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 April 2025.

Learning Objectives

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

- 1. Discuss the management of Invisalign treatment for Class II patients with deep bites.
- 2. Compare distraction osteogenesis to other methods of treating patients with mandibular asymmetry.
- 3. Follow the procedure described for using a three-dimensionally printed donor tooth model to test for fit in an autotransplantation site.
- 4. Describe the use of the glass ionomer open exposure (GOPEX) technique in erupting retained permanent molars.

Article 1

Glaser, B.: *Practical Invisalign Mechanics: Deep Bite and Class II Correction* (pp. 241-248)

- 1. Invisalign treatment of deep overbite aims to "undo" the:
 - a) Class II skeletal relationship
 - b) supraeruption of the lower anterior teeth
 - c) intrusion of the upper anterior teeth
 - d) hyperdivergent growth pattern
- 2. The ClinCheck treatment plan should be overengineered to:
 - a) create a deep curve of Spee
 - b) overcorrect the upper molar distalization
 - c) produce a flat lower archform
 - d) increase the posterior facial height
- 3. In a growing patient with a half-cusp Class II molar relationship, a bite jump should:
 - a) be planned without any molar distalization
- b) be combined with 3mm of sequential molar distalization

- c) be delayed until the finishing stage
- d) not be used
- 4. Class II elastics should:
- a) be worn only when molar distalization is being performed
- b) be worn regardless of whether bite jumping or distalization is performed
 - c) not be worn until the finishing stage
 - d) not be used

Article 2

Kornmehl, D.L.; Sohn, C.; Bastidas, J.A.; and Ahmed, M.K.: Treatment of Mandibular Asymmetry with Distraction Osteogenesis in a Growing Patient (pp. 254-263)

- 5. Potential pathological etiologies of asymmetrical mandibular development include all of the following except:
 - a) tumors
 - b) childhood injury
 - c) infections
 - d) condylar resorption
- 6. Dental compensations created by mandibular asymmetry include:
- a) buccoversion of the maxillary molars on the deviated side
- b) intrusion of the maxillary molars on the nondeviated side
 - c) a reverse curve of Spee
 - d) all of the above
- 7. To address this patient's occlusal cant, the authors used:
 - a) a posterior bite block
 - b) an asymmetrical functional appliance

VOLUME LIX NUMBER 04 285

- c) differential bonding of the maxillary arch
- d) bonded bite turbos
- 8. In a long-term study of patients treated with distraction during the mixed or early permanent dentition, the most common abnormality observed by Chen and colleagues was:
 - a) root malformation
 - b) destruction of tooth follicles
 - c) impacted teeth
 - d) absent molars

Article 3

- Di Leonardo, B.; Mura, R.; Pozzan, L.; and Migliorati, M.: Lower Canine Autotransplantation Using a 3D-Printed Donor Tooth Model (pp. 264-271)
- 9. Autotransplantation of an impacted canine has the advantage of:
 - a) providing functional adaptation
 - b) preserving the alveolar bone ridge
 - c) restoring a normal alveolar process
 - d) all of the above
- 10. The authors print the donor tooth model using Formlabs:
 - a) Draft Resin
 - b) Clear Resin
 - c) Grey Resin
 - d) Precision Model Resin
- 11. The reported overall success rate after five years for autotransplantion of teeth with completely formed roots is:
 - a) 78.8%
 - b) 87%
 - c) 90.2%
 - d) 98%
- 12. Potential side effects of autotransplantation include all of the following except:

- a) discoloration
- b) root resorption
- c) ankylosis
- d) cardiac anomalies

Article 4

- Alali, O.: Spontaneous Eruption of a Retained Permanent Second Molar Using Glass Ionomer Open Exposure (pp. 272-278)
- 13. Arrested eruption of a lower permanent second molar has a prevalence in adolescents of:
 - a) .03-.65%
 - b) .6-1%
 - c) 3-6.5%
 - d) 6-10%
- 14. The GOPEX technique uses glass ionomer cement instead of:
 - a) composite resin
 - b) a conventional surgical dressing
 - c) a bone graft
 - d) dental sutures
- 15. Potential contributors to successful treatment of retained lower second molars include all of the following except:
 - a) incomplete root development
 - b) a vertical initial tooth position
- c) a slightly mesially inclined initial position of the retained tooth
 - d) signs of primary retention
- 16. The optimal stage for use of the GOPEX technique as described in this article is:
 - a) the primary dentition
 - b) the early mixed dentition
 - c) early adolescence
 - d) adulthood

286 JCO/APRIL 2025