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Learning Objectives

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

1. Describe a standardized palatal-crib design and protocol for treatment of open bite.

2. Discuss the controversies surrounding selfligating vs. conventional brackets.

3. Fabricate an esthetic appliance for extrusion of an anterior tooth.

4. Evaluate alternative miniscrew anchorage sites for uprighting mesially tipped second molars.

Article 1

Feu, D.; Menezes, L.M.; Quintão, A.P.A.; and Quintão, C.C.A.: *A Customized Method for Palatal Crib Fabrication* (pp. 406-412)

1. Widely differing results from studies of tonguecrib therapy may be attributed to:

a) individual variation in the adaptive capacity of the tongue

- b) variations in crib design and dimensions
- c) variations in duration of crib use
- d) all of the above

2. Fink suggested that the effectiveness of crib therapy is:

a) due to a dynamic restraint of the tongue

b) due to a redirection of the tongue's resting position

c) dependent on treatment of enlarged tonsils, adenoids, or allergies

- d) both a and c
- 3. Studies of crib therapy show that resting tongue pressures remain lower after:

a) two months of wear

- b) six months of wear
- c) 12 months of wear
- d) 16 months of wear
- 4. The authors' standardized palatal crib:

a) extends to the lingual gingival margin of the lower incisors to prevent the tongue from positioning itself below the crib

b) extends transversely from first premolar to first premolar

- c) is removable for improved oral hygiene
- d) all of the above

Article 2

Burrow, S.J. and Proffit, W.R.: *JCO Interviews Drs. S.J. "Jack" Burrow and William R. Proffit on the Efficacy of Self-Ligating Brackets* (pp. 413-418) 5. Kusy and Whitley described resistance to sliding (RS) as a combination of all of the following factors except:

a) static or kinetic friction (FR)

b) binding (BI) of a wire against the corners of the bracket

c) bracket geometry

d) notching or deformation of the wire at the wire-bracket interface

6. Articolo and Kusy found that the effect of BI on RS in brackets that are allowed to tip:

- a) is negligible
- b) is similar to the effect of FR
- c) is much greater than the effect of FR
- d) decreases as the bracket is tipped

7. Bracket geometry affects the amount of force at

- the corner of the bracket, so that a wider bracket:
 - a) results in a lower bracket-wire contact angle

- b) results in a higher bracket-wire contact angle
- c) results in higher RS
- d) both a and c

8. Studies by Pandis and colleagues showed a difference between self-ligating and conventional brackets in terms of:

- a) rotation correction
- b) torque expression
- c) force generation
- d) all of the above

Article 3

Pithon, M.M.; Santos, M.G.; and Gusmão, J.M.R.: *Orthodontic Extrusion with a Thermoformed Appliance* (pp. 428-432)

9. Moving teeth in the same direction as that of eruption causes:

- a) gingival inflammation
- b) elongation of the periodontal fibers
- c) bone loss in the alveolar crest
- d) both b and c

10. Orthodontic extrusion can be effective in restoring teeth with:

- a) horizontal or basal fractures
- b) carious lesions
- c) endodontic perforations
- d) all of the above

11. In the authors' technique, palatal tipping of the incisor during extrusion is prevented by:

a) placing a bonded button more gingivally on the tooth to be extruded

b) placing a bonded button more incisally on the tooth to be extruded

c) using a light extrusive force of 20-30g

d) contouring the thermoformed plate to stay in contact with the cingulum

12. Splinting of the teeth after extrusion:

a) is important to avoid relapse due to distension of the periodontal fibers

b) is necessary for 16-18 weeks

c) is necessary for only two to four weeks

d) is not necessary if light extrusive force is used

Article 4

Nienkemper, M.; Pauls, A.; Ludwig, B.; Wilmes, B.; and Drescher, D.: *Preprosthetic Molar Uprighting Using Skeletal Anchorage* (pp. 433-437) 13. Tipping of a second molar into the space of a missing first molar:

a) may result in eccentric occlusal loading of the second molar

b) requires application of a statically indeterminate force system

c) requires application of a statically determined force system

d) both a and b

14. Under the classification of Burstone and Koenig, simultaneous application of intrusive and uprighting forces to a mesially tipped second molar produces:

- a) Class II geometry
- b) Class III geometry
- c) Class IV geometry
- d) Class V geometry

15. To anchor the second-molar uprighting spring, the authors recommend using:

a) two mini-implants inserted buccally

b) two mini-implants in the edentulous first-molar space

c) a single mini-implant in the edentulous first-molar space

d) a single, large-diameter mini-implant for indirect anchorage from the adjacent premolars

16. To insert a mini-implant in an atrophied alveolar ridge without lateral slippage of the driver:

a) a surgical flap should be raised for direct access to the bone

b) the bone surface should be flattened before screw placement

c) the insertion site should be predrilled before screw placement

d) the screw should be inserted at an angle to the gingival surface