Community Dentistry III (Field Work and Surveys)

Year 4 — Bachelor of Dental Surgery

Reference and Resource List — Chapters 10.1 to 10.12

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 textbooks

1. Daly B, Batchelor P, Treasure ET, Watt RG. 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. Pine CM, Harris R, editors. Community Oral Health. 2nd ed. London: Quintessence Publishing; 2007.
4. Peter S. Essentials of Public Health Dentistry. 7th ed. New Delhi: Arya Medi Publishing House; 2022.
5. Hiremath SS. Textbook of Public Health Dentistry. 3rd ed. New Delhi: Elsevier India; 2016.
6. Marya CM, editor. A Textbook of Public Health Dentistry. New Delhi: Jaypee Brothers Medical Publishers; 2011.

1.2 Oral health surveys, field methods and measurement

7. World Health Organization. Oral Health Surveys: Basic Methods. 5th ed. Geneva: WHO; 2013. Available from: https://www.who.int/publications/i/item/9789241548649
8. World Health Organization. WHO STEPS Surveillance Manual: the WHO STEPwise approach to noncommunicable disease risk factor surveillance. Geneva: WHO; 2017. Available from: https://www.who.int/teams/noncommunicable-diseases/surveillance/systems-tools/steps
9. Landis JR, Koch GG. The measurement of observer agreement for categorical data. Biometrics. 1977;33(1):159–74.
10. Streiner DL, Norman GR, Cairney J. Health Measurement Scales: A Practical Guide to Their Development and Use. 5th ed. Oxford: Oxford University Press; 2015.

1.3 Epidemiology and biostatistics

11. Bonita R, Beaglehole R, Kjellström T. Basic Epidemiology. 2nd ed. Geneva: World Health Organization; 2006.
12. Celentano DD, Szklo M, Farag YMK. Gordis Epidemiology. 7th ed. Philadelphia: Elsevier; 2024.
13. Altman DG. Practical Statistics for Medical Research. London: Chapman and Hall; 1991.
14. Kirkwood BR, Sterne JAC. Essential Medical Statistics. 2nd ed. Oxford: Blackwell Science; 2003.
15. von Elm E, Altman DG, Egger M, Pocock SJ, Gøtzsche PC, Vandenbroucke JP; STROBE Initiative. The Strengthening the Reporting of Observational Studies in Epidemiology (STROBE) statement: guidelines for reporting observational studies. Lancet. 2007;370(9596):1453–7.

1.4 Prevention, health promotion and social determinants

16. 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.
17. 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.
18. Peres MA, Macpherson LMD, Weyant RJ, Daly B, Venturelli R, Mathur MR, et al. Oral diseases: a global public health challenge. Lancet. 2019;394(10194):249–60.
19. World Health Organization. Ottawa Charter for Health Promotion. First International Conference on Health Promotion, Ottawa, 21 November 1986. Geneva: WHO; 1986. Available from: https://www.who.int/teams/health-promotion/enhanced-wellbeing/first-global-conference
20. Slade GD. Derivation and validation of a short-form oral health impact profile. Community Dent Oral Epidemiol. 1997;25(4):284–90.

1.5 Policy, guidelines and regulatory sources

21. 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

22. 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

23. FDI World Dental Federation. Vision 2030: Delivering Optimal Oral Health for All. Geneva: FDI; 2021. Available from: https://www.fdiworlddental.org/vision-2030

24. 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: OHID; 2021. Available from: https://www.gov.uk/government/publications/delivering-better-oral-health-an-evidence-based-toolkit-for-prevention

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

26. General Dental Council. Preparing for practice: dental team learning outcomes for registration. London: GDC; 2015. Available from: https://www.gdc-uk.org

27. 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

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

1.6 Key journals for currency

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

PART 2 — CHAPTER-SPECIFIC REFERENCES

Chapter 10.1 — Foundations of Community Dentistry III (Applied Public Health Dentistry)

10.1.1 Scope and objectives · 10.1.2 Concepts of oral health in populations · 10.1.3 Levels of prevention in community dentistry

Core texts: [1] Chs. on the principles of dental public health, determinants of oral health and prevention · [2] Chs. on the dental profession and the community, and on prevention and control of oral diseases · [3] Chs. on population oral health and health promotion · [4] Chs. on public health, dental public health and levels of prevention · [5] · [16] · [17] · [18] · [20] · [21] · [23]

Additional

- World Health Organization. Oral health [fact sheet]. Geneva: WHO; 2025. Available from: https://www.who.int/news-room/fact-sheets/detail/oral-health
- 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. Int Dent J. 2016;66(6):322–4.
- Locker D. Measuring oral health: a conceptual framework. Community Dent Health. 1988;5(1):3–18.
- Watt RG, Sheiham A. Integrating the common risk factor approach into a social determinants framework. Community Dent Oral Epidemiol. 2012;40(4):289–96.
- Leavell HR, Clark EG. Preventive Medicine for the Doctor in His Community: An Epidemiologic Approach. 3rd ed. New York: McGraw-Hill; 1965.
- Wilson JMG, Jungner G. Principles and Practice of Screening for Disease. Public Health Papers No. 34. Geneva: World Health Organization; 1968.

Chapter 10.2 — Principles of Dental Public Health Surveys

10.2.1 Why surveys are conducted · 10.2.2 Types of surveys · 10.2.3 Basic epidemiology concepts applied

Core texts: [1] Ch. on oral epidemiology · [2] Chs. on the epidemiology of oral diseases and on research methods · [4] Chs. on epidemiology and survey procedures · [5] · [7] Introduction and survey-design sections · [11] Chs. on measuring health and disease, and on types of study · [12] Chs. on epidemiologic study designs and on the validity of screening tests · [15]

Additional

- Lash TL, VanderWeele TJ, Haneuse S, Rothman KJ. Modern Epidemiology. 4th ed. Philadelphia: Wolters Kluwer; 2021.
- Friis RH, Sellers TA. Epidemiology for Public Health Practice. 6th ed. Burlington (MA): Jones & Bartlett Learning; 2021.
- Kleinbaum DG, Kupper LL, Morgenstern H. Epidemiologic Research: Principles and Quantitative Methods. Belmont (CA): Lifetime Learning Publications; 1982.
- Petersen PE, Bourgeois D, Bratthall D, Ogawa H. Oral health information systems — towards measuring progress in oral health promotion and disease prevention. Bull World Health Organ. 2005;83(9):686–93.
- Kassebaum NJ, Bernabé E, Dahiya M, Bhandari B, Murray CJL, Marcenes W. Global burden of untreated caries: a systematic review and metaregression. J Dent Res. 2015;94(5):650–8.
- Bernabé E, Marcenes W, Hernandez CR, Bailey J, Abreu LG, Alipour V, 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.
- Pitts NB, Boyles J, Nugent ZJ, Thomas N, Pine CM. The dental caries experience of 5-year-old children in Great Britain (2005/6). Surveys co-ordinated by the British Association for the Study of Community Dentistry. Community Dent Health. 2007;24(1):59–63.

Chapter 10.3 — Survey Planning and Study Design (Field Work Blueprint)

10.3.1 Defining objectives and research questions · 10.3.2 Target population and eligibility · 10.3.3 Sampling methods · 10.3.4 Ethical approvals and permissions

Core texts: [1] Ch. on oral epidemiology · [2] Ch. on research methods and evidence · [4] Chs. on survey procedures and on ethics in public health dentistry · [5] · [7] Sections on survey design, sampling (pathfinder methodology) and organisation · [11] Chs. on types of study and on ethics · [12] Chs. on study design and on ethical issues in epidemiology · [14] Chs. on sampling and sample size · [15]

Additional

- Lwanga SK, Lemeshow S. Sample Size Determination in Health Studies: A Practical Manual. Geneva: World Health Organization; 1991.
- Lemeshow S, Hosmer DW Jr, Klar J, Lwanga SK. Adequacy of Sample Size in Health Studies. Chichester: John Wiley & Sons; 1990.
- Kish L. Survey Sampling. New York: John Wiley & Sons; 1965.
- Cochran WG. Sampling Techniques. 3rd ed. New York: John Wiley & Sons; 1977.
- 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.
- World Medical Association. Declaration of Helsinki: ethical principles for medical research involving human participants. Revised at the 75th WMA General Assembly, Helsinki, October 2024. Ferney-Voltaire: WMA; 2024. Available from: https://www.wma.net
- Council for International Organizations of Medical Sciences. International Ethical Guidelines for Health-related Research Involving Humans. 4th ed. Geneva: CIOMS; 2016.
- European Parliament and Council of the European Union. Regulation (EU) 2016/679 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data (General Data Protection Regulation). Official Journal of the European Union. 2016;L119:1–88.

Chapter 10.4 — Survey Instruments: Questionnaire and Clinical Proforma

10.4.1 Questionnaire design · 10.4.2 Clinical examination proforma · 10.4.3 Reliability and validity in field surveys

Core texts: [1] Ch. on oral epidemiology · [2] Chs. on research methods and on measuring oral disease · [4] Chs. on survey procedures and on indices · [5] · [7] Sections on the oral health assessment form, the oral health questionnaires and examiner training and calibration · [9] · [10] Chs. on devising items, reliability and validity · [13] Ch. on measurement agreement

Additional

- Eklund SA, Møller IJ, LeClercq MH. Calibration of Examiners for Oral Health Epidemiological Surveys. ORH/EIS/EPID.93.1. Geneva: World Health Organization; 1993.
- Bowling A. Research Methods in Health: Investigating Health and Health Services. 4th ed. Maidenhead: Open University Press; 2014.
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- Beaton DE, Bombardier C, Guillemin F, Ferraz MB. Guidelines for the process of cross-cultural adaptation of self-report measures. Spine (Phila Pa 1976). 2000;25(24):3186–91.
- Cohen J. A coefficient of agreement for nominal scales. Educ Psychol Meas. 1960;20(1):37–46.
- Bland JM, Altman DG. Statistical methods for assessing agreement between two methods of clinical measurement. Lancet. 1986;1(8476):307–10.

Chapter 10.5 — Field Work Logistics and Infection Control

10.5.1 Planning the field visit · 10.5.2 Examination setup · 10.5.3 Documentation and data workflow

Core texts: [2] Ch. on infection control and the practice environment · [4] Chs. on survey procedures and on infection control in dental practice · [5] · [6] · [7] Sections on organising the survey, examination area and instruments, and infection control during examinations · [8] Sections on field logistics and data management

Additional

- Kohn WG, Collins AS, Cleveland JL, Harte JA, Eklund KJ, Malvitz DM; Centers for Disease Control and Prevention. Guidelines for infection control in dental health-care settings — 2003. MMWR Recomm Rep. 2003;52(RR-17):1–61.
- Centers for Disease Control and Prevention. Summary of Infection Prevention Practices in Dental Settings: Basic Expectations for Safe Care. Atlanta: CDC; 2016. Available from: https://www.cdc.gov
- World Health Organization. WHO Guidelines on Hand Hygiene in Health Care. Geneva: WHO; 2009. Available from: https://www.who.int/publications/i/item/9789241597906
- World Health Organization, Pan American Health Organization. Decontamination and Reprocessing of Medical Devices for Health-care Facilities. Geneva: WHO; 2016.
- Chartier Y, Emmanuel J, Pieper U, Prüss A, Rushbrook P, Stringer R, et al., editors. Safe Management of Wastes from Health-care Activities. 2nd ed. Geneva: World Health Organization; 2014.
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- Miller CH. Infection Control and Management of Hazardous Materials for the Dental Team. 6th ed. St Louis: Elsevier; 2018.
- Occupational Safety and Health Administration. Bloodborne Pathogens Standard, 29 CFR 1910.1030. Washington (DC): OSHA; 1991 (as amended).

Chapter 10.6 — Oral Health Indices Used in Surveys (Core Year 4 Competency)

10.6.1 Dental caries indices · 10.6.2 Periodontal indices · 10.6.3 Oral hygiene indices · 10.6.4 Malocclusion indices · 10.6.5 Fluorosis and enamel defects · 10.6.6 Oral cancer and tobacco-related screening

Core texts: [1] Ch. on oral epidemiology · [2] Ch. on measuring oral disease · [4] Ch. on indices used in dental epidemiology · [5] Ch. on dental indices · [6] · [7] Sections on the oral health assessment form: dentition status, periodontal status, enamel fluorosis, dental erosion, dental trauma and oral mucosal lesions · [9]

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.
- Gruebbel AO. A measurement of dental caries prevalence and treatment service for deciduous teeth. J Dent Res. 1944;23(3):163–8.
- Katz RV. Assessing root caries in populations: the evolution of the root caries index. J Public Health Dent. 1980;40(1):7–16.
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- Silness J, Löe H. Periodontal disease in pregnancy. II. Correlation between oral hygiene and periodontal condition. Acta Odontol Scand. 1964;22:121–35.
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- Jenny J, Cons NC. Establishing malocclusion severity levels on the Dental Aesthetic Index (DAI) scale. Aust Dent J. 1996;41(1):43–6.
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- Thylstrup A, Fejerskov O. Clinical appearance of dental fluorosis in permanent teeth in relation to histologic changes. Community Dent Oral Epidemiol. 1978;6(6):315–28.
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- Warnakulasuriya S, Kujan O, Aguirre-Urizar JM, Bagan JV, González-Moles MÁ, Kerr AR, et al. Oral potentially malignant disorders: a consensus report from an international seminar on nomenclature and classification, convened by the WHO Collaborating Centre for Oral Cancer. Oral Dis. 2021;27(8):1862–80.

Chapter 10.7 — Community Diagnosis and Needs Assessment (Applied)

10.7.1 Concepts of need · 10.7.2 Prioritization

Core texts: [1] Chs. on assessing need and on planning dental services · [2] Chs. on oral health needs and on financing and planning of dental care · [3] Chs. on needs assessment and inequalities · [4] Ch. on planning and evaluation of dental health services · [5] · [17] · [18] · [21] · [25]

Additional

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- Wright J, Williams R, Wilkinson JR. Development and importance of health needs assessment. BMJ. 1998;316(7140):1310–3.
- Stevens A, Gillam S. Needs assessment: from theory to practice. BMJ. 1998;316(7142):1448–52.
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- Newton JT, Bower EJ. The social determinants of oral health: new approaches to conceptualizing and researching complex causal networks. Community Dent Oral Epidemiol. 2005;33(1):25–34.
- 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.
- Public Health England. Local Authorities Improving Oral Health: Commissioning Better Oral Health for Children and Young People. London: PHE; 2014. Available from: https://www.gov.uk

Chapter 10.8 — Oral Health Promotion Programs (School/Community-Based)

10.8.1 Planning health education sessions · 10.8.2 Preventive interventions (community level) · 10.8.3 Screening camps and referral systems

Core texts: [1] Chs. on oral health promotion and on prevention · [2] Chs. on fluoride, sealants, and community prevention programmes · [3] Chs. on health promotion and on preventive interventions · [4] Chs. on health education, fluorides and pit-and-fissure sealants · [5] · [16] · [19] · [24] Chs. on fluoride, sealants, diet and tobacco

Additional

- World Health Organization. Guideline: Sugars Intake for Adults and Children. Geneva: WHO; 2015. Available from: https://www.who.int/publications/i/item/9789241549028
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- Kay EJ, Locker D. Is dental health education effective? A systematic review of current evidence. Community Dent Oral Epidemiol. 1996;24(4):231–5.
- Watt RG. Strategies and approaches in oral disease prevention and health promotion. Bull World Health Organ. 2005;83(9):711–8.
- Petersen PE, Kwan S. Equity, social determinants and public health programmes — the case of oral health. Community Dent Oral Epidemiol. 2011;39(6):481–7.
- World Health Organization. WHO Report on the Global Tobacco Epidemic, 2023: Protect People from Tobacco Smoke. Geneva: WHO; 2023. Available from: https://www.who.int/publications/i/item/9789240077164

Chapter 10.9 — Data Management, Basic Biostatistics and Presentation (Applied)

10.9.1 Data entry and cleaning · 10.9.2 Descriptive statistics for survey reports · 10.9.3 Basic analytical comparisons · 10.9.4 Writing the survey report

Core texts: [1] Ch. on evidence-based dentistry and critical appraisal · [2] Ch. on research methods and evidence · [4] Ch. on biostatistics · [5] · [7] Sections on data processing, analysis and reporting · [8] Sections on data management and analysis · [12] Chs. on assessing the validity and reliability of data · [13] Chs. on describing data, comparing groups and correlation · [14] Chs. on means, proportions, chi-squared tests and correlation · [15]

Additional

- Petrie A, Sabin C. Medical Statistics at a Glance. 4th ed. Chichester: Wiley Blackwell; 2020.
- Bland M. An Introduction to Medical Statistics. 4th ed. Oxford: Oxford University Press; 2015.
- Peat J, Barton B. Medical Statistics: A Guide to SPSS, Data Analysis and Critical Appraisal. 2nd ed. Chichester: Wiley Blackwell; 2014.
- Whitley E, Ball J. Statistics review 1: presenting and summarising data. Crit Care. 2002;6(1):66–71.
- Harris PA, Taylor R, Thielke R, Payne J, Gonzalez N, Conde JG. Research electronic data capture (REDCap) — a metadata-driven methodology and workflow process for providing translational research informatics support. J Biomed Inform. 2009;42(2):377–81.
- Harris PA, Taylor R, Minor BL, Elliott V, Fernandez M, O'Neal L, et al. The REDCap consortium: building an international community of software platform partners. J Biomed Inform. 2019;95:103208.
- Lang TA, Secic M. How to Report Statistics in Medicine: Annotated Guidelines for Authors, Editors, and Reviewers. 2nd ed. Philadelphia: American College of Physicians; 2006.

Chapter 10.10 — Evaluation of Community Programs (Field Work Competency)

10.10.1 Monitoring vs evaluation · 10.10.2 Indicators in oral health programs · 10.10.3 Quality improvement cycle

Core texts: [1] Chs. on planning and evaluating oral health services and programmes · [2] Ch. on evaluation of prevention programmes · [3] Ch. on evaluation of oral health promotion · [4] Ch. on planning and evaluation of dental health services · [5] · [7] Sections on using survey data for programme monitoring · [8] Sections on surveillance for programme evaluation · [24] Section on monitoring and evaluation of prevention

Additional

- Centers for Disease Control and Prevention. Framework for program evaluation in public health. MMWR Recomm Rep. 1999;48(RR-11):1–40.
- World Health Organization. WHO Evaluation Practice Handbook. Geneva: WHO; 2013.
- Donabedian A. Evaluating the quality of medical care. Milbank Mem Fund Q. 1966;44(3) Suppl:166–206.
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- National Institute for Health and Care Excellence. Developing NICE guidelines: the manual. Process and methods PMG20. London: NICE; 2014 (updated 2024). Available from: https://www.nice.org.uk/process/pmg20

Chapter 10.11 — Special Topics Commonly Included in Community Dentistry III (Region-Dependent)

10.11.1 National oral health programs/policies · 10.11.2 Oral health in special groups · 10.11.3 Disaster and emergency dentistry

Core texts: [1] Chs. on the organisation of dental services and on oral health of vulnerable groups · [2] Chs. on dental care delivery systems, fluoridation and special populations · [3] Chs. on oral health services and on special groups · [4] Chs. on national oral health programmes, school dental health programmes, fluoridation and geriatric dental care · [5] · [6] · [21] · [22] · [23] · [25]

Additional

- World Health Organization. Oral Health Promotion: An Essential Element of a Health-Promoting School. WHO Information Series on School Health, Document Eleven. Geneva: WHO; 2003.
- Iheozor-Ejiofor Z, Worthington HV, Walsh T, O'Malley L, Clarkson JE, Macey R, et al. Water fluoridation for the prevention of dental caries. Cochrane Database Syst Rev. 2015;(6):CD010856.
- Office for Health Improvement and Disparities. Water fluoridation: health monitoring report for England 2022. London: OHID; 2022. Available from: https://www.gov.uk
- World Health Organization. Primary Health Care on the Road to Universal Health Coverage: 2019 Monitoring Report. Geneva: WHO; 2019.
- World Health Organization, United Nations Children's Fund. Declaration of Astana. Global Conference on Primary Health Care, Astana, 25–26 October 2018. Geneva: WHO; 2018.
- Kandelman D, Petersen PE, Ueda H. Oral health, general health, and quality of life in older people. Spec Care Dentist. 2008;28(6):224–36.
- Glassman P, Miller CE. Preventing dental disease for people with special needs: the need for practical preventive protocols for use in community settings. Spec Care Dentist. 2003;23(5):165–7.
- World Health Organization. Health Emergency and Disaster Risk Management Framework. Geneva: WHO; 2019.

Chapter 10.12 — Clinical Competencies, Viva/OSCE and Field Assessment Headings (Year 4)

10.12.1 Field competencies · 10.12.2 Typical viva/OSCE topics

Core texts: [1] Chs. on oral epidemiology, prevention and health promotion · [2] Chs. on measuring oral disease and on research methods · [4] Chs. on survey procedures and indices · [5] · [7] Sections on survey design, examiner calibration, the assessment form and reporting · [9] · [26] · [27] · [28]

Additional

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- Newble D. Techniques for measuring clinical competence: objective structured clinical examinations. Med Educ. 2004;38(2):199–203.
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- Association for Dental Education in Europe. The Graduating European Dentist: a new undergraduate curriculum framework. Eur J Dent Educ. 2017;21 Suppl 1:2–10.

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.