Prosthodontics III

Year 5 — Bachelor of Dental Surgery

Reference and Resource List — Chapters 1 to 20

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 prosthodontic and occlusion textbooks

1. Rosenstiel SF, Land MF, Walter R. Contemporary Fixed Prosthodontics. 6th ed. St Louis: Elsevier; 2023.
2. Shillingburg HT, Sather DA, Wilson EL, et al. Fundamentals of Fixed Prosthodontics. 4th ed. Chicago: Quintessence Publishing; 2012.
3. Nallaswamy D. Textbook of Prosthodontics. 2nd ed. New Delhi: Jaypee Brothers Medical Publishers; 2017.
4. Carr AB, Brown DT. McCracken's Removable Partial Prosthodontics. 14th ed. St Louis: Elsevier; 2022.
5. Dawson PE. Functional Occlusion: From TMJ to Smile Design. St Louis: Mosby Elsevier; 2007.
6. Wassell R, Naru A, Steele J, Nohl F. Applied Occlusion. 2nd ed. London: Quintessence Publishing; 2015.
7. Fradeani M. Esthetic Rehabilitation in Fixed Prosthodontics. Volume 1: Esthetic Analysis. Chicago: Quintessence Publishing; 2004.
8. Magne P, Belser U. Bonded Porcelain Restorations in the Anterior Dentition: A Biomimetic Approach. Chicago: Quintessence Publishing; 2002.

1.2 Implant dentistry and dental materials

9. Resnik RR, editor. Misch's Contemporary Implant Dentistry. 4th ed. St Louis: Elsevier; 2021.
10. Berglundh T, Giannobile WV, Lang NP, Sanz M, editors. Lindhe's Clinical Periodontology and Implant Dentistry. 7th ed. Hoboken: Wiley Blackwell; 2022.
11. Shen C, Rawls HR, Esteban JF, editors. Phillips' Science of Dental Materials. 13th ed. St Louis: Elsevier; 2022.
12. Sakaguchi RL, Ferracane J, Powers JM, editors. Craig's Restorative Dental Materials. 14th ed. St Louis: Elsevier; 2019.

1.3 Terminology, classification and consensus statements

13. The Glossary of Prosthodontic Terms 2023: tenth edition. J Prosthet Dent. 2023;130(4 Suppl 1):e1–126.
14. Albrektsson T, Zarb G, Worthington P, Eriksson AR. The long-term efficacy of currently used dental implants: a review and proposed criteria of success. Int J Oral Maxillofac Implants. 1986;1(1):11–25.
15. Berglundh T, Armitage G, Araujo MG, Avila-Ortiz G, Blanco J, Camargo PM, et al. Peri-implant diseases and conditions: consensus report of workgroup 4 of the 2017 World Workshop. J Clin Periodontol. 2018;45 Suppl 20:S286–91.
16. Feine JS, Carlsson GE, Awad MA, Chehade A, Duncan WJ, Gizani S, et al. The McGill consensus statement on overdentures. Mandibular two-implant overdentures as first choice standard of care for edentulous patients. Int J Oral Maxillofac Implants. 2002;17(4):601–2.
17. Bartlett D, Ganss C, Lussi A. Basic Erosive Wear Examination (BEWE): a new scoring system for scientific and clinical needs. Clin Oral Investig. 2008;12 Suppl 1:S65–8.

1.4 Guidelines, regulatory and professional standards

18. General Dental Council. Standards for the Dental Team. London: GDC; 2013. Available from: https://www.gdc-uk.org
19. Faculty of General Dental Practice (UK). Training Standards in Implant Dentistry. London: FGDP(UK); 2012 (revised 2016). Available from: https://cgdent.uk
20. European Commission. Radiation Protection 172: Cone beam CT for dental and maxillofacial radiology — evidence-based guidelines. Luxembourg: European Commission; 2012.
21. Council of the European Union. Council Directive 2011/84/EU on hydrogen peroxide in tooth whitening products. Official Journal of the European Union. 2011;L283:36–8.
22. Dental Council of India. Bachelor of Dental Surgery (BDS) Course Regulations, 2007 (as amended). New Delhi: DCI.

1.6 Key journals for currency

Journal of Prosthetic Dentistry · International Journal of Prosthodontics · Journal of Prosthodontics · Clinical Oral Implants Research · International Journal of Oral & Maxillofacial Implants · Journal of Dentistry · Dental Materials · Journal of Esthetic and Restorative Dentistry · Clinical Implant Dentistry and Related Research · British Dental Journal

PART 2 — CHAPTER-SPECIFIC REFERENCES

Chapter 1 — Advanced Fixed Prosthodontic Treatment Planning

1.1 Comprehensive prosthodontic assessment · 1.2 Diagnostic records · 1.3 Treatment planning principles · 1.4 Interdisciplinary planning

Core texts: [1] Chs. on history and clinical examination, diagnostic casts and related procedures, and treatment planning · [2] Chs. on treatment planning and diagnostic procedures · [3] Chs. on diagnosis and treatment planning in fixed prosthodontics · [7] Chs. on facial, dentolabial and phonetic analysis · [13] · [18] · [20]

Additional

- Newsome P, Smales R, Yip K. Oral diagnosis and treatment planning: part 1. Introduction. Br Dent J. 2012;213(1):15–19.
- Spear FM, Kokich VG. A multidisciplinary approach to esthetic dentistry. Dent Clin North Am. 2007;51(2):487–505.
- 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.
- Faculty of General Dental Practice (UK). Selection Criteria for Dental Radiography. 3rd ed. London: FGDP(UK); 2013 (updated 2018). Available from: https://cgdent.uk
- Harris D, Horner K, Gröndahl K, Jacobs R, Helmrot E, Benic GI, et al. E.A.O. guidelines for the use of diagnostic imaging in implant dentistry 2011. A consensus workshop organized by the European Association for Osseointegration. Clin Oral Implants Res. 2012;23(11):1243–53.
- Kois JC. Predictable single-tooth peri-implant esthetics: five diagnostic keys. Compend Contin Educ Dent. 2004;25(11):895–6, 898, 900.

Chapter 2 — Advanced Occlusion in Prosthodontics

2.1 Occlusal principles · 2.2 Occlusal schemes · 2.3 Occlusal analysis · 2.4 Occlusal rehabilitation awareness

Core texts: [1] Ch. on principles of occlusion · [2] Chs. on occlusal considerations and articulators · [3] Ch. on occlusion in fixed prosthodontics · [5] Chs. on centric relation, anterior guidance and occlusal schemes · [6] Chs. on occlusal examination, articulators and occlusal splints · [13]

Additional

- Okeson JP. Clinical Management of Temporomandibular Disorders and Occlusion. 9th ed. St Louis: Elsevier; 2026.
- Davies SJ, Gray RMJ. What is occlusion? Br Dent J. 2001;190(9):469–76.
- Türp JC, Greene CS, Strub JR. Dental occlusion: a critical reflection on past, present and future concepts. J Oral Rehabil. 2008;35(6):446–53.
- Poyser NJ, Porter RWJ, Briggs PFA, Chana HS, Kelleher MGD. The Dahl concept: past, present and future. Br Dent J. 2005;198(11):669–76.
- Abduo J, Lyons K. Clinical considerations for increasing occlusal vertical dimension: a review. Aust Dent J. 2012;57(1):2–10.
- Kim Y, Oh TJ, Misch CE, Wang HL. Occlusal considerations in implant therapy: clinical guidelines with biomechanical rationale. Clin Oral Implants Res. 2005;16(1):26–35.
- Becker CM, Kaiser DA. Evolution of occlusion and occlusal instruments. J Prosthodont. 1993;2(1):33–43.

Chapter 3 — Advanced Crown and Bridge Design

3.1 Retainers and pontics · 3.2 Connector design · 3.3 Biomechanics of FPDs · 3.4 Resin-bonded bridges

Core texts: [1] Chs. on treatment planning for fixed partial dentures, pontic design, connector design and resin-bonded fixed partial dentures · [2] Chs. on fixed partial denture configurations, pontics and resin-bonded restorations · [3] Chs. on fixed partial denture design and resin-bonded bridges · [13]

Additional

- Ante IH. The fundamental principles of abutments. Mich State Dent Soc Bull. 1926;8:14–23.

- Lulic M, Brägger U, Lang NP, Zwahlen M, Salvi GE. Ante's (1926) law revisited: a systematic review on survival rates and complications of fixed dental prostheses (FDPs) on severely reduced periodontal tissue support. Clin Oral Implants Res. 2007;18 Suppl 3:63–72.
- Stein RS. Pontic-residual ridge relationship: a research report. J Prosthet Dent. 1966;16(2):251–85.
- Pjetursson BE, Tan K, Lang NP, Brägger U, Egger M, Zwahlen M. 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):625–42.
- Rochette AL. Attachment of a splint to enamel of lower anterior teeth. J Prosthet Dent. 1973;30(4 Pt 1):418–23.
- Livaditis GJ, Thompson VP. Etched castings: an improved retentive mechanism for resin-bonded retainers. J Prosthet Dent. 1982;47(1):52–8.
- Thoma DS, Sailer I, Ioannidis A, Zwahlen M, Makarov N, Pjetursson BE. A systematic review of the survival and complication rates of resin-bonded fixed dental prostheses after a mean observation period of at least 5 years. Clin Oral Implants Res. 2017;28(11):1421–32.
- King PA, Foster LV, Yates RJ, Newcombe RG, Garrett MJ. Survival characteristics of 771 resin-retained bridges provided at a UK dental teaching hospital. Br Dent J. 2015;218(7):423–8.

Chapter 4 — Advanced Tooth Preparation for Fixed Prosthodontics

4.1 Principles of tooth preparation · 4.2 Crown preparation designs · 4.3 Partial coverage preparations · 4.4 Provisional restorations

Core texts: [1] Chs. on principles of tooth preparation, preparations for full coverage crowns, partial coverage restorations, extensively damaged teeth and interim fixed restorations · [2] Chs. on principles of tooth preparation, preparations for full and partial coverage and provisional restorations · [3] Chs. on tooth preparation and provisional restorations

Additional

- 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.
- Jørgensen KD. The relationship between retention and convergence angle in cemented veneer crowns. Acta Odontol Scand. 1955;13(1):35–40.
- Kaufman EG, Coelho DH, Colin L. Factors influencing the retention of cemented gold castings. J Prosthet Dent. 1961;11(3):487–502.
- Edelhoff D, Sorensen JA. Tooth structure removal associated with various preparation designs for anterior teeth. J Prosthet Dent. 2002;87(5):503–9.
- Padbury A Jr, Eber R, Wang HL. Interactions between the gingiva and the margin of restorations. J Clin Periodontol. 2003;30(5):379–85.
- 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.
- Gratton DG, Aquilino SA. Interim restorations. Dent Clin North Am. 2004;48(2):487–97.

Chapter 5 — Impressions

5.2 Digital impressions · 5.3 Implant impressions

Core texts: [1] Chs. on impression materials and techniques, fluid control and soft tissue management, and digital workflows · [2] Chs. on impressions and working casts · [3] Ch. on impression techniques in fixed prosthodontics · [9] Chs. on implant impressions and prosthetic procedures · [12] Ch. on 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.
- Donovan TE, Chee WWL. A review of contemporary impression materials and techniques. Dent Clin North Am. 2004;48(2):445–70.

- Ender A, Mehl A. Accuracy of complete-arch dental impressions: a new method of measuring trueness and precision. J Prosthet Dent. 2013;109(2):121–8.
- Ahlholm P, Sipilä K, Vallittu P, Jakonen M, Kotiranta U. Digital versus conventional impressions in fixed prosthodontics: a review. J Prosthodont. 2018;27(1):35–41.
- Lee H, So JS, Hochstedler JL, Ercoli C. The accuracy of implant impressions: a systematic review. J Prosthet Dent. 2008;100(4):285–91.
- Papaspyridakos P, Chen CJ, Gallucci GO, Doukoudakis A, Weber HP, Chronopoulos V. Accuracy of implant impressions for partially and completely edentulous patients: a systematic review. Int J Oral Maxillofac Implants. 2014;29(4):836–45.

Chapter 6 — Dental Materials for Advanced Prosthodontics

6.1 Ceramic materials · 6.2 Metal and metal-ceramic systems · 6.3 Resin-based materials · 6.4 Material selection

Core texts: [1] Chs. on framework design and metal selection, metal-ceramic restorations, all-ceramic restorations and colour science · [2] Chs. on metal-ceramic and all-ceramic restorations · [11] Chs. on dental ceramics, casting alloys, resin-based composites and cements · [12] Chs. on ceramics, metals and polymers · [13]

Additional

- Kelly JR, Benetti P. Ceramic materials in dentistry: historical evolution and current practice. Aust Dent J. 2011;56 Suppl 1:84–96.
- Gracis S, Thompson VP, Ferencz JL, Silva NRFA, Bonfante EA. A new classification system for all-ceramic and ceramic-like restorative materials. Int J Prosthodont. 2015;28(3):227–35.
- Denry I, Kelly JR. State of the art of zirconia for dental applications. Dent Mater. 2008;24(3):299–307.
- Zhang Y, Lawn BR. Novel zirconia materials in dentistry. J Dent Res. 2018;97(2):140–7.
- 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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- Wataha JC. Alloys for prosthodontic restorations. J Prosthet Dent. 2002;87(4):351–63.
- Ferracane JL. Resin composite — state of the art. Dent Mater. 2011;27(1):29–38.

Chapter 7 — Adhesive Prosthodontics and Cementation

7.1 Adhesive principles · 7.2 Ceramic surface treatment · 7.3 Resin cementation · 7.4 Conventional cementation

Core texts: [1] Ch. on luting agents and cementation procedures · [2] Ch. on cementation · [8] Chs. on adhesion, ceramic conditioning and luting · [11] Chs. on bonding and cements · [12] Chs. on adhesives and cements

Additional

- Van Meerbeek B, De Munck J, Yoshida Y, Inoue S, Vargas M, Vijay P, et al. Buonocore memorial lecture. Adhesion to enamel and dentin: current status and future challenges. Oper Dent. 2003;28(3):215–35.
- Nakabayashi N, Kojima K, Masuhara E. The promotion of adhesion by the infiltration of monomers into tooth substrates. J Biomed Mater Res. 1982;16(3):265–73.
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- Lung CYK, Matinlinna JP. Aspects of silane coupling agents and surface conditioning in dentistry: an overview. Dent Mater. 2012;28(5):467–77.
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- Blatz MB, Alvarez M, Sawyer K, Brindis M. How to bond zirconia: the APC concept. Compend Contin Educ Dent. 2016;37(9):611–17.
- Hill EE, Lott J. A clinically focused discussion of luting materials. Aust Dent J. 2011;56 Suppl 1:67–76.
- Manso AP, Carvalho RM. Dental cements for luting and bonding restorations: self-adhesive resin cements. Dent Clin North Am. 2017;61(4):821–34.

- Wilson AD, Kent BE. A new translucent cement for dentistry. The glass ionomer cement. Br Dent J. 1972;132(4):133–5.

Chapter 8 — Dental Implants: Foundations and Biology

8.1 Introduction to implant dentistry · 8.2 Osseointegration · 8.3 Peri-implant tissues · 8.4 Implant risk assessment

Core texts: [1] Ch. on dental implants · [9] Chs. on the rationale for implants, implant components, bone physiology, osseointegration and medical evaluation · [10] Chs. on osseointegration, the peri-implant mucosa and the patient with implants · [14] · [15] · [20]

Additional

- Brånemark PI, Hansson BO, Adell R, Breine U, Lindström J, Hallén O, et al. Osseointegrated implants in the treatment of the edentulous jaw. Experience from a 10-year period. Scand J Plast Reconstr Surg Suppl. 1977;16:1–132.
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- Berglundh T, Lindhe J. Dimension of the periimplant mucosa. Biological width revisited. J Clin Periodontol. 1996;23(10):971–3.
- Tarnow DP, Cho SC, Wallace SS. The effect of inter-implant distance on the height of inter-implant bone crest. J Periodontol. 2000;71(4):546–9.
- Chrcanovic BR, Albrektsson T, Wennerberg A. Smoking and dental implants: a systematic review and meta-analysis. J Dent. 2015;43(5):487–98.
- Bornstein MM, Cionca N, Mombelli A. Systemic conditions and treatments as risks for implant therapy. Int J Oral Maxillofac Implants. 2009;24 Suppl:12–27.

Chapter 9 — Implant Treatment Planning

9.1 Patient assessment for implants · 9.2 Radiographic planning · 9.3 Prosthetically driven implant planning · 9.4 Treatment options by edentulism type

Core texts: [1] Ch. on dental implants (treatment planning) · [9] Chs. on medical evaluation, radiographic imaging, treatment plans by edentulous classification and prosthetic options · [10] Chs. on treatment planning for implant patients and the edentulous jaw · [16] · [19] · [21]

Additional

- Garber DA, Belser UC. Restoration-driven implant placement with restoration-generated site development. Compend Contin Educ Dent. 1995;16(8):796–804.
- Buser D, Martin W, Belser UC. Optimizing esthetics for implant restorations in the anterior maxilla: anatomic and surgical considerations. Int J Oral Maxillofac Implants. 2004;19 Suppl:43–61.
- Tyndall DA, Price JB, Tetradis S, Ganz SD, Hildebolt C, Scarfe WC. Position statement of the American Academy of Oral and Maxillofacial Radiology on selection criteria for the use of radiology in dental implantology with emphasis on cone beam computed tomography. Oral Surg Oral Med Oral Pathol Oral Radiol. 2012;113(6):817–26.
- Tahmaseb A, Wu V, Wismeijer D, Coucke W, Evans C. The accuracy of static computer-aided implant surgery: a systematic review and meta-analysis. Clin Oral Implants Res. 2018;29 Suppl 16:416–35.
- Dawson A, Chen S, editors. The SAC Classification in Implant Dentistry. Berlin: Quintessence Publishing; 2009.
- Misch CE, Judy KWM. Classification of partially edentulous arches for implant dentistry. Int J Oral Implantol. 1987;4(2):7–13.
- Thomason JM, Feine J, Exley C, Moynihan P, Müller F, Naert I, et al. Mandibular two implant-supported overdentures as the first choice standard of care for edentulous patients — the York Consensus Statement. Br Dent J. 2009;207(4):185–6.

Chapter 10 — Implant Prosthodontics

10.1 Implant prosthetic components · 10.2 Screw-retained restorations · 10.3 Cement-retained restorations · 10.4 Implant overdentures · 10.5 Implant prosthetic complications

Core texts: [1] Ch. on dental implants (prosthetic components and restorations) · [9] Chs. on implant prosthodontics, screw- versus cement-retained prostheses, overdentures and implant-related complications · [10] Chs. on implant-supported fixed prostheses and overdentures · [4] Ch. on implant-supported removable partial dentures · [16]

Additional

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- Sailer I, Mühlemann S, Zwahlen M, Hämmerle CHF, Schneider D. Cemented and screw-retained implant reconstructions: a systematic review of the survival and complication rates. Clin Oral Implants Res. 2012;23 Suppl 6:163–201.
- Wilson TG Jr. The positive relationship between excess cement and peri-implant disease: a prospective clinical endoscopic study. J Periodontol. 2009;80(9):1388–92.
- Jung RE, Zembic A, Pjetursson BE, Zwahlen M, Thoma DS. Systematic review of the survival rate and the incidence of biological, technical, and aesthetic complications of single crowns on implants reported in longitudinal studies with a mean follow-up of 5 years. Clin Oral Implants Res. 2012;23 Suppl 6:2–21.
- Pjetursson BE, Thoma D, Jung R, Zwahlen M, Zembic A. A systematic review of the survival and complication rates of implant-supported fixed dental prostheses (FDPs) after a mean observation period of at least 5 years. Clin Oral Implants Res. 2012;23 Suppl 6:22–38.
- Goodacre CJ, Bernal G, Rungcharassaeng K, Kan JYK. Clinical complications with implants and implant prostheses. J Prosthet Dent. 2003;90(2):121–32.
- Trakas T, Michalakis K, Kang K, Hirayama H. Attachment systems for implant retained overdentures: a literature review. Implant Dent. 2006;15(1):24–34.

Chapter 11 — Implant Maintenance and Peri-Implant Disease

11.1 Implant maintenance · 11.2 Peri-implant health and disease · 11.3 Diagnosis of peri-implant disease · 11.4 Management overview

Core texts: [9] Chs. on implant maintenance and peri-implant disease · [10] Chs. on peri-implant mucositis and peri-implantitis, and supportive therapy · [14] · [15]

Additional

- Herrera D, Berglundh T, Schwarz F, Chapple I, Jepsen S, Sculean A, et al. Prevention and treatment of peri-implant diseases — the EFP S3 level clinical practice guideline. J Clin Periodontol. 2023;50 Suppl 26:4–76.
- Renvert S, Persson GR, Pirih FQ, Camargo PM. Peri-implant health, peri-implant mucositis, and peri-implantitis: case definitions and diagnostic considerations. J Clin Periodontol. 2018;45 Suppl 20:S278–85.
- Heitz-Mayfield LJA, Salvi GE. Peri-implant mucositis. J Periodontol. 2018;89 Suppl 1:S257–66.
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- Derks J, Tomasi C. Peri-implant health and disease. A systematic review of current epidemiology. J Clin Periodontol. 2015;42 Suppl 16:S158–71.
- Monje A, Aranda L, Diaz KT, Alarcón MA, Bagramian RA, Wang HL, et al. Impact of maintenance therapy for the prevention of peri-implant diseases: a systematic review and meta-analysis. J Dent Res. 2016;95(4):372–9.
- Papaspyridakos P, Chen CJ, Singh M, Weber HP, Gallucci GO. Success criteria in implant dentistry: a systematic review. J Dent Res. 2012;91(3):242–8.

Chapter 12 — CAD/CAM and Digital Prosthodontics

12.1 Introduction to digital workflow · 12.2 Intraoral scanning · 12.3 CAD design principles · 12.4 CAM manufacturing · 12.5 Digital workflow errors

Core texts: [1] Chs. on digital impressions, CAD/CAM and digital workflows in fixed prosthodontics · [9] Ch. on digital technology in implant dentistry · [11] Ch. on CAD/CAM materials and processing · [12] Ch. on digital dentistry materials

Additional

- Beuer F, Schweiger J, Edelhoff D. Digital dentistry: an overview of recent developments for CAD/CAM generated restorations. Br Dent J. 2008;204(9):505–11.
- Mörmann WH. The evolution of the CEREC system. J Am Dent Assoc. 2006;137 Suppl:7S–13S.
- Miyazaki T, Hotta Y, Kunii J, Kuriyama S, Tamaki Y. A review of dental CAD/CAM: current status and future perspectives from 20 years of experience. Dent Mater J. 2009;28(1):44–56.
- Mangano F, Gandolfi A, Luongo G, Logozzo S. Intraoral scanners in dentistry: a review of the current literature. BMC Oral Health. 2017;17(1):149.
- Ender A, Attin T, Mehl A. In vivo precision of conventional and digital methods of obtaining complete-arch dental impressions. J Prosthet Dent. 2016;115(3):313–20.
- Joda T, Zarone F, Ferrari M. The complete digital workflow in fixed prosthodontics: a systematic review. BMC Oral Health. 2017;17(1):124.
- Abduo J, Lyons K, Bennamoun M. Trends in computer-aided manufacturing in prosthodontics: a review of the available streams. Int J Dent. 2014;2014:783948.
- Revilla-León M, Özcan M. Additive manufacturing technologies used for processing polymers: current status and potential application in prosthetic dentistry. J Prosthodont. 2019;28(2):146–58.

Chapter 13 — Aesthetic Dentistry: Principles and Smile Design

13.1 Facial and dentofacial analysis · 13.2 Dental aesthetic parameters · 13.3 Gingival aesthetics · 13.4 Shade and colour science · 13.5 Digital smile design awareness

Core texts: [1] Chs. on esthetic considerations and colour science · [5] Ch. on smile design · [7] Chs. on facial analysis, dentolabial analysis, dental analysis and gingival analysis · [8] Chs. on natural oral esthetics and the aesthetic checklist · [13]

Additional

- Rufenacht CR. Fundamentals of Esthetics. Chicago: Quintessence Publishing; 1990.
- Lombardi RE. The principles of visual perception and their clinical application to denture esthetics. J Prosthet Dent. 1973;29(4):358–82.
- Levin EI. Dental esthetics and the golden proportion. J Prosthet Dent. 1978;40(3):244–52.
- Ward DH. Proportional smile design using the recurring esthetic dental (RED) proportion. Dent Clin North Am. 2001;45(1):143–54.
- Tjan AHL, Miller GD, The JGP. Some esthetic factors in a smile. J Prosthet Dent. 1984;51(1):24–8.
- Kokich VO Jr, Kiyak HA, Shapiro PA. Comparing the perception of dentists and lay people to altered dental esthetics. J Esthet Dent. 1999;11(6):311–24.
- 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. J Periodontol. 1992;63(12):995–6.
- Chu SJ, Devigus A, Paravina RD, Mieleszko AJ. Fundamentals of Color: Shade Matching and Communication in Esthetic Dentistry. 2nd ed. Chicago: Quintessence Publishing; 2011.
- Coachman C, Calamita M. Digital Smile Design: a tool for treatment planning and communication in esthetic dentistry. Quintessence Dent Technol. 2012;35:103–11.

Chapter 14 — Porcelain Veneers and Minimally Invasive Aesthetic Restorations

14.1 Veneer indications and case selection · 14.2 Veneer contraindications · 14.3 Veneer preparation designs · 14.4 Veneer workflow · 14.5 Veneer complications

Core texts: [1] Ch. on porcelain laminate veneers · [2] Ch. on veneers and conservative esthetic restorations · [8] Chs. on veneer indications, preparation, laboratory procedures and bonding · [7] Ch. on the esthetic treatment sequence

Additional

- Gürel G. The Science and Art of Porcelain Laminate Veneers. Chicago: Quintessence Publishing; 2003.
- Calamia JR. Etched porcelain facial veneers: a new treatment modality based on scientific and clinical evidence. N Y J Dent. 1983;53(6):255–9.
- Belser UC, Magne P, Magne M. Ceramic laminate veneers: continuous evolution of indications. J Esthet Dent. 1997;9(4):197–207.
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Chapter 15 — Tooth Whitening and Bleaching

15.1 Tooth discolouration · 15.2 Bleaching agents and mechanisms · 15.3 Vital tooth bleaching · 15.4 Non-vital bleaching · 15.5 Bleaching safety and limitations

Core texts: [1] Ch. on esthetic considerations (tooth discolouration and bleaching) · [8] Ch. on the diagnosis and management of discoloured teeth · [18] · [21]

Additional

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Chapter 16 — Management of Tooth Wear and Aesthetic Rehabilitation

16.1 Tooth wear diagnosis · 16.2 Tooth wear assessment · 16.3 Restorative management · 16.4 Increasing vertical dimension

Core texts: [1] Chs. on treatment planning (the worn dentition) and principles of occlusion · [5] Chs. on the worn dentition and vertical dimension · [6] Chs. on tooth wear and vertical dimension · [8] Chs. on adhesive management of the worn anterior dentition · [17]

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Chapter 17 — Full-Mouth Rehabilitation: Undergraduate-Level Awareness

17.1 Indications for full-mouth rehabilitation · 17.2 Diagnostic phase · 17.3 Planning sequence · 17.4 Complications and maintenance

Core texts: [1] Chs. on treatment planning, principles of occlusion and mouth preparation · [5] Chs. on complete occlusal rehabilitation and vertical dimension · [6] Ch. on reorganising the occlusion · [7] Chs. on the esthetic and functional treatment plan · [13]

Additional

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Chapter 18 — Advanced Removable and Implant-Retained Prosthodontic Concepts

18.1 Overdentures · 18.2 Precision attachments · 18.3 Combination prostheses

Core texts: [1] Ch. on retainers and surveyed crowns for removable partial dentures · [3] Chs. on overdentures, precision attachments and combination prostheses · [4] Chs. on surveying, rests and guide planes, attachments and implant-supported removable partial dentures · [9] Ch. on implant overdentures · [16]

Additional

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Chapter 19 — Laboratory Communication and Quality Control

19.1 Prescription writing · 19.2 Communication records · 19.3 Prosthesis quality assessment · 19.4 Try-in and delivery

Core texts: [1] Chs. on colour science, working casts and dies, finishing the cast restoration, and cementation · [2] Chs. on laboratory communication, try-in and cementation · [3] Chs. on laboratory procedures and delivery of fixed prostheses · [7] Ch. on communication with the laboratory · [18]

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Chapter 20 — Prosthodontic Complications, Maintenance and Ethics

20.1 Biological complications · 20.2 Mechanical complications · 20.3 Aesthetic complications · 20.4 Maintenance protocols · 20.5 Ethics and professionalism

Core texts: [1] Chs. on postoperative care and complications · [2] Ch. on failures and complications in fixed prosthodontics · [3] Ch. on failures in fixed prosthodontics · [9] Ch. on implant complications and maintenance · [10] Ch. on supportive therapy · [18] · [22]

Additional

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