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Learning Objectives

After completion of this exercise, the participant will be able to:

- 1. Consider orthodontic appliance options for a patient suffering from seizures.
- 2. Discuss a microabrasion protocol for patients with varying levels of demineralization.
- 3. Describe the mechanics involved in en masse anterior retraction using lingual appliances.
- 4. List the causes and symptoms of a subcutaneous emphysema resulting from dental procedures.

Article 1

Pithon, M.M. and Santos, M.G.: An Appliance for Treatment of Anterior Crossbite in an Epileptic Patient (pp. 730-733)

- 1. Epilepsy has no identifiable cause in about:
 - a) 25% of cases
 - b) 40% of cases
 - c) 60% of cases
 - d) 75% of cases
- 2. Due to the patient's frequent seizures, a fixed appliance was designed to avoid the risk of dislodgment and:
 - a) aspiration of a removable appliance
 - b) swallowing of a removable appliance
- c) breakage of a removable appliance, causing injury to the soft tissues
 - d) all of the above
- 3. Oral-health concerns associated with epileptic patients include:
 - a) an increased risk for dental caries
 - b) medication-induced gingival hyperplasia

- c) medication-induced bleeding gums
- d) all of the above
- 4. If a removable appliance must be used in a patient suffering from seizures, it should:
 - a) be fabricated from high-impact acrylic
 - b) be easy to remove during a seizure
 - c) be inexpensive to fabricate
 - d) incorporate full molar coverage

Article 2

Caglaroglu, M. and Gelgor, I.E.: *Microabrasion Technique for Treatment of Demineralization after Debonding* (pp. 734-738)

- 5. The abrasive gel recommended by the authors contains all of the following ingredients except:
 - a) 18% hydrochloric acid
 - b) 30% hydrogen peroxide
 - c) glycerin
 - d) powdered pumice
- 6. To prevent contact between the gingivae and the abrasive gel:
 - a) a rubber dam is used
 - b) petroleum jelly is applied to the soft tissues
 - c) a soft acrylic tray with fenestrations is worn
 - d) both a and b
- 7. The authors apply the abrasive gel using:
 - a) a slow-speed prophy cup
 - b) a specially trimmed power toothbrush
 - c) a specially trimmed manual toothbrush
 - d) a small-diameter prophy brush
- 8. Studies of microabrasion procedures suggest that the technique:
 - a) removes a microscopic layer of enamel

- b) produces a smooth enamel surface with a brilliant luster
- c) removes yellow-brown enamel discolorations and white spots
 - d) all of the above

Article 3

- Tai, K.; Park, J.H.; Tanino, M.; and Ikeda, K.: *Bi-maxillary Dentoalveolar Protrusion Treated with Lingual Appliances and Temporary Anchorage Devices* (pp. 739-746)
- 9. The patient's lower extraction spaces were prevented from reopening with:
 - a) an Essix retainer worn 24 hours per day
 - b) a lower Hawley retainer worn at night
- c) ligature wires between the canines and second premolars
- d) fiber-reinforced composite segments between the canines and second premolars
- 10. Studies of the ratio of incisor retraction to lip retraction in bimaxillary-protrusion cases treated with extractions vary widely due to:
 - a) lack of lip-position standardization
 - b) variations in lip morphology
 - c) inclusion of growing patients
 - d) all of the above
- 11. According to Creekmore, when maximumanchorage techniques are not used in first-premolarextraction patients, the posterior teeth will move anteriorly:
 - a) by about one-third of the space
 - b) by about one-half of the space
 - c) by about two-thirds of the space
 - d) to fill the extraction space
- 12. According to Vanden Bulcke and colleagues, the center of resistance of the six maxillary anterior teeth during retraction is located:
- a) 7mm apical to the interproximal bone level between the central incisors

- b) 7mm apical to the cementoenamel junction of the central incisors
- c) 10mm apical to the interproximal bone level between the central incisors
- d) 10mm apical to the cementoenamel junction of the central incisors

Article 4

- Dabiri, D.; Nedley, M.; Baugh, R.; and Haerian, A.: An Incident of Subcutaneous Emphysema Following Laser Tooth Exposure (pp. 749-752)
- 13. Subcutaneous emphysema (SCE) resulting from a dental procedure is usually associated with the use of air-turbine handpieces or air-water dental syringes following:
 - a) surgical extractions
 - b) endodontic therapy
 - c) tooth whitening
 - d) both a and b
- 14. In the emergency room, the patient's symptoms included:
 - a) crepitus of the affected areas on palpation
 - b) pruritus on the affected side
 - c) facial swelling and trismus
 - d) abnormal phonation
- 15. Swelling in the lower eyelid was caused by air extending into the:
 - a) infratemporal area
 - b) preseptal orbital area
 - c) submandibular area
 - d) prevertebral fascia
- 16. A sudden onset of head and neck swelling following a dental procedure may be caused by SCE or by:
 - a) allergic reaction
 - b) hematoma
 - c) cellulitis
 - d) any of the above

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