

Curriculum Vitae

Name: Gao Xiaoli

Position: Associate Professor, Faculty of Dentistry & Saw Swee Hock School of Public Health,
National University of Singapore

Academic/professional qualifications:

- BDS (1993) Sun Yat-sen University of Medical Sciences
- MSc (2003) National University of Singapore
- PhD (2008) National University of Singapore
- FRACDS(DPH) (2014) Royal Australasian College of Dental Surgeon

Research Interests: Oral epidemiology; health disparity and social determinants; interventions for changing health behaviors; biopsychosocial modelling for predicting chronic diseases

Selected awards

- IADR John Clarkson Fellowship (2018)
- IADR William J. Gies Award (2011)
- IADR Lion Dental Research Award for Young Investigators (2007)
- Research Output Prize, University of Hong Kong (2014)
- Faculty Knowledge Exchange Awards, University of Hong Kong (2011, 2012 & 2014)

Team/student awards:

- IADR Salivary Research Award (2016)
- IADR SEA Division Best Paper Award in Behavioural Science and Health Service Research (2011)
- SEAADE Preventive Programme Competition Awards (2006 & 2008)
- Colgate Prize in Community Oral Health (2015 & 2017), Oral-B Prize in Community Oral Health (2010, 2012 & 2014) & Dental Alumni Association Prize (2011), University of Hong Kong

Selected publications (H-index = 21; Top 2% Scientist in the global list, Stamford University)

1. Lee GCH, Chong MF, Gao X. Dental condition, diet, and glycaemic control: Analysis of NHANES 2011-2014. International Dental Journal 2023 May 1:S0020-6539(23)00069-2. doi:10.1016/j.identj.2023.04.001. Epub ahead of print.
2. Gao X, Wong ML, Kalhan AC, Xie JJ, Siti Hajar H, Yeo ABK, Allen PF. Theory-derived intervention to improve oral health of older adults: study protocol for a randomised controlled trial. BMJ Open 2022 Dec 12; 12(12):e064791.
3. Kalhan AC, Wong ML, Allen F, Gao X. Periodontal disease and systemic health: An update for medical practitioners. Annals of Academy of Medicine Singapore 2022; 51(9):567-574.
4. Gan Q, Ye W, Zhao X, Teng Y, Mei S, Long Y, Ma J, Rehemutula R, Zhang X, Zeng F, Jin HM, Liu F, Huang Y, Gao X, Zhu C. Mediating effects of gut microbiota in the associations of air pollutants exposure with adverse pregnancy outcomes. Ecotoxicology and Environmental Safety 2022 Mar 3; 234:113371.
5. Wang K, Lee GHM, Liu P, Gao X, Wong SYS, Wong MCM. Health belief model for empowering parental toothbrushing and sugar intake control in reducing early childhood caries among young children—study protocol for a cluster randomized controlled trial. Trials 2022; 23: 298.
6. Yu KF, Wen W, Liu P, Gao X, Lo ECM, Wong MCM. Effectiveness of family-centered oral health promotion on toddler oral health in Hong Kong. Journal of Dental Research 2022 Mar;101(3):286-294.
7. Goh CE, Lim LZ, Müller AM, Wong ML, Gao X. When e-learning takes centre stage amid COVID-19: Dental educators' perspectives and their future impacts. European Journal of Dental Education 2022 Aug; 26(3):506-515.
8. Chan JXY, Wong ML, Gao X, Chia KS, Hong CHL, Hu S. Parental perspectives towards sugar-sweetened beverages and policies: a qualitative study. European Archives of Paediatric Dentistry 2021 Dec; 22(6):1033-1040.
9. Wu L, Lo ECM, McGrath C, Wong MCM, Ho SMY, Gao X. Motivational interviewing for caries prevention in adolescents: a randomized controlled trial. Clinical Oral Investigation 2022 Jan; 26(1):585-594.

10. Qiu N, Gao X, Zhang X, Fu J, Wang Y, Li R. Associations between psychosocial variables, availability of physical activity resources in neighborhood environment, and out-of-school physical activity among Chinese adolescents. *International Journal of Environmental Research Public Health* 2021 Jun 21;18(12):6643.
11. Yang H, Deng Q, Geng Q, Tang Y, Ma J, Ye W, Gan Q, Rehemayi R, Gao X, Zhu C. Association of self-rated health with chronic disease, mental health symptom and social relationship in older people. *Scientific Reports* 2021 Jul 19; 11(1):14653.
12. Tan SHX, Teo YY, Tan MHX, Gao X. Childhood factors and dental caries in the permanent dentition: Findings of an 8-year study under a nationwide school dental service. *International Dental Journal* 2021 Dec; 71(6):508-515.
13. Müller AM, Goh C, Lim LZ, Gao X. Covid-19 emergency eLearning and beyond: Experiences and perspectives of university educators. *Education Sciences* 2021; 11(1):19.
14. Jiang S, McGrath C, Lo EC, Ho SM, Gao X. Motivational interviewing to prevent early childhood caries: A randomized controlled trial. *Journal of Dentistry* 2020; 97:103349.
15. Liu P, Wen W, Yu KF, Gao X, Lo ECM, Wong MCM. Effectiveness of a family-centered behavioral and educational counselling approach to improve periodontal health of pregnant women: a randomized controlled trial. *BMC Oral Health* 2020; 20(1):284.
16. Botelho M, Gao X, Bhuyan SY. Mixed-methods analysis of videoed expert-student dialogue supporting clinical competence assessments. *European Journal of Dental Education* 2020; 24:398–406.
17. Liu PP, Wen W, Yu KF, Gao X, Wong MCM. Dental care-seeking and information acquisition during pregnancy: A qualitative study. *International Journal of Environmental Research and Public Health* 2019 Jul 23; 16(14): 2621.
18. Botelho MG, Gao X, Jagannathan N. A qualitative analysis of students' perceptions of videos to support learning in a psychomotor skills course. *European Journal of Dental Education* 2019; 23(1): 20-27.
19. Botelho MG, Gao X, Bhuyan SY. An analysis of clinical transition stresses experienced by dental students – a qualitative methods approach. *European Journal of Dental Education* 2018; 22(3): e564-e572.
20. Wu L, Gao X. Children's dental fear and anxiety: exploring family related factors. *BMC Oral Health* 2018; 18(1): 100.
21. Lin YT, Kalhan AC, Lin YJ, Kalhan TA, Chou CC, Gao XL, Hsu CS. Risk assessment models to predict caries recurrence after oral rehabilitation under general anaesthesia: A pilot study. *International Dental Journal* 2018; 68(6): 378-385.
22. Zhou Y, Jiang S, Li SKY, Lo ECM, Gao X. Association between oral health and upper respiratory tract infection among children. *International Dental Journal* 2018; 68: 122-128.
23. Wu L, Cheung KY, Lam PYP, Gao X. Oral health indicators for risk of malnutrition in elders. *Journal of Nutrition Health & Aging* 2018; 22(2): 254-261. doi: 10.1007/s12603-017-0887-2.
24. Wu L, Gao X, Lo ECM, Ho SMY, McGrath C, Wong MCM. Motivational interviewing to promote oral health in adolescents. *Journal of Adolescent Health* 2017; 61(30): 378-384.
25. Jiang S, Wu L, Gao X. Beyond face-to-face individual counseling: A systematic review on alternative modes of motivational interviewing in substance abuse treatment and prevention. *Addictive Behaviors* 2017; 73: 216-235.
26. Jiang S, Gao X, Jin L, Lo EC. Salivary microbiome diversity in caries-free and caries-affected children. *International Journal of Molecular Sciences* 2016; 17: 1978.
27. Gao X, Jiang S, Koh D, Hsu CY. Salivary biomarkers for dental caries. *Periodontology 2000* 2016; 70:128–141.
28. Wang G, Gao X, Lo EC. Public perceptions of dental implants: a qualitative study. *Journal of Dentistry* 2015; 43(7):798-805.
29. Gao XL, Lo EC, Chu CH, Hsu SC. Caries risk assessment programmes for Hong Kong children. *Hong Kong Medical Journal* 2015; 21 Suppl 6:42-46.
30. Ong HH, Wan CCJ, Gao X. Interprofessional collaboration in addressing diet as a common risk factor: A qualitative study. *Journal of Research in Interprofessional Practice and Education* 2015; 5(2).
31. Gao X, Lo EC, McGrath C, Ho SM. Face-to-face individual counseling and online group motivational interviewing in improving oral health: study protocol for a randomized controlled trial. *Trials* 2015; 16(1):416.

32. Gao X, Wong LM, Chow DY, Law XJ, Ching LY. Learning clinical procedures through Internet visual resources: A qualitative study amongst undergraduate students. *European Journal of Dental Education* 2015; 19(1):38-43.
33. Li TY, Gao X, Wong K, Tse CSK, Chan YY. Learning clinical procedures through Internet Digital Objects: Experience of undergraduate students across clinical faculties. *JMIR Medical Education* 2015;1(1):e1.
34. Gao X, Lo EC, Kot SC, Chan KC. Motivational interviewing in improving oral health: A systematic review of randomized controlled trials. *Journal of Periodontology* 2014; 85(3):426-437.
35. Gao X, Hsu CY, Loh T, Hwang B, Koh D. Role of microbiological factors in predicting early childhood caries. *Pediatric Dentistry* 2014; 36(4):348-354.
36. Gao X, Chan CW, Mak SL, Ng Z, Kwong WH, Kot CC. Oral health of foreign domestic workers: exploring the social determinants. *Journal of Immigrant and Minority Health* 2014; 16(5):926-933.
37. Yao J, Tang H, Gao XL, McGrath C, Mattheos N. Patients' expectations to dental implant: a systematic review of the literature. *Health and Quality of Life Outcomes* 2014; 12(1):153.
38. Hamzah HS, Gao X, Yiu CK, McGrath C, King NM. Managing dental fear and anxiety in pediatric patients: A qualitative study from the public's perspective. *Pediatric Dentistry* 2014; 36(1):29-33.
39. Gao X, Hamzah SH, Yiu CK, McGrath C, King NM. Dental fear and anxiety in children and adolescents: Qualitative study using YouTube. *Journal of Medical Internet Research* 2013; 15(2):e29.
40. Gao X, Di Wu I, Lo EC, Chu CH, Hsu CY, Wong MC. Validity of caries risk assessment programmes in preschool children. *Journal of Dentistry* 2013; 41(9): 787-795.
41. Gao X, Lo EC, McGrath C, Ho SM. Innovative interventions to promote positive dental health behaviors and prevent dental caries in preschool children: study protocol for a randomized controlled trial. *Trials* 2013; 14:118.
42. Gao XL, Hsu CY, Xu YC, Loh T, Koh D, Hwang HB. Promoting positive health behaviours - 'Tooth worm' phenomenon and its implications. *Community Dental Health* 2012; 29(1):55-61.
43. Gao XL, Seneviratne CJ, Lo EC, Chu CH, Samaranayake LP. Novel and conventional assays in determining abundance of *Streptococcus mutans* in saliva. *International Journal of Paediatric Dentistry* 2012; 22(5):363-368.
44. Gao XL, McGrath C. A review on the oral health impacts of acculturation. *Journal of Immigrant and Minority Health* 2011; 13(2):202-213.
45. Gao XL, McGrath C, Lin HC. Oral health status of rural-urban migrant children in South China. *International Journal of Paediatric Dentistry* 2011; 21(1):58-67.
46. Gao XL, Hsu CY, Xu YC, Loh T, Koh D, Hwang HB. Behavioral pathways explaining oral health disparity in children. *Journal of Dental Research* 2010; 89(9):985-990.
47. Gao XL, Hsu CY, Xu Y, Hwang HB, Loh T, Koh D. Building caries risk assessment models for children. *Journal of Dental Research* 2010; 89(6):637-643.
48. Gao XL, Hsu CY, Loh T, Koh D, Hwang HB, Xu Y. Dental caries prevalence and distribution among preschoolers in Singapore. *Community Dental Health* 2009; 26(1):12-17.
49. Gao XL, Pan JS, Hsu CY. Laser-fluoride effect on root demineralization. *Journal of Dental Research* 2006; 85(10):919-923.
50. Chin-Ying SH, Xiaoli G, Jisheng P, Wefel JS. Effects of CO2 laser on fluoride uptake in enamel. *Journal of Dentistry* 2004; 32(2):161-167.

Professional Consultations and Services (selected)

- Associate Editor, *Trials* (2022 -)
- Editorial Board Member, *International Dental Journal* (2020 -)
- Symposium Coordinator (2021 – 2022), Group Program Chair (2022 – 2023) & Executive Committee Member (2021 – 2023), Behavioral Epidemiologic and Health Services Research (BEHSR), International Association for Dental Research (IADR)
- Co-founder (2015) / scientific officer (2015 - 2017) / publication officer (2018), Chinese Association for Motivational Interviewing
- Mentor (2016 – present), IADR Southeast Asian Division mentor-mentee program
- Referee panel member for Health and Medical Research Fund (HMRF) (2013 - 2019), Research Secretariat, Food and Health Bureau, Hong Kong
- Faculty Research Policy Committee (2023 -), National University of Singapore