Preclinical Endodontics

Year 2 — Bachelor of Dental Surgery

Reference and Resource List — Chapters 1 to 9

Supporting the MCQ, SBA, SAQ and flashcard question bank

BM Education FZE

Disclaimer

Questions in this bank were generated with the assistance of artificial intelligence and reviewed against the references listed. They are provided for educational revision only, are not a substitute for prescribed textbooks, clinical guidelines or supervised clinical training, and no warranty is given as to their accuracy or completeness.

References are presented in Vancouver style. Part 1 lists the core sources that apply across the whole subject; Part 2 lists, for each chapter, the relevant sections of those core texts together with sources specific to that chapter. Numbers in square brackets in Part 2 refer to the core list in Part 1.

PART 1 — CORE REFERENCES (ALL CHAPTERS)

1.1 Principal endodontic textbooks

1. Hargreaves KM, Berman LH, editors. Cohen's Pathways of the Pulp. 12th ed. St Louis: Elsevier; 2020.
2. Torabinejad M, Fouad AF, Shabahang S, editors. Endodontics: Principles and Practice. 6th ed. St Louis: Elsevier; 2020.
3. Rotstein I, Ingle JI, editors. Ingle's Endodontics. 7th ed. Raleigh (NC): PMPH USA; 2019.
4. Patel S, Barnes JJ. The Principles of Endodontics. 3rd ed. Oxford: Oxford University Press; 2019.
5. Chong BS, editor. Harty's Endodontics in Clinical Practice. 7th ed. Edinburgh: Elsevier; 2016.
6. Chandra BS, Gopikrishna V. Grossman's Endodontic Practice. 14th ed. New Delhi: Wolters Kluwer; 2020.
7. Garg N, Garg A. Textbook of Endodontics. 4th ed. New Delhi: Jaypee Brothers Medical Publishers; 2019.
8. Ricucci D, Siqueira JF Jr. Endodontology: An Integrated Biological and Clinical View. London: Quintessence Publishing; 2013.
9. Castellucci A. Endodontics. Vols 1-2. Florence: Il Tridente; 2004-2005.

1.2 Dental anatomy, oral biology and tooth morphology

10. Nelson SJ. Wheeler's Dental Anatomy, Physiology and Occlusion. 11th ed. St Louis: Elsevier; 2020.
11. Scheid RC, Weiss G. Woelfel's Dental Anatomy. 9th ed. Philadelphia: Wolters Kluwer; 2017.
12. Berkovitz BKB, Holland GR, Moxham BJ. Oral Anatomy, Histology and Embryology. 5th ed. Edinburgh: Elsevier; 2017.
13. Nanci A. Ten Cate's Oral Histology: Development, Structure, and Function. 10th ed. St Louis: Elsevier; 2024.
14. Fehrenbach MJ, Popowics T. Illustrated Dental Embryology, Histology and Anatomy. 5th ed. St Louis: Elsevier; 2020.

15. Versiani MA, Basrani B, Sousa-Neto MD, editors. The Root Canal Anatomy in Permanent Dentition. Cham: Springer; 2019.

1.3 Operative dentistry and preclinical technique

16. Ritter AV, Boushell LW, Walter R, editors. Sturdevant's Art and Science of Operative Dentistry. 7th ed. St Louis: Elsevier; 2019.
17. Banerjee A, Watson TF. Pickard's Guide to Minimally Invasive Operative Dentistry. 10th ed. Oxford: Oxford University Press; 2015.
18. Summitt JB, Robbins JW, Hilton TJ, Schwartz RS, editors. Fundamentals of Operative Dentistry: A Contemporary Approach. 4th ed. Chicago: Quintessence Publishing; 2013.

1.4 Supporting pathology, microbiology and radiology

19. Odell EW. Cawson's Essentials of Oral Pathology and Oral Medicine. 10th ed. Edinburgh: Elsevier; 2024.
20. Neville BW, Damm DD, Allen CM, Chi AC. Oral and Maxillofacial Pathology. 5th ed. St Louis: Elsevier; 2023.
21. Marsh PD, Lewis MAO, Rogers H, Williams DW, Wilson M. Marsh and Martin's Oral Microbiology. 6th ed. Edinburgh: Elsevier; 2016.
22. Whaites E, Drage N. Essentials of Dental Radiography and Radiology. 6th ed. Edinburgh: Elsevier; 2021.

1.5 Guidelines, standards and regulatory sources

23. European Society of Endodontology. Quality guidelines for endodontic treatment: consensus report of the European Society of Endodontology. Int Endod J. 2006;39(12):921-30.
24. De Moor R, Hulsmann M, Kirkevang LL, Tanalp J, Whitworth J. Undergraduate curriculum guidelines for endodontology. Int Endod J. 2013;46(12):1105-14.
25. American Association of Endodontists. Glossary of Endodontic Terms. 10th ed. Chicago: AAE; 2020. Available from: https://www.aae.org
26. American Association of Endodontists. Guide to Clinical Endodontics. 6th ed. Chicago: AAE; 2013. Available from: https://www.aae.org
27. Faculty of General Dental Practice (UK). Selection Criteria for Dental Radiography. 3rd ed. London: FGDP(UK); 2018.
28. Scottish Dental Clinical Effectiveness Programme. Clinical guidance in dentistry. Dundee: SDCEP. Available from: https://www.sdcep.org.uk
29. Department of Health. Health Technical Memorandum 01-05: Decontamination in primary care dental practices. London: DH; 2013. Available from: https://www.gov.uk
30. General Dental Council. Preparing for practice: dental team learning outcomes for registration. London: GDC; 2015. Available from: https://www.gdc-uk.org
31. Dental Council of India. Bachelor of Dental Surgery (BDS) Course Regulations, 2007 (as amended). New Delhi: DCI.

1.6 Key journals for currency

International Endodontic Journal · Journal of Endodontics · Australian Endodontic Journal · European Endodontic Journal · Endodontic Topics · Journal of Conservative Dentistry · Journal of Dentistry · Clinical Oral Investigations · British Dental Journal · Journal of Dental Research

PART 2 — CHAPTER-SPECIFIC REFERENCES

Chapter 1 — Introduction to Endodontics (Preclinical Orientation)

1.1 Definition, scope and goals · 1.2 The endodontic triad · 1.3 Indications for root canal treatment

> **Core texts:** [1] Ch. 1 (The scope of endodontics) · [2] Ch. 1 (Introduction and diagnosis) · [3] Introductory chapters · [4] Ch. 1 · [5] Ch. 1 · [6] Ch. 1 · [7] Ch. 1 · [24] · [25] · [26]

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- Kakehashi S, Stanley HR, Fitzgerald RJ. The effects of surgical exposures of dental pulps in germ-free and conventional laboratory rats. Oral Surg Oral Med Oral Pathol. 1965;20(3):340-9.
- Sundqvist G. Ecology of the root canal flora. J Endod. 1992;18(9):427-30.
- Sjogren U, Hagglund B, Sundqvist G, Wing K. Factors affecting the long-term results of endodontic treatment. J Endod. 1990;16(10):498-504.
- Ng YL, Mann V, Rahbaran S, Lewsey J, Gulabivala K. Outcome of primary root canal treatment: systematic review of the literature - Part 1. Effects of study characteristics on probability of success. Int Endod J. 2007;40(12):921-39.
- Ng YL, Mann V, Gulabivala K. A prospective study of the factors affecting outcomes of non-surgical root canal treatment: part 1: periapical health. Int Endod J. 2011;44(7):583-609.
- American Association of Endodontists. AAE Consensus Conference recommended diagnostic terminology. J Endod. 2009;35(12):1634.
- Friedman S, Mor C. The success of endodontic therapy: healing and functionality. J Calif Dent Assoc. 2004;32(6):493-503.
- Setzer FC, Kim S. Comparison of long-term survival of implants and endodontically treated teeth. J Dent Res. 2014;93(1):19-26.

Chapter 2 — Basic Dental Pulp and Periapical Biology (Applied)

2.1 Pulp anatomy · 2.2 Pulp physiology relevant to access · 2.3 Periapical tissues

> **Core texts:** [1] Chs. on structure and functions of the dentine-pulp complex and pathobiology of the periapex · [2] Chs. on pulp and periradicular biology · [8] · [13] Chs. on dentinogenesis and the dentine-pulp complex · [12] · [20] · [21]

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- Goga R, Chandler NP, Oginni AO. Pulp stones: a review. Int Endod J. 2008;41(6):457-68.

Chapter 3 — Tooth Morphology for Endodontics

3.1 Pulp chamber anatomy principles · 3.2 Root canal anatomy principles · 3.3 Tooth-wise endodontic anatomy (anteriors, premolars, molars)

> **Core texts:** [1] Ch. on internal anatomy · [2] Ch. on tooth morphology and access cavity preparation · [3] · [10] · [11] · [15] · [9]

Additional

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- Vertucci FJ. Root canal morphology and its relationship to endodontic procedures. Endod Topics. 2005;10(1):3-29.
- Weine FS, Healey HJ, Gerstein H, Evanson L. Canal configuration in the mesiobuccal root of the maxillary first molar and its endodontic significance. Oral Surg Oral Med Oral Pathol. 1969;28(3):419-25.
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- Zillich R, Dowson J. Root canal morphology of mandibular first and second premolars. Oral Surg Oral Med Oral Pathol. 1973;36(5):738-44.
- Kartal N, Yanikoglu FC. Root canal morphology of mandibular incisors. J Endod. 1992;18(11):562-4.
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- Schneider SW. A comparison of canal preparations in straight and curved root canals. Oral Surg Oral Med Oral Pathol. 1971;32(2):271-5.

Chapter 4 — Armamentarium for Access Cavity Preparation

4.1 Diagnostic aids · 4.2 Isolation · 4.3 Access instruments · 4.4 Basic endodontic instruments

> **Core texts:** [1] Chs. on armamentarium, isolation and radiographic interpretation · [2] Ch. on instruments and armamentarium · [3] · [5] · [6] · [7] · [22] · [26] · [28]

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- Ahmad IA. Rubber dam usage for endodontic treatment: a review. Int Endod J. 2009;42(11):963-72.
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- Plotino G, Pameijer CH, Grande NM, Somma F. Ultrasonics in endodontics: a review of the literature. J Endod. 2007;33(2):81-95.
- Boutsioukis C, Verhaagen B, Versluis M, Kastrinakis E, Wesselink PR, van der Sluis LWM. Evaluation of irrigant flow in the root canal using different needle types by an unsteady computational fluid dynamics model. J Endod. 2010;36(5):875-9.
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- Walsh LJ. Ultrasonic and sonic instrumentation in endodontics: a review of contemporary applications. Aust Endod J. 2022;48(1):5-19.

Chapter 5 — Principles of Access Cavity Preparation (Core Chapter)

5.1 Objectives of access · 5.2 Ideal access cavity features · 5.3 Steps of access preparation · 5.4 Laws of pulp chamber anatomy · 5.5 Access depth and anatomical landmarks · 5.6 Traditional versus conservative access designs

> **Core texts:** [1] Ch. on access cavity preparation and tooth morphology · [2] Ch. on access cavity preparation · [3] · [4] · [5] · [6] · [7] · [17] · [18]

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- Patel S, Rhodes J. A practical guide to endodontic access cavity preparation in molar teeth. Br Dent J. 2007;203(3):133-40.
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Chapter 6 — Tooth-wise Access Cavity Outlines

6.1 Maxillary anterior teeth · 6.2 Mandibular anterior teeth · 6.3 Maxillary premolars · 6.4 Mandibular premolars · 6.5 Maxillary molars · 6.6 Mandibular molars

> **Core texts:** [1] Access cavity chapters (tooth-by-tooth outlines) · [2] Ch. on access cavity preparation · [3] · [5] · [6] · [7] · [9] · [10] · [11] · [15]

Additional

- Slowey RR. Root canal anatomy: road map to successful endodontics. Dent Clin North Am. 1979;23(4):555-73.
- Wilcox LR, Walton RE, Case WB. Molar access: shape and outline according to orifice locations. J Endod. 1989;15(7):315-18.
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- Fan B, Cheung GSP, Fan M, Gutmann JL, Fan W. C-shaped canal system in mandibular second molars: Part II - radiographic features. J Endod. 2004;30(12):904-8.
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- Skidmore AE, Bjorndal AM. Root canal morphology of the human mandibular first molar. Oral Surg Oral Med Oral Pathol. 1971;32(5):778-84.

Chapter 7 — Orifice Location and Canal Negotiation (Introductory Level)

7.1 Orifice location techniques · 7.2 Canal patency and glide path · 7.3 Common anatomical challenges

> **Core texts:** [1] Chs. on access, cleaning and shaping · [2] Chs. on access and canal preparation · [3] · [5] · [7] · [8] · [15]

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- Cantatore G, Berutti E, Castellucci A. Missed anatomy: frequency and clinical impact. Endod Topics. 2006;15(1):3-31.
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Chapter 8 — Errors and Complications in Access Cavity Preparation

8.1 Common procedural errors · 8.2 Prevention of errors · 8.3 Management awareness

> **Core texts:** [1] Ch. on procedural accidents · [2] Ch. on procedural accidents and their management · [3] · [5] · [6] · [7] · [22]

Additional

- Kvinnsland I, Oswald RJ, Halse A, Gronningsaeter AG. A clinical and roentgenological study of 55 cases of root perforation. Int Endod J. 1989;22(2):75-84.
- Fuss Z, Trope M. Root perforations: classification and treatment choices based on prognostic factors. Endod Dent Traumatol. 1996;12(6):255-64.
- Tsesis I, Fuss Z. Diagnosis and treatment of accidental root perforations. Endod Topics. 2006;13(1):95-107.

- Jafarzadeh H, Abbott PV. Ledge formation: review of a great challenge in endodontics. J Endod. 2007;33(10):1155-62.
- Greene KJ, Krell KV. Clinical factors associated with ledged canals in maxillary and mandibular molars. Oral Surg Oral Med Oral Pathol. 1990;70(4):490-7.
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- Torabinejad M, Parirokh M, Dummer PMH. Mineral trioxide aggregate and other bioactive endodontic cements: an updated overview - part II: other clinical applications and complications. Int Endod J. 2018;51(3):284-317.
- Eleftheriadis GI, Lambrianidis TP. Technical quality of root canal treatment and detection of iatrogenic errors in an undergraduate dental clinic. Int Endod J. 2005;38(10):725-34.
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- Lambrianidis T, editor. Management of Fractured Endodontic Instruments: A Clinical Guide. Cham: Springer; 2018.

Chapter 9 — Temporary Restoration and Coronal Seal (Introductory Level)

9.1 Importance of coronal seal · 9.2 Temporary materials · 9.3 Preclinical cavity closure

> **Core texts:** [1] Chs. on temporisation and restoration of the endodontically treated tooth · [2] Ch. on restoration of endodontically treated teeth · [3] · [5] · [7] · [17] · [18] · [19]

Additional

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- Gillen BM, Looney SW, Gu LS, Loushine BA, Weller RN, Loushine RJ, et al. Impact of the quality of coronal restoration versus the quality of root canal fillings on success of root canal treatment: a systematic review and meta-analysis. J Endod. 2011;37(7):895-902.
- Pratt I, Aminoshariae A, Montagnese TA, Williams KA, Khalighinejad N, Mickel A. Eight-year retrospective study of the critical time lapse between root canal completion and crown placement. J Endod. 2016;42(11):1598-603.

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