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EDUCATION

- Dr. P.H., Department of Global Community Health and Behavior Science, School of Public Health and Tropical Medicine, Tulane University, Louisiana, U.S.A., 2003-2007
 - M.P.H. Department of Epidemiology, School of Public Health and Tropical Medicine, Tulane University, Louisiana, U.S.A., 1997-1998
 - B.S. Department of Public Health, Kaohsiung Medical University, Kaohsiung City, Taiwan, 1993-1996
 - B.S. Nursing Department, Chang Gang Institute of Technology, Taoyuan County, Taiwan, 1991-1992
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PROFESSIONAL EXPERIENCE

- 2014 – present: Professor, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan
 - 2020 – 2022: Vice-president, Taiwan Academy for Dental Hygiene, Taiwan
 - 2015 – 2021: Department Chair, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan
 - 2011 – 2014: Associate Professor, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan
 - 2007 – 2011: Assistant Professor, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan
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SPECIALTY

- Health Education and Health Promotion
- Health Behavioral Sciences
- Community Health

HONOR AND AWARDS

- Research Project Merit Award: Kaohsiung Medical University, Kaohsiung, Taiwan **2024**.
- Research Project Merit Award: Kaohsiung Medical University, Kaohsiung, Taiwan **2023**.
- Research Project Merit Award: Kaohsiung Medical University, Kaohsiung, Taiwan **2022**.
- Research Project Merit Award: Kaohsiung Medical University, Kaohsiung, Taiwan **2021**.
- Research Project Merit Award: Kaohsiung Medical University, Kaohsiung, Taiwan **2020**.
- Research Project Merit Award: Kaohsiung Medical University, Kaohsiung, Taiwan **2019**.
- Research Project Merit Award: Kaohsiung Medical University, Kaohsiung, Taiwan **2018**.
- Research Project Merit Award: Kaohsiung Medical University, Kaohsiung, Taiwan **2017**.
- Research Project Merit Award: Kaohsiung Medical University, Kaohsiung, Taiwan **2016**.
- Research Project Merit Award: Kaohsiung Medical University, Kaohsiung, Taiwan **2015**.
- Research Project Merit Award: Kaohsiung Medical University, Kaohsiung, Taiwan **2014**.
- JUNIOR LEADER IN GLOBAL HEALTH AWARD: Tulane School of Public Health and Tropical Medicine Centennial 2012, USA **2012/11/11**
- Colleges and Universities Annual Grants for Special Talents Award: National Science Council, Taiwan **2012**. Refers to the academic research, production and research studies or interdisciplinary research performance outstanding faculty in university.
- Colleges and Universities Annual Grants for Special Talents Award: National Science Council, Taiwan **2011**. Refers to the academic research, production and research studies or interdisciplinary research performance outstanding faculty in university.
- Distinguished Teaching Award: Kaohsiung Medical University, Kaohsiung, Taiwan **2011**. For teaching on Kaohsiung Medical University.
- Teaching Excellence Award: Kaohsiung Medical University, Kaohsiung, Taiwan **2011**. For teaching on College of Dental Medicine.
- Colleges and Universities Annual Grants for Special Talents Award: National Science Council, Taiwan **2010**. Refers to the academic research, production and research studies or interdisciplinary research performance outstanding faculty in university.
- Outstanding Teacher Award: Department of Nursing, Shu-Zen College of Medicine and Management, Kaohsiung County, Taiwan **2002**. For teaching, student consulting and service, research on Department of Nursing.
- Outstanding Instructor of School Club: The Office of Student Affairs, Shu-Zen College of Medicine and Management, Kaohsiung County, Taiwan **2002**. For instruction on Health and Environment Club.

- Best Student Scholarship of Department of Public Health: Department of Public Health, Kaohsiung Medical University, Kaohsiung City, Taiwan 1995.
 - Memorial Scholarship Foundation to Mr. Hsiung-Chen Lin: Hsiung-Chen Lin fund, Taipei City, Taiwan, 1995.
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RESEARCH EXPERIENCES

1. 2025/02 - 2026/12: Principal Investigator, *Oral Health Status and Related Factors of People with Disabilities in 2025-2026*, Ministry of Health and Welfare, Taiwan. 金額: NT 8,100,000
2. 2024/03/02 - 2024/10/31: Principal Investigator, *Taipei City Oral Health Promotion Project in 2024*, Department of Health, Taipei City Government, Taiwan (Project No. S11320). 金額: NT 369,000
3. 2024/09/01 - 2026/08/31: Principal Investigator, *Oral Health-Promoting Program for School Children in 2024-2026*, K-12 Education Administration, Ministry of Education, Taiwan. (Project No. U114002). 金額: NT 4,408,000
4. 2023/08/01 - 2026/07/31: Principal Investigator, *Using Augmented Reality Dental Care Training in Health Education on Periodontal Status, Blood Sugar Control and Quality of Life in Patients with Poorly Controlled Type 2 Diabetes*, National Science and Technology Council, Taiwan (NSTC112-2314-B-037-082-MY3) 。金額: NT 4,100,161
5. 2023/08/01 - 2026/07/31: Principal Investigator, *The Effectiveness of Augmented Reality (AR) Oral Care Simulation System Training for Foreign Caregivers on Enhancing Oral Function in the Elderly*, EPED Inc. Industry-Academia Cooperation Program, Taiwan. (Project No. S112001) 金額: NT 300,000
6. 2023/03/14 - 2023/11/24: Principal Investigator, *Taipei City Oral Health Promotion Project in 2023*, Department of Health, Taipei City Government, Taiwan (Project No. S11320) 。金額: NT 489,000
7. 2022/09/12 - 2024/08/31: Principal Investigator, *Oral Health-Promoting Program for School Children in 2022-2024*, K-12 Education Administration, Ministry of Education, Taiwan. (Project No. 1115018) 金額: NT 4,050,276
8. 2022/02/25 - 2022/12/09: Principal Investigator, *Taipei City Oral Health Promotion Project in 2022*, Department of Health, Taipei City Government, Taiwan (Project No. Q11137). 金額: NT 590,000
9. 2021/08 - 2023/07: Principal Investigator, *The Dental Care Revolution: Health Education Using AI or Humanized Counseling on Plaque Control and Periodontal Treatment Outcome in Patients with Periodontal Disease (2)*, Ministry of Science and Technology, Taiwan. (MOST110-2314-B-037-037-MY2) 金額: NT 2,600,000

10. 2021/04/12 - 2021/12/12: Principal Investigator, *Taipei City Oral Health Promotion Project in 2021*, Department of Health, Taipei City Government, Taiwan (T110008) ◦ 金額: NT 295,000
11. 2021/03/01 - 2022/08/31: Principal Investigator, *Integrating Optical Positioning Technology with AR/VR/MR for a Professional Training Program in Geriatric Oral Care*, Southern Taiwan Science Park Bureau, National Science and Technology Council, Taiwan. 金額: NT 1,800,000 (CY-05-07-39-110)
12. 2020/10/21 - 2022/08/31: Principal Investigator, *Oral Health-Promoting Program for School Children in 2020-2022*, K-12 Education Administration, Ministry of Education, Taiwan. (Project No. 1095011) 金額: NT 4,733,993
13. 2020/08 - 2021/07: Principal Investigator, *The Dental Care Revolution: Health Education Using AI or Humanized Counseling on Plaque Control and Periodontal Treatment Outcome in Patients with Periodontal Disease*, Ministry of Science and Technology, Taiwan. (MOST 109-2314-B-037-074) 金額: NT 1,040,000
14. 2020/02/20 - 2020/12/15: Principal Investigator, *Oral Function Promotion and Health Care Program for the Elderly and Individuals with Special Care Needs in 2020*, Ministry of Health and Welfare, Taiwan (M09B8141) ◦ 金額: NT 2,470,000
15. 2020/07/28 - 2020/11/27: Principal Investigator, *Taipei City Oral Health Promotion Project in 2020*, Department of Health, Taipei City Government, Taiwan (T110003) ◦ 金額: NT 290,000

PUBLICATIONS

(I) 【SCI/SSCI Journal】 * Corresponding author

1. Lin PC, Huang CH, Wu JH, Lin YC, Koichiro Matsuo, **Huang HL***. Oral Functions and Various Cooking Methods Associated with Chewing-to-Swallowing Time in Community-Dwelling Older Adults *Journal of Oral Rehabilitation* **2025 Jan 24. (Online ahead of print.)**
SCI, Impact Factor: 3.1, Rank: 23/158, 2023
Subject Categories: DENTISTRY, ORAL SURGERY & MEDICINE
2. **Huang HL***, Koichiro Matsuo, Huang ST, Ho PS, Lin PC, Lin PC, Chang AH. Chinese Version of the Oral Frailty Five-item Checklist (OF-5) *Geriatrics & Gerontology International* (letter to editor) **2025;1–2**. <https://doi.org/10.1111/ggi.70032>
SSCI, Impact Factor: 2.4, Rank: 16/47, 2023
Subject Categories: GERONTOLOGY
3. Chen MA, Yang YH, Liu CK, Koichiro Matsuo, Hsu CC, Lin YC*, **Huang HL***. Salivary

Antimicrobial Peptide in Patients with Dementia Before and After Clinical Oral Rehabilitation Program: A randomized Controlled Trial *Journal of Oral Rehabilitation* **2025 Jan; 52:1–8** ([NHRI-107AI-PHCO-03181808](#), [NHRI-108AI-PHCO-03191908](#))

SCI, Impact Factor: 3.1, Rank: 23/158, 2023

Subject Categories: DENTISTRY, ORAL SURGERY & MEDICINE

4. Luh DL, [Huang HL](#), Chiou SY, Lo KY, Chen FL*. The Association between Organizational Factors of Health Promoting Schools and Teachers' Health Lifestyles: A Multilevel Analysis. *Journal of School Health* **2025 Feb;95(2):126-133**

SSCI, Impact Factor: 1.8, Rank: 238/760, 2023

Subject Categories: EDUCATION & EDUCATIONAL RESEARCH

5. You FT#, Lin PC#, Huang CL, Wu JH, Kabasawa Yuji, Chen CC, [Huang HL*](#). Artificial Intelligence with Counseling on the Treatment Outcomes and Quality of Life in Periodontitis Patients *Journal of Periodontology* **2024 Nov (Online ahead of print)** (MOST109-2314-B-037-074; MOST110-2314-B-037-037-MY2)

SCI, Impact Factor: 4.2, Rank: 11/158, 2023

Subject Categories: DENTISTRY, ORAL SURGERY & MEDICINE

6. Liu SM, Xin YM, Wang F, Lin PC, [Huang HL*](#). Parental health belief model constructs associated with oral health behaviors, dental caries, and quality of life among preschool children in China: a cross-sectional study. *BMC Oral Health* **2024 Dec 03; 24:1497**

SCI, Impact Factor: 2.6, Rank: 39/158, 2023

Subject Categories: DENTISTRY, ORAL SURGERY & MEDICINE

7. Lin PC, Wung SF, Lin PC, Lin YC, Lin CY, [Huang HL*](#). Virtual Reality-based Simulation Learning on Geriatric Oral Health Care for Nursing Students: a Pilot Study. *BMC Oral Health* **2024 May 30; 24:627**

SCI, Impact Factor: 2.6, Rank: 39/158, 2023

Subject Categories: DENTISTRY, ORAL SURGERY & MEDICINE

8. Cheng BH, Ho PS, Hsu CC, Chen FL, Chen MA, Kabasawa Yuji, [Huang HL*](#). Effects of Oral Exercises with a Lay Health Advisor on Oral Function and Quality of Life in Aboriginal Older Adults: A randomized controlled trial. *Journal of Oral Rehabilitation* **2024 May;51(5):840-850** ([NHRI-107AI-PHCO-03181808](#), [NHRI-108AI-PHCO-03191908](#))

SCI, Impact Factor: 3.1, Rank: 23/158, 2023

Subject Categories: DENTISTRY, ORAL SURGERY & MEDICINE

9. Lin YC, Lin PC, Lin PC, Lin CY, Kabasawa Yuji, Yong-Keum Choi, [Huang HL*](#). Combining Virtual and Augmented Reality Simulation Training to Improve Geriatric Oral Care Performance in Health Care Assistants: A Randomized Controlled Trial. *Digital Health* **2023 9: 1–13** (CY-05-07-39-110)

SSCI, Impact Factor: 2.9, Rank: 36/118, 2023

Subject Categories: HEALTH POLICY & SERVICES

10. Lin YC, Tsai CF, **Huang HL***. Effects of hypochlorous acid mouthwash on salivary bacteria including *Staphylococcus aureus* in patients with periodontal disease: a randomized controlled trial. *BMC Oral Health* **2023** Sep; 23:698

SCI, Impact Factor: 2.6, Rank: 39/158, 2023

Subject Categories: DENTISTRY, ORAL SURGERY & MEDICINE

11. Chen MA, Liu CK, Yang YH, Huang ST, Yen CW, Kabasawa Yuji, **Huang HL***. Clinical-based Oral Rehabilitation Programme Improved the Oral Diadochokinesis and Swallowing Function of Older Patients with Dementia: A Randomized Controlled Trial. *Journal of Oral Rehabilitation* **2022 Dec**;49(12):1163-1172 (NHRI-107AI-PHCO-03181808, NHRI-108AI-PHCO-03191908)

SCI, Impact Factor: 3.1, Rank: 23/158, 2023

Subject Categories: DENTISTRY, ORAL SURGERY & MEDICINE

12. Shen KL#, Huang CL#, Lin YC, Du JK, Chen FL, Kabasawa Yuji, Chen CC, **Huang HL***. Effects of artificial intelligence-assisted dental monitoring intervention in patients with periodontitis: A randomized controlled trial. *J Clin Periodontol.* **2022 Jun 17**, 1-11. doi: 10.1111/jcpe.13675. (MOST109-2314-B-037-074; MOST110-2314-B-037-037-MY2)

SCI, Impact Factor: 7.478, Rank: 4/92, 2021

Subject Categories: DENTISTRY, ORAL SURGERY & MEDICINE

13. Lin YC#, Lin YC#, Chen JH, Lin PL, Chen T, **Huang HL***. Long-term Effects of a Lay Health Advisor Intervention on Immigrant Children's Caries: A Randomized Controlled Trial. *Community Dent Oral Epidemiol* **2022 Aug**; 50(4):280-291. doi: 10.1111/cdoe.12670. (NSC 99-2314-B-037-036-MY2; NSC 101-2314-B-037-039-MY3; Kmhk-104-026)

SCI, Impact Factor: 2.489, Rank: 58/92, 2021

Subject Categories: DENTISTRY, ORAL SURGERY & MEDICINE

14. Lin YC, Huang SS, Yen CW, Kabasawa Yuji, Lee CH, **Huang HL***. Physical Frailty and Oral Frailty Associated with Late-life Depression in Community-dwelling Older Adults. *J. Pers. Med.* **2022 March 14**, 12(3), 459. (NHRI-107AI-PHCO-03181808; MOST108-2314-B-037-061)

SCI, Impact Factor: 4.945, Rank: 31/167, 2021

Subject Categories: MEDICINE, GENERAL & INTERNAL

SCI, Impact Factor: 4.945, Rank: 15/107, 2021

Subject Categories: Health Care Sciences and Service

15. Chang AH, Lin PC, Lin PC, Lin YC, Kabasawa Yuji, Lin CY, **Huang HL***. Effectiveness of Virtual Reality-Based Training on Oral Healthcare for Disabled Elderly: A Randomized Controlled Trial. *J. Pers. Med.* **2022 Feb 4**, 12(2), 218. <https://doi.org/10.3390/jpm12020218> (CY-05-07-39-110)

SCI, Impact Factor: 4.945, Rank: 15/107, 2021

Subject Categories: Health Care Sciences and Service

16. Wei CT, Lo KY, Lin YC, Chen FL, Hu CY, **Huang HL***. Effects of Health-Promoting School Strategy on Dental Plaque Control and Preventive Behaviors in Schoolchildren in High-Caries, Rural Areas of Taiwan: A Quasi-Experimental Design. *BMC Oral Health* **2021 Nov 8**, 21(1):573

SCI, Impact Factor: 3.747, Rank: 22/92, 2021

Subject Categories: DENTISTRY, ORAL SURGERY & MEDICINE

17. Hsu YJ, Chen YH, Lin KD, Lee MY, Lee YL, Yu CK, Kabasawa Y, **Huang HL***. Clinical Outcomes and Oral Health-Related Quality of Life after Periodontal Treatment with Community Health Worker Strategy in Patients with Type 2 Diabetes: A Randomized Controlled Study. *Int J Environ Res Public Health* **2021 Aug 7**, 18(16), 8371 (MOST104-2314-B-037-013-MY3; MOST109-2314-B-037-074)

SSCI, Impact Factor: 4.614, Rank: 45/182, 2021

Subject Categories: PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH

18. Lin YC, Du JK, Lin PC, Kabasawa Yuji, Lin PL, Hsiao SY*, **Huang HL***. Association between the dental occlusion and perceived ability to eat foods of Taiwanese older adults. *Journal of Oral Rehabilitation* **2021 Jul**;48(7):817-826. (NHRI-107AI-PHCO-03181808; MOST108-2314-B-037-061)

SCI, Impact Factor: 3.558, Rank: 26/92, 2021

Subject Categories: DENTISTRY, ORAL SURGERY & MEDICINE

19. Wu PW, Tsai S, Lee CY, Lin WT, Chin YT, **Huang HL**, Seal WD, Chen T, Lee CH* Contribution of insulin resistance to the relationship between sugar-sweetened beverage intake and a constellation of cardiometabolic abnormalities in adolescents. *International Journal of Obesity (Lond)*. **2021 Apr**;45(4):828-839.

SCI, Impact Factor: 5.095, Rank: 23/89, 2020

Subject Categories: NUTRITION & DIETETICS

20. Lu TY, Chen JH, Du JK, Lin YC, Ho PS, Lee CH, Hu CY, **Huang HL***. Dysphagia and Masticatory Performance as a Mediator of the Xerostomia to Quality of Life Relation in the Older Population. *BMC Geriatrics* **2020 Dec 2**; 20(1): 521(NHRI-107AI-PHCO-03181808; MOST108-2314-B-037-061)

SSCI, Impact Factor: 3.921, Rank: 6/36, 2020

Subject Categories: GERONTOLOGY

21. Lee HL, Lin YC, Peng WD, Hu CY, Lee CH, Hsu YJ, Yen YY, **Huang HL***. Effectiveness of a Theory of Planned Behavior-Based Intervention for Promoting Periodontal Preventive Behaviors among Medical Students in Taiwan. *J Am Coll Health*. **2020 Nov-Dec**;68(8):883-890.

SSCI, Impact Factor: 3.087, Rank: 75/264, 2020

Subject Categories: EDUCATION & EDUCATIONAL RESEARCH

22. Chin YT, Lin WT, Wu PW, Tsai S, Lee CY, Seal DW, Ted Chen, **Huang HL**, Lee CH*. Characteristic-Grouped Adiposity Indicators for Identifying Metabolic Syndrome in Adolescents: Develop and Valid Risk Screening Tools Using Dual Population. *Nutrients* **2020** Oct. 26; 12(10): E3165

SCI, Impact Factor: 4.546, Rank: 17/89, 2019
Subject Categories: NUTRITION & DIETETICS

(II) 【TSSCI and Other Journals】 * Corresponding author

1. 陳柏霖、謝孟倉、吳俞萱、蘇慧真、林育仔、陳俊鴻、蕭名彥、謝惠敏、**黃曉靈**、魏國展、連立明、黃金安。台灣咀嚼吞嚥障礙醫學學會及台灣腦中風學會腦中風後吞嚥障礙照護指引共識小組(Taiwan Association of Dysphagia and Taiwan Stroke Society Post-stroke Dysphagia Management Guideline Consensus Group)。2024年台灣腦中風學會之腦中風後吞嚥障礙照護指引 2024 Guideline for Post-stroke Dysphagia Management: A Guideline for Healthcare Professionals from the Taiwan Stroke Society。《台灣中風醫誌 Formosa Stroke Journal》6卷2期(2024/06) Pp. 103-140
2. Choi YK, **Huang HL**, Yun JH. A delphi study on the feasibility of community-based oral function rehabilitation exercises and the dental hygienist workforce adequacy. *Journal of Korean Academy of Oral Health*. **2024** Dec; 48(4):201-209.

(III) Books

1. **黃曉靈**、林佩昭、黃純德、余權航、黃孟娟、林盈諄、林佩綦/第1篇 高齡者相關的社會環境背景/高齡口腔與咀嚼吞嚥功能照護(Oral Health and the Management of Chewing/Swallowing Problems for the Elderly)/華都文化事業有限公司 (Far Du Publishing Co., Ltd.)/台灣 Taiwan 2025
2. 黃純德、林伯彥、黃耀慧、黃婷玉、**黃曉靈**、陳俊志、陳信銘、王文岑、黃桂香、紀乃智、劉秀月、唐如青、詹嘉一、陳立愷、黎達明、陳筱蓉編著。口腔衛生保健 (Dental Hygiene and Oral Care) 第1篇第3章 口腔衛生教育的基本理論與重要性/華杏出版股份有限公司(Farseeing Publishing Co., Ltd.)/台灣 Taiwan 2019

(IV) CONFERENCES * Corresponding author

INVITED SPEAKER

- **Huang HL**. Oral Healthcare and Swallowing Function in Elderly People: From Community to Clinical Setting. Invited speaking at the 27th iADH (International Association for Disability & Oral Health) Scientific Conference Seoul, KOREA. Sep.28,

2024.

- **Huang HL**. Parallel 6. Oral and swallowing function in patients with dysphagia: Bring a public health perspective to oral healthcare and swallowing function improvement in patients. Invited speaking at the 1st International Conference of Asian Dysphagia Society (ADS International Conference 2023), Suwon Convention Center, KOREA. Nov. 12~14, 2023.
- **Huang HL**. Oral Function Intervention Strategy in Older Population: Evidence from Clinical to Community Setting. Invited speaking at the 12th the International Association of Gerontology and Geriatrics Asia Oceania Regional (IAGG-AOR) Congress, Yokohama, JAPAN. June. 12~14, 2023.
- **Huang HL**. Oral Frailty Impact Health Outcomes for Older People. Invited speaking at the 12th the International Association of Gerontology and Geriatrics Asia Oceania Regional (IAGG-AOR) Congress, Yokohama, JAPAN. June. 12~14, 2023.
- **Huang HL**. Using Virtual Reality Simulation Training System to Improve Geriatric Oral Care Performance. Invited speaking at the 2nd Asia Association for Disability and Oral Health, Okayama, JAPAN. Nov. 05, 2022.
- **Huang HL**. The Learning Satisfaction and Effectiveness of VR/AR Training System on Elderly Oral Care. Invited speaking at the 26th IADH Congress International Association for Disability & Oral Health, Paris, FRANCE. Aug. 25, 2022.

ORAL and POSTER PRESENTATION

1. YC Hu, **Huang HL***. *AI intervention on protection motivation, self-care behaviors, periodontal status and quality of life in patients with periodontitis: a randomized control trial*. Oral presented at the International Symposium of the 17th Research Day College of Dental Medicine. March 14, 2025 in Kaohsiung Medical University, Taiwan.
2. PH Chen, DH Chen, **Huang HL*** *AR toothbrushing system with video instructions for training Indonesian caregivers in geriatric oral care: a preliminary analysis*. Poster presented at the International Symposium of the 17th Research Day College of Dental Medicine. March 14, 2025 in Kaohsiung Medical University, Taiwan.
3. CS Wang, TW Pan, **Huang HL***. *Efficacy of Health Education Combined with AR Toothbrushing System on Glycemic Control in Patients with Type 2 Diabetes: A Preliminary Analysis*. Poster presented at the International Symposium of the 17th Research Day College of Dental Medicine. March 14, 2025 in Kaohsiung Medical University, Taiwan.
4. WT Huang, **Huang HL***. *Comparing of the effects of AR/VR simulation training and traditional teaching method on oral care performance in gerontological healthcare students*. Oral presented at the 2024 2nd International Symposium on Transdisciplinary Care for Dysphagia. May 04-05, 2024 in Tainan City, Taiwan.
5. CC Chen, **Huang HL***. *Preliminary Data Analysis of an Augmented Reality (AR) Training System on Oral Care Behaviors and Dental Plaque Control in Diabetes Patients*. Poster

presented at the 2024 2nd International Symposium on Transdisciplinary Care for Dysphagia. May 04-05, **2024** in Tainan City, Taiwan.

6. YC Lin, **Huang HL***. *The difference of AR/VR training system and group learning on oral care performance in home care assistants*. Oral presented at the International Symposium of the 16th Research Day College of Dental Medicine. March 29 **2024** in Kaohsiung Medical University, Taiwan.
7. WT Huang, **Huang HL***. *A hybrid of AR and VR simulation training on oral care performance in gerontological healthcare students*. Oral presented at the International Symposium of the 16th Research Day College of Dental Medicine. March 29 **2024** in Kaohsiung Medical University, Taiwan.
8. Y Chen, YS Tan, **Huang HL***. *The Efficacy of AR Training System on Oral Health Behaviors and Dental Plaque Control in Patients with Diabetes - a Pilot Study*. **2024/03/29**. Poster presented at the International Symposium of the 16th Research Day College of Dental Medicine. March 29 **2024** in Kaohsiung Medical University, Taiwan.
9. Wang YS, Chen MA, Lo KY, **Huang HL***. *Mobile Augmented Reality Simulation Toothbrushing Machine on Dental Plaque Control, Self-efficacy and Skill of Toothbrushing in Elementary School Children*. Poster presented at the 23th Annual National Oral Health Conference. April 17-19, **2023** in Orlando, FL, USA.
10. Ho YW, Wu JJ, Huang CL, You FT, **Huang HL***. *AI-assisted Dental Monitoring on Protection Motivation and Dental Plaque Control in Patients with Periodontal Disease* Poster presented at the 23th Annual National Oral Health Conference. April 17-19, **2023** in Orlando, FL, USA.
11. You FZ, Huang CL, **Huang HL***. *Using artificial intelligence-assisted dental monitoring in health counseling on treatment outcomes and oral health-related quality of life in patients with periodontitis: a randomized controlled trial*. Oral presented at the International Symposium of the 15th Research Day College of Dental Medicine. March 17, **2023** in Kaohsiung Medical University, Taiwan.
12. Wang YS, Chen MA, Lo KY, **Huang HL***. *AR Toothbrushing Machine on Plaque Control, Self-efficacy and Skill of Toothbrushing in School Children*. Oral presented at the International Symposium of the 15th Research Day College of Dental Medicine. March 17, **2023** in Kaohsiung Medical University, Taiwan.
13. Gu JS, Chen MA, Lin YC, **Huang HL***. *The effect of brushing with fluoride toothpaste on dental plaque control for elementary school students*. Poster presented at the International Symposium of the 15th Research Day College of Dental Medicine. March 17, **2023** in Kaohsiung Medical University, Taiwan.
14. Wu JJ, Ho YW, Huang CL, You FT, **Huang HL***. *AI-assisted dental monitoring on protection motivation and dental plaque control in patients with periodontal disease*. Poster presented at the International Symposium of the 15th Research Day College of Dental Medicine. March 17, **2023** in Kaohsiung Medical University, Taiwan.
15. Lee HT, Lee YS, You FT, **Huang HL***. *Impact of Dysphagia on Sleep Quality in the Elderly*

- Population*. Poster presented at the International Symposium of the 15th Research Day College of Dental Medicine. March 17, **2023** in Kaohsiung Medical University, Taiwan.
16. Tseng PC, You FT, **Huang HL***. *Oral health preventive knowledge, attitude and practice among dental and non- dental college students*. Poster presented at the International Symposium of the 15th Research Day College of Dental Medicine. March 17, **2023** in Kaohsiung Medical University, Taiwan.
 17. Heish TH, Lu KH, **Huang HL***. *Oral Function, Physical Function and Oral Health-Related Quality of Life in Community Older Population*. Poster presented at the International Symposium of the 15th Research Day College of Dental Medicine. March 17, **2023** in Kaohsiung Medical University, Taiwan.
 18. Wang YS, Chen CC, Lo KY, **Huang HL***. *The Effects of Mobile AR Digital Toothbrush Machine on Dental Plaque Control and Toothbrushing Skill in Elementary School Children*. Poster presented at the 45th Chinese Taipei Association for Dental Sciences Annual Scientific Meeting. Nov 06, **2022** in Taipei, Taiwan.
 19. You FZ, Huang CL, **Huang HL***. *Health Counseling with Artificial Intelligence-Assisted Dental Monitoring on Treatment Outcomes in Patients with Periodontitis: A Randomized Controlled Trial*. Poster presented at the 26th IADH Congress International Association for Disability & Oral Health, Paris, FRANCE. Aug. 25, **2022**.
 20. Liu YL, Wang YS, Lo KY, **Huang HL***. *A mobile AR simulation brushing machine on dental plaque control for elementary school students: A pilot study*. Poster presented at the 26th IADH Congress International Association for Disability & Oral Health, Paris, FRANCE. Aug. 25, **2022**.
 21. Lin YC, Huang ST, **Huang HL***. 高齡者咀嚼吞嚥困難與肌少症、衰弱症之相關性 Poster presented at the 2022 annual conference of the Taiwan Association of Dysphagia. August 7, **2022** in Taipei, Taiwan.
 22. Chen MA, Lin YC, **Huang HL***. Effectiveness of an oral rehabilitation intervention on the oral health-related quality of life and salivary antimicrobial peptide in older patients with dementia. Poster presented at the 2022 annual conference of the Taiwan Association of Dysphagia. August 7, **2022** in Taipei, Taiwan.
 23. Lin YC, **Huang HL***. Effect of virtual reality (VR) and augmented reality (AR) oral care training systems for continuing education of home care workers. Poster presented at the 2022 annual conference of the Taiwan Association of Dysphagia. August 7, **2022** in Taipei, Taiwan.
 24. FZ Yu, YC Lin, **Huang HL***. *Health Education with the AI-Platform on Oral Hygiene and Periodontal Treatment Outcome in Patients with Periodontal Disease: A Randomized Controlled Trial*. Oral presented at the 24th IUHPE World Conference on Health Promotion: Promoting policies for health, well-being and equity, May 15-19, **2022**, Montreal, Québec, Canada - www.iuhpe2022.com
 25. Chen MA, **Huang HL**, Lin YC*. *Effects of oral rehabilitation program on the oral health-related quality of life and salivary lactoferrin level in older patients with dementia: a*

- randomized clinical trial*. Oral presented at the International Symposium of the 14th Research Day College of Dental Medicine. March 18, **2022** in Kaohsiung Medical University, Taiwan.
26. Lin YC, Lin PC, Lin PC, **Huang HL***. *Geriatric Oral Care Performance Using Virtual and Augmented Reality (VR/AR) System: Preliminary Finding in Community Health Workers*. Oral presented at the International Symposium of the 14th Research Day College of Dental Medicine. March 18, **2022** in Kaohsiung Medical University, Taiwan.
 27. Chang AH, Lin YC, **Huang HL***. *Virtual Reality Training System on Oral Health Care for Dependency Elderly in Oral Hygiene Students*. Oral presented at the International Symposium of the 14th Research Day College of Dental Medicine. March 18, **2022** in Kaohsiung Medical University, Taiwan.
 28. Wu PC, Chang AH, **Huang HL***. *A Brief Study of Oral Health Education on Dental Plaque Control among Elementary School Students in Chiayi County*. Poster presented at the International Symposium of the 14th Research Day College of Dental Medicine. March 18, **2022** in Kaohsiung Medical University, Taiwan.
 29. Wang JF, Hu YJ, Wang YS, Chang AH, Lo KY, **Huang HL***. *The Efficacy of Mobile AR Brushing Machine on Dental Plaque Control and Brushing Technique for Elementary School Students: A Pilot Study in Chiayi County*. Poster presented at the International Symposium of the 14th Research Day College of Dental Medicine. March 18, **2022** in Kaohsiung Medical University, Taiwan.
 30. Huang YH, Chen WH, Lin YC, **Huang HL***. *Geriatric Oral Care Intention and Related Factors among Long-Term Care Attendants*. Poster presented at the International Symposium of the 14th Research Day College of Dental Medicine. March 18, **2022** in Kaohsiung Medical University, Taiwan.
 31. Liao SR, Yuan XH, Chen MA, **Huang HL***. *Health-promoting School Strategy on the Oral Health-Related Knowledge, Self-efficacy and Behaviors in Middle-Grade Students in High-Caries Schools*. Poster presented at the International Symposium of the 14th Research Day College of Dental Medicine. March 18, **2022** in Kaohsiung Medical University, Taiwan.
 32. Hsu YJ, **Huang HL***. *The Role of Community Health Workers in the Management of Periodontal Disease in Patients with Type 2 Diabetes*. Oral presented at the 44th Chinese Taipei Association for Dental Sciences Annual Scientific Meeting. October 30, **2021** in Taipei, Taiwan.
 33. Chang AH, Lin YC, Lin PC, Lin PC, **Huang HL***. *Effect of Virtual Reality-based Training on Oral Health Care for Elderly in Oral Hygiene Students: A Randomized Study*. Oral presented at the 44th Chinese Taipei Association for Dental Sciences Annual Scientific Meeting. October 30, **2021** in Taipei, Taiwan.
 34. **Huang HL**, Shen KL, You FT, Huang CL*. *The Dental Care Revolution: AI-platform Intervention on Plaque Control and Treatment Outcome in Patients with Periodontal Disease*. Oral presented at the 44th Chinese Taipei Association for Dental Sciences Annual Scientific Meeting. October 30, **2021** in Taipei, Taiwan. (MOST109-2314-B-037-074; MOST110-2314-B-037-037-MY2)

35. Shen KL, Huang CL, **Huang HL***. *Health Education Using AI or Humanized Counseling on Plaque Control and Periodontal Treatment Outcome in Patients with Periodontal Disease*. Oral presented at the International Symposium of the 13rd Research Day College of Dental Medicine. March 19, **2021** in Kaohsiung Medical University, Taiwan. (MOST109-2314-B-037-074)
36. Cheng BH, **Huang HL***. *Evaluation of a Lay Health Advisors Strategy on Oral Function, Plaque Control and Behavior Change Among Older People in Aboriginal Communities: A Randomized Controlled Trial*. Oral presented at the International Symposium of the 13rd Research Day College of Dental Medicine. March 19, **2021** in Kaohsiung Medical University, Taiwan.
37. Tsou HP, **Huang HL***. *Maternal Oral Health Literacy and Behaviors Associated with Child Caries in Kaohsiung City*. Oral presented at the International Symposium of the 13rd Research Day College of Dental Medicine. March 19, **2021** in Kaohsiung Medical University, Taiwan.
38. Kuo CY, Chen WJ, Chang AH, Lin YC, **Huang HL***. *A Pilot Study on the Learning Satisfaction and Effectiveness of VR/AR Training System on Self-Efficacy of Elderly Oral Care among Oral Hygiene Students*. Poster presented at the International Symposium of the 13rd Research Day College of Dental Medicine. March 19, **2021** in Kaohsiung Medical University, Taiwan.
39. Yu CS, Cheng BH, **Huang HL***. *The Effectiveness of Oral Exercise Intervention Using Leaflet and Film on Oral Function Improvement among Older People in Aboriginal Communities*. Poster presented at the International Symposium of the 13rd Research Day College of Dental Medicine. March 19, **2021** in Kaohsiung Medical University, Taiwan.
40. Liou CH, Wu YL, Shen KL, Huang CL, **Huang HL***. *The Potential of AI in Homecare: A Pilot Study of AI Intervention on Change of Oral Self-Care Behavior in Periodontal Patients*. Poster presented at the International Symposium of the 13rd Research Day College of Dental Medicine. March 19, **2021** in Kaohsiung Medical University, Taiwan. (MOST109-2314-B-037-074)
41. Chen HY, Chen MA, **Huang HL***. *Caries Preventive Awareness, Attitude, Behaviors towards Children among Parents*. Poster presented at the International Symposium of the 13rd Research Day College of Dental Medicine. March 19, **2021** in Kaohsiung Medical University, Taiwan.
42. Lee CT, Chen MA, **Huang HL***. *Factors Associated with Root Caries in the Elderly People*. Poster presented at the International Symposium of the 13rd Research Day College of Dental Medicine. March 19, **2021** in Kaohsiung Medical University, Taiwan.
43. Lin YC, **Huang HL***. *Virtual Reality and Augmented Reality (VR/AR) Technology in Dental Medical Education*. Oral presented at the 2nd International Conference on Digital Solutions for Education and Clinical Dentistry. January 16, **2021** in National Cheng Kung University, Taiwan.
44. Chung YL, Lu TY, Chen JH, **Huang HL***. *Oral function, physical function and oral health-related quality of life in the community elderly*. Poster presented at the 20th Annual National

Oral Health Conference. April 06-08, **2020** in San Diego, LA, USA.

45. Ciou S, **Huang HL***. Factors associated with severe early childhood caries in Taipei City, Taiwan. Poster presented at the 20th Annual National Oral Health Conference. April 06-08, **2020** in San Diego, LA, USA.
46. Wei CT, Lin YC, Lo KY, **Huang HL***. Health Promoting School Program on Plaque Control and Preventive Behaviors in High-Caries Schoolchildren. Poster presented at the 20th Annual National Oral Health Conference. April 06-08, **2020** in San Diego, LA, USA.