



## 黃曉靈 Hsiao-Ling Huang 教授

### 聯絡方式

電話：07-3121101#2159

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### 現職

- 台灣口腔衛生科學學會理事長 2023~2025
- 高雄醫學大學口腔衛生學系教授 2014~

### 教育程度

美國杜蘭大學	全球社區健康及行為科學研究所	博士	2003~2007
美國杜蘭大學	流行病學研究所	碩士	1997~1998
高雄醫學大學	公共衛生學系	學士	1993~1996
長庚科技大學	護理系	副學士	1991~1992

### 經歷

高雄醫學大學	口腔衛生學系	主任	2015~2021
台灣口腔衛生科學學會		副理事長	2020~2022
高雄醫學大學	口腔醫學院教學組	組長	2015~2016
高雄醫學大學	口腔衛生學系	副教授	2011~2014
高雄醫學大學	口腔衛生學系	行政教師	2014~2015
高雄醫學大學	教師發展暨教學資源中心-教師發展組	組長	2012~2014
高雄醫學大學	口腔醫學院教學組	組長	2012~2013
高雄醫學大學	口腔醫學院	總行政教師	2011~2012
高雄醫學大學	口腔衛生學系	行政教師	2009~2010
高雄醫學大學	口腔衛生學系	助理教授	2007~2011

高雄醫學大學	口腔衛生學系學會衛教組	指導老師	2007~2012
樹人醫專學生事務處	學生活動中心	顧問	2001~2003
樹人醫護管理專科學校	護理科	講師	2000~2003
樹人醫專學生事務處	衛生保健社	指導老師	2000~2003
樹人醫專學生事務處	衛生保健組	組長	2000~2001
樹人醫校	護理科	教師	1999~2000

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## 專長及研究領域

衛生教育與健康促進

健康行為科學

社區健康

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## 任教科目

大學部：衛生教育與健康促進、社區口腔衛生實務、研究法概論

碩士班：衛生教育與健康促進方案規劃、研究方法特論、衛生教育介入理論與應用、衛生計畫的偵測與評價。

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## 專業證照

- 護理師：No. 032637, 衛生署 1992
- 護士：No. 053682, 衛生署 1990

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## 榮譽及獎勵 HONOR AND AWARDS

- 113 學年度『研究績優教師-研究計畫績優獎』獲獎，高雄醫學大學，2024/10/16。
- 112 學年度『研究績優教師-研究計畫績優獎』獲獎，高雄醫學大學，2023/10/16。
- 111 學年度『研究績優教師-研究計畫績優獎』獲獎，高雄醫學大學，2022/10/16。
- 110 學年度『研究績優教師-研究計畫績優獎』獲獎，高雄醫學大學，2021/10/16。
- 109 學年度『研究績優教師-研究計畫績優獎』獲獎，高雄醫學大學，2020/10/16。
- 108 學年度『研究績優教師-研究計畫績優獎』獲獎，高雄醫學大學，

- 2019/10/16。
- 107 學年度『研究績優教師-研究計畫績優獎』獲獎，高雄醫學大學，2018/10/16。
  - 106 學年度『研究績優教師-研究計畫績優獎』獲獎，高雄醫學大學，2017/10/16。
  - 105 學年度『研究績優教師-研究計畫績優獎』獲獎，高雄醫學大學，2016/10/16。
  - 104 學年度『研究績優教師-研究計畫績優獎』獲獎，高雄醫學大學，2015/10/16。
  - 103 學年度『研究績優教師-研究計畫績優獎』獲獎，高雄醫學大學，2014/10/16。
  - 103 年度『教育部延攬及留住特殊優秀教學人才措施』獎勵，教育部，2014。
  - 103 年度『補助大專校院獎勵特殊優秀人才措施』獎勵，國家科學委員會，2014。
  - 102 學年度『研究績優教師-研究計畫績優獎』獲獎，高雄醫學大學，2013/10/16。
  - 102 年度『補助大專校院獎勵特殊優秀人才措施』獎勵，國家科學委員會，2013。
  - 102 年度『教育部延攬及留住特殊優秀教學人才措施』獎勵，教育部，2013。
  - 全球衛生年輕領袖獎(JUNIOR LEADER IN GLOBAL HEALTH AWARD)：Tulane SPHTM Centennial 2012, USA。美國 Tulane University 公共衛生暨熱帶醫學院百年大會傑出校友獎項，2012/11/11。
  - 101 年度『補助大專校院獎勵特殊優秀人才措施』獎勵，國家科學委員會，2012。
  - 101 年度『教育部延攬及留住特殊優秀教學人才措施』獎勵，教育部，2012。
  - 100 年度『國科會補助大專校院獎勵特殊優秀人才措施』獎勵，國家科學委員會，2011。Refers to the academic research, production and research studies or interdisciplinary research performance outstanding faculty in university.
  - 99 學年度教學傑出教師獎 (Distinguished Teaching Award):高雄醫學大學，2012。For teaching on Kaohsiung Medical University.
  - 99 學年度教學優良教師獎(Teaching Excellence Award):高雄醫學大學，2011。For teaching on Kaohsiung Medical University.
  - 99 年度『國科會補助大專校院獎勵特殊優秀人才措施』獎勵，國家科學委員會，2010。Refers to the academic research, production and research studies or interdisciplinary research performance outstanding faculty in university.

- 傑出優良教師 (Outstanding Teacher Award)：樹人醫護管理專科學校，**2002**. For teaching, student consulting and service, research on Department of Nursing.
- 優良社團指導老師 (Outstanding Instructor of School Club)：樹人醫專學生事務處，**2002**. For instruction on Health and Environment Club.

### 優秀論文獎項

- 研究生獲得口頭報告競賽基礎組第一名。胡右杰，論文題目：AI intervention on protection motivation, self-care behaviors, periodontal status and quality of life in patients with periodontitis: a randomized control trial. 高雄醫學大學口腔醫學院第十七屆研究日，**2025/03/14**.
- 大學部學生獲得貼示海報論文競賽基礎組第二名。陳芃樺、陳道泓，論文題目：AR toothbrushing system with video instructions for training Indonesian caregivers in geriatric oral care: a preliminary analysis. 高雄醫學大學口腔醫學院第十七屆研究日，**2025/03/14**.
- 大學部學生獲得貼示海報論文競賽臨床研究組第二名。王季旋、潘婷煒，論文題目：Efficacy of Health Education Combined with AR Toothbrushing System on Glycemic Control in Patients with Type 2 Diabetes: A Preliminary Analysis. 高雄醫學大學口腔醫學院第十七屆研究日，**2025/03/14**.
- 研究生獲得口頭報告競賽第一名。黃微婷，論文題目：*Comparing of the effects of AR/VR simulation training and traditional teaching method on oral care performance in gerontological healthcare students*. 2024 第二屆咀嚼吞嚥困難跨領域照護國際研討會，**2024/05/04-5**.
- 研究生獲得貼示報告競賽臨床及照護組第二名。陳志章，論文題目：*Preliminary Data Analysis of an Augmented Reality (AR) Training System on Oral Care Behaviors and Dental Plaque Control in Diabetes Patients*. 2024 第二屆咀嚼吞嚥困難跨領域照護國際研討會，**2024/05/04-05**.
- 研究生獲得口頭報告競賽基礎組第一名。林宜靜，論文題目：*The difference of AR/VR training system and group learning on oral care performance in home care assistants*. 高雄醫學大學口腔醫學院第十六屆研究日，**2024/03/29**.
- 研究生獲得口頭報告競賽基礎組第二名。黃微婷，論文題目：*A hybrid of AR and VR simulation training on oral care performance in gerontological healthcare students*. 高雄醫學大學口腔醫學院第十六屆研究日，**2024/03/29**.
- 大學生獲得貼示報告競賽臨床研究組第二名。陳鈺、湯耀翔，論文題目：*The Efficacy of AR Training System on Oral Health Behaviors and Dental Plaque Control in Patients with Diabetes - a Pilot Study*. 高雄醫學大學口腔醫學院第十六屆研究日，**2024/03/29**.
- 研究生獲得口頭報告競賽臨床組第一名。游馥慈，論文題目：*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*. 高雄醫學大學口腔醫學院第十五屆

研究日，**2023/03/18**.

- 大學生獲得貼示報告競賽基礎組第三名。李忻庭、李瑀珊，論文題目：*Impact of dysphagia on sleep quality in the elderly population*.高雄醫學大學口腔醫學院第十五屆研究日，**2023/03/18**.
- 大學生獲得貼示報告競賽臨床組第一名。吳佳靜、何雨蔚，論文題目：*AI-assisted dental monitoring on protection motivation and dental plaque control in patients with periodontal disease*.高雄醫學大學口腔醫學院第十五屆研究日，**2023/03/18**.
- 研究生獲得貼示報告競賽基礎組第二名。王鏞深. *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. 中華牙醫學會 111 年度大會暨第四十五次學術研討會，**2022/11/06**.
- 獲得貼示報告競賽佳作。Lin YC, Huang ST, 黃曉靈\*.論文題目: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 in Taipei, Taiwan , **2022/08/07**.
- 指導研究生獲得貼示報告競賽第二名。陳明安，論文題目: *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, in Taipei, Taiwan. **2022/08/07**.
- 指導大學生獲得貼示報告競賽基礎組第一名。袁祥紘、廖心茹，論文題目：*Health-promoting School Strategy on the Oral Health-Related Knowledge, Self-efficacy and Behaviors in Middle-Grade Students in High-Caries Schools*.高雄醫學大學口腔醫學院第十四屆研究日，**2022/03/18**.
- 指導大學生獲得貼示報告競賽基礎組第二名。王若凡、胡右杰，論文題目：*The Efficacy of Mobile AR Brushing Machine on Dental Plaque Control and Brushing Technique for Elementary School Students: A Pilot Study in Chiayi County*, 高雄醫學大學口腔醫學院第十四屆研究日，**2022/03/18**.
- 指導大學生獲得貼示報告競賽基礎組第三名。黃羿翔、陳唯豪，論文題目：*Geriatric Oral Care Intention and Related Factors among Long-Term Care Attendants*. 高雄醫學大學口腔醫學院第十四屆研究日，**2022/03/18**.
- 指導研究生獲得口頭報告競賽基礎組第一名。章瓊華，論文題目：*Virtual Reality Training System on Oral Health Care for Dependency Elderly in Oral Hygiene Students*. 高雄醫學大學口腔醫學院第十四屆研究日，**2022/03/18**.
- 指導研究生獲得口頭報告競賽臨床組第二名。陳明安，論文題目：*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* 高雄

醫學大學口腔醫學院第十四屆研究日，2022/03/18.

- 指導研究生獲得口頭報告競賽臨床組第二名。許原榕，論文題目：*The role of community health workers in the management of periodontal disease in patients with type 2 diabetes*. 中華牙醫學會 110 年度大會暨第四十四次學術研討會，2021/10/31.
- 指導研究生獲得口頭報告競賽基礎組第三名。章瓊華，論文題目：*Effect of Virtual Reality-based Training on Oral Health Care for Elderly in Oral Hygiene Students: A Randomized Study*. 中華牙醫學會 110 年度大會暨第四十四次學術研討會，2021/10/31.
- 指導大學生獲得貼示優秀論文獎：基礎組優等。郭靖怡&陳威任，論文題目：*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*. 高雄醫學大學口腔醫學院第十三屆研究日，2021/03/19.

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## 研究經驗

### 計畫主持人

- 114/02/11 - 115/12/31:計畫主持人，114-115 年度「身心障礙者口腔狀況及相關影響因素之探討」(Oral Health Status and Related Factors of People with Disabilities in 2025-2026)，衛生福利部口腔健康司 (計畫編號 M1427131)。金額: NT 8,100,000
- 113/03/02 - 113/10/31:計畫主持人，「113 年度臺北市口腔保健推動計畫」，台北市衛生局(計畫編號 S11320)。金額: NT 369,000
- 113/09/01 - 115/08/31:計畫主持人，「113~114 學年度學生及幼童口腔保健計畫」，教育部國民及學前教育署。金額: NT 4,408,000
- 112/08/01 - 115/07/31:計畫主持人，「衛生教育輔以高科技擴增實境(AR)潔牙訓練對控制不佳的第二型糖尿病患牙周狀況、血糖控制及生活品質之影響」(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)，112 年度國科會(NSTC112-2314-B-037-082-MY3)。金額: NT 4,100,161
- 112/08/01 - 115/07/31:計畫主持人，「擴增實境(AR)口腔照護模擬系統培訓外籍看護人員對高齡者口腔機能之影響」，醫百科技股份有限公司產學合作。金額: NT 300,000
- 112/03/14 - 112/11/24:計畫主持人，「112 年度臺北市口腔保健推動計畫」，台北市衛生局(計畫編號 S11217)。金額: NT 489,000

- 111/09/12 - 113/08/31:計畫主持人，「111~112 學年度學幼童口腔保健計畫」，教育部國民及學前教育署。金額: NT 4,880,000
- 111/07/01 - 111/12/31:計畫主持人，「擴增實境(AR)訓練系統對第二型糖尿病患者口腔清潔與牙齦健康之前驅試驗研究」，中華牙醫學會 111 年度口衛相關研究計畫。金額: NT 80,000
- 111/02/25 - 111/12/09:計畫主持人，「111 年度臺北市口腔保健推動計畫」，台北市衛生局(計畫編號 Q11137)。金額: NT 590,000
- 111/01/01 - 111/12/31:計畫主持人，「移動式 AR 數位科技刷牙機對國小學童牙菌斑降低之成效」，高醫-中山合作計畫。金額: NT 200,000
- 110/08 - 112/07: 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 (MOST110-2314-B-037-037-MY2), Taiwan.  
計畫主持人，「牙科照護革新: 衛生教育使用 AI 或人性化諮詢對牙周病人牙菌斑控制與治療之成效(2)」，110 年度科技部(MOST 110-2314-B-037-037-MY2)。金額: NT 2,600,000
- 110/04/12 - 110/12/12:計畫主持人，「110 年度臺北市社區口腔保健推動計畫」，台北市衛生局(T110008)。金額: NT 295,000
- 110/03/01 - 111/08/31:計畫主持人，「光學定位技術結合 AR/VR/MR 數位科技建置高齡口腔照護專業培訓計畫」，科技部南部科學園區管理局 南部精準健康產業聚落推動計畫 整合型計畫。金額: NT 1,800,000
- 109/07/01 - 109/12/31:計畫主持人，「虛擬實境與擴增實境(VR/AR)訓練系統對口衛系學生高齡口腔照護技能之成效」，中華牙醫學會 109 年度口衛相關研究計畫。金額: NT 80,000
- 109/10/21 - 111/08/31:計畫主持人，「109-110 年度學童口腔保健計畫」，教育部國民及學前教育署。金額: NT 4,900,000
- 109/07/15 - 110/12/31:計畫主持人，「口健漱口水對口腔抑菌之效果」，優植美科技股份有限公司產學合作。金額: NT 350,000
- 109/08 - 110/07: 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 (MOST 109-2314-B-037-074), Taiwan.  
計畫主持人，「牙科照護革新: 衛生教育使用 AI 或人性化諮詢對牙周病人牙菌斑控制與治療之成效」，109 年度科技部(MOST 109-2314-B-037-074)。金額: NT 1,040,000

- 109/02/20 - 109/12/15:計畫主持人，「109 年度高齡者及特殊需求者口腔機能促進保健計畫」(M09B8141)，衛生福利部心口司。金額: NT 2,470,000
  - 109/07/28 - 109/11/27:計畫主持人，「109 年度臺北市社區口腔保健推動計畫」，台北市衛生局(T110003)。金額: NT 290,000
  - 109/05/01 - 109/11/30:計畫主持人，「109 年臺北市學齡前兒童整合性社區篩檢暨口腔衛生習慣趨勢分析」，台北市衛生局。金額: NT 99,000
  - 108/08 - 109/07: Principal Investigator, *Applying Protection Motivation Theory with Action and Coping Planning in Oral Health Education to Clinical Practice on Patients' Adherence to Oral Care Behaviors, Periodontal Status, and Quality of Life: Risk Assessment, Model-based Interventions and Evaluation*, Ministry of Science and Technology (MOST 108-2314-B-037-061), Taiwan.
- 計畫主持人，「衛生教育應用保護動機理論與行動及應對計畫於臨床實務對病人遵從口腔照護行為、牙周狀況及生活品質之成效:風險評估、模型介入與結果評價」，108 年度科技部。金額: NT1,190,000

#### 共同主持人

- 112/1/1-112/12/31:協同主持人，「健康促進學校國際網絡計畫(111-112 年) - 112 年後續擴充」。金額: NT 3,800,000
- 111/1/1-111/12/31:協同主持人，「健康促進學校國際網絡計畫(111-112 年)」。
- 金額: NT 3,034,353
- 110/1/1-110/12/31:協同主持人，「健康促進學校國際網絡計畫(109-110 年) - 110 年後續擴充」。金額: NT 2,750,000
- 109/04 - 111/03:共同主持人，「建置口腔衛生與咀嚼吞嚥介入實證模式：口腔癌術後口腔機能、營養及生理機能提升之成效」，109 年度科技部(109-2314-B-037-012-MY2)。金額: NT 2,200,000
- 109/04/10-109/12/31:協同主持人，「健康促進學校國際網絡計畫(109-110 年)」，衛生福利部國民健康署。金額: NT 2,880,000

#### 其他研究經驗

- 2003: Research Assistant, "Community-Based Demonstration Project on Breastfeeding in African-American in Louisiana", Tulane Xavier National Center of Excellence in Women's Health (TUXCOE), Louisiana, U.S.A.
- 2002: Cancer Mortality in Relation to Residential Exposure to a Petrochemical Complex in Southern Taiwan, National Science Council, Taiwan.
- 2002: The Precancer Risk of Betel Quit Chewing, Tobacco Use and Alcohol Consumption in Oral Leukoplakia and Oral Submucous Fibrosis in Southern Taiwan, National Science Council, Taiwan.
- 2002: Characteristics of Chinese-style Cooking and the Population Burden of

## 社區工作與服務經驗

- 2021.01.01~2021.12.31 臺南市學校衛生委員會主委員
- 2016~2021: 教育部國教署健促輔導委員
- 2015: 國健署 104 年度年輕族群場域菸害防制工作計畫訪視委員，台灣科技大學推廣教育中心。
- 2014: 國健署 103 年度大專校院校園菸害防制計畫訪視委員，台灣科技大學推廣教育中心。
- 2014: 健康促進學校國際認證中央輔導委員，衛生福利部國民健康署。
- 2013: 「102 年度衛生教育主軸宣導計畫」成果報告審查委員，高雄市政府衛生局。
- 2013: 國健署大專校院校園菸害防制輔導訪視委員，102 年國健署「年輕族群場域菸害防制」計畫，台灣科技大學推廣教育中心。
- 2013.08.17: 受邀演講牙科醫事人員繼續教育培訓課程「衛教課程規劃--團體與個人，社區與門診」，高雄市立大同醫院。
- 2013.07.15: 「102 學年度學生口腔保健實施計畫」審查委員，教育部國民及學前教育署。
- 2013: 「101 學年度學生口腔保健實施計畫」期中審查委員，教育部國民及學前教育署。
- 2012: 大專校院校園菸害防制輔導訪視委員，國民健康局「101 年落實大專校院校園菸害防制」方案，台灣科技大學產學合作中心。
- 2012.10.29: 受邀演講「臺北市學前幼兒口腔衛生保健教保人員研習活動」培訓課程，臺北市政府衛生局、臺北市政府教育局。
- 2012.10.08: 受邀演講「臺北市學前幼兒口腔衛生保健教保人員研習活動」培訓課程，臺北市政府衛生局、臺北市政府教育局。
- 2012.07.27: 受邀演講「苗栗縣老人口腔保健」衛生所護理人員及志工培訓課程，苗栗縣縣政府衛生局。
- 2011: 「100 年度衛生教育主軸宣導計畫」成果報告審查委員，高雄市政府衛生局。
- 2011: 牙周病預防種子教師培訓講師，國民健康局牙周病防治計畫。
- 2011: 大專校院校園菸害防制輔導訪視委員，國民健康局「100 年落實大專校

院校園菸害防制」方案，台灣科技大學產學合作中心。

- 2011:大專校院校園菸害防制計畫審查委員，國民健康局「100 年落實大專校院校園菸害防制」方案，台灣科技大學產學合作中心。
- 2010:受邀演講「全國婦女國是會議(子議題:保護婦女免於二手菸害)」，花蓮縣縣政府衛生局。
- 2010:大專校院校園菸害防制輔導訪視員，國民健康局「99 年落實大專校院校園菸害防制」方案，台灣科技大學產學合作中心。
- 2010:受邀演講「北區 98 學年度國民小學校牙醫教育研習會 (演講題目：口腔衛生教育教材教法)」，台灣健康促進暨衛生教育學會、中華民國牙醫師公會全國聯合會。
- 2005: The Louisiana Campaign for Tobacco-Free Living, Center for Community Capacity, a Program of the Louisianan Public Health Institute, Louisiana.
- 2005: A pilot study in Schoolyard project in elementary school in Louisianan, a Program of the Department of Community Health Science, Louisiana, U.S.A.
- 2003: Community-Based Demonstration Project on Breastfeeding in African-American in Louisiana, Tulane Xavier National Center of Excellence in Women's Health (TUXCOE), Louisiana, U.S.A.

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## 研究著作 PUBLICATIONS

### (I) 【SCI/SSCI 期刊論文】\*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: 3.558, Rank: 26/92, 2021**

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 Oct**;49(10):988-998. 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: 31/167, 2021**

Subject Categories: MEDICINE, GENERAL & INTERNAL

**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: 4.070, Rank: 10/37, 2021**

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

## (II) 【TSSCI 及其他期刊論文】 \* Corresponding author

【TSSCI 期刊論文】 \* Corresponding author

1. Huang CM, Yen YY, Chen FL, Hsu CC, Lee CH, Lin YY, **Huang HL**\*. School-level Policy for Tobacco Control and Individual-level Characteristics in Relation to Cigarette Smoking among Children: A Multilevel Study of Pingtung County. *Taiwan Journal of Public Health* (台灣公共衛生雜誌). **2010**; 29(2):145-157 (TSSCI) (NSC 98-2314-B-037-003-MY2)

【其他期刊論文】\* 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) 書籍 Book

1. **黃曉靈**、林佩昭、黃純德、余權航、黃孟娟、林盈諄、林佩蓁/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) 研討會論文 \* 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**.
- **Huang HL**. The Effectiveness of a Lay Health Advisor Outreach Program on Immigrant Children's Caries in Taiwan: Community Randomized Trial. Invited speaking at the BIT's 3rd Annual World Congress of Oral & Dental Medicine-2016 (CODM-2016), Kaohsiung City, Taiwan. Nov. 19, **2016**. (NSC 99-2314-B-037-036-MY2; NSC 101-2314-B-037-039-MY3)
- **Huang HL**. Evaluating the Effect of a Community-based Lay Health Advisor Training Curriculum to Address Immigrant Children's Caries Disparities. Invited speaking at the 6<sup>th</sup> Research Day-International Symposium, College of Dental Medicine, Kaohsiung Medical University, Taiwan. May 02, **2014**. (NSC 99-2314-B-037-036-MY2; NSC 101-2314-B-037-039-MY3)
- **Huang HL**. Cigarette Smoking Behavior in Relation to Individual- and School-level Characteristics among Schoolchildren: A Multilevel Theory-Based Study. Invited speaking at the 7th Annual Meeting, Taiwan Oral Hygiene Science Association. March 14, **2010** in Taipei, Taiwan. (NSC 98-2314-B-037-003-MY2)

## INVITED MODERATOR

- **Huang HL**. Contexts & Constraints in School Health Workshop: Experience sharing of Asian health promoting school principals. Invited moderator at the ASCD and the International School Health Network (ISHN) for a Global School Health Symposium preconference of 21<sup>st</sup> IUHPE World Conference on Health Promotion. Aug 25, **2013** in Pattaya Exhibition and Convention Hall (PEACH), Thailand.

## 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](http://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.