After completing this course, the participant will have:
1. An appreciation for generalized global themes that influence parents' motivations to seek orthodontic care for their children.
2. A knowledge of dental anomalies that might or might not be associated with agenesis of teeth in the maxilla and the mandible.
3. An awareness of the effect of combined orthodontic and periodontal treatment on anteriorly displaced incisors with periodontitis.
4. An understanding of the effect of a light-curable fluoride varnish on preventing enamel demineralization around orthodontic brackets.

Article 1: "Why do you want your child to have braces?" Investigating the motivations of Hispanic/Latino and white parents, by Blake B. Davis et al.
1. The purposes of the study were to identify and categorize shared motives among parents seeking orthodontic care for their children and to determine whether cultural differences exist between Hispanic/Latino and white parents.
   - True
   - False
2. The Q sort portion of the project had a total enrollment of 128 parents.
   - True
   - False
3. The authors reported that the study showed 4 global themes of why parents seek orthodontic treatment: preventing future problems (timing), parents' responsibility, perceived benefits of treatment (esthetic, interpersonal, and oral health), and perceived need instilled by critical relatives.
   - True
   - False
4. The authors suggest to orthodontists that understanding these motivational profiles can inform the orthodontic practice about parental motives for seeking orthodontic care.
   - True
   - False

5. The aim of this study was to compare the pattern and the prevalence of associated dental anomalies between maxillary and mandibular tooth agenesis (hypodontia).
   - True
   - False
6. Patients with tooth agenesis in both arches were excluded, and the remaining subjects were divided into those with maxillary agenesis only (group 1) and mandibular agenesis only (group 2).
   - True
   - False
7. The authors reported that maxillary hypodontia was not associated with microodontia of the maxillary lateral incisors.
   - True
   - False
8. The authors reported that mandibular hypodontia was significantly associated with retained deciduous molars, infraocclusion of deciduous molars, impacted teeth, and supernumerary teeth.
   - True
   - False
Article 3: Combined orthodontic-periodontal treatment in periodontal patients with anteriorly displaced incisors, by Tian Cao et al

9. The purpose of this study was to investigate the changes in periodontal health and the shape of bone defects in the incisors after combined orthodontic-periodontal treatment.
True
False

10. The sample comprised 14 adults between 22 and 44 years of age diagnosed with chronic periodontitis.
True
False

11. The authors reported that the shape of the bone defects changed to angular from horizontal in some of the teeth examined.
True
False

12. The authors concluded that orthodontic intrusion with circumferential supracrestal fiberotomy improved the periodontal support for displaced incisors by repositioning the root apex and changing the morphology of the bone crest from horizontal to angular, leading to the increases in bone thickness and enhancement of the guided tissue regeneration.
True
False

Article 4: Effect of light-curable fluoride varnish on enamel demineralization adjacent to orthodontic brackets: An in-vivo study, by Anurag Mehta et al

13. The purpose of this study was to evaluate the effect of 2 applications of Clinpro XT, a light-curable fluoride varnish, on enamel demineralization adjacent to orthodontic brackets.
True
False

14. In each subject, the first premolars were either the experimental or the control teeth based on a nonrandomized split-mouth design in which 1 quadrant received the fluoride varnish application, and the opposite quadrant received no varnish. The diagonally opposite quadrants received the same treatment.
True
False

15. The authors concluded that in the control group of teeth the depth of the demineralized enamel lesions increased from 30 to 120 days, whereas in the experimental group no sign of demineralization was noted during the observation period, except in 3 teeth.
True
False

16. The authors suggested that 1 application of Clinpro XT can prevent demineralization in long-term clinical situations up to 120 days and may be a useful alternative for noncompliant and high-risk patients.
True
False