Dental Public Health Methods

Subject 12 — Bachelor of Dental Surgery

Reference and Resource List — Chapters 1 to 15

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 dental public health and community dentistry texts

1. Daly B, Batchelor P, Treasure E, Watt R. Essential Dental Public Health. 2nd ed. Oxford: Oxford University Press; 2013.

2. Mascarenhas AK, Okunseri C, Dye BA, editors. Burt and Eklund's Dentistry, Dental Practice, and the Community. 7th ed. St Louis: Elsevier; 2021.

3. Peter S. Essentials of Public Health Dentistry (Community Dentistry). 7th ed. New Delhi: Arya Medi Publishing House; 2023.

4. Hiremath SS. Textbook of Public Health Dentistry. 3rd ed. New Delhi: Elsevier India; 2016.

5. Marya CM. A Textbook of Public Health Dentistry. New Delhi: Jaypee Brothers Medical Publishers; 2011.

6. Pine C, Harris R, editors. Community Oral Health. 2nd ed. London: Quintessence Publishing; 2007.

1.2 Epidemiology, biostatistics and research methods

7. Park K. Park's Textbook of Preventive and Social Medicine. 28th ed. Jabalpur: Bhanot Publishers; 2025.

8. Celentano DD, Szklo M. Gordis Epidemiology. 6th ed. Philadelphia: Elsevier; 2019.

9. Bonita R, Beaglehole R, Kjellstrom T. Basic Epidemiology. 2nd ed. Geneva: World Health Organization; 2006.

10. Rothman KJ. Epidemiology: An Introduction. 2nd ed. New York: Oxford University Press; 2012.

11. Petrie A, Sabin C. Medical Statistics at a Glance. 4th ed. Chichester: Wiley Blackwell; 2019.

12. Kirkwood BR, Sterne JAC. Essential Medical Statistics. 2nd ed. Oxford: Blackwell Science; 2003.

1.3 Health promotion, behaviour change and communication

13. Wills J. Foundations for Health Promotion. 5th ed. Edinburgh: Elsevier; 2022.

14. Green J, Cross R, Woodall J, Tones K. Health Promotion: Planning and Strategies. 4th ed. London: SAGE Publications; 2019.

15. Miller WR, Rollnick S. Motivational Interviewing: Helping People Change and Grow. 4th ed. New York: Guilford Press; 2023.

16. Ramseier CA, Suvan JE, editors. Health Behavior Change in the Dental Practice. Ames (IA): Wiley-Blackwell; 2010.

17. World Health Organization. Ottawa Charter for Health Promotion. Geneva: WHO; 1986. Available from: https://www.who.int/teams/health-promotion/enhanced-wellbeing/first-global-conference

18. World Health Organization. Health promotion glossary of terms 2021. Geneva: WHO; 2021.

1.4 Prevention and cariology

19. Fejerskov O, Nyvad B, editors. Dental Caries: The Disease and Its Clinical Management. 4th ed. Hoboken (NJ): Wiley Blackwell; 2025.

20. Kidd EAM, Fejerskov O. Essentials of Dental Caries. 4th ed. Oxford: Oxford University Press; 2016.

21. Murray JJ, Nunn JH, Steele JG, editors. Prevention of Oral Disease. 4th ed. Oxford: Oxford University Press; 2003.

22. Office for Health Improvement and Disparities, Department of Health and Social Care, NHS England. Delivering better oral health: an evidence-based toolkit for prevention. 4th ed. London; 2021. Available from: https://www.gov.uk/government/publications/delivering-better-oral-health-an-evidence-based-toolkit-for-prevention

23. Scottish Dental Clinical Effectiveness Programme. Prevention and Management of Dental Caries in Children. 2nd ed. Dundee: SDCEP; 2018. Available from: https://www.sdcep.org.uk

1.5 Survey methods, indices and global oral health surveillance

24. World Health Organization. Oral Health Surveys: Basic Methods. 5th ed. Geneva: WHO; 2013.

25. World Health Organization. Global oral health status report: towards universal health coverage for oral health by 2030. Geneva: WHO; 2022. Available from: https://www.who.int/publications/i/item/9789240061484

26. World Health Organization. Global strategy and action plan on oral health 2023-2030. Geneva: WHO; 2024. Available from: https://www.who.int/publications/i/item/9789240090538

27. Peres MA, Macpherson LMD, Weyant RJ, et al. Oral diseases: a global public health challenge. Lancet. 2019;394(10194):249-60.

28. Watt RG, Daly B, Allison P, et al. Ending the neglect of global oral health: time for radical action. Lancet. 2019;394(10194):261-72.

29. Bernabe E, Marcenes W, Hernandez CR, et al. Global, regional, and national levels and trends in burden of oral conditions from 1990 to 2017: a systematic analysis for the Global Burden of Disease 2017 study. J Dent Res. 2020;99(4):362-73.

1.6 Health economics, policy, ethics and health systems

30. Drummond MF, Sculpher MJ, Claxton K, Stoddart GL, Torrance GW. Methods for the Economic Evaluation of Health Care Programmes. 4th ed. Oxford: Oxford University Press; 2015.

31. Nuffield Council on Bioethics. Public health: ethical issues. London: Nuffield Council on Bioethics; 2007. Available from: https://www.nuffieldbioethics.org

32. Commission on Social Determinants of Health. Closing the gap in a generation: health equity through action on the social determinants of health. Geneva: World Health Organization; 2008.

33. Marmot M, Allen J, Goldblatt P, et al. Fair Society, Healthy Lives: The Marmot Review. London: Institute of Health Equity; 2010.

34. World Health Organization. Health in All Policies: Helsinki Statement. Framework for country action. Geneva: WHO; 2014.

1.7 Evidence, critical appraisal, reporting standards and professional requirements

35. Higgins JPT, Thomas J, Chandler J, et al., editors. Cochrane Handbook for Systematic Reviews of Interventions. Version 6.5. London: Cochrane; 2024. Available from: https://training.cochrane.org/handbook

36. Greenhalgh T, Dijkstra P. How to Read a Paper: The Basics of Evidence-based Medicine and Healthcare. 7th ed. Hoboken (NJ): Wiley Blackwell; 2025.

37. Page MJ, McKenzie JE, Bossuyt PM, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. BMJ. 2021;372:n71.

38. von Elm E, Altman DG, Egger M, Pocock SJ, Gotzsche PC, Vandenbroucke JP. The Strengthening the Reporting of Observational Studies in Epidemiology (STROBE) statement: guidelines for reporting observational studies. Lancet. 2007;370(9596):1453-7.

39. CONSORT 2025 statement: updated guideline for reporting randomised trials. BMJ. 2025;389:e081123.

40. Guyatt GH, Oxman AD, Vist GE, et al. GRADE: an emerging consensus on rating quality of evidence and strength of recommendations. BMJ. 2008;336(7650):924-6.

41. Brouwers MC, Kho ME, Browman GP, et al. AGREE II: advancing guideline development, reporting and evaluation in health care. CMAJ. 2010;182(18):E839-42.

42. National Institute for Health and Care Excellence. Oral health: local authorities and partners. NICE public health guideline PH55. London: NICE; 2014. Available from: https://www.nice.org.uk/guidance/ph55

43. National Institute for Health and Care Excellence. Oral health promotion: general dental practice. NICE guideline NG30. London: NICE; 2015. Available from: https://www.nice.org.uk/guidance/ng30

44. General Dental Council. The Safe Practitioner: a framework of behaviours and outcomes for dental professional education. London: GDC; 2023. Available from: https://www.gdc-uk.org

45. Dental Council of India. Bachelor of Dental Surgery (BDS) Course Regulations, 2007 (as amended). New Delhi: DCI.

Key journals for currency

Community Dentistry and Oral Epidemiology · Community Dental Health · Journal of Public Health Dentistry · International Dental Journal · Journal of Dental Research · British Dental Journal · Caries Research · BMC Oral Health · Evidence-Based Dentistry · Bulletin of the World Health Organization

PART 2 — CHAPTER-SPECIFIC REFERENCES

Chapter 1 — Foundations of Dental Public Health Methods

1.1 Definition, scope and core functions of dental public health · 1.2 Determinants of oral health · 1.3 Health inequalities and inequities · 1.4 Concepts of need, demand and supply · 1.5 Levels and strategies of prevention · 1.6 Ethics and values in public health practice · 1.7 Health systems, financing and service delivery

Core texts: [1] Part 1 (principles of dental public health) and the section on health services · [2] Chs. 1-4 (practice of dental public health, social determinants, access, ethics) · [3] chapters on introduction to public health and public health dentistry · [4] introductory sections on public health and dental public health · [7] chapters on concepts of health and disease and on health care delivery · [27] · [32] · [33]

Additional

- Petersen PE. The World Oral Health Report 2003: continuous improvement of oral health in the 21st century - the approach of the WHO Global Oral Health Programme. Community Dent Oral Epidemiol. 2003;31(Suppl 1):3-23.
- Glick M, Williams DM, Kleinman DV, Vujicic M, Watt RG, Weyant RJ. A new definition for oral health developed by the FDI World Dental Federation opens the door to a universal definition of oral health. J Am Dent Assoc. 2016;147(12):915-17.
- Sheiham A, Watt RG. The common risk factor approach: a rational basis for promoting oral health. Community Dent Oral Epidemiol. 2000;28(6):399-406.
- Rose G. Sick individuals and sick populations. Int J Epidemiol. 1985;14(1):32-8.
- Tudor Hart J. The inverse care law. Lancet. 1971;1(7696):405-12.
- Watt RG. From victim blaming to upstream action: tackling the social determinants of oral health inequalities. Community Dent Oral Epidemiol. 2007;35(1):1-11.
- Bradshaw J. A taxonomy of social need. In: McLachlan G, editor. Problems and Progress in Medical Care: Essays on Current Research. 7th series. London: Oxford University Press; 1972.

Chapter 2 — Measuring Oral Health: Indicators and Surveillance

Indicators and indices: definitions, desirable properties and classification · Caries indices: DMFT/DMFS, dmft, Care Index and the Significant Caries Index · Periodontal measurement: CPI/CPITN and the WHO periodontal probe · Oral hygiene and gingival indices · Fluorosis, malocclusion and dental trauma indices · Oral health-related quality of life measures · WHO Basic Methods assessment form, index ages and partial recording · Oral health surveillance systems and routine data sources

Core texts: [24] assessment form, index ages and diagnostic criteria · [2] Chs. 14-17 (measurement and distribution of caries, periodontal disease, oral cancer and tooth loss) · [1] the oral epidemiology section · [3]

chapters on survey procedures and on the epidemiology of individual diseases · [4] chapters on indices in dental epidemiology · [5] the chapters on indices and on epidemiological survey methods · [25]

Additional

- Klein H, Palmer CE, Knutson JW. Studies on dental caries: I. Dental status and dental needs of elementary school children. Public Health Rep. 1938;53(19):751-65.
- Bratthall D. Introducing the Significant Caries Index together with a proposal for a new global oral health goal for 12-year-olds. Int Dent J. 2000;50(6):378-84.
- Ainamo J, Barmes D, Beagrie G, Cutress T, Martin J, Sardo-Infirri J. Development of the World Health Organization (WHO) community periodontal index of treatment needs (CPITN). Int Dent J. 1982;32(3):281-91.
- Greene JC, Vermillion JR. The simplified oral hygiene index. J Am Dent Assoc. 1964;68:7-13.
- Loe H, Silness J. Periodontal disease in pregnancy. I. Prevalence and severity. Acta Odontol Scand. 1963;21:533-51.
- Brook PH, Shaw WC. The development of an index of orthodontic treatment priority. Eur J Orthod. 1989;11(3):309-20.
- Slade GD. Derivation and validation of a short-form oral health impact profile. Community Dent Oral Epidemiol. 1997;25(4):284-90.
- Ismail AI, Sohn W, Tellez M, et al. The International Caries Detection and Assessment System (ICDAS): an integrated system for measuring dental caries. Community Dent Oral Epidemiol. 2007;35(3):170-8.

Chapter 3 — Epidemiology and Biostatistics for Dental Public Health (Applied Methods)

3.1 Descriptive epidemiology: person, place and time; age standardization · 3.2 Disease measures: prevalence, incidence and severity indices · 3.3 Association and causation: Bradford Hill viewpoints · 3.4 Measures of effect: risk ratio and odds ratio · 3.5 Diagnostic test validity: sensitivity, specificity and predictive values · 3.6 Basic biostatistics: measures of central tendency, spread and confidence intervals · 3.7 P-values and statistical versus clinical significance · 3.8 Tables and graphs for public health reporting

Core texts: [8] chapters on measures of disease frequency, measures of association and assessment of diagnostic tests · [9] chapters on measuring health and disease and on causation · [10] chapters on measures of occurrence and effect · [11] sections on descriptive statistics, estimation and hypothesis testing · [12] chapters on confidence intervals and significance testing · [2] Chs. 12-13 (research designs in oral epidemiology; biostatistics) · [7] the epidemiology and health statistics chapters

Additional

- Bradford Hill A. The environment and disease: association or causation? Proc R Soc Med. 1965;58(5):295-300.
- Ahmad OB, Boschi-Pinto C, Lopez AD, Murray CJL, Lozano R, Inoue M. Age standardization of rates: a new WHO standard. GPE Discussion Paper Series No. 31. Geneva: World Health Organization; 2001.
- Altman DG, Bland JM. Diagnostic tests 1: sensitivity and specificity. BMJ. 1994;308(6943):1552.
- Altman DG, Bland JM. Diagnostic tests 2: predictive values. BMJ. 1994;309(6947):102.
- Gardner MJ, Altman DG. Confidence intervals rather than P values: estimation rather than hypothesis testing. Br Med J (Clin Res Ed). 1986;292(6522):746-50.
- Sterne JAC, Davey Smith G. Sifting the evidence - what's wrong with significance tests? BMJ. 2001;322(7280):226-31.
- Wasserstein RL, Lazar NA. The ASA statement on p-values: context, process, and purpose. Am Stat. 2016;70(2):129-33.

Chapter 4 — Study Design and Research Methods in Dental Public Health

4.1 Cross-sectional studies and oral health surveys · 4.2 Case-control studies: identifying risk factors · 4.3 Cohort studies: risk and natural history · 4.4 Experimental designs: randomised controlled trials and community trials · 4.5 Qualitative research: interviews and focus groups · 4.6 Mixed methods research · 4.7 Common biases: selection bias, information bias and confounding · 4.8 Critical appraisal basics: internal and external validity

Core texts: [8] chapters on cohort, case-control and randomised trial designs and on bias and confounding · [10] chapters on types of epidemiological study and on validity · [36] chapters on assessing methodological quality and on papers that report trials · [38] · [39] · [2] Ch. 12 (research designs in oral epidemiology)

Additional

- Grimes DA, Schulz KF. An overview of clinical research: the lay of the land. Lancet. 2002;359(9300):57-61.
- Schulz KF, Grimes DA. Generation of allocation sequences in randomised trials: chance, not choice. Lancet. 2002;359(9305):515-19.
- Levin KA. Study design III: cross-sectional studies. Evid Based Dent. 2006;7(1):24-5.
- Levin KA. Study design IV: cohort studies. Evid Based Dent. 2006;7(2):51-2.
- Sedgwick P. Case-control studies: advantages and disadvantages. BMJ. 2014;348:f7707.
- Pope C, Mays N. Qualitative research: reaching the parts other methods cannot reach - an introduction to qualitative methods in health and health services research. BMJ. 1995;311(6996):42-5.
- Braun V, Clarke V. Using thematic analysis in psychology. Qual Res Psychol. 2006;3(2):77-101.
- O'Cathain A, Murphy E, Nicholl J. Why, and how, mixed methods research is undertaken in health services research in England: a mixed methods study. BMC Health Serv Res. 2007;7:85.

Chapter 5 — Needs Assessment and Priority Setting

5.1 Steps of needs assessment: define population, measure need, identify determinants, plan response · 5.2 Rapid versus comprehensive needs assessments · 5.3 Priority setting criteria: burden, severity, equity, feasibility, cost and acceptability · 5.4 Burden-of-disease measures and the DALY concept · 5.5 Stakeholder engagement in priority setting · 5.6 Translating needs into measurable (SMART) objectives

Core texts: [1] the chapters on need and on planning oral health services · [2] Ch. 3 (access to dental care) and the health promotion and prevention section · [6] the chapters on assessing oral health needs and planning services · [3] the planning and evaluation chapter · [29] · [30] the introductory chapters on choices and priority setting

Additional

- Sheiham A, Maizels JE, Cushing AM. The concept of need in dental care. Int Dent J. 1982;32(3):265-70.
- Wright J, Williams R, Wilkinson JR. Development and importance of health needs assessment. BMJ. 1998;316(7140):1310-13.
- Stevens A, Gillam S. Needs assessment: from theory to practice. BMJ. 1998;316(7142):1448-52.
- Murray CJL, Lopez AD. Global mortality, disability, and the contribution of risk factors: Global Burden of Disease Study. Lancet. 1997;349(9063):1436-42.
- Vos T, Lim SS, Abbafati C, et al. Global burden of 369 diseases and injuries in 204 countries and territories, 1990-2019: a systematic analysis for the Global Burden of Disease Study 2019. Lancet. 2020;396(10258):1204-22.
- Doran GT. There's a S.M.A.R.T. way to write management's goals and objectives. Manage Rev. 1981;70(11):35-6.
- Public Health England. Commissioning better oral health for children and young people: an evidence-informed toolkit for local authorities. London: PHE; 2014.

Chapter 6 — Planning Oral Health Programs (Program Design Methods)

The programme planning cycle: situational analysis, objectives, strategy, implementation, evaluation · Setting programme aims and SMART objectives · Logic models: inputs, activities, outputs, outcomes and impact · Selecting interventions from the evidence base · Population versus high-risk strategies and the prevention paradox · Upstream, midstream and downstream interventions · Settings-based and school programmes · Culturally appropriate messaging, equity and sustainability

Core texts: [14] the chapters on planning and programme design · [6] the chapters on planning and evaluating oral health programmes · [1] the prevention and oral health promotion section · [3] the planning and evaluation and school oral health programme chapters · [22] · [42] · [43]

Additional

- Green LW, Kreuter MW. Health Program Planning: An Educational and Ecological Approach. 4th ed. New York: McGraw-Hill; 2005.

- Rose G. The Strategy of Preventive Medicine. Oxford: Oxford University Press; 1992.
- W.K. Kellogg Foundation. Logic Model Development Guide. Battle Creek (MI): W.K. Kellogg Foundation; 2004.
- Watt RG. Strategies and approaches in oral disease prevention and health promotion. Bull World Health Organ. 2005;83(9):711-18.
- Watt RG. Emerging theories into the social determinants of health: implications for oral health promotion. Community Dent Oral Epidemiol. 2002;30(4):241-7.
- Petersen PE, Kwan S. Evaluation of community-based oral health promotion and oral disease prevention: WHO recommendations for improved evidence in public health practice. Community Dent Health. 2004;21(4 Suppl):319-29.

Chapter 7 — Prevention Methods in Dental Public Health (Evidence-Informed)

7.1 Fluoride methods: water, salt and milk · 7.2 Topical fluoride programmes · 7.3 Pit and fissure sealants · 7.4 Sugar reduction · 7.5 Tobacco and areca cessation · 7.6 Oral cancer screening · 7.7 Injury prevention and mouthguards · 7.8 The common risk factor approach

Core texts: [22] · [19] Ch. 14 (fluorides in caries control) and the caries control chapters · [20] the chapters on fluoride and on caries prevention · [21] the chapters on fluoride, sealants and diet · [23] · [26]

Additional

- Iheozor-Ejiofor Z, Walsh T, Lewis SR, et al. Water fluoridation for the prevention of dental caries. Cochrane Database Syst Rev. 2024;10(10):CD010856.
- Marinho VCC, Worthington HV, Walsh T, Clarkson JE. Fluoride varnishes for preventing dental caries in children and adolescents. Cochrane Database Syst Rev. 2013;(7):CD002279.
- Walsh T, Worthington HV, Glenny AM, Marinho VCC, Jeroncic A. Fluoride toothpastes of different concentrations for preventing dental caries. Cochrane Database Syst Rev. 2019;3:CD007868.
- Kashbour W, Gupta P, Worthington HV, Boyers D. Pit and fissure sealants versus fluoride varnishes for preventing dental decay in the permanent teeth of children and adolescents. Cochrane Database Syst Rev. 2020;11:CD003067.
- Moynihan PJ, Kelly SAM. Effect on caries of restricting sugars intake: systematic review to inform WHO guidelines. J Dent Res. 2014;93(1):8-18.
- World Health Organization. Guideline: sugars intake for adults and children. Geneva: WHO; 2015.
- World Health Organization. WHO report on the global tobacco epidemic, 2023: protect people from tobacco smoke. Geneva: WHO; 2023.
- Warnakulasuriya S. Global epidemiology of oral and oropharyngeal cancer. Oral Oncol. 2009;45(4-5):309-16.
- American Dental Association Council on Access, Prevention and Interprofessional Relations. Using mouthguards to reduce the incidence and severity of sports-related oral injuries. J Am Dent Assoc. 2006;137(12):1712-20.

Chapter 8 — Health Promotion and Behaviour Change Methods

8.1 Health education versus health promotion · 8.2 Behaviour change theories: Health Belief Model and Theory of Planned Behaviour · 8.3 Motivational interviewing and brief interventions · 8.4 Designing educational materials: readability, visuals, language and key messages · 8.5 Community campaigns: channels and message testing · 8.6 Evaluating education programmes: knowledge, behaviour and clinical outcomes

Core texts: [17] · [13] the chapters on theory, strategies and methods of health promotion · [14] the chapters on health education and behaviour change · [15] · [16] · [18]

Additional

- Rosenstock IM. Historical origins of the health belief model. Health Educ Monogr. 1974;2(4):328-35.
- Ajzen I. The theory of planned behavior. Organ Behav Hum Decis Process. 1991;50(2):179-211.
- Michie S, van Stralen MM, West R. The behaviour change wheel: a new method for characterising and designing behaviour change interventions. Implement Sci. 2011;6:42.
- Nutbeam D. Health literacy as a public health goal: a challenge for contemporary health education and communication strategies into the 21st century. Health Promot Int. 2000;15(3):259-67.

- Newton JT, Asimakopoulou K. Managing oral health related behaviour change: a review of theory and practice. J Clin Periodontol. 2015;42(Suppl 16):S36-46.
- Kay E, Locker D. A systematic review of the effectiveness of health promotion aimed at improving oral health. Community Dent Health. 1998;15(3):132-44.
- Watt RG, Marinho VC. Does oral health promotion improve oral hygiene and gingival health? Periodontol 2000. 2005;37:35-47.

Chapter 9 — Screening and Early Detection Programs (Methods)

9.1 Screening principles and the Wilson-Jungner criteria · 9.2 Types of screening: population, targeted/high-risk and opportunistic · 9.3 Oral cancer screening: visual examination protocols and referral pathways · 9.4 Caries screening in schools: index selection and referral criteria · 9.5 Periodontal screening: CPI and BPE, and their limitations · 9.6 Ethical issues in screening: false positives and negatives, anxiety and access to follow-up

> **Core texts:** [8] the chapters on the natural history of disease and on screening and diagnostic tests · [2] the methods and measurement section · [1] the prevention and screening material · [24] the criteria used for field detection of disease · [31]

Additional

- Wilson JMG, Jungner G. Principles and Practice of Screening for Disease. Public Health Papers No. 34. Geneva: World Health Organization; 1968.
- Andermann A, Blancquaert I, Beauchamp S, Dery V. Revisiting Wilson and Jungner in the genomic age: a review of screening criteria over the past 40 years. Bull World Health Organ. 2008;86(4):317-19.
- UK National Screening Committee. Criteria for a population screening programme. London: UK NSC. Available from: https://www.gov.uk/government/publications/evidence-review-criteria-national-screening-programmes
- Brocklehurst P, Kujan O, O'Malley LA, Ogden G, Shepherd S, Glenny AM. Screening programmes for the early detection and prevention of oral cancer. Cochrane Database Syst Rev. 2013;(11):CD004150.
- Sankaranarayanan R, Ramadas K, Thara S, et al. Long term effect of visual screening on oral cancer incidence and mortality in a randomized trial in Kerala, India. Oral Oncol. 2013;49(4):314-21.
- Speight PM, Epstein J, Kujan O, et al. Screening for oral cancer - a perspective from the Global Oral Cancer Forum. Oral Surg Oral Med Oral Pathol Oral Radiol. 2017;123(6):680-7.
- British Society of Periodontology and Implant Dentistry. Basic Periodontal Examination (BPE). London: BSP; 2019. Available from: https://www.bsperio.org.uk
- National Institute for Health and Care Excellence. Suspected cancer: recognition and referral. NICE guideline NG12. London: NICE; 2015. Available from: https://www.nice.org.uk/guidance/ng12

Chapter 10 — Survey Methods (Design, Conduct and Management)

10.1 Defining survey aims, outcomes and case definitions · 10.2 Sampling methods: random, stratified and cluster (school-based) · 10.3 Sample size: precision, confidence and design effect · 10.4 Examiner training and calibration: the kappa concept · 10.5 Data collection tools: paper forms and electronic data capture · 10.6 Field logistics: consent, infection control, equipment and team roles · 10.7 Data management: coding, cleaning, confidentiality and storage · 10.8 Reporting survey results: prevalence tables, stratification and mapping

> **Core texts:** [24] sampling, index ages, the assessment form and calibration requirements · [7] the sampling and health information chapters · [12] the chapters on sampling and on sample size determination · [2] Chs. 12-13 (research designs; biostatistics) · [3] the survey procedures chapter

Additional

- Landis JR, Koch GG. The measurement of observer agreement for categorical data. Biometrics. 1977;33(1):159-74.
- Cohen J. A coefficient of agreement for nominal scales. Educ Psychol Meas. 1960;20(1):37-46.
- Lwanga SK, Lemeshow S. Sample Size Determination in Health Studies: A Practical Manual. Geneva: World Health Organization; 1991.
- Bennett S, Woods T, Liyanage WM, Smith DL. A simplified general method for cluster-sample surveys of health in developing countries. World Health Stat Q. 1991;44(3):98-106.

- Pine CM, Pitts NB, Nugent ZJ. British Association for the Study of Community Dentistry (BASCD) guidance on the statistical aspects of training and calibration of examiners for surveys of child dental health. Community Dent Health. 1997;14(Suppl 1):18-29.
- Kingman A, Susin C, Albandar JM. Effect of partial recording protocols on severity estimates of periodontal disease. J Clin Periodontol. 2008;35(8):659-67.
- World Medical Association. Declaration of Helsinki: ethical principles for medical research involving human participants. JAMA. 2025;333(1):71-4.

Chapter 11 — Economic Evaluation and Resource Planning (Intro)

11.1 Why economics matters: limited resources and opportunity cost · 11.2 Types of economic evaluation: cost-minimization, cost-effectiveness and cost-utility · 11.3 Direct and indirect costs · 11.4 Cost-effectiveness of prevention (fluoride and sealants) · 11.5 Workforce planning: skill mix and task shifting · 11.6 Budgeting basics for a community programme

> **Core texts:** [30] the chapters on the principles of economic evaluation and on cost-effectiveness and cost-utility analysis · [2] Chs. 7-8 (financing dental care; the oral health workforce) · [1] the chapters on health service organisation and financing · [3] the chapters on finance in dental care and on planning dental manpower · [26]

Additional

- Robinson R. Economic evaluation and health care: what does it mean? BMJ. 1993;307(6905):670-3.
- Palmer S, Byford S, Raftery J. Economics notes: types of economic evaluation. BMJ. 1999;318(7194):1349.
- Listl S, Galloway J, Mossey PA, Marcenes W. Global economic impact of dental diseases. J Dent Res. 2015;94(10):1355-61.
- Righolt AJ, Jevdjevic M, Marcenes W, Listl S. Global-, regional-, and country-level economic impacts of dental diseases in 2015. J Dent Res. 2018;97(5):501-7.
- World Health Organization. Global strategy on human resources for health: workforce 2030. Geneva: WHO; 2016.
- Gallagher JE, Hutchinson L. Analysis of human resources for oral health globally: inequitable distribution. Int Dent J. 2018;68(3):183-9.
- World Health Organization. The World Health Report 2010. Health systems financing: the path to universal coverage. Geneva: WHO; 2010.

Chapter 12 — Evidence-Based Public Health and Critical Appraisal (Methods)

12.1 The evidence hierarchy: randomised trials, cohort, case-control, cross-sectional and qualitative studies · 12.2 Systematic reviews and meta-analyses and how they inform policy · 12.3 Guideline development and adaptation to local context · 12.4 Assessing bias and the applicability of evidence to populations · 12.5 Translating evidence into policy and practice (knowledge translation)

> **Core texts:** [35] the chapters on risk of bias and on interpreting results · [36] the chapters on searching the literature, papers that summarise other papers and getting evidence into practice · [37] · [40] · [41] · [2] Chs. 10-11 (reading the dental literature; evidence-based dentistry)

Additional

- Sackett DL, Rosenberg WMC, Gray JAM, Haynes RB, Richardson WS. Evidence based medicine: what it is and what it isn't. BMJ. 1996;312(7023):71-2.
- Richards D, Lawrence A. Evidence based dentistry. Br Dent J. 1995;179(7):270-3.
- Higgins JPT, Altman DG, Gotzsche PC, et al. The Cochrane Collaboration's tool for assessing risk of bias in randomised trials. BMJ. 2011;343:d5928.
- Sterne JAC, Savovic J, Page MJ, et al. RoB 2: a revised tool for assessing risk of bias in randomised trials. BMJ. 2019;366:l4898.
- Sterne JA, Hernan MA, Reeves BC, et al. ROBINS-I: a tool for assessing risk of bias in non-randomised studies of interventions. BMJ. 2016;355:i4919.
- Schunemann HJ, Wiercioch W, Brozek J, et al. GRADE Evidence to Decision (EtD) frameworks for adoption, adaptation and de novo development of trustworthy recommendations: GRADE-ADOLOPMENT. J Clin Epidemiol. 2017;81:101-10.

- Graham ID, Logan J, Harrison MB, et al. Lost in knowledge translation: time for a map? J Contin Educ Health Prof. 2006;26(1):13-24.

Chapter 13 — Monitoring and Evaluation (M&E) Methods

13.1 Process, outcome and impact evaluation · 13.2 Indicators and targets: selecting meaningful metrics · 13.3 Baseline and follow-up measurement and survey linkage · 13.4 Programme fidelity and adherence to planned delivery · 13.5 Continuous quality improvement in public health programmes · 13.6 Writing M&E reports and recommendations

> **Core texts:** [14] the chapters on evaluation and on quality assurance · [6] the chapter on evaluating oral health programmes · [3] the planning and evaluation chapter · [13] the chapters on evaluating health promotion · [24] the standards required for comparable baseline and follow-up surveys

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Chapter 14 — Policy, Legislation and Ethics in Oral Health

14.1 Policy tools: taxation, regulation, education and service provision · 14.2 Sugar and tobacco policy · 14.3 Water fluoridation debates · 14.4 Health in All Policies · 14.5 Data governance: privacy, consent and data sharing · 14.6 Equity impact assessment

> **Core texts:** [31] · [34] · [26] · [32] · [33] · [1] the chapters on ethics, policy and the organisation of services · [2] Ch. 4 (ethics and dental public health)

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- World Health Organization, Government of South Australia. Adelaide Statement on Health in All Policies: moving towards a shared governance for health and well-being. Geneva: WHO; 2010.
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Chapter 15 — Community Partnerships and Intersectoral Work

15.1 Working with schools, primary healthcare, municipalities and non-governmental organisations · 15.2 Stakeholder mapping and engagement methods · 15.3 Community participatory methods: focus groups and community advisory boards · 15.4 Cultural competence and language access planning · 15.5 Managing community expectations and sustainability planning

Core texts: [13] the chapters on settings and on working with communities · [6] the chapters on community-based programmes and partnerships · [26] · [34] · [42] · [28] · [1] the oral health promotion section

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