-based composites exhibited higher polymerization stress than restorative resin-based composites.
   - ❒ B. Most of the tested flowable resin-based composites exhibited lower polymerization shrinkage than restorative resin-based composites.
   - ❒ C. Flowable resin-based composites have higher viscosities.
   - ❒ D. None of the above

3. Which of the following factors is responsible for the development of polymerization stress in resin-based composites?
   - ❒ A. Composite material properties
   - ❒ B. Polymerization kinetics and polymerization shrinkage
   - ❒ C. Class of restoration
   - ❒ D. All of the above

4. Which of the following is ***false*** regarding microleakage tests on resin-based composites?
   - ❒ A. Microleakage was observed to be highly brand dependent
   - ❒ B. Microleakage varied with use of different bonding agents
   - ❒ C. A strong correlation was observed between microleakage and shrinkage/stress in this study
   - ❒ D. None of the above

5. The depth of cure ***range*** reported for the resin-based flowable and restorative composites tested in this CR study using an Optilux 501 halogen light was:
   - ❒ A. 1.2–6.0 mm
   - ❒ B. 1.4–4.8 mm
   - ❒ C. 1.8–3.5 mm
   - ❒ D. 1.4–4.4 mm

6. High volumetric shrinkage and high shrinkage stress have been related in either theory or actual research to:
   - ❒ A. The "white line" at the restoration margin
   - ❒ B. Cracks in teeth surrounding the resin restoration
   - ❒ C. Pain on biting or when releasing biting force
   - ❒ D. All of the above

7. OraVerse is reported to work by which of the following mechanisms?
   - ❒ A. Cause vasoconstriction and decrease local blood flow
   - ❒ B. Cause vasodilation and increase local blood flow
   - ❒ C. Increasing first-pass effects on the local anesthetic
   - ❒ D. Elevating CYP450 levels to eliminate the local anesthetic

8. OraVerse is ***not*** recommended for which of the following?
   - ❒ A. A 10-year-old patient with a history of lip and cheek trauma after local anesthetic administration.
   - ❒ B. A patient who is concerned about their ability to speak and function in 1–2 hours after the dental appointment.
   - ❒ C. A 6-year-old patient with severe caries.
   - ❒ D. An 18-year-old patient following impacted third-molar extraction desiring to avoid any sensation of pain.

9. Which of the following is ***false*** regarding OraVerse?
   - ❒ A. Pregnancy category X
   - ❒ B. 0.4 mg of phentolamine mesylate is contained in each 1.7 mL cartridge.
   - ❒ C. 1:1 dosing ratio *(up to 2 cartridges)*
   - ❒ D. Maximum dosing in children weighing 33–66 lbs *(15–50 kg)* is 1/2 cartridge *(0.85 mL)*

10. Which of the following is a limitation to OraVerse?
    - ❒ A. Effects are immediate *(usually within minutes)*
    - ❒ B. Patient metabolism and health are not a factor in the effects of OraVerse
    - ❒ C. High cost per cartridge
    - ❒ D. Additional injections ***never*** cause soft tissue damage or injection site pain

3 **Print Participant Information.** For additional participants, photocopy or re-print this page and list requested information.

Name _____ Email _____

Address _____ Phone _____

City _____ State _____ ZIP _____

❒ Please send my tests results directly to the Academy of General Dentistry *(AGD#* _____*)*

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