

Hsiu-Yueh Liu

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EDUCATION

- Ph.D. 2005-2012 Graduate Institute of Dental Medicine, Kaohsiung Medical University
- M.S. 2002-2004 Graduate Institute of Oral Health Sciences, Kaohsiung Medical University
- B.B.A. 1995-1999 Department of Information Management, National Sun Yat-Sen University

PROFESSIONAL EXPERIENCE

- 2022.02~ Associate Professor, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University
- 2016.08 ~ 2022.01 Assistant Professor, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University

SPECIALTY

- Oral Hygiene of Special Needs
- Oral Function
- Fluoride

HONOR

- 2020. The 17TH National Innovation Award in the Academic Research Category. Chun-Li Lin, Ying-Hui Lai, Hsuan-Wen Wang, Kun-Chun Chen, Hsiu-Yueh Liu, Jen-Hao Chen, Chao-Hung Kuo, Chun-Hung Chen, Ming-Chu Feng. Chairside intelligent tongue pressure measurement and training system for the elderly.

Reference

Publication

(1) SCI/SSCI

1. Szu-Yu Hsiao, Ching-Teng Yao, Yi-Ting Lin, Shun-Te Huang, Chi-Chen Chiou, Ching-Yu Huang, Shan-Shan Huang, Cheng-Wei Yen, Hsiu-Yueh Liu*. Relationship between Aspiration Pneumonia and Feeding Care among Home Care Patients with an In-Dwelling Nasogastric Tube in Taiwan: A Preliminary Study. *Int J Environ Res Public Health*. 2022 Apr 29;19(9):5419. doi: 10.3390/ijerph19095419. (SSCI) (I.F.: 4.614, PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH 45/182, 2021)
2. Mei-Chen Chang, Hsiu-Yueh Liu, Shun-Te Huang, Hsiu-Lin Chen. Study of Orofacial Function in Preschool Children Born Prematurely. *Children (Basel)*. 2022 Mar 4;9(3):360. doi: 10.3390/children9030360. (SCI) (I.F.: 2.835, PEDIATRICS 59/130, 2021)
3. Hsiu-Yueh Liu, Jen-Hao Chen, Kun-Jung Hsu, Ching-Teng Yao, Ping-Ho Chen, Szu-Yu Hsiao, Chun-Li Lin*. Decreased Tongue Pressure Associated with Aging, Chewing and Swallowing Difficulties of Community-Dwelling Older Adults in Taiwan. *J Pers Med*. 2021 Jul 11;11(7), 653. doi: 10.3390/jpm11070653. (SCI) (I.F.: 4.945, HEALTH CARE SCIENCES & SERVICES 15/107, 2020)
4. Szu-Yu Hsiao, Ping-Ho Chen, Shan-Shan Huang, Cheng-Wei Yen, Shun-Te Huang, Shu-Yuan Yin, Hsiu-Yueh Liu*. Dental Treatment Needs and Related Risk Factors among School Children with Special Needs in Taiwan. *J Pers Med*. 2021 May 23;11(6):452. doi: 10.3390/jpm11060452. (SCI) (I.F.: 4.945, HEALTH CARE SCIENCES & SERVICES 15/107, 2020)
5. Hsiu-Yueh Liu, Chun-Hung Chen, Chao-Hung Kuo, Ming-Chu Feng, Jen-Hao Chen, Hsuan-Wen Wang, Kun-Chun Chen, Chun-Li Lin*. A novel tongue pressure measurement instrument with wireless mobile application control function and disposable positioning mouthpiece. *Diagnostics (Basel)*. 2021 Mar 10;11(3):489. doi: 10.3390/diagnostics11030489. (SCI) (I.F.: 3.706, MEDICINE, GENERAL & INTERNAL 45/167, 2020)
6. Sumio Akifusa*, Hsiu-Yueh Liu, Mao-Suan Huang, Madoka Funahara, Maya Izumi, Kazuaki Harada, Yasuo Shono. Relationship between attitude toward persons with dementia and knowledge of dementia in Taiwanese dental hygiene students: A cross-sectional study. *Journal of Education and Ethics in Dentistry*. 2018;8(1):23-31. (Acceptance: 25-Jun-2020; Web Publication: 19-Feb-2021)
7. Hsiu-Yueh Liu, Ping-Ho Chen, Wun-Jyun Chen, Shan-Shan Huang, Jen-Hao Chen, Ching-Teng Yao*. The Effectiveness of a Board Game-Based Oral Hygiene Education Program on Oral Hygiene Knowledge and Plaque Index of Adults with Intellectual Disability: A Pilot Study. *Int J Environ Res Public Health*. 2021 Jan 22;18(3):946. doi: 10.3390/ijerph18030946. (SSCI) (I.F.: 3.390, PUBLIC,

ENVIRONMENTAL & OCCUPATIONAL HEALTH 42/176, 2020)

8. Ting-Ying Wu, Hsiu-Yueh Liu, Chien-Yi Wu, Hung-Cheng Chen, Shun-Te Huang, Ping-Ho Chen. Professional oral care in end-of-life patients with advanced cancers in a hospice ward: Improvement of oral conditions. *BMC Palliat Care*. 2020 Nov 27;19(1):181. doi: 10.1186/s12904-020-00684-0. (SCI) (I.F.: 2.65, HEALTH POLICY & SERVICES 39/87, 2019)
9. Sumio Akifusa*, Hsiu-Yueh Liu, Mao-Suan Huang, Madoka Funahara, Maya Izumi, Kazuaki Harada, Yasuo Shono. Comparison of attitudes towards persons with dementia, knowledge of dementia and ageism amongst students in Taiwan and Japan: A cross-sectional study. *Eur J Dent Educ*. 2020 May;24(2):301-309. (SCI) (I.F.: 1.322, DENTISTRY, ORAL SURGERY & MEDICINE 71/91, 2019)
10. Ching-Teng Yao, Ya-Ping Yang, Chia-Ju Lin, Hsiu-Yueh Liu. Effect of group reminiscence therapy on depression and perceived meaning of life of veterans diagnosed with dementia at veteran homes. *Soc Work Health Care*. 2020 Jan 16:1-16. (SSCI) (I.F.: 0.982, SOCIAL WORK 29/44, 2019)
11. Ching-Teng Yao, Chia-Ju Lin, Hsiu-Yueh Liu. Effects of structured group reminiscence therapy on the life satisfaction of institutionalized older adults in Taiwan. *Soc Work Health Care*. 2018 Sep;57(8):674-687. doi: 10.1080/00981389.2018.1475439. (SSCI) (I.F.: 1.097, SOCIAL WORK 19/42, 2017)
12. Hsiu-Yueh Liu, Jung-Ren Chen, Szu-Yu Hsiao, Shun-Te Huang*. Caregivers' oral health knowledge, attitude and behavior toward their children with disabilities. *J Dent Sci* 2017;12(4):388-395. (SCI) (I.F.: 0.488, DENTISTRY, ORAL SURGERY & MEDICINE 146/155, 2016)
13. Shun-Te Huang, Chi-Chen Chiou, Hsiu-Yueh Liu*. Risk factors of aspiration pneumonia related to improper oral hygiene behavior in community dysphagia persons with nasogastric tube feeding. *J Dent Sci* 2017;12(4):375-381. (SCI) (I.F.: 0.488, DENTISTRY, ORAL SURGERY & MEDICINE 146/155, 2016)
14. Nai-Chih Chi¹, Shun-Te Huang*, Hsiu-Yueh Liu, Kuo-Tung Fan, Shang-Ting David Hsieh. A Four-year Case Analysis of Dental Treatment with Office-Based Intravenous Sedation in Taiwan. *Taiwan J Pediatr Dent*. 2016 Jun;16(2)39-45.

Conference

1. Hsiu-Yueh Liu*, Chun-Li Lin, Ming-Chu Feng, Chun-Hung Chen, Jen-Hao Chen. Oral hypofunction is associated with swallowing disorder in people with mental disorder in Taiwan. Taiwan Association of Dysphagia, New Taipei, Taiwan. August 07, 2022. Poster, P37
2. Hsiu-Yueh Liu*, Chun-Li Lin, Ming-Chu Feng, Chun-Hung Chen, Jen-Hao Chen. The Impact of Oral Function to Swallowing Disorder in Community-Dwelling Older Adults in Taiwan. Taiwan Association of Dysphagia, New Taipei, Taiwan. November 21, 2021. Poster, P24
3. Cheng-Huan Lu, Muhammad Omar Shaikh, Hsiu-Yueh Liu, Cheng-Hsin Chuang. Piezoresistive tactile

sensor with tongue pressure measurement capability for dysphagia assessment. Conference Paper September 2020 IEEE International Conference on Consumer Electronics - Taiwan (ICCE-Taiwan).

4. Hsiu-Yueh Liu*, Kazuaki Harada, Kun-Jung Hsu, Ching-Teng Yao, Shun-Te Huang, Szu-Yu Hsiao. Oral function among People with schizophrenia in Taiwan. The 36th Annual Meeting of the Japanese Society for Disability and Oral Health, Nagarakawa, Japan, November 22-24, 2019. Poster
5. Hsiu-Yueh Liu*, Kazuaki Harad, Kun-Jung Hsu, Ching-Teng Yao, Shun-Te Huang, Szu-Yu Hsiao. The oral functions and oral hypofunction of elderly in Taiwan. The 25th Annual Meeting of the Japanese Society of Dysphagia Rehabilitation, Niigata, Japan, September 6-7, 2019. Poster
6. Jing Ting Wang, Hsiu-Yueh Liu*, Szu-Yu Hsiao, Chia-Hsin Lai, Kazuaki Harada. Relationship between the oral function and nutritional status among people with mental disorders in southern Taiwan. The 25th Annual Meeting of the Japanese Society of Dysphagia Rehabilitation, Niigata, Japan, September 6-7, 2019. Poster, P56
7. Hsuan-Wen Wang, Hsiu-Yueh Liu, Kun-Chun Chen, YT Wang, CS Chen, Chun-Li Lin*. Development of digital wireless tongue pressure measurement system. The 25th Annual Meeting of the Japanese Society of Dysphagia Rehabilitation, Niigata, Japan, September 6-7, 2019.
8. Hsiu-Yueh Liu*, Kazuaki Harada, Kun-Jung Hs, Ching-Teng Yao, Szu-Yu Hsiao, Shun-Te Huang. The oral functions and oral hypofunction of elderly in Taiwan. The 30th Japanese Society of Gerodontology, Sendai, Japan, June 6-8, 2019.
9. Chia-Hsin Lai, Shun-Te Huang, Jen-Hao Chen, Ching-Teng Yao, Hsiu-Yueh Liu*. Oral Health Behavior and Related Factors of Frail Elderly in Long-term Care Institutions. The 1st Asia Association for Disability and Oral Health, Kaohsiung, Taiwan. April 12-14, 2019.
10. Yen-Chen Chuang, Kun-Jung Hsu, Qing-Teng Yao, Zhao Rong-Chen, Hsiu-Yueh Liu*. Relationship between Oral Frailty and Oral Health-Related Quality of Life (OHRQoL) in Community-dwelling Elderly. The 1st Asia Association for Disability and Oral Health, Kaohsiung, Taiwan. April 12-14, 2019.
11. Wen-Chun Chen, Ching-Teng Yao, Szu-Yu Hsiao, Hsiu-Yueh Liu*. The Evaluation of Oral Health Education Intervention for Disabilities in Institutions by Playing Board Game Programs. The 1st Asia Association for Disability and Oral Health, Kaohsiung, Taiwan. April 12-14, 2019.
12. Hsi-Pi Chung, Shun-Te Huang, Jen-Hao Chen, Ching-Teng Yao, Hsiu-Yueh Liu*. Oral Health Behavior and Related Factors of Frail Elderly in Long-term Care Institutions. The 1st Asia Association for Disability and Oral Health, Kaohsiung, Taiwan. April 12-14, 2019.
13. Yen-Tsen Lin, Shun-Te Huang, Ting-Ying Wu, Ching-Teng Yao, Kazuaki Harada, Hsiu-Yueh Liu*. A Research of Masticatory Performance, Activities of Daily Living and Oral Health-Related Quality of Life among Elderly. The 1st Asia Association for Disability and Oral Health, Kaohsiung, Taiwan. April 12-14, 2019.

14. Hsiu-Yueh Liu, Szu-Yu Hsiao, Shun-Te Huang. Dental treatment needs among children with disabilities in Taiwan. The 34th Annual Meeting of the Japanese Society for Disability and Oral Health, Funabori, Japan, October 27-29, 2017.
15. Shun-Te Huang, Chi-Chen Chiou, Hsiu-Yueh Liu. Improper oral hygiene, aspiration pneumonia and dysphagia. The 34th Annual Meeting of the Japanese Society for Disability and Oral Health, Funabori, Japan, October 27-29, 2017. Poster
16. Hsiu-Yueh Liu, Yun-Po Tang, Szu-Yu Hsiao, Shun-Te Huang. Oral Health Related Knowledge, Attitude and Behavior among Teachers of Special School. The 33th Annual Meeting of the Japanese Society for Disability and Oral Health, Ikebokuro, Japan, September 30-October 2, 2016.

RESEARCH PROJECT

No.	Title of Research Project	Funding Institution	Duration	Funding	Role
1	A breathing habit as a major health crisis: An empirical study of mouth breathing on oral function, diet and grip strength of children	MOST	2021/08/01 - 2022/07/31	820,000	Principal
2	Discussion on the difference between oral function and oral health-related quality of life of community-dwelling elderly in urban and rural	MOST	2020/07/01 - 2021/02/28	48,000	Advisor of MOST Research Grant for University Students
3	Development of intelligent tongue pressure trainer—establishing the model and indicator of tongue pressure and evaluation the effectiveness of dysphagia rehabilitation for the elderly people in Taiwan (1/2)	MOST	2020/06/01 - 2021/05/31	4,457,000	Co-principal (Principal of sub-project 2)
4	Oral function promotion plan for the elderly and people with special needs	MHOW	2020/01/01 - 2020/12/31	2,800,000	Co-principal

No.	Title of Research Project	Funding Institution	Duration	Funding	Role
5	Successful Aging in Health Adversity: The Impact of Oral Functions, Nutrition and Physical Functions to Population Aging of People with Mental Disability (2/2)	MOST	2019/08/01 - 2020/12/31	1,080,000	Principal
6	Development of intelligent tongue pressure trainer—establishing the model and indicator of tongue pressure and evaluation the effectiveness of dysphagia rehabilitation for the elderly people in Taiwan (1/2)	MOST	2019/06/01 - 2020/05/31	4,787,000	Co-principal (Principal of sub-project 2)
7	Successful Aging in Health Adversity: The Impact of Oral Functions, Nutrition and Physical Functions to Population Aging of People with Mental Disability (1/2)	MOST	2018/08/01 - 2019/07/31	1,080,000	Principal
8	A survey of oral health of 0- to 6-year-old children in Taiwan	MHOW	2018/01/01 - 2018/12/31	2,600,000	Co-principal
9	Cariogram Modeling of Fluoride Varnish Intervention in People with Disabilities: Tracing of Bacteria Amount, Risk of Caries Development, and Effectiveness of Caries Prevention	MOST	2017/08/01 - 2018/07/31	600,000	Principal

PATENT

No.	Title of invention	Patent certificate number	Patent Term	Inventor
1	Tongue pressure measurement and training device	Taiwan Patent Application No. M598664	2020/07/21~ 2030/03/09	Chun-Li Lin, Hsuan-Wen Wang, Kun-Chun Chen, <u>Hsiu-Yueh Liu</u>