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### MARCH 2023 LEARNING OBJECTIVES

After completing this course, the participant will have:

1. An appreciation for the opinion of patients and parents of patients about the use of teledentistry appointments during orthodontic treatment.
2. An understanding of the predictability of mandibular repositioning surgery when using computer-aided design and manufacturing (CAD-CAM) of surgical cutting guides and fixation plates.
3. An awareness of maxillary incisor root resorption differences when comparing Class II malocclusion treatment with and without maxillary premolar extractions.
4. Knowledge of the mandibular transverse dentoalveolar and skeletal changes associated with rapid maxillary expansion (RME) or RME plus lip bumper.

#### Article 1: Patient perspectives on teledentistry and face-to-face doctor interaction during orthodontic treatment, by Jackson K. Griffeth et al

1. This study aimed to evaluate the patient's perceived happiness with the treatment outcome by comparing teledentistry appointments during orthodontic treatment vs traditional doctor-to-patient face-to-face appointments.
  1. True
  2. False
2. The study electronically surveyed parents of orthodontic patients aged #18 years.
  1. True
  2. False
3. The authors reported that patients do not consider it convenient, nor are they comfortable replacing their consult, retainer check, or emergency appointments with teledentistry.
  1. True
  2. False
4. The authors concluded that face-to-face interaction with the orthodontist is preferred and considered to be important.
  1. True
  2. False

#### Article 2: Accuracy of mandibular repositioning surgery using new technology: Computer-aided design and manufacturing customized surgical cutting guides and fixation plates, by Ho Jin Yoo et al

5. This study aimed to (1) validate the use of CAD-CAM customized surgical cutting guides and fixation plates on mandibular repositioning surgery in a large sample and (2) determine the effects of simultaneous maxillary repositioning surgery on the accuracy of mandibular repositioning surgery when using this technique.
  1. True
  2. False
6. The study's sample comprised 60 consecutive patients in group A (mandibular advancement surgery) and 60 in group B (mandibular advancement surgery and simultaneous LeFort I maxillary osteotomy).
  1. True
  2. False
7. For the mandible surgery-only group, the authors reported that the smaller and larger planned advancement patients trended toward having an outcome close to what was planned.
  1. True
  2. False
8. The authors concluded that the precision and feasibility of CAD-CAM customized surgical cutting guides and fixation plates in mandibular repositioning surgery with or without maxillary surgery might be questionable clinical use.
  1. True
  2. False

#### Article 3: Root resorption in Class II malocclusion treatment with and without maxillary premolar extractions, By Aron Aliaga-Del Castillo et al

9. This study aimed to compare the degree of root resorption and periodontal health of maxillary incisors in Class II malocclusion treatment with and without maxillary premolar extractions.
  1. True
  2. False
10. The sample of patients with Class II malocclusion was divided into 2 groups: group 1 comprised 28 patients with maxillary premolar extractions, and group 2 comprised 28 patients without extractions.
  1. True
  2. False

11. The authors reported that root resorption of the maxillary incisors was predominantly mild to moderate in both groups.
    1. True
    2. False
  12. The authors concluded that complete Class II malocclusion treatment with maxillary premolar extractions produces more root resorption than without extractions.
    1. True
    2. False
- Article 4: Mandibular transverse dentoalveolar and skeletal changes associated with lip bumper and rapid maxillary expander: A cone-beam computed tomography study, by Justin C. Orr et al
13. This study aimed to evaluate the effects of the bonded RME alone compared with RME with lip bumper (LB) treatment on the mandibular transverse changes.
    1. True
    2. False
  14. Two groups were used for this study: a bonded RME-only group and a bonded RME plus LB in the mandibular arch group.
    1. True
    2. False
  15. The authors reported that RME with LB increased the transverse width of the mandibular basal bone.
    1. True
    2. False
  16. The authors concluded that bonded RME alone did not induce a significant increase in the transverse dimension of the mandible at either the dental or bony levels. Adding an LB significantly increased the mandibular intermolar width, uprighted the mandibular molars, and caused a reduction of the alveolar bone inclination.
    1. True
    2. False