

CONTINUING EDUCATION PROGRAM

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Four articles in each issue of JADA are designated as CE vehicles, identified with our CE logo. Read one or more of the articles and answer the related questions that follow in this section. If you correctly answer three of the four questions per article, you earn 0.5 hour of CE credit—or a total of two credit hours for all four articles.

Your entry is graded by the faculty at the University of Colorado School of Dentistry, a provider of CE credit recognized by the ADA's Continuing Education Recognition Program and the Academy of General Dentistry.

Record your answers on the form provided at the end of this section, clip the completed answer form and attach your address label from this issue of JADA in the space provided. Enclose the form in an envelope, along with the appropriate fee, and mail it to the UC School of Dentistry. The school's address is provided on the form. You will be notified by mail of your score and the credits awarded—information that you must forward to your state dental board.

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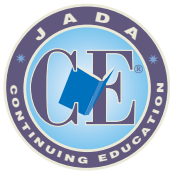
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CE ARTICLE 1—PAGES 1092-1099

TUBERCULOSIS EPIDEMIOLOGY, DIAGNOSIS AND INFECTION CONTROL RECOMMENDATIONS FOR DENTAL SETTINGS: AN UPDATE ON THE CENTERS FOR DISEASE CONTROL AND PREVENTION GUIDELINES

- 1. Approximately what proportion of the world population is estimated to be infected with *Mycobacterium tuberculosis* (TB) at this time?**
 - A. about one-tenth
 - B. about one-fourth
 - C. about one-third
 - D. about one-half
- 2. Which one of the following statements about the blood assay for TB is not correct?**
 - A. It requires only one patient visit.
 - B. Results are not available for 72 hours.
 - C. It does not boost responses on subsequent tests.
 - D. It is not affected by prior bacille Calmette-Guérin (BCG) vaccination.
- 3. What is believed to be the level of TB transmission risk in most dental settings within the United States?**
 - A. none
 - B. low
 - C. medium
 - D. potential for ongoing transmission



4. Which one of the following statements about infection control measures is not correct?
- A. Surgical masks are highly effective in preventing inhalation of small microorganisms.
 - B. Facepiece respirators effectively filter particles with diameters of 0.3 micrometers.
 - C. TB is not believed to be acquired from contact with environmental surfaces.
 - D. A disinfectant labeled as tuberculocidal will inactivate a broad spectrum of pathogens.

CE ARTICLE 2—PAGES 1109–1117

A DOUBLE-BLIND RANDOMIZED CONTROLLED CLINICAL TRIAL OF 10 PERCENT VERSUS 16 PERCENT CARBAMIDE PEROXIDE TOOTH-BLEACHING AGENTS: ONE-YEAR FOLLOW-UP

1. One year after bleaching, which spectrophotometer color parameter changed significantly for both treatment groups?
 - A. ΔL^*
 - B. Δa^*
 - C. Δb^*
 - D. ΔE^*
2. How many spectrophotometer ΔE units lighter did the teeth in both treatment groups remain at one year after bleaching, compared with baseline?
 - A. more than 1.4 units
 - B. more than 2.8 units
 - C. more than 3.2 units
 - D. more than 4.0 units
3. How many visual shade guide units lighter did the teeth in both treatment groups remain at one year after bleaching, compared with baseline?
 - A. at least 2.9 units
 - B. at least 3.6 units
 - C. at least 4.5 units
 - D. at least 5.7 units
4. One year after bleaching, what proportion of participants in both treatment groups reported consuming staining beverages two or three times per day?
 - A. none
 - B. about one-fourth
 - C. about one-third
 - D. about one-half

CE ARTICLE 3—PAGES 1125–1136

RETENTION OF METAL-CERAMIC CROWNS WITH CONTEMPORARY DENTAL CEMENTS

1. In cement study A, which one of the following cements was associated with the highest amount of force needed for crown removal?
 - A. Fuji Plus resin-modified glass ionomer cement (GC America, Alsip, Ill.)
 - B. RelyX Unicem self-adhesive modified-resin cement (3M ESPE, St. Paul, Minn.)
 - C. Panavia resin-modified glass ionomer cement (Kuraray America, New York City)
 - D. RelyX Luting resin-modified glass ionomer cement (3M ESPE)



2. Which one of the following statements correctly summarizes the crown-removal force findings for powder-liquid versus paste-paste versions of RelyX Luting cement?

- A. The powder-liquid version required about three times as much force.
- B. The powder-liquid version required about twice as much force.
- C. The powder-liquid version required about the same amount of force.
- D. The powder-liquid version required about one-half as much force.

3. In cement study C, which one of the following cements was most retentive?

- A. zinc phosphate cement
- B. iCEM self-adhesive modified-resin cement (Heraeus Kulzer, Armonk, N.Y.)
- C. RelyX Unicem Clicker self-adhesive modified-resin cement (3M ESPE)
- D. Maxcem self-adhesive modified-resin cement (Kerr, Orange, Calif.)

4. Of all the cements tested in studies A, B and C, which one required the least amount of force for crown removal?

- A. RelyX Luting resin-modified glass ionomer cement
- B. Panavia resin-modified glass ionomer cement
- C. zinc phosphate cement
- D. Fuji Plus resin-modified glass ionomer cement

CE ARTICLE 4—PAGES 1137-1143

THE EFFECT OF SALIVARY FACTORS ON DENTAL EROSION IN VARIOUS AGE GROUPS AND TOOTH SURFACES

1. Across all age groups, what surface most commonly was found to be eroded among participants in this study?

- A. facial
- B. lingual
- C. occlusal
- D. proximal

2. For participants aged 16 through 20 years, which one of the following differed significantly between those with no erosion and those with erosion into enamel?

- A. unstimulated buffering capacity
- B. stimulated salivary flow rate
- C. stimulated total protein concentration
- D. titratable acidity (volume of stimulated saliva needed to neutralize orange juice)

3. For participants aged 26 through 30 years, which one of the following differed significantly between those with erosion into enamel only and those with erosion into dentin?

- A. unstimulated buffering capacity
- B. unstimulated urea concentration
- C. stimulated total protein concentration
- D. titratable acidity (volume of stimulated saliva needed to neutralize orange juice)

4. For participants aged 46 through 50 years, which one of the following differed significantly between those with no erosion and those with erosion into enamel?

- A. unstimulated buffering capacity
- B. stimulated salivary flow rate
- C. stimulated total protein concentration
- D. titratable acidity (volume of stimulated saliva needed to neutralize orange juice)



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