After completing this course, the participant will have:
1. An understanding of the success rates for both primary and secondary placements of miniscrews in the maxillary buccal area vs the midpalatal suture area.
2. An appreciation for the changes in pharyngeal airway volumes after isolated mandibular setback surgery for Class III skeletal dysplasia.
3. A familiarity with the influence of the AcceleDent Aura appliance on the rate of premolar extraction space closure.
4. Knowledge concerning the esthetic perceptions by raters and smile variables between orthodontic patients treated with and without extractions.

**Article 1: Stability of secondarily inserted orthodontic miniscrews after failure of the primary insertion for maxillary anchorage: Maxillary buccal area vs midpalatal suture area by Shunsuke Uesugi et al**

1. The aims of the study were to investigate the secondary success rate of miniscrews used for maxillary anchorage and to compare the stability of the maxillary buccal area with the midpalatal suture area.
   True
   False

2. The sample comprised 387 maxillary buccal area miniscrews and 84 midpalatal suture area miniscrews.
   True
   False

3. The authors reported that the secondary insertion success rate was significantly lower than the primary insertion success rate in the maxillary buccal area.
   True
   False

4. The authors suggested that their findings clearly indicate that miniscrews should generally be inserted in the midpalatal suture area rather than the maxillary buccal area.
   True
   False

**Article 2: Pharyngeal airway evaluation after isolated mandibular setback surgery using cone-beam computed tomography, by Shireen K. Irani et al**

5. These authors investigated the volumetric and dimensional changes to the pharyngeal airway space after maxillary and mandibular surgery for patients with Class III skeletal dysplasia.
   True
   False

6. Cone-beam computed tomography scans were used in the study; they were obtained at 3 time points: T1 (before surgery), T2 (immediately after surgery), and T3 (an average of 1 year after surgery).
   True
   False
7. The authors reported no strong correlation between the amounts of mandibular setback surgery and pharyngeal airway volumes or dimensions.

   True
   False

8. The authors concluded that there were significant decreases in all pharyngeal airway volumes from before surgery to 6 months and 1 year after isolated mandibular setback surgery.

   True
   False

Article 3: Assessment of the rate of premolar extraction space closure in the maxillary arch with the AcceleDent Aura appliance vs no appliance in adolescents: A single-blind randomized clinical trial, by Peter Miles et al

9. The purpose of this 2-arm parallel trial was to assess the effect of the AcceleDent Aura appliance on the rate of maxillary premolar extraction space closure in adolescent patients.

   True
   False

10. The experimental group of 20 patients with maxillary first or second premolar extractions used the AcceleDent Aura appliance for 20 minutes per day for the duration of the study.

    True
    False

11. The authors reported that compliance with the tested device dropped off markedly, and only 35% of the test group could be considered good compliers.

    True
    False

12. The authors concluded that the AcceleDent Aura appliance enhanced the rate of extraction space closure in the maxillary arch.

    True
    False

Article 4: Effect of nonextraction and extraction orthodontic treatments on smile esthetics for different malocclusions by Hsin-Chung Cheng and Yi-Chun Wang

13. These authors evaluated the differences in esthetic perceptions and the smile variables between extraction and nonextraction treatments for subjects with Class II malocclusions.

    True
    False

14. They used 4 types of raters for the esthetic score: 10 laypeople, 10 general dentists, 10 orthodontic residents, and 10 practicing orthodontists.

    True
    False

15. The authors reported that the maxillary incisor show correlated positively with the esthetic score in all participant patients.

    True
    False

16. The esthetic scores by dental professionals were higher for extraction than for nonextraction treatment in the group II participants with pretreatment overjets greater than 4 mm.

    1. True
    False