

# THE AMERICAN BOARD OF ORTHODONTICS

## WRITTEN EXAMINATION

### READING LIST 2019

The objective of this reading list is to offer the practicing orthodontist a list of references, which may serve as a source of knowledge in preparing for certification. This reading list includes papers of historical as well as scientific interest. It is intended to give the orthodontist a broad perspective of the changing world of orthodontic theory and practice. Several articles by ABO directors are also included so the candidates may have some insight into their background and current interests. It should be clearly understood that a bibliography, such as this, is not all encompassing and does not remain static. It will be continuously subject to additions and deletions. Current literature and textbooks on orthodontics may be studied in addition to the suggested references.

The American Board of Orthodontics does not consider any of the articles and/or texts to contain the indisputable answer to any questions within the field of orthodontics.

Examinees are responsible for the content of the entire reading list, even though some references may not be represented by an exam question.

## RESOURCES

1. American Heart Association: CPR & First Aid Emergency Cardiovascular Care, <https://eccguidelines.heart.org/index.php/circulation/cpr-ecc-guidelines-2/>; Accessed July 30, 2018.
2. Agency for Toxic Substances & Disease Registry: Toxicological Profile for Ionizing Radiation, <https://www.atsdr.cdc.gov/ToxProfiles/TP.asp?id=484&tid=86>; Accessed July 30, 2018.
3. Berridge NL, Burke GAE, Reynolds PA, et al: 3D Head & Neck Anatomy for Dentistry, Primal Pictures Ltd, 2009. (*Or any contemporary anatomy resource*)  
Use this link to obtain discounted access for one month:  
[Primals 3D Anatomy for Dentistry – ABO : ONE Month Access](#)
4. Centers for Disease Control and Prevention: Guidelines for Disinfection and Sterilization in Healthcare Facilities 2008, <https://www.cdc.gov/infectioncontrol/guidelines/disinfection/>; Accessed July 30, 2018.

5. Centers for Disease Control and Prevention, Health Effects of Radiation: Health Effects Depend on the Dose <https://www.cdc.gov/nceh/radiation/dose.html#how>; Accessed July 30, 2018.

6. Centers for Disease Control and Prevention: Vaccine Information for Adults, <https://www.cdc.gov/vaccines/spec-grps.html>; Accessed July 30, 2018.

7. The American Board of Orthodontics, <http://www.AmericanBoardOrtho.com>; Accessed July 30, 2018.

## **TEXTBOOKS**

1. English JD, Akyalcin S, Peltomaki T, et al: Mosby's Orthodontic Review, ed 2, Mosby, 2015.

2. Graber L, Vanarsdall R, Vig KWL: Orthodontics: Current Principles and Techniques, ed 6, Mosby, 2017.

3. Jacobson A and Jacobson RL: Radiographic Cephalometry: From Basics to 3-D Imaging, ed 2, Quintessence, 2007.

4. Lang NP and Lindhe J: Clinical Periodontology and Implant Dentistry, ed 6, Wiley-Blackwell, 2016.

5. Miller SL: Statistics for Dentistry and Medicine, Reston Publishing Company, 1981.

6. Moore DS, McCabe GP, Craig BA: Introduction to the Practice of Statistics, ed 9, WH Freeman, 2017.

7. Nanci A: Ten Cate's Oral Histology: Development, Structure, and Function, ed 9, Mosby, 2018.

8. Neville BW, Damm DE, Allen CM, et al: Oral and Maxillofacial Pathology, ed 4, Elsevier, 2016.

9. Okeson JP: Management of Temporomandibular Disorders and Occlusion, ed 7, Mosby, 2013.

10. Proffit WR and Fields HW: Contemporary Orthodontics, ed 5, Mosby, St. Louis, 2012.

11. Proffit WR, White L, Sarver DL: Contemporary Treatment of Dentofacial Deformity, Mosby, 2003.

12. Rule JT and Veatch RM: Ethical Questions in Dentistry, ed 2, Quintessence, 2004.

13. Standring S (ed): *Gray's Anatomy: The Anatomical Basis of Clinical Practice*, ed 41, Elsevier, 2016. (*Or any contemporary anatomy textbook*)

## **JOURNAL ARTICLES**

1. Al-Moraissi EA, Al-Magaleh SM, Iskandar RA, et al: Impact on the pharyngeal airwayspace of different orthognathic procedures for the prognathic mandible. *International Journal of Oral and Maxillofacial Surgery* 44(9): 1110–1118, September 2015.
2. Armas Galindo HR, Sadowsky PL, Vlachos C, et al: An in vivo comparison between a visible light-cured bonding system and a chemically cured bonding system. *American Journal of Orthodontics and Dentofacial Orthopedics* 113(3): 271-275, March 1998.
3. Armi P, Cozza P, Baccetti T: Effect of RME and headgear treatment on the eruption of palatally displaced canines: a randomized clinical study. *The Angle Orthodontist* 81(3): 370-374, February 2011.
4. Armstrong MM: Controlling the magnitude, direction, and duration of extraoral force. *American Journal of Orthodontics and Dentofacial Orthopedics* 59(3): 217-243, March 1971.
5. Artun J, Smale I, Behbehani F, et al: Apical root resorption six and 12 months after initiation of fixed orthodontic appliance therapy. *The Angle Orthodontist* 75(6): 919-926, November 2005.
6. Battagel JM and Orton HS: Class III malocclusion: a comparison of extraction and non-extraction techniques. *European Journal of Orthodontics* 13(3): 212-22, June 1991.
7. Becker A and Chaushu S: Etiology of maxillary canine impaction: a review. *American Journal of Orthodontics and Dentofacial Orthopedics* 148(4): 557–567, October 2015.
8. Bjork A and Skieller V: Facial development and tooth eruption: an implant study at the age of puberty. *American Journal of Orthodontics and Dentofacial Orthopedics* 62(4): 339-383, October 1972.
9. Bolton WA: Disharmony in tooth size and its relation to the analysis and treatment of malocclusion. *The Angle Orthodontist* 28(3): 113-130, July 1958.
10. Brooks SL, Brand JW, Gibbs SJ, et al: Imaging of the temporomandibular joint: a position paper of the American Academy of Oral and Maxillofacial Radiology. *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontology* 83(5): 609-618, May 1997.
11. Buschang PH, Sankey W, English JP: Early treatment of hyperdivergent open-bite malocclusions. *Seminars in Orthodontics* 8(3): 130-140, September 2002.
12. Cacciatore G, Ghislanzoni LTH, Alvetro L, et al: Treatment and posttreatment effects induced by the Forsus appliance. *The Angle Orthodontist* 84(6): 1010-1017, November 2014.
13. Campbell JH: Pathology associated with the third molar. *Oral and Maxillofacial Surgery Clinics of North America* 25(1): 1–10, February 2013.

14. Chai Y, Jiang XB, Ito Y, et al: Fate of the mammalian cranial neural crest during tooth and mandibular morphogenesis. *Development* 127(8): 1671-1679, April 2000.
15. Chen Y, Kyung HM, Zhao WT, et al: Critical factors for the success of orthodontic mini-implants: a systematic review. *American Journal of Orthodontics and Dentofacial Orthopedics* 135(3): 284-291, March 2009.
16. Ciarlantini R and Melsen B: Semi-permanent replacement of missing maxillary lateral incisors by mini-implant retained pontics: a follow-up study. *American Journal of Orthodontics and Dentofacial Orthopedics* 151(5): 989-994, May 2017.
17. Cvek M, Tsilingaridis G, Andreasen JO: Survival of 534 incisors after intra-alveolar root fracture in patients aged 7-17 years. *Dental Traumatology* 24: 379-387, 2008.
18. Del Santo M, English JD, Wolford LM, et al: Midsymphyseal distraction osteogenesis for correcting transverse mandibular discrepancies. *American Journal of Orthodontics and Dentofacial Orthopedics* 121(6): 629-638, June 2002.
19. Eke PI, Dye BA, Wei L, et al: Update on prevalence of periodontitis in adults in the United States: NHANES 2009-2012. *Journal of Periodontology* 86(5): 611-622, May 2015.
20. Flores-Mir C, Korayem M, Heo G, et al: Craniofacial morphological characteristics in children with obstructive sleep apnea syndrome. *The Journal of the American Dental Association* 144(3): 269-277, March 2013.
21. Frasier AD, Zhang B, Khan H, et al: Prescription Opioid Abuse and its Potential Role in Gross Dental Decay. *Current Drug Safety* 12(1): 22-26, 2017.
22. Ghoneima A, Abdel-Fattah E, Hartsfield J, et al: Effects of rapid maxillary expansion on the cranial and circummaxillary sutures. *American Journal of Orthodontics and Dentofacial Orthopedics* 140(4): 510-519, October 2011.
23. Gupta B, Singh S, Tallents RH, et al: Effects of bisphosphonates on orthodontic treatment and the TMJ: a systemic review. *Journal of Clinical Orthodontics* 51(8): 471-478, August 2017.
24. Harrel SK and Nunn ME. The effect of occlusal discrepancies on periodontitis. II. Relationship of occlusal treatment to progress of periodontal disease. *Journal of Periodontology* 72(4): 495-505, 2001.
25. Holmgren K, Sheikholeslam A, Riise C: Effect of a full-arch maxillary occlusal splint on parafunctional activity during sleep in patients with nocturnal bruxism and signs and symptoms of craniomandibular disorders. *Journal of Prosthetic Dentistry* 69(3): 293-297, March 1993.
26. Hwang C and Cha J: Orthodontic treatment with growth hormone therapy of a girl of short stature. *American Journal of Orthodontics and Dentofacial Orthopedics* 126(1): 118-126, August 2004.

27. Janson G, Sathler R, Freire Fernandes TM, et al: Correction of Class II malocclusion with Class II elastics: a systematic review. *American Journal of Orthodontics and Dentofacial Orthopedics* 143(3): 383–392, March 2013.
28. Jones CE, Chapman KL, Hardin-Jones M: Speech development of children with cleft palate before and after palatal surgery. *Cleft Palate-Craniofacial Journal* 40(1): 19-31, February 2003.
29. Katzberg RW, Westesson PL, Tallents RH, et al: Orthodontics and temporomandibular joint internal derangement. *American Journal of Orthodontics and Dentofacial Orthopedics* 109(5): 515-520, May 1996.
30. Kim MR, Graber TM, Viana MA: Orthodontics and temporomandibular disorder: a meta-analysis. *American Journal of Orthodontics and Dentofacial Orthopedics* 121(5): 438-446, May 2002.
31. Kokich VG and Spear FM: Guidelines for managing the orthodontic - restorative patient. *Seminars in Orthodontics* 3(1): 3-20, March 1997.
32. Kokich VO and Kinzer GA: Managing the congenitally missing lateral incisor. Part I: Canine Substitution. *Journal of Esthetic and Restorative Dentistry* 17(1): 5-10, January 2005.
33. Kokich, VO, Kinzer GA, Janakievski J: Congenitally missing maxillary lateral incisor: restorative replacement. *American Journal of Orthodontics and Dentofacial Orthopedics* 139(4): 435-439, April 2011.
34. Kusy RP: A review of contemporary archwires: their properties and characteristics. *The Angle Orthodontist* 67(3): 197-208, June 1997.
35. Marquezan M, Mattos CT, Sant'Anna EF, et al: Does cortical thickness influence the primary stability of mini screws?: A systematic review and meta-analysis. *The Angle Orthodontist* 84(6): 1093-1103, November 2014.
36. Mathews DP and Kokich VG: Managing treatment for the orthodontic patient with periodontal problems. *Seminars in Orthodontics* 3(1): 21-38, March 1997.
37. McNamara JA, Baccetti T, Franchi L, et al: Rapid maxillary expansion followed by fixed appliances: a long-term evaluation of changes in arch dimensions. *The Angle Orthodontist* 73(4): 344-353, August 2003.
38. Melsen B: Biological reaction of alveolar bone to orthodontic tooth movement. *The Angle Orthodontist* 69(2): 151-158, May 1999.
39. Melsen B, Agerbaek M, Terp ES: New attachment through periodontal treatment and orthodontic intrusion. *American Journal of Orthodontics and Dentofacial Orthopedics* 94(2): 104-116, August 1988.

40. Meister M, Masella R, Jerrold L: Litigation, legislation, and ethics: an ethical dilemma. *American Journal of Orthodontics and Dentofacial Orthopedics* 114(3): 358-360, September 1998.
41. Meyer M and Nelson G: Preadjusted edgewise appliances: theory and practice. *American Journal of Orthodontics and Dentofacial Orthopedics* 73(5): 485-498, May 1978.
42. Mittal R, Relhan N, Tangri T: Remineralizing agents: a comprehensive review. *International Journal of Clinical Preventive Dentistry* 13(1): 1-4, March 2017.
43. Molen AD: Considerations in the use of cone-beam computed tomography for buccal bone measurements. *American Journal of Orthodontics and Dentofacial Orthopedics* 137(4Suppl): S130-135, April 2010.
44. Moss ML: The functional matrix hypothesis revisited; 1. The role of mechanotransduction. *American Journal of Orthodontics and Dentofacial Orthopedics* 112(1): 8-11, July 1997.
45. Moss ML: The functional matrix hypothesis revisited; 2. The role of an osseous connected cellular network. *American Journal of Orthodontics and Dentofacial Orthopedics* 112(2): 221- 226, August 1997.
46. Moss ML: The functional matrix hypothesis revisited; 3. The genomic thesis. *American Journal of Orthodontics and Dentofacial Orthopedics* 112(3): 338-342, September 1997.
47. Moss ML: The functional matrix hypothesis revisited; 4. The epigenetic antithesis and the resolving synthesis. *American Journal of Orthodontics and Dentofacial Orthopedics* 112(4): 410-417, October 1997.
48. Moss ML and Salentijn L: The primary role of functional matrices in facial growth. *American Journal of Orthodontics and Dentofacial Orthopedics* 55(6): 566-577, June 1969.
49. Mutinelli S, Manfredi M, Cozzani M: A mathematic-geometric model to calculate variation in mandibular arch form. *European Journal of Orthodontics* 22(2): 113-125, May 2000.
50. Neelapu BC, Kharbanda OP, Sardana HK, et al: Craniofacial and upper airway morphology in adult obstructive sleep apnea patients: a systematic review and meta-analysis of cephalometric studies. *Sleep Medicine Reviews* 31: 79-90, February 2017.
51. Nevant CT, Buschang PH, Alexander RG, et al: Lip bumper therapy for gaining arch length. *American Journal of Orthodontics and Dentofacial Orthopedics* 100(4): 330-336, October 1991.
52. Nilsson E, Bonte E, Bayet F, et al: Management of internal root resorption on permanent teeth. *International Journal of Dentistry* Vol 2013, Article ID 929486, 7 pages, 2013.

53. Nojima K, McLaughlin RP, Isshiki Y, et al: A comparative study of Caucasian and Japanese mandibular clinical arch forms. *The Angle Orthodontist* 71(3): 195-200, June 2001.
54. Northway WM and Meade JB: Surgically assisted rapid maxillary expansion: a comparison of technique, response, and stability. *The Angle Orthodontist* 67(4): 309-320, August 1997.
55. Nunn ME and Harrel SK: The effect of occlusal discrepancies on periodontitis. I. Relationship of initial occlusal discrepancies to initial clinical parameters. *Journal of Periodontology* 72(4): 485-494, April 2001.
56. Okeson JP: Evolution of occlusion and temporomandibular disorder in orthodontics: past, present, and future. *American Journal of Orthodontics and Dentofacial Orthopedics* 147(5 Suppl): S216-S223, May 2015.
57. Patel S, Ricucci D, Durak C, et al: Internal root resorption: a review. *Journal of Endodontics* 36(7): 1107-1121, July 2010.
58. Ribero DA: Cytogenetic biomonitoring in oral mucosa cells following dental x-ray. *Dentomaxillofacial Radiology* 41(3): 181-184, March 2012.
59. Rinchuse DJ and McMinn JT: Summary of evidence-based systematic reviews of temporomandibular disorders. *American Journal of Orthodontics and Dentofacial Orthopedics* 130(6): 715-720, December 2006.
60. Rossini G, Parrini S, Castroflorio T. et al: Periodontal health during clear aligners treatment: a systematic review. *European Journal of Orthodontics* 37(5): 539-543, October 2015.
61. Santagata M, Tozzi U, Lamart E, et al: Effect of orthognathic surgery on the posterior airway space in patients affected by skeletal Class III malocclusion. *Journal of Oral and Maxillofacial Surgery* 14(3): 682–686, September 2015.
62. Saridin CP, Raijmakers PGHM, Tuinzing DB, et al: Bone scintigraphy as a diagnostic method in unilateral hyperactivity of the mandibular condyles: a review and meta-analysis of the literature. *International Journal of Oral and Maxillofacial Surgery* 40(1): 11–17, January 2011.
63. Sarver DM. The importance of incisor positioning in the esthetic smile: the smile arc. *American Journal of Orthodontics and Dentofacial Orthopedics* 120 (2): 98–111, August 2001.
64. Scarfe WC and Farman AG: What is cone-beam CT and how does it work? *Dental Clinics of North America* 52(4):707-730, November 2008.
65. Scheffler NR, Proffit WR, Phillips C: Outcomes and stability in patients with anterior open bite and long anterior face height treated with temporary anchorage devices and a maxillary intrusion splint. *American Journal of Orthodontics and Dentofacial Orthopedics* 146(5): 594– 602, November 2014.

66. Schlicher W, Nielsen I, Huang JC, et al: Consistency and precision in landmark identification in three-dimensional cone beam computed tomography scans. *European Journal of Orthodontics* 34(3): 263-275, March 2011.
67. Sharma AA and Park JH: Esthetic considerations in interdental papilla: remediation and regeneration. *Journal of Esthetic and Restorative Dentistry* 22(1):18–30, January 2010.
68. Siara-Olds NJ, Pangrazio-Kulbersh V, Berger J, et al: Long-term dentoskeletal changes with the bionator, Herbst, twin block, and MARA functional appliances. *The Angle Orthodontist* 80(1): 18-29, January 2010.
69. Spear FM, Mathews DM, Kokich VG: Interdisciplinary Management of single tooth implant. *Seminars in Orthodontics* 3(1): 45-72, March 1997.
70. Sperry TP, Steinberg MJ, Gans BJ: Mandibular movement during autorotation as a result of maxillary impaction surgery. *American Journal of Orthodontics and Dentofacial Orthopedics* 81(2): 116–123, February 1982.
71. Steiner DR and West JD: Orthodontic-endodontic treatment planning of traumatized teeth. *Seminars in Orthodontics* 3(1): 39-44, March 1997.
72. Stroud JL, English J, Buschang PH: Enamel thickness of the posterior dentition: Its implications for nonextraction treatment. *The Angle Orthodontist* 68(2): 141-146, April 1998.
73. Suri L, Gagari E, Vastardis H: Delayed tooth eruption: pathogenesis, diagnosis, and treatment. A literature review. *American Journal of Orthodontics and Dentofacial Orthopedics* 126(4): 432-445, October 2004.
74. Taloumis LJ, Smith TM, Hondrum SO, et al: Force decay and deformation of orthodontic elastomeric ligatures *American Journal of Orthodontics and Dentofacial Orthopedics* 111(1): 1-11, January 1997.
75. Tarnow DP, Magner AW, Fletcher P: The effect of the distance from the contact point to the crest of bone on the presence or absence of the interproximal dental papilla. *Journal of Periodontology* 63(12): 995-996, December 1992.
76. Tasaki MM, Westesson PL, Isberg AM, et al: Classification and prevalence of temporomandibular joint displacement in patients and symptom-free volunteers. *American Journal of Orthodontics and Dentofacial Orthopedics* 109(3):249-262, March 1996.
77. Thilander B: Infrabony pockets and reduced alveolar bone height in relation to orthodontic therapy. *Seminars in Orthodontics* 2(1): 55-61, March 1996.
78. Titsas A and Ferguson MM: Impact of opioid use on dentistry. *Australian Dental Journal* 47(2): 94-98, June 2002.



79. Tronstad L: Root resorption-etiology, terminology and clinical manifestations. *Dental Traumatology* 4(6): 241-252, December 1988.
80. Tsukiboshi M: Autotransplantation of teeth: Requirements for predictable success. *Dental Traumatology* 18(4): 157-180, August 2002.
81. Tulloch JF, Proffit WR, Phillips C: Outcomes in a 2-phase randomized clinical trial of early class II treatment. *American Journal of Orthodontics and Dentofacial Orthopedics* 125(6): 657-667, June 2004.
82. Verweij JP, Moin DA, Mensink G, et al: Autotransplantation of premolars with a 3-dimensional printed titanium replica of the donor tooth functioning as a surgical guide: proof of concept. *Journal of Oral and Maxillofacial Surgery* 74(6): 1114-1119, June 2016.
83. Wang X, Wang B, Wang Y: Antibacterial orthodontic cement to combat biofilm and white spot lesions. *American Journal of Orthodontics and Dentofacial Orthopedics* 148(6): 974-981, December 2015.
84. Weltman B, Vig KWL, Fields HW, et al: Root resorption associated with orthodontic tooth movement: a systematic review. *American Journal of Orthodontics and Dentofacial Orthopedics* 137(4): 462-476, April 2010.
85. Wilcko MT, Wilcko WM, Pulver JJ, et al.: Accelerated osteogenic orthodontics technique: a 1-stage surgically facilitated rapid orthodontic technique with alveolar augmentation. *Journal of Oral and Maxillofacial Surgery* 67(10): 2149-2159, October 2009.
86. Witkop CJ: Amelogenesis imperfecta, dentinogenesis imperfecta and dentin dysplasia revisited: problems in classification. *Journal of Oral Pathology & Medicine* 17(9-10): 547-553, November 1988.
87. Wood R, Sun Z, Chaudhry J, et al: Factors affecting the accuracy of buccal alveolar bone height measurements from cone-beam computed tomography images. *American Journal of Orthodontics and Dentofacial Orthopedics* 143(3): 353-363, March 2013.
88. Zachrisson BU: Important aspects of long-term stability. *Journal of Clinical Orthodontics* 31(9): 562-583, September 1997.
89. Zahrowski JJ: Bisphosphonate treatment: an orthodontic concern calling for a proactive approach. *American Journal of Orthodontics and Dentofacial Orthopedics* 31(3): 311-320, March 2007.
90. Zambon JJ: *Actinobacillus actinomycetemcomitans* in human periodontal disease. *Journal of Clinical Periodontology* 12(1): 1-20, January 1985.