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Learning Objectives

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

- 1. Describe the mechanics of Biocreative Strategy in extraction treatment.
- 2. Discuss the application of the zygoma-gear appliance for upper molar distalization.
- 3. Compare clear aligners to other modalities in adult single-incisor extraction treatment.
- 4. Contrast the triple intrusion system with other methods of correcting skeletal open bite.

Article 1

Kim, S.H.; Iskenderoglu, N.S.; Kook, Y.A.; Chung, K.R.; and Nelson, G.: *The Biocreative Strategy*, *Part 3* (pp. 388-407)

- 1. The C-implant can support heavier forces and moments because it is:
- a) malleable enough for close adaption to the bone surface
 - b) placed in line with the center of rotation
 - c) partially osseointegrated
 - d) combined with the C-tube microplate
- 2. The biomechanical tripod consists of two points at the maxillary temporary anchorage devices (TADs) and one in the:
 - a) anterior palate
 - b) anterior tooth segment
 - c) buccal tooth segment
 - d) lower arch
- 3. The preformed C-wire consists of an .016" \times .022" superelastic nickel titanium anterior wire segment and:

- a) two .017" \times .025" stainless steel posterior segments
 - b) an $.017" \times .025"$ stainless steel overlay wire
- c) two $.016" \times .022"$ superelastic nickel titanium posterior segments
 - d) two posterior retraction hooks
- 4. A 30° gable bend in the main archwire and a 10mm anterior retraction hook will promote:
 - a) controlled tipping
 - b) translation
 - c) root retraction
 - d) both b and c

Article 2

Patil, H.A.; Kerudi, V.V.; Patil, N.S.; Tekale, P.D.; and Verulkar, A.: *The Zygoma-Gear Appliance for Maxillary Molar Distalization* (pp. 412-418)

- 5. The zygoma-gear appliance is a modified:
 - a) transpalatal arch
 - b) inner facebow
 - c) J-hook facebow
 - d) lip bumper
- For absolute anchorage, the zygoma-gear appliance uses:
 - a) osseointegrated micro-implants
 - b) C-tube microplates
 - c) titanium anchor plates
 - d) palatal miniscrews
- 7. The TADs are placed in the:
 - a) zygomatic process of the maxilla
 - b) zygomatic buttress of the mandible
 - c) anterior palate
 - d) retromolar regions of the maxilla

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- 8. A major advantage of this system is that it can produce:
 - a) upper anterior retraction
 - b) less molar inclination
 - c) less incisor tipping
 - d) all of the above

Article 3

Antelo, O.M.; Meira, T.M.; Miyoshi, C.S.; Allahham, A.; and Tanaka, O.M.: Single Lower Incisor Extractions in Adult Invisalign Patients (pp. 419-426)

- 9. An adult patient considered for extraction of a single lower incisor should meet all of the following criteria except:
 - a) Class I molar relationship
 - b) moderate crowding of the lower incisors
 - c) acceptable soft-tissue profile
 - d) no tooth-size/arch-length discrepancy
- 10. In an adult Class I patient with a harmonious profile, lower crowding can be effectively corrected by either a lower incisor extraction or:
 - a) two premolar extractions
 - b) interproximal reduction
 - c) lower arch expansion
 - d) upper molar distalization
- 11. In the absence of any Bolton discrepancy, closure of a lower incisor extraction space can cause:
 - a) excessive overjet
 - b) a relapse of crowding
 - c) anterior open bite
 - d) any of the above
- 12. In the refinement phase, the patient shown here changed aligners every:

- a) week
- b) two weeks
- c) 10 days
- d) 17 days

Article 4

Gökalp, H.; Efendiyeva, R.; Bilgili, Ö,; and Efe, E.: *Treatment of Skeletal Class II Open Bite with the Triple Intrusion System* (pp. 427-438)

- 13. Skeletal open bite is usually characterized by downward and backward rotation of the mandible and by:
 - a) vertical overgrowth of the maxilla
 - b) forward placement of the maxilla
 - c) a tooth-size/arch-length discrepancy
 - d) overeruption of the molars
- 14. The triple intrusion system includes all of the following except:
 - a) a multipurpose implant
 - b) posterior maxillary cap splints
 - c) titanium anchor plates
 - d) palatal miniscrews
- 15. The vertical height of the upper molars plays an important role in:
 - a) forward placement of the maxilla
 - b) growth modification
 - c) anterior rotation of the mandible
 - d) backward rotation of the mandible
- 16. The zygomatic buttress is an ideal miniplate anchorage site because of its:
 - a) dense cortical bone
 - b) proximity to the masticatory musculature
 - c) distance from the dental roots
 - d) both a and c

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