

SAUDI BOARD RESIDENCY TRAINING PROGRAM

ORTHODONTIC AND DENTOFACIAL ORTHOPEDICS

Promotion Examination

Written Examination Format:

- A written examination shall consist of one paper with not less than 100 MCQs with a single best answer (one correct answer out of four options). Up to 10% unscored items can be added for pretesting purposes.
- The examination shall contain type K2 questions (interpretation, analysis, reasoning and decision making) and type K1 questions (recall and comprehension).
- The examination shall include basic concepts and clinical topics relevant to the specialty.
- Clinical presentation questions include history, clinical finding and patient approach. Diagnosis and investigation questions; include the possible diagnosis and diagnostic methods. Management questions; including treatment and clinical management, either therapeutic or nontherapeutic, and complications of management. Materials and Instruments questions; including material properties, usage, and selection of instruments and equipment used. Health maintenance questions; include health promotion, disease prevention, risk factors assessment, and prognosis.



Passing Score:

The trainee's performance is assessed in each of the evaluation formulas according to the following scoring system:

Score	Less than 50%	50% – 59.4%	60% - 69.4%	More than 70%
Description	Clear Fail	Borderline Fail	Borderline Pass	Clear Pass

- 1. To upgrade the trainee from a training level to the next level, she/he must obtain at least a Borderline Pass in each evaluation form.
- 2. The program director may recommend to the local supervision committee to request the promotion of the trainee who did not meet the previous promotion requirement according to the following:
 - A. In case that the trainee gets a **Borderline Fail** result in one of the evaluation forms, the remaining evaluation forms must be passed with **Clear Pass** in at least one of them.
 - B. In case that the trainee gets a **Borderline Fail** result in two of the evaluation forms to a maximum, provided they do not fall under the same theme (Knowledge, Attitude, Skills). The remaining evaluation forms must be passed with **Clear Pass** in at least two of them.
 - C. The promotion must be approved in this case by the scientific council for the specialization.



Blueprint Outlines:

No.	Sections – R2	Percentage
1	Orthopedics: Class II, III Expansion and Vertical	22%
2	Treatment Rationale	10%
3	Anchorage and Extra-oral Force	8%
4	Tissue Reactions to Tooth Movement, Retentionand Relapse	5%
5	Speech, Swallowing, Respiratory, Soft tissue and Habits	5%
6	Orthognathic Surgery	20%
7	Interdisciplinary Treatment & Adult Orthodontics	20%
8	Occlusion and Temporomandibular Joint Disorders	5%
9	Behavioral Sciences	5%
	100%	

Notes:

- Blueprint distributions of the examination may differ up to +/-5% ineach section.
- Percentages and content are subject to change at any time. See theSCFHS website for the most up-to-date information.
- Research, Ethics, Professionalism, and Patient Safety are incorporated within various domains.



Suggested References

Speech, Swallowing, Respiratory Function and Habits

- 1. Johnson NC, Sandy JR. Tooth position and speech—is there a relationship? The Angle Orthodontist. 1999 Aug;69(4):306-10.
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- Behrents RG, Shelgikar AV, Conley RS, Flores-Mir c, Hans M, Levine M, McNamara JA, Palomo JM, Pliska B, Stockstill JW, Wise J.Obstructive sleep apnea and orthodontics: an American Association of Orthodontists White Paper. American journal of orthodontics and dentofacial orthopedics. 2019 Jul1;156(1):13-28.

Tissue Reactions to Tooth Movement

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- Zahrowski JJ. Bisphosphonate treatment: an orthodontic concern calling for aproactive approach. American Journal of Orthodontics and Dentofacial Orthopedics. 2007 Mar 1;131(3):311-20.

Treatment Rationale

- Bishara SE, Khadivi P, Jakobsen JR. Changes in tooth size—arch length relationships from the deciduous to the permanent dentition: A longitudinal study. American Journal of Orthodontics and Dentofacial Orthopedics. 1995 Dec 1;108(6):607-13.
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- 4. Stephens CK, Boley JC, Behrents RG, Alexander RG, Buschang PH. Long-term profile changes in extraction and nonextraction patients. American Journal of Orthodontics and Dentofacial Orthopedics. 2005 Oct 1;128(4):450-7.
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- Vilhjálmsson G, Zermeno JP, Proffit WR. Orthodontic treatment with removal of one mandibular incisor: Outcome data and the importance of extraction site preparation. American Journal of Orthodontics and Dentofacial Orthopedics. 2019 Oct 1;156(4):453-63
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- 9. Yezdani A, Nandhini N, Padmavati R. Serial extraction in orthodontics–A review.European Journal of Molecular & Clinical Medicine. 2020;7(2): 6432-6441.
- 10. O'Shaughnessy. Efficiency of serial extraction and late premolar extraction cases treated with fixed appliances. AJODO 139(4):510-16. Apr 2011.

Anchorage: Lip Bumper, Implants, Extraoral Force and Miniscrews

- Hodge JJ, Nanda RS, Ghosh J, Smith D. Forces produced by lip bumpers on mandibular molars. American journal of orthodontics and dentofacial orthopedics. 1997 Jun 1;111(6):613-22.
- 2. Poggio PM, Incorvati C, Velo S, Carano A. "Safe zones": a guide for miniscrewpositioning in the maxillary and mandibular arch. Angle Orthod. 2006 Mar;76(2):191-7.
- Papageorgiou SN, Zogakis IP, Papadopoulos MA. Failure rates and associated risk factors of orthodontic miniscrew implants: a meta-analysis. Am J OrthodDentofacial Orthop. 2012 Nov;142(5):577-595.e7.
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Orthopedics and Class II Treatment

- 1. Patel HP, Moseley HC, Noar JH. Cephalometric determinants of successful functional appliance therapy. The Angle Orthodontist. 2002 Oct;72(5):410-7.
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Orthopedics and Class III Treatment

- 1. Ghiz MA, Ngan P, Gunel E. Cephalometric variables to predict future success of early orthopedic Class III treatment. American Journal of Orthodontics and Dentofacial Orthopedics. 2005 Mar 1;127(3):301-6.
- 2. Liu W, Zhou Y, Wang X, Liu D, Zhou S. Effect of maxillary protraction with alternatingrapid palatal expansion and constriction vs expansion alone in maxillary retrusive patients: a single-center, randomized controlled trial. American Journal of Orthodontics and Dentofacial Orthopedics. 2015 Oct 1;148(4):641-51.

Orthopedics Expansion

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Vertical Dimension

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Soft Tissue

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Retention and Relapse

- 1. Zachrisson BU. Important aspects of long term stability. J Clin Orthod. 1997;31:562-83.
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- 3. Al-Moghrabi D, Littlewood SJ, Fleming PS. Orthodontic retention protocols: An evidence-based overview. British Dental Journal. 2021 Jun;230(11):770-6.

Interdisciplinary Treatment & Adult Orthodontics

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- Chapter 19: Special Considerations in Treatment for Adults: ContemporaryOrthodontics. William R. Proffit, Henry W. Fields Jr., Brent E. Larson ,David M. Sarver. 2019, 6th Edition, Mosby Inc., Saint Louis. ISBN 978-0-323-54387-3.
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orthodontics, implants, and prosthetics for an adult. AJOD0 2012 Aug;142(2):235-45.

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- 9. Kokich V. Esthetics and anterior tooth position: an orthodontic perspective. Part III: Mediolateral relationships. J Esthet Dent 1993;5(5):200–7.
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- 12. Pinho T, Neves M, Alves C. Multidisciplinary management including periodontics, orthodontics, implants, and prosthetics for an adult. AJOD0 2012 Aug;142(2):235–45.

Behavioral Science

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Occlusion and Temporomandibular Disorders

 Okeson JP: Management of Temporomandibular Disorders and Occlusion, ed8, Elsevier, 2019.

Orthognathic Surgery

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- Chapter 20: Combined Surgical and Orthodontic Treatment : ContemporaryOrthodontics. William R. Proffit, Henry W. Fields Jr., David M. Sarver. 2019, 6th Edition, Mosby Inc., Saint Louis. ISBN: 978-0-323-54387-3.

Note:

This list is intended for use as a study aid only. SCFHS does not intend the list toimply endorsement of these specific references, nor are the exam questions necessarily taken solely from these sources from these sources.