# **CONTINUING EDUCATION**

The East Carolina School of Dental Medicine will award 3 hours of Continuing Education credit for reading this issue of JCO and answering at least 12 of the following 16 questions correctly. Take this test online at www.jco-online.com (click on Continuing Education); payment of \$25 is required by VISA or MasterCard. The test may be retaken once if not passed on the first attempt. Correct answers will be supplied immediately, along with a printable certificate. Tests will be accessible on the JCO website for 12 months after publication. A subscription to JCO is not required to earn C.E. credits. For information, contact Dr. Neal Kravitz; e-mail: editor@jco-online.com. CER Code: JCO May 2022.

#### **Learning Objectives**

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

1. Describe a protocol for orthodontic closure of missing lower second-premolar spaces using skeletal anchorage.

2. Discuss the effects of the Carriere Motion Appliance in Phase I treatment of young Class II patients.

3. Adapt a Storino Leash to help upright the incisors during the finishing stage.

4. Evaluate various options for treatment of an ankylosed permanent molar.

### Article 1

Kassisieh, S.; Bodiroga, N.; and Gousman, J.: Space Closure for Congenitally Missing Lower Second Premolars Using Temporary Anchorage Devices (pp. 268-284)

1. Lower second premolars are the most common congenitally missing teeth next to:

- a) upper second premolars
- b) lower canines
- c) lower second molars
- d) third molars

2. Under the authors' protocol, temporary anchorage devices are placed:

- a) in the midpalate
- b) in the edentulous areas
- c) between the lower canines and premolars
- d) in the retromolar regions

3. Care is taken to prevent supraeruption of the opposing second molars by using:

a) a lingual holding arch

- b) a vacuum-formed upper retainer
- c) an anterior anchorage unit
- d) a reverse-curve archwire

4. Viable treatment options for patients with congenitally missing lower second premolars include all of the following except:

a) intentional ankylosis of the retained deciduous premolar

b) extraction of the deciduous premolar with subsequent implant placement

c) extraction of the deciduous premolar followed by orthodontic space closure

d) autotransplantation of another tooth

### Article 2

Clermont, A.; Albert, A.; and Bruwier, A.: *Effects* of the Class II Carriere Motion Appliance in Phase I Treatment: A Randomized Controlled Trial (pp. 285-293)

5. The Carriere Motion Appliance can be considered for Phase I treatment of Class II patients with:

- a) cooperation issues
- b) severe retrognathia
- c) tongue or lip habits
- d) anterior open bite

6. The mean pretreatment age of patients in the present study was:

- a) 7.6
- b) 8.2
- c) 9.4
- d) 11.0

7. Overjet and overbite remained stable in the control group and:

a) remained stable in the appliance group

- b) increased slightly in the appliance group
- c) decreased slightly in the appliance group
- d) decreased significantly in the appliance group
- 8. Adverse effects of the appliance included:
  - a) proclination of the lower incisors
  - b) formation of upper anterior diastemas
  - c) clockwise rotation of the occlusal plane
  - d) all of the above

### Article 3

Kravitz, N.D.; Attkisson, B.; and Storino, D.: A Modification of the Storino Leash (pp. 297-298)

9. The Storino Leash was invented to control incisor flaring from:

- a) passive self-ligating brackets
- b) active self-ligating brackets
- c) standard ligated brackets
- d) clear aligners

10. In its original application, the Storino Leash is placed with a:

- a) round nickel titanium archwire
- b) rectangular nickel titanium archwire
- c) stainless steel archwire
- d) titanium molybdenum archwire

11. In the authors' modification, the Storino Leash is placed with a:

- a) round nickel titanium archwire
- b) rectangular nickel titanium archwire
- c) stainless steel archwire
- d) titanium molybdenum archwire

12. The Storino Leash is primarily designed to apply:

- a) lingual crown tip
- b) labial crown tip

- c) lingual crown torque
- d) labial crown torque

## Article 4

Takagi, T.; Shimizu, S.; and Tanaka, E.: Alveolar Corticotomy for Extrusion of an Ankylosed Lower First Molar (pp. 299-307)

- 13. The majority of ankylotic teeth are:
  - a) maxillary incisors
  - b) mandibular canines
  - c) deciduous molars
  - d) permanent molars
- 14. Definitive diagnosis of ankylosis requires:a) radiographic evaluation of the periodontal
- ligament space
  - b) application of orthodontic force
  - c) percussion of the tooth
  - d) surgical extrusive luxation

15. Single-tooth osteotomy of an ankylosed molar has the advantages of:

a) allowing rapid movement of a tooth with a bony block

b) enabling the soft-tissue pedicle to remain attached to the cortices

- c) avoiding gingival recession
- d) all of the above

16. Corticotomy of an ankylosed molar has the advantages of:

a) being less invasive than other common surgical techniques

- b) enabling bone augmentation
- c) shortening treatment time
- d) all of the above