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# mCME QUESTIONNAIRE

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Please send back to Fax: +971 4 368 6883 or Email [events@cappmea.com](mailto:events@cappmea.com) at CAPP

## **Bioactive materials support proactive dental care**

*by John C. Comisi, DDS, MAGD*

1. The term “water-tree”:
  - a)  has been coined to describe this process, which originated from the tree-like deterioration patterns that were found within polyethylene insulation of underground electrical cables
  - b)  is being applied to the water blisters formed by the transfer of dentinal fluid across the dentinbonding interface
  - c)  all the above
  
2. The water blisters...act as stress raisers and form initial flaws that cause subsequent catastrophic failure along the adhesive composite interfaces.
  - a)  True
  - b)  False
  
3. Methods of reducing matrix metalloproteinases (MMPs):
  - a)  2 per cent chlorhexidine solutions that are used prior to application of bonding agents; etchants containing benzalkonium chloride, otherwise known as BAC (i.e., Bisco’s Uni-etch products)
  - b)  Polyvinylphosphonic-acid-producing products (glass ionomer and resinmodified glass ionomers)
  
4. The transfer of calcium phosphate, fluoride, strontium and other minerals into the tooth structure helps:
  - a)  the dentition deal with the constant assault of the acidic nature of day-to-day ingestion of food and beverages and encourages remineralization
  - b)  the incorporation of phosphorous into the acid in today’s GICs creates polyvinylphosphonic acid
  - c)  all of the above
  
5. The transfer of dentinal fluid from the tooth to the GIC essentially creates a “self-toughening mechanism of glass ionomer based materials.”
  - a)  True
  - b)  False
  
6. Polishing and shaping of the materials must be done with water spray and fine/ultra fine composite finishing burs and polishers so as not to destroy the surface of the material.
  - a)  True
  - b)  False

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7. The Co-Cure Technique:
- a)  Reduce the volume of the composite by replacing dentin with auto-cure GIC
  - b)  is defined as the simultaneous photo-polymerization of two different light activated materials
  - c)  the composite restoration does not require a bonding agent because the bonding agent is essentially the RMGIC
  - d)  all of the above
8. The Open Sandwich Technique:
- a)  the GIC component is exposed to the oral environment at the gingival portion of the restoration
  - b)  is quickly and efficiently accomplished and has significantly reduced postoperative sensitivity compared with typical direct RBC techniques
  - c)  All of the above
9. Nanotechnology involves the production of functional materials and structures in the range of 0.1 to 100 nanometers by various physical or chemical methods.
- a)  True
  - b)  False
10. The giomers are resin-based composites that contain pre-reacted glass ionomer particles (S-PRG).
- a)  True
  - b)  False

## Evaluation Form

This represented new knowledge:  None  Some  Moderate  New

Did the article meet your learning objectives?  Yes  No

Was the article relevant to the topic?  Yes  No

Did the article meet your expectations?  Yes  No

In order to serve you better, we would like to know your preferred topics for the next issues:

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