

**Article: The zirconia solution for severely discoloured preps:  
El Hachemi and El Hachemi Amar, page 6**

1. *According to the authors, what are the attributes that make zirconia ideal for the restoration of fractured and aesthetically compromised central incisors:*
  - a Aesthetics
  - b Strength
  - c Biocompatibility
  - d None of the above
  - e All of the above
  
2. *In the case described, tooth 11 showed a fractured crown made of which material:*
  - a Glass ceramic
  - b Porcelain-fused-to-metal(PFM)
  - c Lithium disilicate
  
3. *How long in advance did bleaching occur to ensure colour stability:*
  - a 4 weeks
  - b 5 weeks
  - c 6 weeks
  - d 7 weeks
  
4. *Which statement is correct: the mamelons were made with which shade of Fluo Dentine*
  - a FD-91 mixed with DA3
  - b FD-93 mixed with DA2
  - c FD-92 mixed with DA1
  
5. *Which statement is correct:*
  - a Zirconia has a higher translucency than lithium disilicate
  - b Lithium disilicate and zirconia have the same translucency
  - c Lithium disilicate has a higher translucency than zirconia

**Article: The AI revolution in dentistry: Transforming diagnosis,  
treatment, and the future of oral care. Dvoyris, page 12**

6. *Which statement is correct:*
  - a Machine learning empowers systems to learn from data without explicit programming
  - b Machine learning employs intricate neural networks to analyze vast datasets
  - c Deep learning employs intricate neural networks to analyze vast datasets
  - d a and c e b
  
7. *True or false: Conventional methods can identify early enamel caries and bone loss more efficiently than AI*
  - a True b False
  
8. *How are AI-powered tools enhancing patient communication:*
  - a By analyzing CBCT scans with high accuracy
  - b By detecting subtle indicators of early caries, periapical lesions
  - c By generating detailed 3D models and simulations from patient scans
  - d None of the above.
  
9. *Which statement is true:*
  - a AI systems can currently analyze a patient's genetic makeup, lifestyle, and oral microbiome
  - b AI has been used to discover new dental materials with enhanced biological and mechanical properties
  - c AI will in the future be able to perform a complete oral evaluation, flagging areas of concern, while also providing immediate treatment recommendations
  
10. *Which challenges need to be addressed to ensure the responsible adoption of AI:*
  - a AI tools are intended as supportive measures rather than replacements for clinical judgment
  - b AI's dependence on sensitive data necessitates robust security measures
  - c AI models require diverse datasets for effective training
  - d All of the above

**Article: Bioceramic cement in the treatment of Molar Incisor Hypomineralization (MIH) in paediatric dentistry: A case report Kisby, page 26**

11. *In what year did the European Academy of Paediatric Dentistry defined MIH as a systemic condition and qualitative enamel defect of systemic origin that affects at least one first permanent molar:*
- 1993
  - 2003
  - 2013
  - 2023
12. *Which statement is correct:*
- Worldwide, 14.2% of children have MIH
  - Worldwide, 40.2% of children have MIH
  - Worldwide, 25% of children have MIH
  - Worldwide, 36.3% of children have MIH
13. *Which statement is correct: The mineralization of the first permanent molars usually:*
- Starts just before two years and is fully completed at six to seven years of age
  - Starts just before or at birth and is fully completed at four to five years of age
  - Starts just before or at birth and is fully completed at six to seven years of age
14. *Which statement(s) are correct:*
- MIH enamel is more porous than normal, sound enamel
  - Exposed dentin can accelerate the development of carious lesions
  - Dentin hypersensitivity, poor esthetics, anxiety, and tooth loss can also occur
  - All of the above
15. *In the case described, tooth #3 presented with a large, well-demarcated loss of enamel*
- On the mesial surface
  - On the occlusal surface
  - On the distal surface

**Article: Crestal sinus lift approach by injectable porcine collagenated bone with and without immediate implant placement Itkin, page 32**

16. *Maxillary sinus floor elevation by lateral window technique with bone graft is the preferred treatment when the available bone is:*
- <1 mm%
  - <3 mm%
  - <5 mm%
17. *According to the author, several studies demonstrated excellent:*
- Xenograft biocompatibility with newly formed bone in maxillary sinus augmentation procedures
  - Allograft biocompatibility with newly formed bone in maxillary sinus augmentation procedures
  - Alloplast biocompatibility with newly formed bone in maxillary sinus augmentation procedures
18. *Exclusion criteria in the study described included:*
- Uncontrolled diabetes
  - Untreated periodontitis
  - Radiation therapy of the head and neck
  - All of the above
19. *Results of the study showed the gain of new bone was measured at an average of:*
- Minimum 3,59mm, maximum 7,22 mm
  - Minimum 3,59mm, maximum 6,43 mm
  - Minimum 3,13mm, maximum 7,22 mm
20. *According to Carl E. Misch the crestal approach sinus lift with simultaneous implant placement should be performed when the residual bone height is at least:*
- |        |        |
|--------|--------|
| a 3 mm | b 5 mm |
| c 4 mm | d 6 mm |

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