

Article: Masterclass in Implant Dentistry: Implant Surfaces - Current status for success. Todorovic and van Zyl, page 6

- Which of the following statement/s are incorrect regarding implant surfaces:
 - The bone to implant contact (BIC) is determined by how much of the implant outside surface is in direct contact with the surrounding bone.
 - Increased surface area and enhancements may increase primary stability during placement.
 - The increased roughness decreases the surface area for more bone-implant contact for better osseointegration.
 - None of the above
- Which of the following statement/s are incorrect regarding implant surfaces. The increased surface area and enhancements may have the following benefits:
 - The roughness increases the surface area for more bone-implant contact for better osseointegration.
 - Better biocompatibility by creating a more friendly surface for the cells to populate to form bone on the implant surface.
 - Increased wettability that decreases protein adherence to the implant surface for quicker and more successful integration.
 - None of the above
- Which of the following statement/s are incorrect regarding implant surfaces:
 - When an implant is placed, it achieves primary stability due to its geometry, which is then followed by the secondary stability as osseointegration takes place.
 - Osseointegration takes place over 6-8 weeks for most implants.
 - The implant surface has no role in the initial biological response after placement but plays an important role in the long-term stability due to enhanced integration.
 - None of the above
- Which of the following statement/s are correct regarding implant surfaces. Following implantation:
 - Peri-implant tissues experience a series of cellular and extracellular reactions at the bone-to-implant interface, ultimately resulting in the implant surface being surrounded by newly formed bone.
 - Blood is the second tissue to make contact with the implant surface.
 - Lymphocyte activation triggers the formation of a clot at the implant-tissue interface, which subsequently serves as a scaffold for osteoconduction.
 - None of the above
- Research has demonstrated that the application of the following substances may increase osseointegration. Which of the following substances do not play a role in this process:

a Bisphosphonates	b Calcium phosphates.
c Bone morphogenetic proteins.	d None of the above

Article: Masterclass in Endodontics: The MB2 canal in Maxillary Molars - Part 3: Clinical Case Report. Van der Vyver and Vorster, page 12

- What is the most common reason for post-treatment disease in maxillary first molars?
 - Over-instrumentation of the MB1 or MB2 canal
 - Incomplete pulpal debridement of the palatal canal
 - Failure to detect and treat the MB2 canal
 - Incorrect obturation technique and materials used
- Which anatomical characteristic makes the MB2 canal in maxillary first molars challenging to locate?
 - It is always positioned at the same depth as MB1
 - It often shares a common canal orifice with MB1
 - It is often concealed by dentinal shelves and developmental grooves
 - MB2 is often located more buccally than MB1
- True or False. Cone Beam Computed Tomography and magnification use in endodontics have significantly improved the identification and management of MB2 canals?
 - True
 - False
- What was the primary rationale for performing selective retreatment in the presented clinical case?
 - The patient had no symptoms, so only minimal intervention was needed
 - The palatal root exhibited no pathology and had an adequate obturation
 - Only canals with associated bone loss requires retreatment
 - The zirconia crown had adequate seal
- In which scenario would selective retreatment be contraindicated?
 - When a previously treated canal exhibits adequate obturation, but a missed canal is identified
 - When periapical pathology is localised to a single untreated canal
 - When CBCT confirms that only one root is affected by endodontic failure
 - When coronal leakage affects multiple canals

Article: Key trends and transformers in Dentistry for 2025. Hartshorne, page 30

(Please note: Certain questions have more than one answer)

- What is the importance of knowing and leveraging emerging trends?
 - To elevate practice efficiency
 - To improve patient outcomes
 - To maintain a competitive edge
 - To financially thrive in a rapidly changing environment
 - All of above
- Which of the following factors are driving the evolving dental landscape?
 - Technological innovations and advancements
 - Evolving patient expectations and needs
 - Focus on advanced tertiary care
 - Equitable access to health care
 - Renewed focus on personalized care
- Which of the following are considered advanced digital technologies?
 - 3D printing
 - Intraoral scanners
 - Cone beam computed tomography
 - Artificial intelligence powered automation
 - All of above
- Which of the following statements regarding adoption of advanced digital technologies are TRUE?
 - To improve patient communication.
 - To enable seamless access of patient information across multiple locations
 - To enable more accurate and personalized diagnostics
 - To improve accuracy of recording of the finish line of restorations.
 - To localize automation and maximize equipment cost and training
- Digital transformation will reduce paper use and non-biodegradable materials aligning with eco-friendly practices and growing environmental concerns (TRUE or FALSE?)
 - True
 - False
- Which of the following are considered key patient preferences in 2025?
 - Patient portals to optimize digital touchpoints
 - Comfort and amenities
 - Personalized care
 - Free treatment
 - Treatment simulations
- Which of the following statements relating to the shift towards preventive care and wellness are TRUE?
 - People are generally becoming more health conscious
 - Emphasis on restorative dentistry
 - Use of virtual consultation to gain more patients
 - Smart ultrasonic tooth brushes for effective control of oral hygiene
 - Regular check-ups and screening for early detection of disease
- Growing recognition of the link between oral health and systemic conditions is encouraging interdisciplinary collaboration between dentists and medical professionals (TRUE or FALSE?)
 - True
 - False
- Which of the following business initiatives and models for dentistry in 2025 are TRUE?
 - Integrated healthcare partnerships
 - Treatment and payment options
 - Embracing digital marketing tools
 - Consolidation of dental practices
 - All of above
- The evolving dental landscape in 2025 will be driven by a confluence of technological innovations, changing patient preferences, increased focus on preventive care and wellness, economic pressures and healthcare reform. (TRUE or FALSE?)
 - True
 - False

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