Forensic Odontology

Year 5 — Bachelor of Dental Surgery

Reference and Resource List — Chapters 1 to 17

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 forensic odontology textbooks

1. Senn DR, Weems RA, editors. Manual of Forensic Odontology. 5th ed. Boca Raton (FL): CRC Press; 2013.
2. Senn DR, Stimson PG, editors. Forensic Dentistry. 2nd ed. Boca Raton (FL): CRC Press; 2010.
3. Adams C, Carabott R, Evans S, editors. Forensic Odontology: An Essential Guide. Chichester: Wiley Blackwell; 2014.
4. Bowers CM, editor. Forensic Dental Evidence: An Investigator's Handbook. 2nd ed. Amsterdam: Academic Press; 2011.
5. Dorion RBJ, editor. Bitemark Evidence: A Color Atlas and Text. 2nd ed. Boca Raton (FL): CRC Press; 2011.
6. Silver WE, Souviron RR. Dental Autopsy. Boca Raton (FL): CRC Press; 2009.
7. Keiser-Nielsen S. Person Identification by Means of the Teeth. Bristol: John Wright & Sons; 1980.

1.2 Supporting dental, radiological, anthropological and genetic sciences

8. Nelson SJ. Wheeler's Dental Anatomy, Physiology and Occlusion. 11th ed. St Louis: Elsevier; 2019.
9. Scheid RC, Weiss G. Woelfel's Dental Anatomy. 9th ed. Philadelphia: Wolters Kluwer; 2017.
10. Mallya SM, Lam EWN, editors. White and Pharoah's Oral Radiology: Principles and Interpretation. 8th ed. St Louis: Elsevier; 2019.
11. Whaites E, Drage N. Essentials of Dental Radiography and Radiology. 6th ed. Edinburgh: Elsevier; 2021.
12. Scott GR, Turner CG II. The Anthropology of Modern Human Teeth: Dental Morphology and its Variation in Recent Human Populations. Cambridge: Cambridge University Press; 1997.
13. Christensen AM, Passalacqua NV, Bartelink EJ. Forensic Anthropology: Current Methods and Practice. 2nd ed. San Diego: Academic Press; 2019.
14. Butler JM. Fundamentals of Forensic DNA Typing. Burlington (MA): Academic Press; 2010.

1.3 Key overview papers

15. Pretty IA, Sweet D. A look at forensic dentistry – Part 1: the role of teeth in the determination of human identity. Br Dent J. 2001;190(7):359–66.
16. Sweet D, Pretty IA. A look at forensic dentistry – Part 2: teeth as weapons of violence – identification of bitemark perpetrators. Br Dent J. 2001;190(8):415–18.
17. Avon SL. Forensic odontology: the roles and responsibilities of the dentist. J Can Dent Assoc. 2004;70(7):453–8.
18. Rothwell BR. Principles of dental identification. Dent Clin North Am. 2001;45(2):253–70.
19. Hinchliffe J. Forensic odontology, part 1. Dental identification. Br Dent J. 2011;210(5):219–24.

1.4 International standards, guidelines and scientific reviews

20. INTERPOL. Disaster Victim Identification Guide (Part A: Guide; Part B: Annexures). Version 3. Lyon: International Criminal Police Organization; 2023. Available from: https://www.interpol.int
21. American Board of Forensic Odontology. ABFO Diplomates Reference Manual: standards and guidelines for body identification, age estimation and bitemarks. Colorado Springs (CO): ABFO. Available from: https://abfo.org
22. International Organisation for Forensic Odonto-Stomatology. IOFOS recommendations for quality assurance. IOFOS. Available from: https://www.iofos.eu
23. National Research Council. Strengthening Forensic Science in the United States: A Path Forward. Washington (DC): National Academies Press; 2009.
24. President's Council of Advisors on Science and Technology. Forensic Science in Criminal Courts: Ensuring Scientific Validity of Feature-Comparison Methods. Washington (DC): Executive Office of the President; 2016.
25. Sauerwein K, Butler JM, Reczek KK, Reed C. Bitemark Analysis: A NIST Scientific Foundation Review. NIST IR 8352. Gaithersburg (MD): National Institute of Standards and Technology; 2023.
26. International Organization for Standardization. ISO 3950:2016 Dentistry – Designation system for teeth and areas of the oral cavity. Geneva: ISO; 2016.

1.5 Professional, regulatory and educational sources

27. General Dental Council. Standards for the Dental Team. London: GDC; 2013. Available from: https://www.gdc-uk.org

28. Faculty of General Dental Practice (UK). Clinical Examination and Record-Keeping: Good Practice Guidelines. 3rd ed. London: FGDP(UK); 2016.

29. Dental Council of India. Revised Dentists (Code of Ethics) Regulations, 2014. New Delhi: DCI; 2014.

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

Journal of Forensic Odonto-Stomatology · Journal of Forensic Sciences · Forensic Science International · International Journal of Legal Medicine · Journal of Forensic Dental Sciences · Science & Justice · Forensic Science, Medicine and Pathology · Journal of Forensic and Legal Medicine · Forensic Science International: Genetics · British Dental Journal

PART 2 — CHAPTER-SPECIFIC REFERENCES

Chapter 1 — Introduction to Forensic Odontology

1.1 Definition and scope · 1.2 Importance of forensic dentistry · 1.3 Branches of forensic odontology · 1.4 Ethical and legal responsibilities

Core texts: [1] Introductory chapters · [2] · [3] · [4] Ch. 1 (Historical dental investigations) · [15]–[19] · [22]

Additional

- Krishan K, Kanchan T, Garg AK. Dental evidence in forensic identification – an overview, methodology and present status. Open Dent J. 2015;9:250–6.
- Balachander N, Babu NA, Jimson S, Priyadharsini C, Masthan KMK. Evolution of forensic odontology: an overview. J Pharm Bioallied Sci. 2015;7 Suppl 1:S176–80.
- Divakar KP. Forensic odontology: the new dimension in dental analysis. Int J Biomed Sci. 2017;13(1):1–5.
- Whittaker DK, MacDonald DG. A Colour Atlas of Forensic Dentistry. London: Wolfe Medical; 1989.

Chapter 2 — Dental Anatomy and Identification Principles

2.1 Importance of dental structures in identification · 2.2 Dental anatomy relevant to forensic practice · 2.3 Dental restorations and prostheses in identification

Core texts: [1] Chs. on dental identification · [3] · [8] · [9] · [10] · [18] · [26]

Additional

- Savio C, Merlati G, Danesino P, Fassina G, Menghini P. Radiographic evaluation of teeth subjected to high temperatures: experimental study to aid identification processes. Forensic Sci Int. 2006;158(2–3):108–16.
- Merlati G, Savio C, Danesino P, Fassina G, Menghini P. Further study of restored and un-restored teeth subjected to high temperatures. J Forensic Odontostomatol. 2004;22(2):34–9.
- Adams BJ. The diversity of adult dental patterns in the United States and the implications for personal identification. J Forensic Sci. 2003;48(3):497–503.
- Franco A, Willems G, Souza PHC, Bekkering GE, Thevissen P. The uniqueness of the human dentition as forensic evidence: a systematic review on the technological methodology. Int J Legal Med. 2015;129(6):1277–83.
- Richmond R, Pretty IA. Contemporary methods of labeling dental prostheses – a review of the literature. J Forensic Sci. 2006;51(5):1120–6.
- Berketa JW, Hirsch RS, Higgins D, James H. Radiographic recognition of dental implants as an aid to identifying the deceased. J Forensic Sci. 2010;55(1):66–70.
- Berketa J, James H, Marino V. Dental implant changes following incineration. Forensic Sci Int. 2011;207(1–3):50–4.

Chapter 3 — Human Identification Using Dental Records

3.1 Principles of dental identification · 3.2 Ante-mortem dental records · 3.3 Post-mortem dental examination · 3.4 Comparison and reconciliation

Core texts: [1] Chs. on dental identification · [2] · [4] · [6] · [15] · [18]–[21]

Additional

- American Board of Forensic Odontology. Body identification guidelines. J Am Dent Assoc. 1994;125(9):1244–54.
- Brannon RB, Kessler HP. Problems in mass-disaster dental identification: a retrospective review. J Forensic Sci. 1999;44(1):123–7.
- Andersen L, Juhl M, Solheim T, Borrman H. Odontological identification of fire victims – potentialities and limitations. Int J Legal Med. 1995;107(5):229–34.
- Charangowda BK. Dental records: an overview. J Forensic Dent Sci. 2010;2(1):5–10.
- Silva RF, Franco A, Picoli FF, Nunes FG, Estrela C. Dental identification through endodontic radiographic records: a case report. Acta Stomatol Croat. 2014;48(2):147–50.

Chapter 4 — Dental Age Estimation in Children and Adolescents

4.1 Principles of age estimation · 4.2 Tooth development and eruption · 4.3 Clinical methods · 4.4 Radiographic methods

Core texts: [1] Ch. on age estimation · [2] · [3] · [8] Chs. on development and eruption · [10] · [21]

Additional

- Logan WHG, Kronfeld R. Development of the human jaws and surrounding structures from birth to the age of fifteen years. J Am Dent Assoc. 1933;20(3):379–427.

- Nolla CM. The development of the permanent teeth. J Dent Child. 1960;27:254–66.
- Moorrees CFA, Fanning EA, Hunt EE Jr. Age variation of formation stages for ten permanent teeth. J Dent Res. 1963;42(6):1490–502.
- Demirjian A, Goldstein H, Tanner JM. A new system of dental age assessment. Hum Biol. 1973;45(2):211–27.
- Willems G, Van Olmen A, Spiessens B, Carels C. Dental age estimation in Belgian children: Demirjian's technique revisited. J Forensic Sci. 2001;46(4):893–5.
- Cameriere R, Ferrante L, Cingolani M. Age estimation in children by measurement of open apices in teeth. Int J Legal Med. 2006;120(1):49–52.
- AlQahtani SJ, Hector MP, Liversidge HM. Brief communication: the London atlas of human tooth development and eruption. Am J Phys Anthropol. 2010;142(3):481–90.
- Esan TA, Yengopal V, Schepartz LA. The Demirjian versus the Willems method for dental age estimation in different populations: a meta-analysis of published studies. PLoS One. 2017;12(11):e0186682.
- Mincer HH, Harris EF, Berryman HE. The A.B.F.O. study of third molar development and its use as an estimator of chronological age. J Forensic Sci. 1993;38(2):379–90.
- Liversidge HM, Marsden PH. Estimating age and the likelihood of having attained 18 years of age using mandibular third molars. Br Dent J. 2010;209(8):E13.
- Thevissen PW, Fieuws S, Willems G. Third molar development: evaluation of nine tooth development registration techniques for age estimations. J Forensic Sci. 2013;58(2):393–7.
- Schmeling A, Grundmann C, Fuhrmann A, Kaatsch HJ, Knell B, Ramsthaler F, et al. Criteria for age estimation in living individuals. Int J Legal Med. 2008;122(6):457–60.

Chapter 5 — Age Estimation in Adults

5.1 Principles of adult age estimation · 5.2 Gustafson's method · 5.3 Other methods of adult age estimation

Core texts: [1] Ch. on age estimation · [2] · [3] · [10]

Additional

- Gustafson G. Age determination on teeth. J Am Dent Assoc. 1950;41(1):45–54.
- Bang G, Ramm E. Determination of age in humans from root dentin transparency. Acta Odontol Scand. 1970;28(1):3–35.
- Johanson G. Age determinations from human teeth. Odontol Revy. 1971;22 Suppl 21:1–126.
- Maples WR. An improved technique using dental histology for estimation of adult age. J Forensic Sci. 1978;23(4):764–70.
- Lamendin H, Baccino E, Humbert JF, Tavernier JC, Nossintchouk RM, Zerilli A. A simple technique for age estimation in adult corpses: the two criteria dental method. J Forensic Sci. 1992;37(5):1373–9.
- Solheim T. A new method for dental age estimation in adults. Forensic Sci Int. 1993;59(2):137–47.
- Kvaal SI, Kolltveit KM, Thomsen IO, Solheim T. Age estimation of adults from dental radiographs. Forensic Sci Int. 1995;74(3):175–85.
- Soomer H, Ranta H, Lincoln MJ, Penttilä A, Leibur E. Reliability and validity of eight dental age estimation methods for adults. J Forensic Sci. 2003;48(1):149–52.
- Cameriere R, Ferrante L, Cingolani M. Variations in pulp/tooth area ratio as an indicator of age: a preliminary study. J Forensic Sci. 2004;49(2):317–19.
- Wittwer-Backofen U, Gampe J, Vaupel JW. Tooth cementum annulation for age estimation: results from a large known-age validation study. Am J Phys Anthropol. 2004;123(2):119–29.
- Helfman PM, Bada JL. Aspartic acid racemization in tooth enamel from living humans. Proc Natl Acad Sci USA. 1975;72(8):2891–4.
- Star H, Thevissen P, Jacobs R, Fieuws S, Solheim T, Willems G. Human dental age estimation by calculation of pulp–tooth volume ratios yielded on clinically acquired cone beam computed tomography images of monoradicular teeth. J Forensic Sci. 2011;56 Suppl 1:S77–82.

Chapter 6 — Bite Mark Analysis

6.1 Principles of bite marks · 6.2 Bite mark examination · 6.3 Bite mark comparison · 6.4 Limitations and controversies

Core texts: [1] Chs. on bitemarks · [4] · [5] · [16] · [21] · [23]–[25]

Additional

- Pretty IA, Sweet D. The scientific basis for human bitemark analyses – a critical review. Sci Justice. 2001;41(2):85–92.
- Sweet D, Lorente M, Lorente JA, Valenzuela A, Villanueva E. An improved method to recover saliva from human skin: the double swab technique. J Forensic Sci. 1997;42(2):320–2.
- Bush MA, Miller RG, Bush PJ, Dorion RBJ. Biomechanical factors in human dermal bitemarks in a cadaver model. J Forensic Sci. 2009;54(1):167–76.
- Pretty IA, Sweet D. A paradigm shift in the analysis of bitemarks. Forensic Sci Int. 2010;201(1–3):38–44.
- Clement JG, Blackwell SA. Is current bite mark analysis a misnomer? Forensic Sci Int. 2010;201(1–3):33–7.
- Bush MA, Bush PJ, Sheets HD. Statistical evidence for the similarity of the human dentition. J Forensic Sci. 2011;56(1):118–23.
- Page M, Taylor J, Blenkin M. Uniqueness in the forensic identification sciences – fact or fiction? Forensic Sci Int. 2011;206(1–3):12–18.
- Hinchliffe J. Forensic odontology, part 4. Human bite marks. Br Dent J. 2011;210(8):363–8.
- Saks MJ, Albright T, Bohan TL, Bierer BE, Bowers CM, Bush MA, et al. Forensic bitemark identification: weak foundations, exaggerated claims. J Law Biosci. 2016;3(3):538–75.

Chapter 7 — DNA Analysis in Forensic Dentistry

7.1 Principles of forensic DNA · 7.2 Dental tissues as DNA sources · 7.3 DNA collection and preservation · 7.4 Applications of DNA analysis

Core texts: [1] Ch. on DNA and forensic odontology · [4] · [14] · [20]

Additional

- Pötsch L, Meyer U, Rothschild S, Schneider PM, Rittner C. Application of DNA techniques for identification using human dental pulp as a source of DNA. Int J Legal Med. 1992;105(3):139–43.
- Gill P, Ivanov PL, Kimpton C, Piercy R, Benson N, Tully G, et al. Identification of the remains of the Romanov family by DNA analysis. Nat Genet. 1994;6(2):130–5.
- Alvarez García A, Muñoz I, Pestoni C, Lareu MV, Rodríguez-Calvo MS, Carracedo A. Effect of environmental factors on PCR-DNA analysis from dental pulp. Int J Legal Med. 1996;109(3):125–9.
- Sweet D, Lorente JA, Valenzuela A, Lorente M, Alvarez JC. Increasing DNA extraction yield from saliva stains with a modified Chelex method. Forensic Sci Int. 1997;83(3):167–77.
- Sweet D, Hildebrand D. Recovery of DNA from human teeth by cryogenic grinding. J Forensic Sci. 1998;43(6):1199–202.
- Malaver PC, Yunis JJ. Different dental tissues as source of DNA for human identification in forensic cases. Croat Med J. 2003;44(3):306–9.
- Prinz M, Carracedo A, Mayr WR, Morling N, Parsons TJ, Sajantila A, et al. DNA Commission of the International Society for Forensic Genetics (ISFG): recommendations regarding the role of forensic genetics for disaster victim identification (DVI). Forensic Sci Int Genet. 2007;1(1):3–12.
- Higgins D, Austin JJ. Teeth as a source of DNA for forensic identification of human remains: a review. Sci Justice. 2013;53(4):433–41.
- Butler JM. Advanced Topics in Forensic DNA Typing: Methodology. San Diego: Academic Press; 2012.

Chapter 8 — Disaster Victim Identification (DVI)

8.1 Principles of DVI · 8.2 DVI phases · 8.3 Dental role in DVI · 8.4 Challenges in DVI

Core texts: [1] Chs. on mass fatality incidents · [2] · [4] · [15] · [20]

Additional

- Kieser JA, Laing W, Herbison P. Lessons learned from large-scale comparative dental analysis following the South Asian tsunami of 2004. J Forensic Sci. 2006;51(1):109–12.
- Schuller-Götzburg P, Suchanek J. Forensic odontologists successfully identify tsunami victims in Phuket, Thailand. Forensic Sci Int. 2007;171(2–3):204–7.

- Petju M, Suteerayongprasert A, Thongpud R, Hassiri K. Importance of dental records for victim identification following the Indian Ocean tsunami disaster in Thailand. Public Health. 2007;121(4):251–7.
- Hill AJ, Hewson I, Lain R. The role of the forensic odontologist in disaster victim identification: lessons for management. Forensic Sci Int. 2011;205(1–3):44–7.
- Hinchliffe J. Forensic odontology, part 2. Major disasters. Br Dent J. 2011;210(6):269–74.
- Berketa J, James H, Lake AW. Forensic odontology involvement in disaster victim identification. Forensic Sci Med Pathol. 2012;8(2):148–56.
- Brannon RB, Kessler HP. Problems in mass-disaster dental identification: a retrospective review. J Forensic Sci. 1999;44(1):123–7.
- Cordner S, Coninx R, Kim HJ, van Alphen D, Tidball-Binz M, editors. Management of Dead Bodies after Disasters: A Field Manual for First Responders. 2nd ed. Geneva: International Committee of the Red Cross; 2016.

Chapter 9 — Forensic Anthropology and Odontology Interface

9.1 Basics of forensic anthropology · 9.2 Craniofacial structures in forensic analysis · 9.3 Odontometric methods

Core texts: [1] · [12] · [13]

Additional

- Byers SN. Introduction to Forensic Anthropology. 5th ed. New York: Routledge; 2016.
- Dirkmaat DC, editor. A Companion to Forensic Anthropology. Chichester: Wiley Blackwell; 2012.
- White TD, Black MT, Folkens PA. Human Osteology. 3rd ed. San Diego: Academic Press; 2011.
- Hillson S. Dental Anthropology. Cambridge: Cambridge University Press; 1996.
- Adams BJ, Byrd JE, editors. Commingled Human Remains: Methods in Recovery, Analysis, and Identification. San Diego: Academic Press; 2014.
- Garn SM, Lewis AB, Swindler DR, Kerewsky RS. Genetic control of sexual dimorphism in tooth size. J Dent Res. 1967;46(5):963–72.
- Rao NG, Rao NN, Pai ML, Kotian MS. Mandibular canine index – a clue for establishing sex identity. Forensic Sci Int. 1989;42(3):249–54.
- Acharya AB, Mainali S. Univariate sex dimorphism in the Nepalese dentition and the use of discriminant functions in gender assessment. Forensic Sci Int. 2007;173(1):47–56.
- Christensen AM. Testing the reliability of frontal sinuses in positive identification. J Forensic Sci. 2005;50(1):18–22.

Chapter 10 — Forensic Radiology in Dentistry

10.1 Principles of forensic radiology · 10.2 Conventional radiographic methods · 10.3 Advanced imaging awareness

Core texts: [1] Ch. on forensic dental radiology · [10] · [11] · [18] · [20]

Additional

- Kogon SL, MacLean DF. Long-term validation study of bitewing dental radiographs for forensic identification. J Forensic Sci. 1996;41(2):230–2.
- Du Chesne A, Benthaus S, Teige K, Brinkmann B. Post-mortem orthopantomography – an aid in screening for identification purposes. Int J Legal Med. 2000;113(2):63–9.
- Wood RE. Forensic aspects of maxillofacial radiology. Forensic Sci Int. 2006;159 Suppl 1:S47–55.
- Thali MJ, Markwalder T, Jackowski C, Sonnenschein M, Dirnhofer R. Dental CT imaging as a screening tool for dental profiling: advantages and limitations. J Forensic Sci. 2006;51(1):113–19.
- Kirchhoff S, Fischer F, Lindemaier G, Herzog P, Kirchhoff C, Becker C, et al. Is post-mortem CT of the dentition adequate for correct forensic identification? Comparison of dental computed tomography and visual dental record. Int J Legal Med. 2008;122(6):471–9.
- Forrest AS. Collection and recording of radiological information for forensic purposes. Aust Dent J. 2012;57 Suppl 1:24–32.
- Silva RF, Franco A, Picoli FF, Nunes FG, Estrela C. Dental identification through endodontic radiographic records: a case report. Acta Stomatol Croat. 2014;48(2):147–50.
- Scarfe WC, Angelopoulos C, editors. Maxillofacial Cone Beam Computed Tomography: Principles, Techniques and Clinical Applications. Cham: Springer; 2018.

Chapter 11 — Cheiloscopy and Rugoscopy

11.1 Cheiloscopy · 11.2 Rugoscopy · 11.3 Reliability and limitations

Core texts: [1] · [2] (identification chapters) · [15]

Additional

- Suzuki K, Tsuchihashi Y. A new attempt of personal identification by means of lip print. J Indian Dent Assoc. 1970;42(1):8–9.
- Tsuchihashi Y. Studies on personal identification by means of lip prints. Forensic Sci. 1974;3(3):233–48.
- Sivapathasundharam B, Prakash PA, Sivakumar G. Lip prints (cheiloscopy). Indian J Dent Res. 2001;12(4):234–7.
- Lysell L. Plicae palatinae transversae and papilla incisiva in man: a morphologic and genetic study. Acta Odontol Scand. 1955;13 Suppl 18:1–137.
- Thomas CJ, Kotze TJ. The palatal ruga pattern in six southern African human populations. J Dent Assoc S Afr. 1983;38(8):547–53.
- Kapali S, Townsend G, Richards L, Parish T. Palatal rugae patterns in Australian aborigines and Caucasians. Aust Dent J. 1997;42(2):129–33.
- Muthusubramanian M, Limson KS, Julian R. Analysis of rugae in burn victims and cadavers to simulate rugae identification in cases of incineration and decomposition. J Forensic Odontostomatol. 2005;23(1):26–9.
- Caldas IM, Magalhães T, Afonso A. Establishing identity using cheiloscopy and palatoscopy. Forensic Sci Int. 2007;165(1):1–9.
- Patil MS, Patil SB, Acharya AB. Palatine rugae and their significance in clinical dentistry: a review of the literature. J Am Dent Assoc. 2008;139(11):1471–8.
- Saxena S, Sharma P, Gupta N. Experimental studies of forensic odontology to aid in the identification process. J Forensic Dent Sci. 2010;2(2):69–76.

Chapter 12 — Child Abuse and Neglect Recognition

12.1 Child abuse overview · 12.2 Orofacial manifestations of abuse · 12.3 Dental neglect · 12.4 Documentation and reporting

Core texts: [1] Ch. on abuse and neglect · [3] · [4] · [27]

Additional

- Cairns AM, Mok JYQ, Welbury RR. Injuries to the head, face, mouth and neck in physically abused children in a community setting. Int J Paediatr Dent. 2005;15(5):310–18.
- Committee of Postgraduate Dental Deans and Directors (COPDEND). Child Protection and the Dental Team: an introduction to safeguarding children in dental practice. Sheffield: COPDEND; 2006.
- Maguire S, Hunter B, Hunter L, Sibert JR, Mann M, Kemp AM. Diagnosing abuse: a systematic review of torn frenum and other intra-oral injuries. Arch Dis Child. 2007;92(12):1113–17.
- Harris JC, Elcock C, Sidebotham PD, Welbury RR. Safeguarding children in dentistry: 1. Child protection training, experience and practice of dental professionals with an interest in paediatric dentistry. Br Dent J. 2009;206(8):409–14.
- Harris JC, Elcock C, Sidebotham PD, Welbury RR. Safeguarding children in dentistry: 2. Do paediatric dentists neglect child dental neglect? Br Dent J. 2009;206(9):465–70.
- Hinchliffe J. Forensic odontology, part 5. Child abuse issues. Br Dent J. 2011;210(9):423–8.
- Fisher-Owens SA, Lukefahr JL, Tate AR; American Academy of Pediatrics Section on Oral Health; Committee on Child Abuse and Neglect; American Academy of Pediatric Dentistry Council on Clinical Affairs. Oral and dental aspects of child abuse and neglect. Pediatrics. 2017;140(2):e20171487.
- Ridsdale L, Gilchrist F, Balmer RC, Skelton R, Sidebotham PD, Harris JC. British Society of Paediatric Dentistry: a policy document on dental neglect in children. Int J Paediatr Dent. 2024;34(2):160–8.
- Royal College of Paediatrics and Child Health. Child Protection Evidence: dental neglect – systematic review. London: RCPCH; 2024. Available from: https://childprotection.rcpch.ac.uk
- National Institute for Health and Care Excellence. Child maltreatment: when to suspect maltreatment in under 18s. Clinical guideline CG89. London: NICE; 2009 (updated 2017).
- Department for Education. Working Together to Safeguard Children 2023. London: DfE; 2023.
- The Protection of Children from Sexual Offences Act, 2012 (Act No. 32 of 2012). New Delhi: Government of India; 2012.

Chapter 13 — Medico-Legal Documentation in Dentistry

13.1 Principles of dental record keeping · 13.2 Consent and legal documentation · 13.3 Medico-legal reports

Core texts: [1] Chs. on dental records and reports · [4] · [20] · [27]–[29]

Additional

- Charangowda BK. Dental records: an overview. J Forensic Dent Sci. 2010;2(1):5–10.
- Medical Protection Society. Dental records: good practice guidance. London: MPS. Available from: https://www.dentalprotection.org
- Gillick v West Norfolk and Wisbech Area Health Authority [1986] AC 112 (HL).
- Montgomery v Lanarkshire Health Board [2015] UKSC 11.
- Mental Capacity Act 2005 (c. 9). London: The Stationery Office; 2005.
- Data Protection Act 2018 (c. 12). London: The Stationery Office; 2018.

Chapter 14 — Dental Jurisprudence and Ethics

14.1 Principles of dental jurisprudence · 14.2 Professional negligence · 14.3 Ethical principles in forensic dentistry

Core texts: [1] Ch. on ethics and jurisprudence · [4] · [27] · [29]

Additional

- Beauchamp TL, Childress JF. Principles of Biomedical Ethics. 8th ed. New York: Oxford University Press; 2019.
- Wilkinson D, Herring J, Savulescu J. Medical Ethics and Law: A Curriculum for the 21st Century. 3rd ed. Edinburgh: Elsevier; 2020.
- Lambden P, editor. Dental Law and Ethics. Abingdon: Radcliffe Medical Press; 2002.
- D'Cruz L. Legal Aspects of General Dental Practice. Edinburgh: Churchill Livingstone; 2006.
- Bolam v Friern Hospital Management Committee [1957] 1 WLR 582.
- Bolitho v City and Hackney Health Authority [1998] AC 232 (HL).
- Indian Medical Association v V.P. Shantha (1995) 6 SCC 651.
- Jacob Mathew v State of Punjab (2005) 6 SCC 1.
- The Consumer Protection Act, 2019 (Act No. 35 of 2019). New Delhi: Government of India; 2019.

Chapter 15 — Courtroom Procedures and Expert Witness Testimony

15.1 Role of the expert witness · 15.2 Courtroom procedures · 15.3 Interpretation and communication of evidence

Core texts: [1] Ch. on the expert witness · [4] · [23]–[25]

Additional

- Frye v United States, 293 F 1013 (DC Cir 1923).
- Daubert v Merrell Dow Pharmaceuticals Inc, 509 US 579 (1993).
- Civil Justice Council. Guidance for the Instruction of Experts in Civil Claims. London: CJC; 2014.
- Ministry of Justice. Civil Procedure Rules, Part 35 – Experts and Assessors, and Practice Direction 35. London: MoJ. Available from: https://www.justice.gov.uk
- The Criminal Procedure Rules 2020 (SI 2020/759), Part 19 – Expert evidence. London: The Stationery Office; 2020.
- Law Commission. Expert Evidence in Criminal Proceedings in England and Wales. Law Com No 325. London: The Stationery Office; 2011.
- The Bharatiya Sakshya Adhiniyam, 2023 (Act No. 47 of 2023), Section 39 – Opinions of experts (formerly Indian Evidence Act, 1872, Section 45). New Delhi: Government of India; 2023.
- Dror IE, Charlton D, Péron AE. Contextual information renders experts vulnerable to making erroneous identifications. Forensic Sci Int. 2006;156(1):74–8.
- Kassin SM, Dror IE, Kukucka J. The forensic confirmation bias: problems, perspectives, and proposed solutions. J Appl Res Mem Cogn. 2013;2(1):42–52.

Chapter 16 — Forensic Photography and Evidence Handling

16.1 Principles of forensic photography · 16.2 Photography of dental evidence · 16.3 Evidence handling and chain of custody

Core texts: [1] Ch. on forensic photography · [4] · [5] · [21]

Additional

- Hyzer WG, Krauss TC. The bite mark standard reference scale – ABFO No. 2. J Forensic Sci. 1988;33(2):498–506.
- Ahmad I. Digital dental photography. Part 1: an overview. Br Dent J. 2009;206(8):403–7.

- Wright FD, Golden GS. The use of full spectrum digital photography for evidence collection and preservation in cases involving forensic odontology. Forensic Sci Int. 2010;201(1–3):59–67.
- Golden GS. Standards and practices for bite mark photography. J Forensic Odontostomatol. 2011;29(2):29–37.
- Robinson EM. Crime Scene Photography. 3rd ed. San Diego: Academic Press; 2016.
- Scientific Working Group on Imaging Technology. Best practices for maintaining the integrity of digital images and digital video. SWGIT. Available from: https://www.swgit.org
- Technical Working Group on Biological Evidence Preservation. The Biological Evidence Preservation Handbook: Best Practices for Evidence Handlers. NIST IR 7928. Gaithersburg (MD): National Institute of Standards and Technology; 2013.
- International Organization for Standardization. ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. Geneva: ISO; 2017.

Chapter 17 — Emerging Technologies in Forensic Odontology

17.1 Digital forensic dentistry · 17.2 3D imaging and reconstruction · 17.3 Future directions in forensic dentistry

Core texts: [1] · [10] · [20]

Additional

- Thali MJ, Braun M, Dirnhofer R. Optical 3D surface digitizing in forensic medicine: 3D documentation of skin and bone injuries. Forensic Sci Int. 2003;137(2–3):203–8.
- Jackowski C, Aghayev E, Sonnenschein M, Dirnhofer R, Thali MJ. Maximum intensity projection of cranial computed tomography data for dental identification. Int J Legal Med. 2006;120(3):165–7.
- De Angelis D, Cattaneo C, Grandi M. Dental superimposition: a pilot study for standardising the method. Int J Legal Med. 2007;121(6):501–6.
- Trochesset DA, Serchuk RB, Colosi DC. Generation of intra-oral-like images from cone beam computed tomography volumes for dental forensic image comparison. J Forensic Sci. 2014;59(2):510–13.
- Franco A, Willems G, Souza PHC, Bekkering GE, Thevissen P. The uniqueness of the human dentition as forensic evidence: a systematic review on the technological methodology. Int J Legal Med. 2015;129(6):1277–83.
- Mânica S, Forgie A. Forensic dentistry now and in the future. Dent Update. 2017;44(6):522–30.
- Reesu GV, Woodsend B, Mânica S, Revie GF, Brown NL, Mossey PA. Automated identification from dental data (AutoIDD): a new development in digital forensics. Forensic Sci Int. 2020;309:110218.
- Khanagar SB, Vishwanathaiah S, Naik S, Al-Kheraif AA, Divakar DD, Sarode SC, et al. Application and performance of artificial intelligence technology in forensic odontology – a systematic review. Leg Med (Tokyo). 2021;48:101826.
- Scarfe WC, Angelopoulos C, editors. Maxillofacial Cone Beam Computed Tomography: Principles, Techniques and Clinical Applications. Cham: Springer; 2018.

Compiled for BM Education FZE. Editions were current at the time of compilation; readers should consult the most recent edition of each text and the current version of each guideline.