Prosthodontics II (Fixed Prosthodontics)

Year 4 — Bachelor of Dental Surgery

Reference and Resource List — Chapters 3.1 to 3.14

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 sources 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 textbooks

1. Rosenstiel SF, Land MF, Fujimoto J. Contemporary Fixed Prosthodontics. 5th ed. St Louis: Elsevier; 2016.
2. Shillingburg HT, Sather DA, Wilson EL, Cain JR, Mitchell DL, Blanco LJ, et al. Fundamentals of Fixed Prosthodontics. 4th ed. Chicago: Quintessence Publishing; 2012.
3. Sakaguchi RL, Ferracane JL, Powers JM. Craig's Restorative Dental Materials. 14th ed. St Louis: Elsevier; 2019.
4. Anusavice KJ, Shen C, Rawls HR, editors. Phillips' Science of Dental Materials. 12th ed. St Louis: Elsevier Saunders; 2013.
5. Misch CE. Dental Implant Prosthetics. 2nd ed. St Louis: Elsevier Mosby; 2015.
6. Okeson JP. Management of Temporomandibular Disorders and Occlusion. 8th ed. St Louis: Elsevier; 2019.
7. Dawson PE. Functional Occlusion: From TMJ to Smile Design. St Louis: Mosby; 2007.
8. Carr AB, Brown DT. McCracken's Removable Partial Prosthodontics. 13th ed. St Louis: Elsevier; 2016.
9. Zarb GA, Hobkirk JA, Eckert SE, Jacob RF, editors. Prosthodontic Treatment for Edentulous Patients: Complete Dentures and Implant-Supported Prostheses. 13th ed. St Louis: Elsevier; 2013.

1.2 Terminology, standards and curricular sources

10. The Glossary of Prosthodontic Terms: ninth edition. J Prosthet Dent. 2017;117(5S):e1–e105.
11. American College of Prosthodontists. Parameters of care for the specialty of prosthodontics. J Prosthodont. 2005;14(4 Suppl):3–62.
12. General Dental Council. Preparing for Practice: Dental Team Learning Outcomes for Registration. London: GDC; 2015. Available from: https://www.gdc-uk.org
13. Association for Dental Education in Europe. The graduating European dentist: a new undergraduate curriculum framework. Eur J Dent Educ. 2017;21 Suppl 1:2–10.
14. Dental Council of India. Bachelor of Dental Surgery (BDS) Course Regulations, 2007 (as amended). New Delhi: DCI.

1.3 Key reviews and outcome studies cited across chapters

15. Goodacre CJ, Bernal G, Rungcharassaeng K, Kan JY. Clinical complications in fixed prosthodontics. J Prosthet Dent. 2003;90(1):31–41.
16. Goodacre CJ, Campagni WV, Aquilino SA. Tooth preparations for complete crowns: an art form based on scientific principles. J Prosthet Dent. 2001;85(4):363–76.
17. Tan K, Pjetursson BE, Lang NP, Chan ESY. A systematic review of the survival and complication rates of fixed partial dentures (FPDs) after an observation period of at least 5 years. Clin Oral Implants Res. 2004;15(6):654–66.
18. Pjetursson BE, Brägger U, Lang NP, Zwahlen M. Comparison of survival and complication rates of tooth-supported fixed dental prostheses (FDPs) and implant-supported FDPs and single crowns (SCs). Clin Oral Implants Res. 2007;18 Suppl 3:97–113.
19. Pjetursson BE, Sailer I, Zwahlen M, Hämmerle CH. A systematic review of the survival and complication rates of all-ceramic and metal-ceramic reconstructions after an observation period of at least 3 years. Part I: single crowns. Clin Oral Implants Res. 2007;18 Suppl 3:73–85.
20. Hill EE. Dental cements for definitive luting: a review and practical clinical considerations. Dent Clin North Am. 2007;51(3):643–58.
21. Pegoraro TA, da Silva NRFA, Carvalho RM. Cements for use in esthetic dentistry. Dent Clin North Am. 2007;51(2):453–71.
22. Pameijer CH. A review of luting agents. Int J Dent. 2012;2012:752861.
23. Blatz MB, Sadan A, Kern M. Resin-ceramic bonding: a review of the literature. J Prosthet Dent. 2003;89(3):268–74.

1.4 Key journals for currency

Journal of Prosthetic Dentistry · International Journal of Prosthodontics · Journal of Prosthodontics · Clinical Oral Implants Research · Dental Materials · Dental Clinics of North America · Quintessence International · Journal of Oral Rehabilitation · British Dental Journal · Journal of the American Dental Association

PART 2 — CHAPTER-SPECIFIC REFERENCES

Chapter 3.1 — Foundations of Fixed Prosthodontics (Clinical Undergraduate Level)

Core references: [1] Introductory chs. on the scope and principles of fixed prosthodontics · [2] · [9] · [10] · [15] · [16] · [19]

Additional

- De Backer H, Van Maele G, De Moor N, Van den Berghe L. The influence of gender and age on fixed prosthetic restoration longevity: an up to 18- to 20-year follow-up in an undergraduate clinic. Int J Prosthodont. 2007;20(6):579–86.
- Reitemeier B, Hänsel K, Kastner C, Weber A, Walter MH. A prospective 10-year study of metal ceramic single crowns and fixed dental prosthesis retainers in private practice settings. J Prosthet Dent. 2013;109(3):149–55.
- Kern M. Fifteen-year survival of anterior all-ceramic cantilever resin-bonded fixed dental prostheses. J Dent. 2017;56:133–5.

Chapter 3.2 — Diagnosis, Case Assessment and Treatment Planning for Fixed Prosthodontics

Core references: [1] Chs. on history, examination, diagnosis and treatment planning · [2] · [7] · [8] · [10] · [11] · [15] · [17] · [18]

Additional

- Lang NP, Tonetti MS. Periodontal risk assessment (PRA) for patients in supportive periodontal therapy (SPT). Oral Health Prev Dent. 2003;1(1):7–16.

Chapter 3.3 — Dental Materials for Fixed Prosthodontics: PFM Systems and Cements

3.3.1 PFM systems · 3.3.2 Full metal restorations · 3.3.3 All-ceramic introduction (where included in Year 4) · 3.3.4 Luting agents (core)

Core references: [3] Chs. on casting alloys, ceramics and cements · [4] Chs. on noble and base-metal alloys, dental ceramics and luting agents · [1] · [20] · [21] · [22]

Additional

- Kelly JR, Benetti P. Ceramic materials in dentistry: historical evolution and current practice. Aust Dent J. 2011;56 Suppl 1:84–96.
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- Blatz MB. Long-term clinical success of all-ceramic posterior restorations. Quintessence Int. 2002;33(6):415–26.

Chapter 3.4 — Tooth Preparation for Single Crowns

Core references: [2] Chs. on principles of tooth preparation and preparations for full-veneer, metal-ceramic and all-ceramic crowns · [1] · [16]

Additional

- Parker MH, Calverley MJ, Gardner FM, Gunderson RB. New guidelines for preparation taper. J Prosthodont. 1993;2(1):61–6.
- Mack PJ. A theoretical and clinical investigation into the taper achieved on crown and inlay preparations. J Oral Rehabil. 1980;7(3):255–65.
- Tiu J, Al-Amleh B, Waddell JN, Duncan WJ. Clinical tooth preparations and associated measuring methods: a systematic review. J Prosthet Dent. 2015;113(3):175–84.
- Dodge WW, Weed RM, Baez RJ, Buchanan RN. The effect of convergence angle on retention and resistance form. Quintessence Int. 1985;16(3):191–4.
- Pilo R, Cardash HS. In vivo retrospective study of cement thickness under crowns. J Prosthet Dent. 1998;79(6):621–5.
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- Reeh ES, Messer HH, Douglas WH. Reduction in tooth stiffness as a result of endodontic and restorative procedures. J Endod. 1989;15(11):512–6.

Chapter 3.5 — Provisional Restorations (Temporization)

3.5.1 Objectives · 3.5.2 Techniques · 3.5.3 Materials · 3.5.4 Provisional contour and emergence profile

Core references: [1] Ch. on interim fixed restorations · [2] Ch. on provisional restorations · [5]

Additional

- Burns DR, Beck DA, Nelson SK. A review of selected dental literature on contemporary provisional fixed prosthodontic treatment: report of the Committee on Research in Fixed Prosthodontics of the Academy of Fixed Prosthodontics. J Prosthet Dent. 2003;90(5):474–97.
- Regish KM, Sharma D, Prithviraj DR. Techniques of fabrication of provisional restoration: an overview. Int J Dent. 2011;2011:134659.
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- Wassell RW, St George G, Ingledew RP, Steele JG. Crowns and other extra-coronal restorations: provisional restorations. Br Dent J. 2002;192(11):619–30.

Chapter 3.6 — Gingival Retraction and Soft Tissue Management for Impressions

3.6.1 Retraction goals · 3.6.2 Retraction methods · 3.6.3 Impression timing and tissue trauma prevention

Core references: [1] Ch. on tissue management and impression making · [2] Ch. on fluid control and soft tissue management

Additional

- Donovan TE, Chee WWL. Current concepts in gingival displacement. Dent Clin North Am. 2004;48(2):433–44.
- Bennani V, Schwass D, Chandler N. Gingival retraction techniques for implants versus teeth: current status. J Am Dent Assoc. 2008;139(10):1354–63.
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Chapter 3.7 — Impression Techniques for Crowns and Bridges (Conventional Core)

3.7.1 Requirements of an ideal impression · 3.7.2 Impression materials · 3.7.3 Impression techniques · 3.7.4 Impression trays · 3.7.5 Disinfection and dispatch to lab

Core references: [1] Ch. on impression making · [2] Ch. on impressions · [3] Ch. on impression materials · [4] Ch. on elastomeric impression materials

Additional

- Chee WWL, Donovan TE. Polyvinyl siloxane impression materials: a review of properties and techniques. J Prosthet Dent. 1992;68(5):728–32.
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- Centers for Disease Control and Prevention. Guidelines for infection control in dental health-care settings, 2003. MMWR Recomm Rep. 2003;52(RR-17):1–61.

Chapter 3.8 — Jaw Relations, Interocclusal Records and Articulation

3.8.1 Interocclusal records · 3.8.2 Articulation

Core references: [6] Chs. on functional anatomy and occlusion · [7] · [1] Chs. on articulators and interocclusal records · [2] · [10]

Additional

- Baba K, Tsukiyama Y, Clark GT. Reliability, validity, and utility of various occlusal measurement methods and techniques. J Prosthet Dent. 2000;83(1):83–9.
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Chapter 3.9 — Fixed Partial Dentures (FPDs / Bridges): Core Year 4

3.9.1 Definitions and classification · 3.9.2 Indications and contraindications · 3.9.3 Biomechanics of FPDs · 3.9.4 Abutment preparation for FPDs · 3.9.5 Pontic design · 3.9.6 Connector design · 3.9.7 Clinical steps in FPD fabrication

Core references: [1] Chs. on FPD configurations, pontic design and connectors · [2] Chs. on treatment planning for the replacement of missing teeth, pontics and resin-bonded FPDs · [10] · [15] · [17] · [18]

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Chapter 3.10 — Laboratory Stages and Try-In Appointments for PFM Restorations

3.10.1 Lab prescription writing · 3.10.2 Try-in stages · 3.10.3 Common try-in errors and correction

Core references: [1] Chs. on communication with the laboratory, colour science, metal-ceramic restorations and evaluation/finishing · [2] Chs. on working casts, wax patterns, casting and metal-ceramics

Additional

- McLean JW. The Science and Art of Dental Ceramics. Volume II: Bridge Design and Laboratory Procedures in Dental Ceramics. Chicago: Quintessence Publishing; 1980.
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- Della Bona A, Kelly JR. The clinical success of all-ceramic restorations. J Am Dent Assoc. 2008;139 Suppl:8S–13S.
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Chapter 3.11 — Cementation of Crowns and Bridges

3.11.1 Pre-cementation preparation · 3.11.2 Cement selection · 3.11.3 Cementation procedure · 3.11.4 Post-cementation complications

Core references: [1] Ch. on luting agents and cementation procedures · [3] Ch. on cements · [4] Ch. on dental cements · [20] · [21] · [22] · [23]

Additional

- Rosenstiel SF, Land MF, Crispin BJ. Dental luting agents: a review of the current literature. J Prosthet Dent. 1998;80(3):280–301.
- Piwowarczyk A, Lauer HC. Mechanical properties of luting cements after water storage. Oper Dent. 2003;28(5):535–42.
- Ferracane JL, Stansbury JW, Burke FJT. Self-adhesive resin cements — chemistry, properties and clinical considerations. J Oral Rehabil. 2011;38(4):295–314.

Chapter 3.12 — Failures, Maintenance and Repairs

Core references: [1] Ch. on post-operative care and complications · [15] · [17] · [18] · [19] · [23]

Additional

- Sailer I, Makarov NA, Thoma DS, Zwahlen M, Pjetursson BE. All-ceramic or metal-ceramic tooth-supported fixed dental prostheses (FDPs)? A systematic review of the survival and complication rates. Part I: single crowns (SCs). Dent Mater. 2015;31(6):603–23.
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Chapter 3.13 — Implant Prosthodontics: Introduction

Core references: [5] Introductory chs. on osseointegration, treatment planning and implant prosthesis options · [9] Chs. on implant-supported prostheses · [18]

Additional

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Chapter 3.14 — Clinical Competencies, OSCE and Viva Headings

3.14.1 Core competencies · 3.14.2 Common OSCE / viva topics

Core references: [1] · [2] · [10] · [11] · [12] · [13] · [14]

Additional

- Harden RM, Gleeson FA. Assessment of clinical competence using an objective structured clinical examination (OSCE). Med Educ. 1979;13(1):41–54.
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- Epstein RM. Assessment in medical education. N Engl J Med. 2007;356(4):387–96.

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