



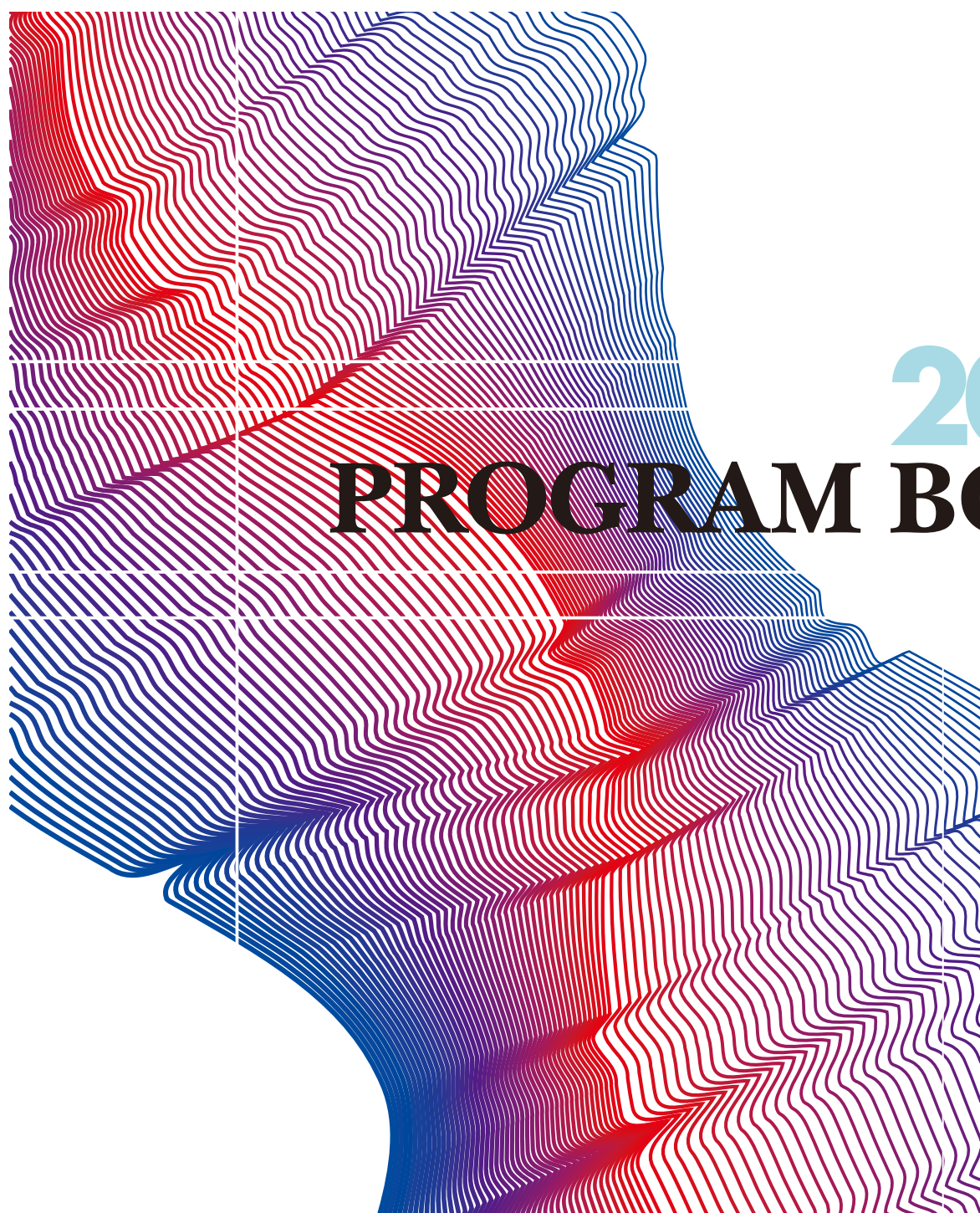
高雄醫學大學  
Kaohsiung Medical University



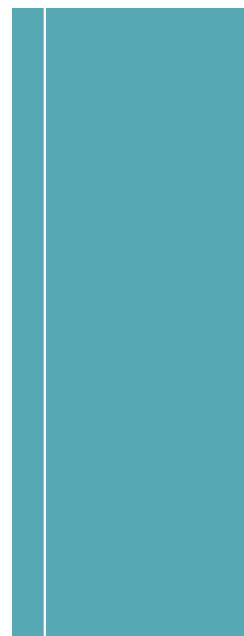
國立臺北護理健康大學  
National Taipei University of Nursing and Health Sciences

# International Symposium on Transdisciplinary Care for Dysphagia

2023 咀嚼吞嚥困難跨領域照護 | 國際研討會



2023  
PROGRAM BOOK





# International Symposium on Transdisciplinary Care for Dysphagia

2023 咀嚼吞嚥困難跨領域照護國際研討會

**指導單位(Advisors)：**

教育部(Ministry of Education)

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**主辦單位(Organizer)：**

高雄醫學大學(Kaohsiung Medical University)

**合辦單位(Joint Organizer)：**

國立臺北護理健康大學(National Taipei  
University of Nursing and Health Sciences)

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高雄醫學大學口腔醫學院(Kaohsiung Medical University College of Dental Medicine)  
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高雄市立小港醫院(Kaohsiung Municipal Siaogang Hospital)  
高雄市立大同醫院(Kaohsiung Municipal Ta-Tung Hospital)

**協辦單位(Co-Organizers)：**

高雄市牙醫師公會(Kaohsiung Dental Association of the ROC)  
台灣口腔衛生科學學會(Taiwan Academy for Dental Hygiene)  
台灣口腔照護協會(Taiwan Oral Care Association)  
台灣咀嚼吞嚥障礙醫學學會(Taiwan Association for Dysphagia)  
台灣特殊需求者口腔醫學會(Taiwan Association for Disability and Oral Health)

時間：中華民國 112 年 3 月 24 日（五）至 3 月 25 日（六）

TIME: 2023.03.24(Fri.)-03.25(Sat.)

地點：高雄醫學大學國際學術研究大樓國際會議中心 B 廳

Venue: Hall B, KMU International Convention Center, International Academic Research Building, Kaohsiung Medical University

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日本計測システム株式会社食の「やさしさ」と  
「安心」を守る「友善」食品  
「安心」守護かんたん3ステップ測定  
3個步驟簡單進行測量

STEP 1

測定物を  
セッティング  
準備好待測物

STEP 2

電源を入れて  
スタート  
打開電源  
按下啟動鍵

STEP 3

判定結果表示  
これで測定完了!  
判定結果顯示  
這樣就完成測量了!ケアフード (介護食) テスター  
**CF-200N**

CF-200Nはかたさや粘度※に応じて「容易にかめる」「歯ぐきでつぶせる」「舌でつぶせる」「かまなくてよい」の4区分を簡単に判定できるテスターです。

※ゾル(液状)測定の場合、別途粘度計が必要な場合がございます。CF-200Nは食べる人、作る人、見守る人、みんなに安心を提供します。

隨著社會高齡化的發展，對介護食品的需求也越來越高，繁忙的照護工作，介護食品測試儀CF-200N可簡單快速的對食品進行硬度檢測。

可以立即判定通用設計食品(UDF)和微笑介護食品(S C)的四個級別，除此之外同時也可以對照銀髮友善食品(Eatender)與IDDSI的規範，測試結果可將數據傳輸至PC。

『介護食品測試儀』提供生產者、食用者、照護者最安心的守護心。

ユニバーサルデザインフード・スマイルケア食判定  
UDF・SC介護食品・Eatender・IDDSIかたさや粘度※に応じて「容易にかめる」「歯ぐきでつぶせる」「舌でつぶせる」「かまなくてよい」の4段階に区分されています。  
※ゾル(液状)測定の場合、別途粘度計が必要な場合がございます。

根據硬度和黏度※區分為「容易咀嚼」「牙齦壓碎」「舌頭壓碎」「無須咀嚼」4個階段。 ※年度測試需要單獨使用黏度計來測量黏度。

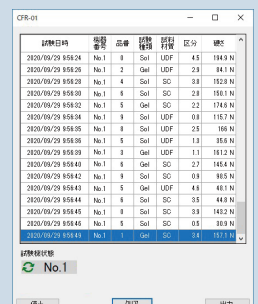
## 試験の条件 測試的條件

- 試験速度 : 10mm/sec
- 試料高さ : 15mm
- 測試速度 : 10mm/sec
- 試料高度 : 15mm
- 圧縮深さ : 10mm
- プランジャ : 直径20mmの円筒型
- 壓縮深度 : 10mm
- 圓柱治具 : 直径 20mm 圓柱型

Option データを転送してレポート作成  
オプション 傳輸數據報告

判定結果はオプションのUSBケーブル通信で専用ソフトに転送でき、データ管理ができます。データはCSVで出力できますので、表計算ソフトを活用してレポートなどを作成していただけます。

判定結果透過選配的USB專用傳輸線，傳輸到專用軟件並可進行數據管理。數據以CSV格式輸出，可透過Excel進行表單運算後，做成各類報表。



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## TEX series

Texture Tester テクスチャー試験機

### 官能試験

- ・感覚で判断
- ・基準があいまい
- ・個人差

### 口感測試

- ・由感官判断
- ・模糊的標準
- ・個人差異

### 数値化

- ・数値で判断
- ・基準がハッキリ
- ・データで管理

### 數據化

- ・數値化的判断
- ・明確的標準
- ・數據管理



食品を特徴付ける「食感」。またお子様や高齢者の方々に提供する食品の場合、安全にえん下（飲み込み）できるかどうかのチェックは食品を提供する側としてとても重要なポイントです。あいまいだった「食感」を“数値化”することで、食品の商品開発における食感の測定から、えん下困難者用食品の許可基準の確認まで、品質管理・検査業務をサポートします。

到目前為止，我們都是用感覺來判定「食感」，雖然“感覺”是一個非常重要的判斷基準，但是這個基準的曖昧度和個人差異是一個很大的課題。

食品食感試驗機 (Texture) TEX series, 將此曖昧的「食感」數值化，做一個客觀的判定。其應用的範圍從有關美味的食感，到“嚥下困難者”食用的食品基準，都可以很清楚地確認。

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# 目錄

## TABLE OF CONTENTS

I、研討會組織名單 Organizations of Symposium.....	1
II、高雄醫學大學校區位置圖 The Map of KMU Campus..	2
III、研討會議程 Agenda.....	4
IV、講者、座長摘要與簡歷 The Abstract and CV of Speaker and Chairperson .....	10
V、贊助廠商 Financial Sponsor .....	281

## I、研討會組織名單 (Organizations of Symposium)

- 榮譽會長 (Honorary Chairman) :
  - 楊俊毓 校長 Chun-Yuh Yang
- 會長 (Chairman) :
  - 黃純德 教授 Shun-Te Huang
- 副會長 (Vice Chairman) :
  - 鄭景暉 院長 Jjiang-Huei Jeng
  - 吳登強 副校長 Deng-Chyang Wu
  - 郭昭宏 院長 Chao-Hung Kuo
- 會務組 (Meeting Affair Group) :
  - 李碧娥 院長 Bih-O Lee
  - 陳俊鴻 主任 Chun-Hung Chen
- 財務組 (Finance Group) :
  - 杜哲光 部長 Je-Kang Du
  - 劉秀月 副教授 Hsiu-Yueh Liu
- 學術組 (Academic Group) :
  - 何佩珊 主任 Pei-Shan Ho
  - 黃孟娟 教授 Meng-Chuan Huang
  - 姚騰卿 主任 Ching-Teng Yao
  - 林佩蓁 助理教授 Pei-Chen Lin
- 接待組 (Reception Group) :
  - 黃曉靈 教授 Hsiao-Ling Huang
  - 黃詠愷 教授 Yung-Kai Huang
  - 馮明珠 副教授 Ming-Chu Feng
  - 汪硯雲 副教授 Winnie Yen-Yun Wang
- 公關媒體 (Media Public Relations Promotion) :
  - 包晶滢 秘書 Ching-Ying Pao



## II、高雄醫學大學校區位置圖 The Map of KMU Campus





### III、研討會議程 Agenda

## International Symposium on Transdisciplinary Care for Dysphagia 2023 咀嚼吞嚥困難跨領域照護國際研討會

Venue: Hall B, KMU International Convention Center, International Academic Research Building,  
Kaohsiung Medical University

舉辦地點：高雄醫學大學國際學術研究大樓國際會議中心 B 廳

March 24 2023 (Friday)

8:30-09:00	報到	
Time	Topic & Speaker / 主題 & 演講者	Chairperson/ 座長
09:00-09:50	教育部基地計畫啟動典禮 Launching Ceremony	
09:50~10:10	Coffee Break/ 茶敘	
10:10-10:20	Opening Ceremony/ 開幕式 楊俊毓校長 Chun-Yuh Yang President, Kaohsiung Medical University 吳淑芳校長 Shu-Fang Vivienne Wu President, National Taipei University of Nursing and Health Sciences	
10:20~11:10	What is the Swallowing Exercise, the Behavioral Viewpoint Eiichi Saitoh 才藤榮一教授 Professor, School of Medicine Faculty of Medicine, Fujita Health University	吳登強副校長 Deng-Chyang Wu Senior Vice President, Kaohsiung Medical University 侯明鋒董事長 Ming-Feng Hou Chairman of Board, Yuh-Ing Junior College of Health Care & Management
11:10~12:00	Development of Speech Signal Based Dysphagia Detection and Designed Meal Yoon Ghil Park 朴潤吉教授 Chair, Korean Academy of Rehabilitation Medicine Former president Korean Dysphagia Society	王亭貴理事長 Tyng-Guey Wang President, Taiwan Association for Dysphagia 雷若莉主任 Ruoh-Lih Lei

		Chair, Department of Nursing, Hungkuang University
12:00~12:20	QA	郭昭宏院長 Chao-Hung Kuo Superintendent, Kaohsiung Municipal Siaogang Hospital  鄭景暉院長 Jiang-Huei Jeng Dean, College of Dental Medicine, Kaohsiung Medical University
12:20-13:30	Lunch	
<u>Luncheon seminar</u> 12:20-13:20	<b>Multidisciplinary Collaboration Supporting the Happiness of Eating through the Mouth - Recommendation of Using KTBC</b>  Tamami Koyama 小山珠美理事長 President, NPO 法人口から食べる幸せを守る会 (KTSM) NPO 守護由口進食的幸福協會	何佩珊主任 Pei-Shan Ho Chair, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University
13:30-14:10	<b>Nutritional Management Enhances the Recovery of Swallowing Ability in Older Patients with Sarcopenic Dysphagia</b>  Jun Kayashita 栢下淳教授 Professor, Health Science Course, Faculty of Regional Development, Hiroshima Prefectural University	鍾飲文院長 Inn-Wen Chong Superintendent, Kaohsiung Medical University Chung-Ho Memorial Hospital  鄭景暉院長 Jiang-Huei Jeng Dean, College of Dental Medicine, Kaohsiung Medical University
14:10-14:40	<b>Application of Palatal Prosthesis for Restoring Oral Functions</b>  Tong-Mei Wang 王東美主任 Associate Professor, School of Dentistry, National Taiwan University	陳信銘副教授 Hsin-Ming Chen Associate Professor, Department of Dentistry, National Taiwan University, College of Medicine  杜哲光部長 Je-Kang Du Director, Department of Dentistry, Kaohsiung Medical University Chung-Ho Memorial Hospital
14:40-15:10	<b>運用專業間團隊合作模式 針對 PAP 個案之吞嚥困難處置 Interdisciplinary Treatment of Dysphagia Management with Palatal Prosthesis</b>  Bin-Fang Tsai 蔡碧芳醫師	劉澄主任 Cheng Liu Chair, Innovative Incubation Center, Shu-Zen junior College of Medicine and Management  莊淑芬教授

	Visiting Doctor, Department of Dentistry, Cathay General Hospital	Shu-Fen Chuang Professor, School of Dentistry and Institute of Oral Medicine, National Cheng Kung University
15:10-15:30	Coffee Break/ 茶敘	
15:30-16:10	<b>Dental Hygiene Curriculum of Dysphagia Management</b> Yoko Sato 佐藤陽子 Senior Instructor, Miyagi Advanced Dental Hygienist College	吳淑芳校長 Shu-Fang Vivienne Wu President, National Taipei University of Nursing and Health Sciences 黃曉靈教授 Hsiao-Ling Huang Professor, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University
16:10-16:40	<b>小兒吞嚥異常的神經病理機轉 From Neurodevelopment to Pediatric Swallowing Disorders, Viewpoints of Child Neurologists</b> Shih-Ming Weng 翁仕明副教授 Associate Professor, Department of Thanatology and Health Counseling, National Taipei University of Nursing and Health Sciences	李碧娥院長 Bih-O Lee Dean, College of Nursing, Kaohsiung Medical University
16:40-17:00	<b>AR/VR 應用於口腔衛生照護訓練 Augmented and Virtual Reality System in Oral Care Training</b> Hsiao-Ling Huang 黃曉靈教授 Professor, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University	黃大可董事長 Douglas Huang Chairman, EPED Inc. 卓怡孜校長 Yi-Tzu Cho President, Yuh-Ing Junior College of Health Care and Management
17:00-17:20	<b>咀嚼吞嚥障礙者的口腔照護(台灣經驗) Oral Care for Patients with Dysphagia in Taiwan</b> Yi-Ting Lin 林怡婷口衛師 Oral Hygienist, Department of Dentistry, Kaohsiung Medical University Chung-Ho Memorial Hospital	林佑樺院長 Yu-Hua Lin, Dean, Department of Nursing, Fooyin University 王嘉慶主任 Chia-Ching Wang Chair, Department of Dental Laboratory Technology, Min-Hwei Junior College of Health Care Management
17:20-17:40	QA	高嘉澤教授 Chia-Tze Kao Professor, School of Dentistry, Chung Shan Medical University

# International Symposium on Transdisciplinary Care for Dysphagia

## 2023 咀嚼吞嚥困難跨領域照護國際研討會

March 25 2023 (Saturday)

08:30-09:00	報到	
Time	Topic & Speaker / 主題 & 演講者	Chairperson/ 座長
09:00-09:40	<p style="text-align: center;"><b>Application of 3D-CT for dysphagia evaluation and treatment</b></p> <p style="text-align: center;">Yoko Inamoto 稻本陽子教授 Professor, Fujita Health University, Nagoya, Aichi, Japan</p>	<p style="text-align: center;">黃純德教授 Shun-Te Huang Emeritus Professor, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University</p> <p style="text-align: center;">周幸華主任 Hsin-Hua Chou Chair, School of Oral Hygiene, Taipei Medical University</p>
09:40-10:20	<p style="text-align: center;"><b>Impact of Oral Function on Regaining Oral Intake and Adjusting Diet Forms for Acute Stroke Patients.</b></p> <p style="text-align: center;">Makoto Inoue 井上誠教授 Vice president, Japanese Society of Dysphagia Rehabilitation Assistant director, Niigata University Medical and Dental Hospital Vice dean, Faculty of Dentistry, Niigata University Professor, Niigata University Graduate School of Medical and Dental Sciences</p>	<p style="text-align: center;">洪志興副院長 Chih-Hing Hung Vice Superintendent, Kaohsiung Municipal Siaogang Hospital</p> <p style="text-align: center;">杜哲光部長 Je-Kang Du Director, Department of Dentistry, Kaohsiung Medical University Chung-Ho Memorial Hospital</p>
10:20-10:40	Coffee Break/ 茶敘	
10:40-11:20	<p style="text-align: center;"><b>Impacts of Oral Health Management through a Multidisciplinary Team Approach on Dysphagia in Acute and Chronic Care</b></p> <p style="text-align: center;">Junichi Furuya 古屋純一副教授 Associate Professor, Department of Geriatric Dentistry, Showa University School of Dentistry</p>	<p style="text-align: center;">陳桂敏處長 Kuei-Min Chen Director, Department of Longterm Care, Pingtung County Government</p> <p style="text-align: center;">傅尹志院長 Yin-Chih Fu Superintendent, Kaohsiung Municipal Ta-Tung Hospital</p>
11:20-12:00	<p style="text-align: center;"><b>Remarks from Chairperson</b></p> <p style="text-align: center;">Shun-Te Huang 黃純德教授 Emeritus Professor, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical</p>	<p style="text-align: center;">楊俊毓校長 Chun-Yuh Yang President, Kaohsiung Medical University</p>

12:00-12:30	QA	黃曉靈教授 Hsiao-Ling Huang Professor, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University
12:30-13:40	Lunch	
Luncheon seminar - <u>A</u> 12:30-13:30	吞嚥困難飲食在台灣長期照護機構的運用 Diet Management of Dysphagia in Long-Term Care Unit - Taiwan Experiences Jia-Wen Ye 葉佳雯營養師 Chief Executive Officer Ye Jia-Wen Nutrition Consultation Clinics Chairman, Committee of Long-term Care Taiwan Dietitian Association	黃孟娟教授 Meng-Chuan Huang Professor, Department of Public Health and Environmental Medicine, School of Medicine, College of Medicine, Kaohsiung Medical University 陳敦基校長 Dun-Ji Chen President, National Kaohsiung University of Hospitality and Tourism
Luncheon seminar - <u>B</u> 12:30-13:30	如何安全的執行住民的口腔衛生照護 How to Perform Oral Hygiene Care Safely for Nursing Residents Pei-Chen Lin 林佩蓁助理教授 Assistant Professor, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University	李碧娥院長 Bih-O Lee Dean, College of Nursing, Kaohsiung Medical University
13:40-14:20	Application of Artificial Intelligence to The Diagnosis and Management of Dysphagia Byung-Mo Oh 吳炳莫教授 Clinical Professor, Dept. of Rehabilitation Medicine, Seoul National University College of Medicine, Seoul National University Hospital, Seoul, South Korea Vice President, National Traffic Injury Rehabilitation Hospital, Yangpyung, South Korea	黃純德教授 Shun-Te Huang Emeritus Professor, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University 陳俊鴻主任 Chun-Hung Chen Director, Department of Neurology, Kaohsiung Municipal Siaogang Hospital
14:20-15:00	Pitfalls and Tips for Success in VE Hideaki Kanazawa 金澤英哲 創辦人 Founder and Director, Swallowing Clinic	郭藍遠院長 Lan-Yuen Guo Dean, College of Health Sciences, Kaohsiung Medical University 賴政秀院長 Cheng-Hsiu Lai Dean, College of Nursing, Meiho University
H	Coffee Break/茶敘	

<p>15:20-15:50</p>	<p>臺灣的居家跨域牙科醫療與咀嚼吞嚥 障礙復能 Interdisciplinary Domiciliary Dental Care and Oral Rehabilitation - from University to Practice Environment  Chuan-Hang Yu 余權航教授 Director, School of Dentistry, Chung Shan Medical University</p>	<p>蕭思郁主任 Szu-Yu Hsiao Director, Division of Pediatric Dentistry and Dentistry for Special Needs, Kaohsiung Medical University Chung-Ho Memorial Hospital  張育超副校長 Yu-Chao Chang Vice President, Chung Shan Medical University</p>
<p>15:50-16:20</p>	<p>跨域咀嚼吞嚥照護-台灣經驗分享 Taiwan's Experience in Multidisciplinary Care for Dysphagia Patients  Chun-Hung Chen 小港醫院陳俊鴻主任 Director, Department of Neurology, Kaohsiung Municipal Siaogang Hospital</p>	<p>張金龍校長 Chin-Lung Chang President, National Pingtung University of Science and Technology  馮明珠高級專員 Ming-Chu Feng High Commissioner, Department of Superintendent, Kaohsiung Municipal Siaogang Hospital</p>
<p>16:20-16:40</p>	<p>QA</p>	<p>杜哲光部長 Je-Kang Du Director, Department of Dentistry, Kaohsiung Medical University Chung-Ho Memorial Hospital</p>
<p>16:40-17:00</p>	<p>Closing Remark 黃純德教授 Shun-Te Huang Emeritus Professor, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University</p>	



**IV、講者、座長摘要與簡歷 The Abstract and CV of Speaker  
and Chairperson**

**Eiichi Saitoh, M.D., D.M.Sc. (Passport name: Eiichi Saito)****Current Position:**

Professor,  
 Supreme Advisor,  
 Fujita Health University  
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**Personal data:**

Birthdate: April 18 1955 (67 yo)  
 Gender: Male  
 Nationality: Japanese

**Training, Degrees and Certifications:**

1991 Degree of Medical Science (PhD, Keio University; No 2343)  
 1987- Diplomat, Board of the Japanese Association of Rehabilitation Medicine (No 224)  
 1982-86 Senior Resident, Department of Rehabilitation Medicine, Keio University Hospital  
 1980-82 Resident, Keio University Hospital  
 1980- Licensed physician in Japan (No 256827)  
 1980 Graduated at School of Medicine, Keio University, Tokyo, Japan

**Professional Career:**

2021 July - present Supreme Advisor, Fujita Health University  
 2019 Sep - present Professor, Fujita Health University  
 2019 Apr - 2021 June President, Fujita Health University  
 2017 Apr - 2019 Mar Director, Research Center for Robotic Smart Home & Activity Assistive Technology, Fujita Health University  
 2011 May - 2021 June Executive Board Member, Fujita Academy (2014- Executive director, 2019- Representative director)  
 2011 May -2019 Mar Executive Vice President, Fujita Health University  
 2009 Feb - 2011 Apr Vice Director, Fujita Health University Hospital  
 1998 Apr - 2019 Aug Professor and Chairperson, Department of Rehabilitation Medicine I, School of Medicine, Fujita Health University  
 1998 Jul - 2007 Mar Principal, Academy of Rehabilitation, Fujita Health University  
 1995 Jan - 1998 Mar Associate Professor, Department of Rehabilitation Medicine, School of Medicine, Fujita Health University  
 1990-1994 Director, Department of Rehabilitation Medicine, Tokyo Metropolitan Rehabilitation Hospital  
 1986-1990 Assistant Professor, Department of Rehabilitation Medicine, School of Medicine, Keio University

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2019 Mar - 2020 Mar Visiting Professor, Mahidol University (Bangkok, Thailand)  
2017 Apr - present Visiting Professor, Shanghai University of Medicine and Health Science (Shanghai, China)  
2017 Mar - present Visiting Professor, China Medical University (Shenyang, China)  
2015 May - 2017 Guest Professor, Third Affiliated Hospital, Sun Yat-Sen University (Guangzhou, China)  
2015 Jan - 2015 Oct Professor, Capital Medical University (China High-end Foreign Experts Program) (China Rehabilitation Research Center, Beijing, China)  
2015 Jan - present Visiting Professor, Kyoto Prefectural University of Medicine  
2014 Apr - 2021 Mar Member of Executive board, National Center for Geriatrics and Gerontology  
2012 Feb Visiting Professor, Khon Kaen University (Khon Kaen, Thailand)  
2008 Apr - 2019 Mar Visiting Professor, Tokyo Medical & Dental University (Tokyo, Japan)  
2007 Apr - present Adjunct Professor, Johns Hopkins University (Baltimore, USA)

**Affiliated Societies / Associations:** (listed only representatives)

International member, National Academy of Medicine (USA), 2020.10-  
Member of trustee, Japanese Society of Dysphagia Rehabilitation, 2017.9-  
(1995-2006 Vice-chair, 2006-2011 Chair)  
International editor of Chinese Journal of Rehabilitation Medicine, 2015-  
Board member of Current Physical Medicine and Rehabilitation Reports, 2014-  
Vice-president (Member of trustee), Japanese Association of Rehabilitation Medicine, 2012.6 (2004)-  
Chairperson, Japan Council on Rehabilitation Education, 2012.6-  
Member of trustee, Japan Rehabilitation School Association, 2012.6-  
Member of trustee, Fujita Health University, 2011-2021  
Editorial board member of Japanese Journal of Comprehensive Rehabilitation Science, 2010-  
Editorial board member of American Journal of Physical Medicine & Rehabilitation, 2010-  
Member of trustee, Japanese Society for Neural Repair and Neurorehabilitation, 2010-  
Editorial advisory board member of Dysphagia (Springer), 2001-  
Member of board, Japan Medical Society of Spinal Cord Lesion, 2000-  
Member of board, Japanese Society of Clinical Neurophysiology, 1997-  
Member of board, Japanese Association of Rehabilitation Medicine, 1994-

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Japanese Representative of 2nd World Dysphagia Summit (2021 August, Nagoya, Japan)  
Chair of Times Higher Education Asia Universities Summit (2021 June, Nagoya, Japan)  
President of 13th International Society of Physical and Rehabilitation Medicine (2019 June, Kobe)  
Chairperson of International Dysphagia Symposium commemorating the 20th Anniversary of Japanese Society of Dysphagia Rehabilitation (2014 September, Tokyo)  
Chairperson of 51st Annual Meeting of Japanese Association of Rehabilitation Medicine (2014 June, Nagoya)  
Chairperson of 28th Annual Meeting of Japanese Society of Prosthetics and Orthotics (2012 November, Nagoya)  
Chairperson of 1st Annual Meeting of Japanese Society for Neural Repair and Neurorehabilitation (2010, Nagoya)  
Chairperson of 16th Annual Meeting of Japanese Society of Functional Electrical Stimulation (2009, Nagoya)

Chairperson of 27th Annual Meeting of Clinical Gait Analysis Forum of Japan (2005, Nagoya)  
Chairperson of 15th Annual Meeting of Japanese Academic Physiatrist Association (2003, Nagoya)  
Chairperson of 2nd Annual Meeting of Japanese Society of Dysphagia Rehabilitation (1996, Nagoya)

#### **Prizes, Awards:**

Saitoh E: Herman J Flax Lifetime Achievement Award of ISPRM, Lisbon, Portugal, 2022.

Fujita Health University Complex: Haim Ring Institutional Award of ISPRM, 2021.

Toyota Motor Corporation & Fujita Health University: Development of Welwalk-WW1000. Prize of Ministry of Health, Labour and Welfare, 8th Japan Robot Award. Tokyo, Japan, 2018.

Yamauchi M, Imaida M, Saitoh E et al: Development of Welwalk-WW1000. 23rd Technical Innovations Award. Robotics Society of Japan, Tokyo, Japan, 2018.

Saitoh E: Iida Prize of Japanese Society of Prosthesis and Orthosis. Tokyo, Japan, 2017.

Saitoh E & his robotics team: Research and development of rehabilitation robotics. Furukawa Medical & Welfare Foundation Award, Osaka, Japan, 2016.

Saitoh E: Sidney Licht Lectureship Award of International Society of Physical and Rehabilitation Medicine. Berlin, Germany, 2015.

Saitoh E: Recipient of China High-end Foreign Experts Program. Beijing, China, 2015.

Saitoh E: Honorary Membership, Academy for Multidisciplinary Neurotraumatology. Istanbul, Turkey, 2013.

Saitoh E: Prize for the Contribution to Japanese physical therapy and occupational therapy at the occasion of 40th anniversary celebration, Japanese Physical Therapy Association and Japanese Association of Occupational therapists, Tokyo, Japan, 2005.

Saitoh E: Prize for the Contribution to dental health and culture, Aichi Dental Association, Aichi, Japan, 1999.

Saitoh E: Resident of the Year at Department of Rehabilitation Medicine, Keio University, Tokyo, Japan, 1985.

#### **Major Publications:**

# **Textbooks** (listed only representative ones)

Inamoto Y, Saitoh E (Translation SV): Belafsky PC/Kuhn MA The Clinician's Guide to Swallowing Fluoroscopy. Ishiyaku-Shuppan, Tokyo 2019 (Japanese)

Inamoto Y, Shibata S, Saitoh E (Eds.): Dysphagia Evaluation and Treatment, from the Perspective of Rehabilitation Medicine. Ishiyaku Publishers Inc, 2019 (Japanese)

Inamoto Y, Saitoh E: Morphologic and Kinematic Analysis of Swallowing Using Multislice CT. in Ekberg O

(Ed.): Dysphagia, Diagnosis and Treatment Second Edition. Medical Radiology Diagnostic Imaging. pp333-349, Springer International Publishing, 2018, DOI 10.1007/174 (English)

Saitoh E, Pongpipatpaiboon K, Inamoto Y, Kagaya H (Eds.): Dysphagia Evaluation and Treatment, from the Perspective of Rehabilitation Medicine. Springer, 2017 (English)

Saitoh E (Eds.): OSCE for PT and OT: Intervention. Kanahara Publisher, Tokyo, 2017 (Japanese)

Chino N, Tsubahara A, Saitoh E, et al (Eds.): Modern Textbook of Rehabilitation Medicine, 4th edition. Kanahara Publisher, Tokyo, Japan, 2017 (Japanese)

Saitoh E, Ohtsuka K (Eds.): Gait Analysis and Motion Analysis. Center for Academic Publications Japan, Tokyo, 2015 (Japanese)

Saitoh E et al. (Eds.): Textbook of Dysphagia Rehabilitation. 3<sup>rd</sup> Edition. Ishiyaku-Shuppan, Tokyo, 2016 (Japanese)

Saitoh E (Eds.): OSCE for PT and OT: Assessment. Kanahara Publisher, Tokyo, 2015 (Japanese)

Saitoh E, Matsuo K, Shibata S (Eds.): Process Model for Dysphagia Rehabilitation. Ishiyaku-Shuppan, Tokyo, 2013 (Japanese)

Suzuki T, Saitoh E: Development of Gait-Assisted Robot WPAL (Wearable Power-Assist Locomotor) for Paraplegia (chapter 3) in Biomechatronics in Li L, Kai-Yu Tong R (Eds): Medicine and Healthcare. pp31–42, Pan Stanford Publishing Pte Ltd, 2011 (English)

Saitoh E, Sonoda S (Eds.): The FIT (Full-time Integrated Treatment) program. Igaku-Shoin, Tokyo, 2003 (Japanese)

Sonoda S, Saitoh E, et al: Prognostication of Stroke Patients using SIAS and FIM. in Chino N & Melvin JL (Eds.): Functional Evaluation of Stroke Patients. Springer, Tokyo, 1996 (English)

Saitoh E et al. (Eds.): Keywords of Rehabilitation Psychology. Bunkodo, Tokyo, 1995 (Japanese)

#### # **Papers** (listed only English papers)

2022

Tanikawa H, Mukaino M, Toh S, Kondoh H, Fujimura K, Teranishi T, Ohtsuka K, Hirano S, Kagaya H, Saitoh E, Otaka Y: Development of a simple mechanical measurement method to measure spasticity based on an analysis of a clinical maneuver and its concurrent validity with the modified Ashworth scale. *Frontiers in Bioengineering and Biotechnology* 2022, DOI 10.3389/fbioe.2022.911249

Thimabut N, Yotnuengnit P, Charoenlimprasert I, Sillapachai T, Hirano S, Saitoh E, Piravej K: Effects of the Robot-Assisted Gait Training Device Plus Physiotherapy in Improving Ambulatory Functions in Patients With Subacute Stroke With Hemiplegia: An Assessor-Blinded, Randomized Controlled Trial. *Archives of Physical Medicine and Rehabilitation* 2022, <https://doi.org/10.1016/j.apmr.2022.01.146>

Sugama J, Saitoh E, Yamada M, Hase T, Urai T, Takahashi T, Tamai N, Tobita I, Ishibasi M, Sanada H, Kamakura Y, Nomura T, Shibata S, Arita M, Ota E, Nakayama T, Nakagami G, Sato N, Fukada J, Okawa Y, Kitamura A, Dai M, Miki

T, Matsumoto M, Miura Y, Mugita Y, Yoshida M, Kurachi M, Noguchi H, Mukai K, Shirasaka T, Yamane Y: Japanese clinical practice guidelines for aspiration and pharyngeal residual assessment during eating and swallowing for nursing care. *Jpn J Nurs Sci.* 2022, e12496. <https://doi.org/10.1111/jjns.12496>

2021

Asami S, Inamoto Y, Yoshizuka H3, Saitoh E, Shibata S, Aihara K, Kagaya H, Kobayashi M, Asami T, Kuraoka A, Yamashita Y: Effect of Respiration Phases on the Morphology of the Laryngopharyngeal Cavity : an Investigation Using 320-RowAreaDetectorComputedTomography. *Fukuoka Acta Med.* 2021, 112(3):187-198

Tatemoto T, Mukaino M, Kumazawa N, Tanabe S, Mizutani K, Katoh M, Saitoh E, Otaka Y: Overcoming language barriers to provide telerehabilitation for COVID-19 patients: a two- case report. *Disability and Rehabilitation: Assistive Technology* 2021, <https://doi.org/10.1080/17483107.2021.2013962>

Pongpipatpaiboon K, Inamoto Y, Aihara K, Kagaya H, Shibata S, Mukaino, Saitoh E, Gonzalez-Fernandez M: Thin Liquid Bolus Volume Alters Pharyngeal Swallowing: Kinematic Analysis Using 3D Dynamic CT. *Dysphagia* 2022, <https://doi.org/10.1007/s00455-021-10397-y>

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Aihara K, Inamoto Y, Kanamori D, González-Fernández M, Shibata S, Kagaya H, Hirano S, Kobayashi H, Fujii N, Saitoh E: Effect of tongue-hold swallow on posterior pharyngeal wall using dynamic area detector computed tomography. *J Oral Rehabil.* 2021, 00:1–8. DOI: 10.1111/joor.13246

Nagashima Y, Kagaya H, Toda F, Aoyagi Y, Shibata S, Saitoh E1, Abe K, Nakayama E, Ueda K: Effect of electromyography-triggered peripheral magnetic stimulation on voluntary swallow in healthy humans. *J Oral Rehabil.* 2021, 00:1–9. DOI: 10.1111/joor.13256

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Tomida K, Tanino G, Sonoda S, Hirano S, Itoh N, Saitoh E, Kagaya H, Suzuki A, Kawakami K, Miyajima T, Takai M : Development of Gait Ability Assessment for hemiplegics (GAA) and verification of inter-rater reliability and validity. *Japanese Journal of Comprehensive Rehabilitation Science* (12) 2021, [doi.org/10.11336/jjcrs.12.19](https://doi.org/10.11336/jjcrs.12.19)

Mori S, Osawa A, Maeshima S, Sakurai T, Ozaki K, Kondo I, Saitoh E: Possibility of Using Quantitative Assessment with the Cube Copying Test for Evaluation of Visuo-spatial Function in Patients with Alzheimer's Disease. *Progress in Rehabilitation Medicine* 2021; Vol. 6, 2021002, doi: 10.2490/prm.20210021

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Senju Y, Mukaino M, Prodinger B, Selb M, Okouchi Y, Mizutani K, Suzuki M, Yamada S, Izumi S, Sonoda S, Otaka Y, Saitoh E, Stucki G : Development of a Clinical Tool for Rating the Body Function Categories of the ICF Generic-30/ Rehabilitation Set in Japanese Rehabilitation Practice, and Examination of its Interrater Reliability. *BMC Medical Research Methodology* 21, 2021, <https://doi.org/10.1186/s12874-021-01302-0>

Aoyagi Y, Inamoto Y, Shibata S, Kagaya H, Otaka Y, Saitoh E, : Clinical Manifestation, Evaluation, and Rehabilitative Strategy of Dysphagia Associated With COVID-19. *American Journal of Physical Medicine & Rehabilitation* 2021 May; 100(5): 424–431

Kumazawa N, Koyama S, Mukaino M, Tsuchiyama K, Tatemoto T, Tanikawa H, Ohtsuka K, Katoh M, Otaka Y, Eiichi Saitoh E, Tanabe S: Development and preliminary evaluation of a tele-rehabilitation exercise system using computer-generated animation. *Fujita Medical Journal* 2021, DOI <https://doi.org/10.20407/fmj.2021-020>

Inamoto Y, Saitoh E, Palmer JB: Annular Flow in the Upper Esophageal Sphincter Demonstrated with Dynamic 320-row Area Detector Computed Tomography. *Dysphagia* 2021, <https://doi.org/10.1007/s00455-020-10241-9>

Aoyagi Y, Ohashi M, Ando S, Inamoto Y, Aihara K, Matsuura Y, Imaeda S, Saitoh E: Effect of Tongue-Hold Swallow on Pharyngeal Contractile Properties in Healthy Individuals. *Dysphagia* 2021, <https://doi.org/10.1007/s00455-020-10217-9>

2020

Koyama S, Tanabe S, Otaka Y, Kato T, Furuzawa S, Tatemoto T, Kumazawa N, Yoshimuta H, Torii K, Tsukada, Eiichi Saitoh E: Novel lateral transfer assist robot decreases the difficulty of transfer in post-stroke hemiparesis patients: a pilot study. *Disability and Rehabilitation: Assistive Technology* 2020, DOI: 10.1080/17483107.2020.1818136

Benjapornlert P, Kagaya H, Shibata S, Matsuo K, Inamoto Y, Kittipanya-ngam P, Saitoh E: The prevalence and findings of fibre-optic endoscopic evaluation of swallowing in hospitalised patients with dysphagia. *Journal of Oral Rehabilitation* 2020, DOI: 10.1111/joor.13026

Ito Y, Inamoto Y, Saitoh E, Aihara K, Shibata S, Aoyagi Y, Kagaya H, Palmer JB, Gonzalez-Fernandez M: The effect of bolus consistency on pharyngeal volume during swallowing: Kinematic analysis in three dimensions using dynamic aear detector CT. *Journal of Oral Rehabilitation* 2020, 47, 10, 1287-1296, <https://doi.org/10.1111/joor.13062>

Ueda S, Kono Y, Yamada R, Ishiguro T, Yoshinaga M, Okumura S, Fujiwara W, Hayashi M, Aoyagi Y, Saitoh E, Otaka Y, Izawa H: Impact of physical function on indeterminable anaerobic threshold in patients with heart failure. *Fujita Medical Journal* 2020, [doi.org/10.20407/fmj.2020-015](https://doi.org/10.20407/fmj.2020-015)

Benjapornlert P, Kagaya H, Inamoto Y, Mizokoshi E, Shibata S, Saitoh E: The effect of reclining position on swallowing function in stroke patients with dysphagia. *Journal of Oral Rehabilitation* 2020, DOI: 10.1111/joor.13037

Tanikawa H, Inagaki K, Ohtsuka K, Matsuda F, Mukaino M, Yamada J, Kanada Y, Kagaya H, Saitoh E: Validity of quantitative assessment of posterior pelvic tilt and contralateral vaulting in hemiplegia using 3D treadmill gait analysis. *Topics in Stroke Rehabilitation* 2020, [doi.org/10.1080/10749357.2020.1783919](https://doi.org/10.1080/10749357.2020.1783919)

Wang Y, Mukaino M, Hirano S, Tanikawa H, Yamada J, Ohtsuka K, Li T, Saitoh E, Otaka Y: Persistent effect of gait exercise assist robot training on gait ability and lower limb function of patients with subacute stroke: a matched case-control study with three-dimensional gait analysis. *Frontiers in Neurobotics* 2020, doi: 10.3389/fnbot.2020.00042

Aoyagi Y, Ohashi M, Funahashi R, Otaka Y, Saitoh E: Oropharyngeal dysphagia and aspiration pneumonia following coronavirus disease 2019: a case report. *Dysphagia* 2020, 35:545–548, [doi.org/10.1007/s00455-020-10140-z](https://doi.org/10.1007/s00455-020-10140-z)

Mukaino M, Tatemoto T, Kumazawa N, Tanabe S, Katoh M, Saitoh E, Otaka Y: Staying active in isolation: telerehabilitation for individuals with the severe acute respiratory syndrome coronavirus 2 infection. *Am J Phys Med Rehabil* 2020, Jun; 99(6): 478–479, doi: 10.1097/PHM.0000000000001441

Tsuzuki H, Inamoto Y, Saitoh E, Aihara K, Shibata S, Kagaya H, Onogi K, Nakayama E, Sato M, Ueda K: Effects of bolus consistency and reclining position on kinematic swallowing events in analysis using 320-row area detector computed tomography. *Journal of Oral Science* 2020, 62-1, 18-22.

Tatemoto T, Saitoh E, Tanabe S, Koyama S, Kumazawa N, Furuzawa S, Kato T, Yoshimuta H, Torii K, Kiyono K, Otaka Y, Kanada Y: Lateral transfer assist robot (LTAR): development of a proof-of-concept prototype. *Technology and Health Care* 2020, 28, 175–183, DOI 10.3233/THC-191762

Katoh D, Tanikawa H, Hirano, Mukaino M, Yamada J, Sasaki S, Ohtsuka K, Katoh M, Saitoh E: The effect of using Gait Exercise Assist Robot (GEAR) on gait pattern in stroke patients: a cross-sectional pilot study. *Topics in Stroke Rehabilitation* 2020, 27-2, doi.org/10.1080/10749357.2019.1660080

Kagaya H, Masakado Y, Saitoh E, Fujiwara T, Abo M, Izumi S, Nodera H, Dekundy A, Hiersemenzel R, Nalaskowski CM, Hanschmann A, Kaji R: IncobotulinumtoxinA for upper- and lower-limb spasticity in Japanese patients. *Current Medical Research and Opinion* 2020, 36-5, doi.org/10.1080/03007995.2020.1740187

Maeda A, Suzuki M, Teranishi T, Ito M, Hokimoto N, Fujimura K, Ota H, Saitoh E: Do therapists with fewer years of clinical experience encounter more accidents? The relationship between number of years of clinical experience and number of accidents in a year. *Fujita Medical Journal* 2020, doi.org/10.20407/fmj.2019-015

Yoshida M, Miura Y, Yabunaka K, Sato N, Matsumoto M, Yamada M, Otaki J, Kagaya H, Kamakura Y, Saitoh E, Sanada H: Efficacy of an education program for nurses that concerns the use of point-of-care ultrasound to monitor for aspiration and pharyngeal post-swallow residue: a prospective, descriptive study. *Nurse Education in Practice* 2020, doi.org/10.1016/j.nepr.2020.102749

Yoshida M, Miura Y, Okada S, Yamada M, Kagaya H, Saitoh E, Kamakura Y, Okawa Y, Matsuyama Y, Sanada H: Effectiveness of swallowing care on safe oral intake using ultrasound-based observation of residues in the epiglottis valley: a pragmatic, quasi-experimental study. *Healthcare* 2020, doi:10.3390/healthcare8010050 (200226)

Funahashi R, Mukaino M, Otaka Y, Senju Y, Yoneda C, Ozeki Y, Shimizu Y, Koike T, Saitoh E: Feasibility of the International Classification of Functioning, Disability and Health Rehabilitation Set for inpatient rehabilitation: Selection and validity of a set of categories for inpatients in a convalescent rehabilitation ward. *Jpn J Compr Rehabil Sci* 2020, doi.org/10.11336/jjcrs.11.1

Senju Y, Mukaino M, Ozeki M, Watanabe M, Okochi Y, Mizutani K, Saitoh E, Sonoda S: Interrater agreement between clinician ratings and patient self-assessments for body function categories of ICF Rehabilitation Set. *Jpn J Compr Rehabil Sci* 2020, doi.org/10.11336/jjcrs.11.9

Aihara K, Inamoto Y, Aoyagi Y, Shibata S, Kagaya H, Sato Y, Kobayashi M, Saitoh E: Effect of tongue-hold swallow on pharyngeal cavity: kinematic analysis using 320-row area detector CT. *Jpn J Compr Rehabil Sci* 2020, doi.org/10.11336/jjcrs.11.35

Tanaka T, Kagaya H, Yamanouchi N, Iida T, Shibata S, Saitoh E: Colonic retention of barium with and without use of laxatives after videofluoroscopic examination of swallowing. *Jpn J Compr Rehabil Sci* 2020, doi.org/10.11336/jjcrs.11.73

Koyama S, Tanabe S, Saitoh E, Otaka Y, Ohta H, Tatemoto T, Kumazawa N, Katoh A, Sugiyama Y, Kiyono K, Kanada Y: Comparison of two methods of bed-to/from-wheelchair transfer in patients with hemiparetic stroke. *Fujita Med J* 2020, doi.org/10.20407/fmj.2019-016



Shibata S, Kagaya H, Ozeki Y, Saitoh E, Aoyagi Y, Iwata Y, Sakurai K: Effect of laryngeal suspension and upper esophageal sphincter myotomy for severe dysphagia due to brainstem disease. *Ann Otol Rhinol Laryngol* 2020, doi: 10.1177/0003489420904741

Mukaino M, Proding B, Yamada S, Senju Y, Izumi S, Sonoda S, Selb M, Saitoh E, Stucki G: Supporting the clinical use of the ICF in Japan – Development of the Japanese version of the simple, intuitive descriptions for the ICF Generic-30 Set, its operationalization through a rating reference guide, and interrater reliability study. *BMC Health Services Research* 2020, doi.org/10.21203/rs.2.17197/v3

Kono Y, Izawa H, Aoyagi Y, Ishikawa A, Sugiura T, Mori E, Ueda S, Fujiwara W, Hayashi M, Saitoh E: The difference in determinant factor of six-minute walking distance between sarcopenic and non-sarcopenic elderly patients with heart failure. *Journal of cardiology* 2020, 75(1), 42-46.

## **What is the swallowing exercise, the behavioral viewpoint**

Eiichi Saitoh, MD, DMSc  
Supreme advisor and Professor, Fujita Health University  
Chair, Asian Dysphagia Society

As the core methodology in dysphagia rehabilitation, exercise improves a patient's impairments and disabilities through behavioral intervention. The history of dysphagia rehabilitation is not long. And initially, the trainability of dysphagia was thought to be questionable from several reasons. But now we are fully aware of the effectiveness of swallowing exercise.

Generally, swallowing exercises are divided into two types, indirect exercise without bolus swallow and direct exercise with bolus swallow, mainly from the viewpoint of risk management for aspiration.

However, from the perspective of behavioral intervention, it is rational to divide it into "element-oriented exercise" that aims to improve the functional elements necessary for swallowing, and comprehensive "task-oriented exercise" that is motor learning such as creating new swallowing patterns.

Exercise design seeks a rational combination of element-oriented exercises and task-oriented exercises. This is because the total amount (exercise time) of both in clinical situation is limited.

The principle that activity changes function and structure is called the "activity-function-structure relationship". Functions such as muscle strength, range of motion, physical capacity, and dexterity are improved by stronger activity of the organ in charge than usual usage level, and structures are positively remodeled such as muscle hypertrophy during muscle strengthening exercise. This principle is used for element-oriented exercise to train each functional element.

The nervous system, which is also a major factor in improving coordination, also plays a major role in motor learning and generally follows the above principles. However, motor learning means a task-oriented systematic solution, given its purpose is defined as the achievement of a criterion task. In this process, not only dexterity (or coordination) but also many other functions should be involved, and also the use of assistive devices is taken into consideration.

In behavioral science context, motor learning is a relatively permanent change in motor behavior caused by experience. And there are main factors, 1) transferability, 2) motivation, 3) performance changes, and, 4) retention and application. In addition, as the important factors of performance change, there are 5) feedback, 6) amount of exercise, and 7) difficulty of exercise. The therapist can be said to be an exercise designer who understands the learning tasks and designs effective exercises while considering these factors. In particular, achieving the targeted task requires multi-step practice with high transferability and appropriate difficulty.

The role of videofluorography (VF), which was essential for the development of dysphagia rehabilitation, is due to its treatment-oriented nature. In other words, beyond the meaning of risk management, knowledge of the results (KR) obtained by VF provides proper design of task difficulty, and knowledge of performance (KP) provides useful tips for exercise way.

In this presentation, I will show clinical cases and methodologies explaining above mentioned concepts.

# 個人資料表

## 一、基本資料

中文姓名：	吳登強	英文姓名：	Deng-Chyang Wu	
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## 二、主要學歷

學校名稱	國別	主修學門系所	學位	起訖年月
高雄醫學大學	中華民國	醫學研究所博士班	博士	1992.09 - 2001.06
高雄醫學大學	中華民國	醫務管理研究所	碩士	2005.09 - 2007.06
高雄醫學大學	中華民國	醫學研究所	碩士	1988.09 - 1991.06
高雄醫學大學	中華民國	醫學系	學士	1977.09 - 1984.06

## 二、現職及專長相關之經歷

服務機關	服務部門/系所	職稱	起訖年月
現職：高雄醫學大學		副校長	2021.08.30-
高雄醫學大學附設高醫岡山醫院籌設營運處		執行長	2021.08.30-
高雄醫學大學	醫學系內科	教授	2007.02-
高雄醫學大學附設中和紀念醫院	胃腸內科	主治醫師	1990.08 -
衛生福利部食品藥物管理署	再生醫學諮議小組	召集人及委員	2022.01.01-2023.12.31
台灣細胞醫療協會		理事長	2022.07.12-
高雄市高醫德和醫管暨醫資學會		副理事	2021.12.21-
台灣微菌聯盟		副理事長、常務理事	2020.03-
台灣消化系醫學會		理事	2018.04
台灣小腸醫學會		常務理事	2014.03-
台灣發炎性腸道疾病學會		常務理事	2013.10-
台灣胃腸神經與蠕動學會		常務監事	2016.08-
經歷：台灣細胞醫療協會		理事	2014.12-
衛生福利部食品藥物管理署	再生醫學諮議小組	副召集人及委員	2020.01.01-2021.21.31
高雄市高醫德和醫管暨醫資學會		理事	2019.12-2021.12

高雄醫學大學	再生醫學與細胞治療 研究中心	副執行長	2019.08-2021.08
高雄醫學大學附設中和紀念 醫院	運營管理部	主任	2019.08-2020.07
高雄醫學大學附設中和紀念 醫院	細胞治療暨研究中心	主任	2019.08-2020.07
高雄醫學大學附設中和紀念 醫院		副院長	2018.08-2020.07
台灣微菌聯盟		副會長	2017.03-2020.03
台灣消化系內視鏡醫學會		常務理事	2016.04-2019.04
台灣幹細胞學會		理事	2015.11-2017.11
高雄市立大同醫院		副院長	2015.08-2018.07
高雄醫學大學	幹細胞研究中心	主任	2014.08-2019.07
高雄市立小港醫院	社區醫學醫療中心	主任	2013.08-2015.07
高雄市立小港醫院		副院長	2012.08-2015.07
高雄醫學大學附設中和紀念 醫院	胃腸內科	主任	2003.08-2012.07
高雄醫學大學	醫學系內科學	副教授	2002.08-2007.01
高雄醫學大學附設中和紀念 醫院	內視鏡檢查中心	主任	2000.08-2012.07
高雄醫學大學	醫學系內科	助理教授	1999.08-2002.07
美國哈佛大學麻州總醫院	胃腸內科	研究員	1995.01-1996.06
高雄縣立岡山醫院	內科	主任	1991.10-1992.08
高雄醫學大學	內科學	講師	1991.08-1999.07
高雄醫學大學附設中和紀念 醫院	內科	住院及總住院醫師	1986.09-1990.07

#### 四、專長

1.消化系內科	2.幽門螺旋桿菌、微菌相	3.分子生物學	4.幹細胞
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#### 五、期刊論文

- Hsu PI, Chen KY, Tai WC, Yang JC, Tsay FW, Liu YH, Chen CL, Lee CL, Yeh HZ, Kuo CH, Chuah SK, Lee HC, Shie CB, Shiu SI, Kao JY, Yamaoka Y, Graham DY, **Wu DC\***. Hybrid, high-dose dual and bismuth quadruple therapies for first-line treatment of Helicobacter pylori infection in Taiwan: a multicenter, open-label, randomized trial. Am J Gastroenterol 2023 (in press).
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- Wang JW, Hsu PI, Lin MH, Kao J, Tsay FW, Wu IT, Shie CB, **Wu DC\***. The efficacy of culture-guided versus empirical therapy with high-dose proton pump inhibitor as third-line treatment of Helicobacter pylori infection: A real-world clinical experience. J Gastroenterol Hepatol. 2022 Oct;37(10):1928-1934.
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## 專利

謝建台 吳登強 劉家君. 用以分析一流體中所含之氣態分析物的質譜儀，及用以檢驗氮氣的質譜分析方法. I340244 中華民國. 時間 2011/04/11-2027/08/2

吳明蒼 吳登強 蘇弘儒 周世華 黃偕倫 陳玉桂 吳俊杰. 預測食道癌存活及癒後狀態之方法及其套組及微陣列晶片 I429910. 中華民國. 時間:2014/03/11

謝建台 吳登強 吳俐節 卓怡孜 吳文正. 活體外檢測膀胱癌之方法及系統. I487911 中華民國. 時間:2015/6/11



專書

吸菸與消化系統癌症. 國衛院第四期文獻回顧研析計劃專書 2004

克隆氏症台灣診療現況 2021 version

潰瘍性結腸炎臨床治療指引 2020 version

克隆氏症臨床治療指引 2020 version

# Curriculum Vitae

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學歷：高雄醫學大學 醫學士 1972.09~1979.06

專長：乳房醫學、腫瘤學、外科學、基礎醫學、臨床醫學、醫務行政管理



現職：

服務機構及單位	職 稱	起迄年月
高雄醫學大學附設中和紀念醫院	外科教授	2002/08 至今
高雄醫學大學附設中和紀念醫院 乳房外科	主治醫師	2016/08 至今
高雄醫學大學董事會	顧問	2020/08 至今
高雄醫學大學生命科學院	教授	2021/08 至今
育英醫護管理專科學校	董事長	2020/05/21-2021/05/20
台灣外科醫學會第 28 屆理事長	理事長	2022/04-2024/03
高雄市乳癌防治衛教學會第 4 屆	理事長	2019/07/09-2023/07/08

經歷：

## 醫院行政經歷：

- 高雄醫學大學附設中和紀念醫院院長 (2018/11-2020/07)
- 高雄醫學大學附設中和紀念醫院代理院長 (2018/08-2018/11)
- 高雄市長小港醫院院長 (2015/08-2018/07)
- 高雄市長大同醫院院長 (2012/08-2015/07)
- 高雄醫學大學附設中和紀念醫院副院長 (2010/11-2012/07)
- 高雄醫學大學附設中和紀念醫院癌症中心主任 (2003/08-2012/07)
- 高雄醫學大學醫學院, 教授 (2002/08~2021/07)
- 國立中山大學合聘教授 (2018/8/1~2021/07)
- 國立交通大學合聘教授 (2018/8/1~2021/07)

## 學協會行政經歷：

- 台灣乳房醫學會, 第 3 屆理事長 (2004/03-2007/03)
- 中華民國醫用超音波學會, 第 16 屆監事 (2016/11/26-2018/11/25)
- 中華民國醫用超音波學會, 第 17 屆常務理事 (2018/11/10-2020/11/09)
- 中華民國醫用超音波學會, 第 18 屆理事長 (2020/10/24-2022/10/23)
- 台灣外科醫學會, 第 28 屆理事長 (2022/04-2024/03)
- 社團法人高雄市乳癌防治衛教學會, 第 1-2 屆理事長 (2007/06/09-2015/06/08)
- 社團法人高雄市乳癌防治衛教學會, 第 4 屆理事長 (2019/07/09-2023/07/08)
- 高雄市醫事暨醫務行政學會, 第 1 屆理事長 (2014/03/22-2015/03/21)
- 高雄市醫事暨醫務行政學會, 第 3 屆理事長 (2016/12/18-2019/12/17)
- 高雄市醫事暨醫務行政學會, 第 4 屆理事長 (2020/07/13-2023/07/12)
- 台灣私立醫療院所協會, 第 11 屆常務理事 (2020/8/22-2023/8/21)
- 台灣醫學中心協會, 第 9 屆常務理事 (2020/6/6-2022/6/5)
- 台灣醫院協會, 第 24 屆理事 (2020/8/22-2023/8/21)

- 台灣臨床腫瘤醫學會,第 9-10 屆理事 (2016/6/13-2022/5/15)
- 台灣癌症安寧緩和醫學會,第 7-9 屆理事 (2016/11/20-2022/11/19)
- 台灣癌症資訊全人關懷協會,第 4 屆監事 (2015/07/05-2018/07/04)
- 社團法人高雄市醫師公會,第 13-14 屆監事 (2016/04/01-2022/04/01)
- 社團法人台灣介入治療超音波學會,第 1-2 屆理事 (2016/12/13-2021/12/12)
- 社團法人國家生技醫療產業策進會,第 6 屆理事 (2019/11/26-2021/11/25)
- 中華民國醫師公會全國聯合會,第 12 屆常務理事 (2019/06/23-2022/06/22)
- 中華民國癌症醫學會,第 19-20 屆常務理事 (2017/05/16-2021/05/17)
- 高雄市高醫校友醫師協會,第 2-3 屆理事 (2013/10/27-2019/10/28)
- 台灣醫療健康產業卓越聯盟基金會,第 1 屆監察人

#### **其他榮譽事蹟**

- 榮獲 109 年防疫特殊貢獻獎(2020)
- 榮獲財團法人乳癌防治基金會第八屆傑出研究獎(2018)
- 榮登學術論文「自然雜誌期刊」(2017)
- 榮獲歐洲醫學會「最佳醫療實踐獎」及「帕拉賽爾斯玫瑰獎章」(2017)
- 台灣(第 I-316535 號)專利「以評估乳癌罹患之方法及基因標記」(2017)
- 榮獲衛生福利部國民健康署「健康促進貢獻獎」(2016)
- 榮獲高雄醫學科學雜誌最佳年度貢獻獎(1996)
- 榮獲杜聰明博士獎學基金會優秀論文獎(1996)

# CURRICULUM VITAE

## ***PERSONAL RECORDS***

Last Name: **Park** 朴 First Name: **Yoon Ghil** 潤吉

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## ***EDUCATION***

Mar.1984 - Feb.1986: Premedical Course (2 years), Science College, Yonsei University, Seoul, Korea

Mar.1986 - Feb.1990: M.D. Degree from Yonsei University, College of Medicine, Seoul, Korea

Mar.1993 - Feb.1995: Master Degree in Medicine, Yonsei University, Graduate School, Seoul, Korea

Sept.1998 - Mar.2002: Ph.D. Degree in Medicine, Yonsei University, Graduate School, Seoul, Korea

## ***PROFESSIONAL EXPERIENCES***

Feb.1990: Received the License of Physician by the Ministry of Social and Health Affairs, Rep. of Korea

Mar.1990 - Feb.1991: Rotating Internship at Severance Hospital, Seoul, Korea

Mar.1991 - Feb.1995: Four-year Residency in Rehabilitation Medicine, Severance Hospital, Yonsei University, College of Medicine, Seoul, Korea

Mar.1995: Board of Certified in Rehabilitation Medicine (Physiatrist) by Korean Academy of Rehabilitation and the Ministry of Social and Health Affairs, Rep. of Korea

Mar. 2000 – present Professor, Dept. of Rehabilitation Medicine, Gangnam Severance Hospital, Yonsei University College of Medicine

Sep.2003 – Aug 2004 Research & Clinical Fellowship in Nerorehabilitation program, Toronto Rehab Institute

Mar 2014 – present Medical Director of Dept. of Rehabilitation Medicine, Gangnam Severance Hospital

Sep 2016 – present    Director of Rehabilitation center, Cardiovascular Hospital, Gangnam Severance  
Hospital

### ***MEMBERSHIPS***

Korean Academy of Rehabilitation Medicine (chair, international affairs committee)  
Korean Dysphagia Society (former president)  
Korean Society of Intraoperative Neurophysiological Monitoring (president)  
Korean Association of Electrodiagnostic Medicine (chair, education committee)  
Korean Society of Brain-Neurorehabilitation (chair, finance committee)  
Korean Medical Association (active member)  
American Association of Electrodiagnostic Medicine (active member)  
International Society of Physical and Rehabilitation Medicine (member of executive committee)  
Asia Oceanian Society of Physical and Rehabilitation Medicine (secretary)

### ***CLINICAL & RESEARCH FIELD***

Dysphagia  
Stroke and Brain injury  
Electrodiagnostic evaluation

### ***Publication in recent 3 years (research work only)***

#### [Initial BMI and Weight Loss over Time Predict Mortality in Parkinson Disease.](#)

Yoon SY, Heo SJ, Lee HJ, Shin J, Kim YW, Yang SN, **Park YG**. J Am Med Dir Assoc. 2022 Oct;23(10):1719.e1-1719.e7. doi: 10.1016/j.jamda.2022.07.015. Epub 2022 Aug 23.

#### [Intramuscular stimulation as a new modality to control postthoracotomy pain: A randomized clinical trial.](#)

Moon DH, Park J, **Park YG**, Kim BJ, Woo W, Na H, Oh S, Lee HS, Lee S. J Thorac Cardiovasc Surg. 2022 Oct;164(4):1236-1245. doi: 10.1016/j.jtcvs.2022.02.047. Epub 2022 Mar 10

#### [Intraoperative evoked potentials in patients with ossification of posterior longitudinal ligament.](#)

Yoo M, **Park YG**, Cho YE, Lim CH, Chung SY, Kim D, Park J. J Clin Monit Comput. 2022 Oct;164(4):1236-1245.

[A Case of Dysphagia due to Cricopharyngeal Dysfunction and Diffuse Idiopathic Skeletal Hyperostosis](#) Lim CH, Lee HJ, **Park YG**, J Korean Dysphagia Soc 2022; 12(1): 74-78

[Clinical Association Between Nasopharyngeal Reflux and Aspiration.](#) Park J, **Park YG**, Lee J, Yoo M. Dysphagia. 2021 Oct;36(s):891-901

[Improvement of Dysphagia in a Chronic Brain Injury Patient with Temporomandibular Joint Dysfunction: A Case Report](#) Kwak KW, Lee HJ, **Park YG** J Korean Dysphagia Soc 2021; 11(2): 147-153

[Relationship between Swallowing Function, Diet Level and Pulmonary Function in Post-Stroke Patients](#) Yoo M, Lee HJ, Ko EJ, Park J, **Park YG**, J Korean Dysphagia Soc 2021; 11(1): 25-34

[Correlation between preoperative somatosensory evoked potentials and intraoperative neurophysiological monitoring in spinal cord tumors.](#)

Park J, Cho YE, Park M, Lee J, Kim D, **Park YG**. J Clin Monit Comput. 2020 Sep 29. Online ahead of print.

[Effectiveness of Intramuscular Electrical Stimulation on Postsurgical Nociceptive Pain for Patients Undergoing Open Pancreaticoduodenectomy: A Randomized Clinical Trial.](#)

Park J, Kim HS, Park JH, **Park YG**, Shin S, Park JE, Hwang S, Jun SY, Park JS. J Am Coll Surg. 2020 Sep;231(3):339-350.

[Efficacy and Safety of MT10107 \(Coretox\) in Poststroke Upper Limb Spasticity Treatment: A Randomized, Double-Blind, Active Drug-Controlled, Multicenter, Phase III Clinical Trial.](#)

Lee J, Chun MH, Ko YJ, Lee SU, Kim DY, Paik NJ, Kwon BS, **Park YG**. Arch Phys Med Rehabil. 2020 Sep;101(9):1485-1496.

[Comparison Between M-Mode Ultrasonography and Fluoroscopy for Diaphragm Excursion Measurement in Patients With Acquired Brain Injury.](#) Yoon SY, Moon HI, Kim JS, Yi TI, Park YG. J Ultrasound Med. 2020

Mar;39(3):535-542

# **Development of Speech Signal-based Dysphagia Detection and Designed Meal**

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## **1. Development of Speech Signal-based Dysphagia Detection**

Aberration of swallowing process may cause laryngeal aspiration, which often results in life-threatening complications. There are various methods available to assess the risk of aspiration, such as bedside examinations, videofluoroscopic swallowing study (VFSS), fiberoptic endoscopic evaluation of swallowing (FEES), and scintigraphy.

The 3-oz water swallow test has been widely used as a bedside evaluation and extensively studied for its predictability of aspiration. Most investigators have monitored coughing or change of phonation (e.g., wet voice) after swallowing. However, it may not accurately predict the risk of aspiration. One previous study reported that only 15% of the patients with a wet voice had ingested material into their larynx or trachea. Therefore, our study group are trying to develop machine learning algorithms with voice recorded via a mobile device. Voice samples from patients referred for swallowing disturbance in a university-affiliated hospitals were collected prospectively using a mobile device.

In our pilot study based on the /a/ voice data before and after the VFSS, which is a representative method for examining dysphagia, an autoencoder with a strong performance in detecting abnormalities is used to determine dysphagia. Autoencoder is one of neural network algorithms that learns the results value can be restored to be the same as the learned input value

Data from 33 normal subjects were used for initial machine learning. And then the voice data of 16 normal subjects and 39 patients with dysphagia were used for speech signal based dysphagia detection, the proposed algorithm yields 23% higher performance compared with the conventional Praat based scheme.

Voice analysis is a safe, noninvasive, and reliable screening tool for patients with dysphagia. It can detect patients at high risk of clinically significant aspiration, and allowing for early referral to respiratory experts and subsequently reducing aspiration pneumonia. So we need

future large-scale multi-center prospective studies

## **2. Designed Meal in Super-aged Society**

Korean society has been aging rapidly. The population aged 65 years is expected to be 20% in 2025 and 42.5% by 2065, which is the definition of a super-aged society. As the population ages further, their degree of independence will be determined by modifying their living environment, eating quality, and habits carrying socio-economic costs.

European Society for Clinical Nutrition and Metabolism reported as follows:

Older persons are at risk of malnutrition if oral intake is markedly reduced (e.g., below 50% of requirements for more than three days) or if risk factors, which either may reduce dietary intake or increase requirements (e.g., acute disease, neuropsychological problems, immobility, chewing problems, swallowing problems), are present. The risk of malnutrition and aspiration pneumonia in older people is of world-wide concern.

Korean Dysphagia Society (KDS) have been supporting the research of designed meal for the elderly. As a result, Weon-Sun Shin and her colleagues reported the easy cooking manual for dysphagia meal prepared with the processed food in December 2022. In addition, her research group also reviewed the domestic and international standards for the elderly food, the guidelines for product development in food companies, nutritional management in elderly facilities, and practical meal management.

Considering the physical, mental, and economic capabilities of the aged population, it will be necessary to establish a multifaceted approach that allows them to enjoy the eating pleasure. To achieve this, accurate market analysis and planning of the target products is a priority that should be supported by active development and commercialization from companies.



# 王亭貴 教授.



## 主要學歷：

1. 國立臺灣大學，醫學系 1978-1984
2. 紐澤西醫學院復健科，研究員 1992
3. 紐約大學附設醫院復健科，研究員 1993

## 主要經歷：

1. 教授, 台灣大學醫學系復健科 2010~迄今
2. 主任, 台灣大學醫學院附設醫院復健部 2011~2017
3. 理事長, 台灣肌肉骨骼神經超音波醫學會 2018~迄今
4. 理事長, 台灣咀嚼吞嚥障礙學會 2019~迄今
5. 常務董事, 財團法人台北市連倚南教授復健醫學教育基金會 2009~迄今

## 專長：

1. 肌肉骨骼超音波
2. 吞嚥障礙評估及處理
3. 胸腔復健

## 研究：

1. 以超音波評估肌肉骨骼神經疾病
2. 以超音波評估吞嚥功能
3. 吞嚥障礙新治療發展

## 榮譽：

1. 102年、104年、108年、111年度榮獲台大醫院教材著作優良獎
2. 2001年、2005年、2014年、2016年、2017年、2018年榮獲台灣大學教學優良獎
3. 2002年、2019年榮獲台灣大學教學傑出獎
4. 2007年榮獲北美台大醫學院教友基金會最佳臨床教師獎
5. 2008年榮獲台灣大學傑出教師獎
6. 2018年榮獲教育部師鐸獎
7. 2021年中華民國管理科學學會李國鼎管理獎章 (110)
8. 2021年台北醫師公會杏林獎 (110)
9. 2022年第十屆星雲教育獎 典範教師獎

Ruoh-Lih Lei, Ph.D., RN.,

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## 郭昭宏 院長



### 【現職】

- 高雄市立小港醫院 院長
- 高雄醫學大學醫學院 副院長
- 中華民國區域醫院協會 監事長
- 高雄市智慧城市推動委員會 委員
- 台灣消化系內視鏡醫學會 常務理事
- 台灣精實醫務管理學會 常務理事
- 社團法人台灣健康產業平衡計分卡管理協會 常務理事
- 國際醫療衛生促進協會 理事
- 高雄市醫師公會 常務監事

### 【經歷】

- 高雄醫學大學醫學系內科教授
- 高雄市立旗津醫院院長
- 高雄醫學大學附設醫院醫務秘書
- 高雄醫學大學附設醫院內視鏡檢查中心主任
- 高雄市健康城市推動中心執行長
- 高雄醫學大學附設醫院遠距照護中心主任
- 幸福港都高雄健康城市促進會理事

	<p><b>Jjiang-Huei Jeng</b>  <b>Dean and Professor, School of Dentistry, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan.</b>  Email: <a href="mailto:jhjeng@kmu.edu.tw">jhjeng@kmu.edu.tw</a></p>
<b>EMPLOYMENT</b>	
1995-	Lecturer, School of Dentistry, National Taiwan University
2004-2021	Professor, School of Dentistry, National Taiwan University
2006-2021	Chair, Department of Endodontics, National Taiwan University Hospital
2021.02-	Professor & Dean, College of Dental Medicine, Kaohsiung Medical University
<b>EDUCATION</b>	
1985	DDS, School of Dentistry, National Taiwan University
1994	Ph.D, Graduate Institute of Clinical Dentistry, National Taiwan University
<b>Others, please specify, for example, AWARDS</b>	
2012	IADR Distinguish Scientist Award (PTT Group)
1993	IADR Hatton Award
2005	Excellent Research Award, Foundation of Toxin Control
2005	Chin-Shin Medical Award, National Taiwan University Medical College
2006	Outstanding Research Award, National Taiwan University Hospital

## 略 歴

氏 名	小山珠美 (こやまたまみ: KOYAMA TAMAMI)
勤務先	1)NPO法人口から食べる幸せを守る会 2)JA 神奈川県厚生連伊勢原協同病院 摂食機能療法室
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学 歴	1978.3 国立病院機構熊本医療センター附属看護学校卒業 (前 国立熊本病院附属看護学校) 1986.3 神奈川県立保健福祉大学実践教育センター 教員養成課程 看護教員コース卒業 (前 神奈川県立看護教育大学校 ) 2005.3 放送大学大学院 文化科学研究科 環境システム科学群卒業 (学術修士)
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社会活動	NPO法人口から食べる幸せを守る会 理事長 (2013. 6～)
資 格	看護師、介護支援専門員、看護学校専任教員、日本摂食嚥下リハビリテーション学会認定士、日本終末期ケア協会終末期ケア専門士
テレビ出演	1)NHKニュースウッチ9 2013年7月 2)NHKゆうどき 2014年12月 3)NHKプロフェッショナル仕事の流儀-食べる喜びを、あきらめない- 第294回 2016年5月16日放送 ほか
執 筆	著 書
2015年～	11) Koyama T, et al: Early commencement of oral intake and physical function are associated with early hospital discharge with oral intake in hospitalized elderly individuals with pneumonia. J Am Geriatr Soc, 63:2183-2185.2015. 12) 小山珠美編集: 口から食べる幸せをサポートするための包括的スキル-KTバランスチャートの活用と支援-, 医学書院, 2015. 13)小山珠美分筆: 泉野浩生編集, 増刊レジデントノート栄養療法がわかる! できる! 「嚥下障害の栄養療法」, p166-174, Vol.17-No17. 羊土社, 2015. 14)Tamami Koyama, MS, RN; Hiroshi Shamoto, PhD, MD; Hideaki Anzai, MD; Yutaka Koganei, SLP; Keisuke Maeda, PhD, MD; and Hidetaka Wakabayashi, PhD, MD, Multidisciplinary Comprehensive Care for Early Recommencement of Oral Intake in Older Adults With Severe Pneumonia. Journal of Gerontological Nursing, Vol. 42. No. 10, p21-29, 2016 15) Maeda K, Shamoto H, Wakabayashi H, Enomoto J, Takeichi M, Koyama T. Reliability and Validity of a Simplified Comprehensive Assessment Tool for Feeding Support: Kuchi - Kara Taberu Index. Journal of the American Geriatrics Society. DOI: 10.1111/jgs.14508. 2016. 16) 若林秀隆編: 高齢者の摂食嚥下サポート, (分筆) 誤嚥性肺炎に対する早期経口摂取, p133-141, 振興医学出版社, 2017. 17)小山珠美: 口から食べる幸せを守る, 主婦の友社, 2017. 18) 小山珠美編集: 口から食べる幸せをサポートするための包括的スキル-KTバランスチャートの活用と支援-第2版, 医学書院, 2017. 19)サルコベニアの摂食嚥下障害 Update, 口から食べるをサポートする包括的アプローチ, p81-86, リハビリテーション栄養, VOL.2NO.1, 医菌薬出版株式会社, 2018. 20)小山珠美・前田圭介著: KTバランスチャートエッセンスノート, 医学書院, 2018. 21)小山珠美: おいしく食べ続けたい-あなたも食事サポーターになって食べたいを支援しよう-, NPO法人口から食べる幸せを守る会, 2019. 22)小山珠美・若林秀隆・前田圭介ほか: 誤嚥性肺炎患者に対するチーム医療による早期経口摂取が在院日数と退院時経口摂取に及ぼす影響, 日本摂食嚥下リハビリテーション学会誌 Vol.24No1, 2020. 23)ナーシング・グラフィカ (地域・在宅看護論_2教科書) 摂食嚥下障害がある人への支援, メディカ出版, 2020.

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| <p>24)小山珠美：直接訓練から美味しく食べる安全に食べるための支援へ、総合リハビリテーション、p163-172、Vol.49No2、医学書院,2021.</p> <p>25)小山珠美：高齢者の食と栄養特集（分筆）,高齢者の口から食べる幸せを守るために、日本老年医学会雑誌、Vol.58No4,2021.</p> <p>26)小山珠美：メディカルノート（分筆：口から食べるための口腔ケア）、月間ケアマネジメント、環境新聞社、2021.</p> <p>27)小山珠美：治療,特集その絶食ちょっと待った！食べるを支えるアプローチ（分筆）,早期経口摂取・K T B C・姿勢調整・食事介助、南山堂、2022.</p> <p>28))小山珠美：jmedmook,あなたも名医！誤嚥性肺炎-治療と予防の新常識(分筆)、誤嚥性肺炎患者の食べる支援,日本医事新報社、2022.</p> <p>29))小山珠美:medicina,qualityindicator の診療への実装（分筆）,食事介助の診療評価指標、Vol.59No11、医学書院,,2022</p> <p>30)治せる・治せない摂食嚥下障害への視点と対応（監修・分筆）,医歯薬出版,2022.</p> |
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姓名	何佩珊		性別	女	
學歷 (擇其重要者填寫)					
學校名稱		學位	起迄年月	科技專長	
高雄醫學大學牙醫學研究所		博士	1997/9-2002/6	公共衛生學 生物統計 流行病學	
經歷 (請按服務時間先後順序填寫與現提計畫有關之經歷)					
服務機構及單位			職稱	起迄年月	
現任：高雄醫學大學口腔衛生學系			教授	2020/8-迄今	
曾任：高雄醫學大學口腔衛生學系			副教授	2009/8- 2020/7	
曾任：高雄醫學大學口腔衛生學系			助理教授	2003/8- 2009/7	
近之五 年內 曾 參 與 計 畫	計畫名稱		計畫內擔任工作	計畫支援機關	起迄年月
	結合USR進行社區牙醫學科實習課程對學生在社區口腔衛生相關學科整合及應用之成效評估		主持人	教育部	2021/08/01~ 2022/07/31
	牙科照護革新：衛生教育使用AI或人性化諮詢對牙周病病人牙菌斑控制與治療之成效		共同主持人	科技部	2020/08/01~ 2021/07/31
	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		共同主持人	科技部	2019/08/01~ 2021/01/31
	108年至109年大專學生菸檳防制服務隊計畫		主持人	衛生福利部國民健康署	2019/08/29~ 2020/02/28
	109-110學年度學童口腔保健計畫		協同主持人	教育部國民及學前教育署	2018/11/13~ 2019/12/31
執行 中 之 計 畫	計畫名稱		申請經費	計畫支援機關	起迄年月
	111年度「山地原住民族地區口腔衛生教育計畫」		2,790,000	衛生福利部	2022/11/15~ 2023/11/14
	發展台灣版的學齡前兒童齲齒風險評估模型		170,000	高雄醫學大學	112.01.01 - 112.12.31
申 請 中 之 計 畫	計畫名稱		申請經費	計畫支援機關	起迄年月
	發展與驗證台灣版應用於社區的學齡前兒童齲齒風險評估模式		6,316,638	科技部	2023/08/01~ 2026/07/31

## 期刊論文

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Jun Kayashita

1988 Graduated from Department of Nutrition, Faculty of Medicine, Tokushima University

1990 Completed master's course at Tokushima University Graduate School of Nutrition

1999 Doctor of Nutrition (Nutrition) from Tokushima University

2005: Associate Professor, Department of Health Science, Faculty of Humanities,  
Prefectural University of Hiroshima

2009: Prefectural University of Hiroshima, Faculty of Humanities, Department of Health  
Sciences, Professor

(Concurrent post) Prefectural University of Hiroshima, Graduate School of Integrated Arts  
and Sciences, Professor

2020 Professor, Health Science Course, Faculty of Regional Development, Hiroshima  
Prefectural University

Academic councilor, councilor, etc.

Japan Society for Nutrition Improvement 2003 - Councilor

Councilor of the Japanese Society of Pathophysiology and Nutrition since 2008

2011-Editorial Committee

Japanese Society of Dysphagia Rehabilitation

2008~ Councilor

Member of the Special Committee on Swallowing Control Diet since 2009

2014- Social Insurance Committee

2015 - Member of the International Committee

2015- Director

From 2018 Chairman of the Swallowing Control Diet Committee

President of the 27th Annual Scientific Meeting of Reiwa 3rd year

Councilor of the Japanese Society for Parenteral and Enteral Nutrition since 2010

2013-2020 Clinical Research Working Committee Member in charge of swallowing

2008 Ministry of Health, Labor and Welfare Food for Special Dietary Uses

Member of the Working Group for the Development of Food Standards for People with  
Difficulty Swallowing

2015 Ministry of Agriculture, Forestry and Fisheries Smile Care Food Selection Working  
Committee Member

2015 Consumer Affairs Agency Chairman of the research project on the revision of the "analysis method for the standards of foods for special dietary uses (foods for people with difficulty swallowing)"

Book (Japanese)

Recipe 125 from the Swallowing Food Pyramid (Ishiyaku Publishing 2007)

250 commercial foods by level according to the swallowing food pyramid (Ishiyaku Publishing 2008)

100 Recipes for People with Difficulties in Chewing and Swallowing from the Dysphagia Food Pyramid (Ishiyaku Publishing 2009)

230 paste/mousse food recipes from the swallowing food pyramid (Ishiyaku Publishing 2013)

Basics of nutrition useful for rehabilitation (Ishiyaku Publishing 2014)

Dysphagia and dysphagia diet (Medica Publishing 2014)

Oral intake approach handbook (Nippon Medical Planning 2015)

Commercial food classification 300 based on the academic classification 2013 (Ishiyaku Publishing 2015)

Convalescent Rehabilitation Ward Dysphagia Diet Recipe Collection 105 (Ishiyaku 2016)

Papar

Prevalence of sarcopenic obesity based on newly proposed diagnostic criteria and functional outcomes in older adults undergoing rehabilitation

Akio Shimizu, Keisuke Maeda, Junko Ueshima, Tatsuro Inoue, Kenta Murotani, Tomohisa Ohno, Akiko Nomoto, Ayano Nagano, Jun Kayashita, Naoharu Mori, Ichiro Fujishima  
Mechanisms of Ageing and Development 111728-111728 2022

Nutritional Management in Adult Patients With Dysphagia: Position Paper From Japanese Working Group on Integrated Nutrition for Dysphagic People

Junko Ueshima, Akio Shimizu, Keisuke Maeda, Chiharu Uno, Yuka Shirai, Mika Sonoi, Keiko Motokawa, Fumie Egashira, Jun Kayashita, Mika Kudo, Akiko Kojo, Ryo Momosaki  
Journal of the American Medical Directors Association 2022

Association between food texture levels consumed and the prevalence of malnutrition and sarcopenia in older patients after stroke

Akio Shimizu, Ichiro Fujishima, Keisuke Maeda, Kenta Murotani, Tomohisa Ohno, Akiko Nomoto, Shinsuke Nagami, Ayano Nagano, Keisuke Sato, Junko Ueshima, Tatsuro Inoue, Midori Shimizu, Yuria Ishida, Jun Kayashita, Masaki Suenaga, Naoharu Mori  
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Hospital Frailty Risk Score predicts adverse events in older patients with vertebral compression fractures: Analysis of data in a nationwide in-patient database in Japan

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Accuracy of the Simplified Nutritional Appetite Questionnaire for Malnutrition and Sarcopenia Screening among Older Patients Requiring Rehabilitation

Akio Shimizu, Ichiro Fujishima, Keisuke Maeda, Kenta Murotani, Tatsuro Inoue, Tomohisa Ohno, Akiko Nomoto, Junko Ueshima, Yuria Ishida, Ayano Nagano, Jun Kayashita, Naoharu Mori  
Nutrients 13(8) 2738-2738 2021

Delayed Dysphagia May Be Sarcopenic Dysphagia in Patients After Stroke

Akio Shimizu, Ichiro Fujishima, Keisuke Maeda, Kenta Murotani, Tomohisa Ohno, Akiko Nomoto, Shinsuke Nagami, Ayano Nagano, Keisuke Sato, Junko Ueshima, Tatsuro Inoue, Midori Shimizu, Yuria Ishida, Jun Kayashita, Masaki Suenaga, Naoharu Mori  
Journal of the American Medical Directors Association 22(12) 2527- 2021

Texture-Modified Diets are Associated with Poor Appetite in Older Adults who are Admitted to a Post-Acute Rehabilitation Hospital

Akio Shimizu, Ichiro Fujishima, Keisuke Maeda, Kenta Murotani, Jun Kayashita, Tomohisa Ohno, Akiko Nomoto, Junko Ueshima, Yuria Ishida, Tatsuro Inoue, Naoharu Mori  
Journal of the American Medical Directors Association 22(9) 1960-1965 2021

Sarcopenic Dysphagia with Low Tongue Pressure Is Associated with Worsening of Swallowing, Nutritional Status, and Activities of Daily Living

A. Shimizu, Keisuke Maeda, H. Wakabayashi, S. Nishioka, T. Ohno, A. Nomoto, J. Kayashita, I. Fujishima  
The journal of nutrition, health & aging 2021

Effect of low tongue pressure on nutritional status and improvement of swallowing function in patients with sarcopenic dysphagia

Akio Shimizu, Ichiro Fujishima, Keisuke Maeda, Hidetaka Wakabayashi, Shinta Nishioka, Tomohisa Ohno, Akiko Nomoto, Takashi Shigematsu, Jun Kayashita  
Nutrition 111295-111295 2021

Predictive validity of the Mini Nutritional Assessment Short - Form for rehabilitation patients: A retrospective analysis of the Japan Rehabilitation Nutrition Database

Shinta Nishioka, Hidetaka Wakabayashi, Jun Kayashita, Yutaka Taketani, Ryo Momosaki  
Journal of Human Nutrition and Dietetics 34(5) 881-889 2021

Low tongue strength is associated with oral and cough-related abnormalities in older inpatients.

Akio Shimizu, Keisuke Maeda, Shinsuke Nagami, Ayano Nagano, Yumi Yamada, Midori Shimizu, Yuria Ishida, Jun Kayashita, Ichiro Fujishima, Naoharu Mori, Kenta Murotani, Masaki Suenaga  
Nutrition (Burbank, Los Angeles County, Calif.) 83 111062-111062 2021

Nutritional Management Enhances the Recovery of Swallowing Ability in Older Patients with Sarcopenic Dysphagia

Akio Shimizu, Ichiro Fujishima, Keisuke Maeda, Hidetaka Wakabayashi, Shinta Nishioka, Tomohisa Ohno, Akiko Nomoto, Jun Kayashita, Naoharu Mori, The Japanese Working Group on Sarcopenic Dysphagia  
Nutrients 13(2) 596-596 2021

Comparison between the Global Leadership Initiative on Malnutrition and the European Society for Clinical Nutrition and Metabolism definitions for the prevalence of malnutrition in geriatric rehabilitation care.

Akio Shimizu, Keisuke Maeda, Toshiki Honda, Yuria Ishida, Junko Ueshima, Shinsuke Nagami, Ayano Nagano, Tatsuro Inoue, Kenta Murotani, Jun Kayashita, Ichiro Fujishima, Naoharu Mori  
Geriatrics & gerontology international 20(12) 1221-1227 2020

Delayed Swallowing Reflex is Overlooked in Swallowing Screening Among Acute Stroke Patients.

Chiho Takeda, Mitsuyoshi Yoshida, Masahiro Nakamori, Naohisa Hosomi, Toshikazu Nagasaki, Mineka Yoshikawa, Jun Kayashita, Shin Masuda, Hirofumi Maruyama, Kazuhiro Tsuga

Journal of stroke and cerebrovascular diseases : the official journal of National Stroke Association 29(12) 105303-105303 2020

Association between stroke lesions and videofluoroscopic findings in acute stroke patients

Masahiro Nakamori, Naohisa Hosomi, Eiji Imamura, Hayato Matsushima, Yuta Maetani, Mitsuyoshi Yoshida, Mineka Yoshikawa, Chiho Takeda, Toshikazu Nagasaki, Shin Masuda, Jun Kayashita, Kazuhiro Tsuga, Keiji Tanimoto, Shinichi Wakabayashi, Hirofumi Maruyama

JOURNAL OF NEUROLOGY 2020

The influence of syringe geometry on the International Dysphagia Diet Standardisation Initiative flow test

Shingo Matsuyama, Makoto Nakauma, Takahiro Funami, Yoshie Yamagata, Jun Kayashita International Journal of Food Science and Technology 55(8) 2962-2969 2020

Impact of Multiple Texture-Modified Diets on Oral Intake and Nutritional Status in Older Patients with Pneumonia: A Retrospective Cohort Study.

Akio Shimizu, Ryo Momosaki, Jun Kayashita, Ichiro Fujishima

Dysphagia 35(4) 574-582 2020

Body mass index and recovery of activities of daily living in older patients with femoral fracture: An analysis of a national inpatient database in Japan

Shinta Nishioka, Hidetaka Wakabayashi, Keisuke Maeda, Hiroshi Shamoto, Yutaka Taketani, Jun Kayashita, Ryo Momosaki

Archives of Gerontology and Geriatrics 87 104009-104009 2020

Concurrent and predictive validity of the Mini Nutritional Assessment Short - Form and the Geriatric Nutritional Risk Index in older stroke rehabilitation patients

Shinta Nishioka, Katsuhisa Omagari, Emi Nishioka, Natsumi Mori, Yutaka Taketani, Jun Kayashita

Journal of Human Nutrition and Dietetics 33(1) 12-22 2020

Release of updated International Dysphagia Diet Standardisation Initiative Framework (IDDSI 2.0)

Julie A.Y. Cichero, Peter T.L. Lam, Jianshe Chen, Roberto O. Dantas, Janice Duivesteyn, Ben Hanson, Jun Kayashita, Mershen Pillay, Luis F. Riquelme, Catriona M. Steele, Jan Vanderwegen

Journal of Texture Studies 51(1) 195-196 2020

Predictive Validity of Body Mass Index Cutoff Values Used in the Global Leadership Initiative on Malnutrition Criteria for Discriminating Severe and Moderate Malnutrition Based on In-Patients With Pneumonia in Asians

Akio Shimizu, Keisuke Maeda, Hidetaka Wakabayashi, Shinta Nishioka, Ayano Nagano, Jun Kayashita, Ichiro Fujishima, Ryo Momosaki

Journal of Parenteral and Enteral Nutrition 2020

Nutritional Status and Feeding Practice among Dysphagic Older Adult Inpatients in Vietnam.

Thao Phuong Tran, Linh Thuy Nguyen, Jun Kayashita, Fumio Shimura, Shigeru Yamamoto

Journal of nutritional science and vitaminology 66(3) 224-228 2020

## 鍾 飲 文

## 一、基本資料：

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## 二、主要學歷

學校名稱	國別	主修學門系所	學位	起訖年月(西元年/月)
高雄醫學院	中華民國	醫學系	醫學士	自 1975/ 09 至 1982/ 06
				自 ____ / ____ 至 ____ / ____

## 三、現職及與專長相關之經歷

服務機構	服務部門／系所	職稱	起訖年月(西元年/月)
現職：高雄醫學大學附設中和紀念醫院	院長室/胸腔內科	院長/主治醫師	自 2020/08/01 至 迄今
高雄醫學大學	醫學研究所/醫學系/呼吸治療學系	教授	自 2007/ 02 至 迄今
國立陽明交通大學	生物科技系暨研究所	合聘教授	自 2014/ 10 至 迄今
財團法人台灣醫療健康產業卓越聯盟基金會		董事	自 2021/ 06 至 迄今
經歷：高雄醫學大學	附設中和紀念醫院	院長	自 2015/ 08 至 2018/ 07
高雄醫學大學	附設中和紀念醫院胸腔內科	主任	自 2013/ 08 至 2015/ 07
高雄醫學大學	教務處	教務長	自 2009/ 08 至 2014/ 07
高雄醫學大學	通識教育中心	主任	自 2007/ 01 至 2009/ 07
高雄醫學大學	呼吸治療學系	主任	自 2005/ 08 至 2009/ 07
高雄市市立小港醫院	院長室	院長	自 2003/ 09 至 2006/ 07
高雄市市立聯合醫院	院長室	院長	自 2003/ 01 至 2003/ 08



高雄市立婦幼醫院	院長室	院長	自 2001/ 09 至 2002/ 12
美國哈佛大學公共衛生學院	Dept. of Environmental Health	訪問科學家 (visiting scientist)	自 1996/ 10 至 1998/ 03
高雄醫學大學	呼吸治療學系/醫學系	副教授	自 2000/ 08 至 2007/ 01
高雄醫學大學	醫學系	講師	自 1990/ 08 至 2000/ 07
高雄醫學大學	附設中和紀念醫院	總住院醫師	自 1987/ 08 至 1988/ 07
高雄醫學大學	附設中和紀念醫院	住院醫師	自 1984/ 08 至 1987/ 07

#### 四、專長

1、胸腔及急重症醫學	2、肺癌	3、氣喘及慢性阻塞性肺疾病	4、肺部感染症
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## Tong-Mei Wang 王東美主任

Associate Professor, School of Dentistry, National Taiwan University

### CV:

June 1995 Doctor of Dental Surgery (DDS),  
National Taiwan University

June 2000 Master of Dental Science (MS),  
National Taiwan University

June 2014 Doctor of Philosophy (PhD),  
Dentistry, National Taiwan University

2008-2009 Visiting professor, Maxillofacial Prosthodontics Residency Program,  
School of Dentistry, University of California, Los Angeles

2008-present Certified prosthodontist, ROC Taiwan (中華民國鑲復補綴牙科專科醫師)

2022-present President, The Academy of Prosthetic Dentistry, ROC Taiwan (中華民國鑲復牙科學會理事長)

2023-present Chair, Division of Prosthodontics, Department of Dentistry, National Taiwan University Hospital (台大醫院牙科部補綴科主任)



Topic: Application of Palatal Prosthesis for Restoring Oral Functions

### Abstract:

The movable parts in the oral cavity including the tongue and the velopharyngeal structure (the soft palate, the pharyngeal walls, and the pharyngeal isthmus) are crucial components of speech production and swallowing. Dysfunction of those structures can be caused by a variety of factors, including cleft palate, craniofacial anomalies, neurological conditions and resection of acquired tumors. The dysfunction, including speech intelligibility, hypernasality, nasal leakage and dysphagia, can have a significant impact on an individual's quality of life, affecting their ability to communicate effectively with others and their social activities.

Palatal prostheses are a type of custom-made dental device that are used for restoring oral functions and improving quality of life in individuals with speech or swallowing dysfunctions. They include speech bulb, palatal augmentation prosthesis, and palatal lift prosthesis. The efficacy of palatal prostheses depends on the number of remaining teeth and the mobility of surrounding soft tissue. Dental implants may be necessary in the application. The considerations in design and fabrication procedure of palatal

prostheses will be addressed in this presentation.

# 個人資料表

## 一、基本資料：

中文姓名	陳信銘	英文姓名	Hsin Ming Chen	
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## 二、主要學歷 由最高學歷依次填寫，若仍在學者，請在學位欄填「肄業」。

學校名稱	國別	主修學門系所	學位	起訖年月(西元年/月)
國立台灣大學	台灣	臨床牙醫學研究所	博士	自 1997.9 至 2003.6
國立台灣大學	台灣	臨床牙醫學研究所	碩士	自 1989.9 至 1992.6
中山醫學院	台灣	牙醫系	學士	自 1981.9 至 1987.6

## 三、現職及與專長相關之經歷 指與研究相關之專任職務，請依任職之時間先後順序由最近者往前追溯。

服務機構	服務部門／系所	職稱	起訖年月(西元年/月)
現職：	國立台灣大學牙醫專業學院	副教授	自 2019.08~迄今
	台大醫院牙科部	主治醫師	自 1996.08~迄今
	特殊需求者口腔醫學會	理事長	自 2020.08~迄今
經歷：	國立台灣大學牙醫專業學院	助理教授	自 2004.02~2019.07
	台大醫院牙科部	住院醫師	自 1992.07~1996.06

## 四、專長 請填寫與研究方向有關之學術專長名稱。

光動力治療	口腔癌	口腔植體學	特殊需求者牙科醫療研究
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## 杜哲光



學 歷 (擇其重要者填寫)				
學 校 名 稱		學 位	起 迄 年 月	專 長
高雄醫學大學		博士	2008/09~2017/01	Dental Materials
高雄醫學大學		碩士	2001/09~2004/07	Biomechanics
高雄醫學大學		學士	1990/09~1996/06	Dentistry
經 歷 (請按服務時間先後順序填寫與現提計畫有關之經歷)				
服 務 機 構 及 單 位			職 稱	起 迄 年 月
現任：高雄醫學大學 牙醫學系			教授	110/02-迄今
現任：高雄醫學大學附設中和紀念醫院牙科部			主治醫師兼部主任	106/08-迄今
現任：台灣牙周補綴醫學會			理事長	110/07-112/06
曾任：高雄醫學大學附設中和紀念醫院牙科部補綴科			主治醫師兼科主任	105/08-106/07 107/08-108/07
近三年內曾參與之研究計畫				
類別	計 畫 名 稱	計 畫 內 擔 任 工 作	計 畫 補 助 機 關	起 迄 年 月
近 三 年 內 曾 參 與 之 相 關 計 畫	實證口腔照護模式對高齡醫學整合門診之口腔衰弱前期患者口腔機能之成效(110-2314-B-037-18-)	共同 主持人	科技部	110/03/01~ 111/02/28
	牙科照護革新: 衛生教育使用 AI 或人性化諮詢對牙周病病人牙菌斑控制與治療之成效 (109-2314-B-037-074-)	共同 主持人	科技部	109/08/01~ 111/01/31
	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	共同 主持人	科技部	108/08/01~ 110/01/31

	(108-2314-B-037 -061 -)			
	AI 輔助之齲齒與牙周病變之疾病分期(NCTUKMU108)	主持人	高醫交大	108/08/01~ 110/07/31
	新開發可降解鎂合金網應用於齒槽骨重建手術之研究(107-2314-B-037-046-)	主持人	科技部	107/08/01~ 108/07/31
	水溫對聚甲基丙烯酸甲酯補綴物殘留單體所產生的細胞毒性之影響(KMUH108-8M62)	主持人	高醫附院	109/01/01~ 109/12/31
	透過可控制降解之鎂合金應用於牙科臨時用植體之研究(KMUH109-9M64)	主持人	高醫附院	110/01/01~ 110/12/31
執行中之研究計畫	教育部建置區域產業人才及技術培育基地計畫-大南方咀嚼吞嚥健康產業人才培育基地計畫-	子計畫主持人	教育部	111 /11 /01~ 114/ 12 /31
	活躍老化，推動長照 2.0 之咀嚼吞嚥重建團隊照護模式	子計畫主持人	國衛院	112 /02 /01~ 114/ 12 /31
	口腔衛生教育數位轉型試辦計畫	主持人	衛福部	111 /11 /01~ 112/ 12 /31
	具空間維持功能之膠原蛋白/陶瓷複合再生膜於誘導骨再生之研究(111-2314-B-037-044-MY2)	主持人	國科會	111/08/01~ 113/07/31
	利用牙科 X 光開發人工智能模型識別人牙根植體系統(SI11106)	主持人	高雄醫學大學 附設中和紀念 醫院	111/08/01~ 112/07/31
	年長者缺牙狀況及咬合力與腦神經心理學之關聯性(111-2314-B-037-043-MY3)	共同 主持人	國科會	111/08/01~ 114/07/31
	牙科照護革新:衛生教育使用 AI 或人性化諮詢對牙周病病人牙菌斑控制與治療之成效(2)(110-2314-B-037-037-MY2)	共同 主持人	國科會	110/08/01~ 112/07/31

(A) 期刊論文 (五年內) 2018-2022

【SCI/SSCI 期刊論文】 \*Corresponding author

1. Chen IH, Lin CH, Liao YS, Yang PW, Jao YT, Chen TE, **Du JK\***. Assessment of dental personal protective equipment (PPE) and the relationship between manual dexterity and dissemination of aerosol and splatter during the COVID-19 pandemic. J Dent Sci. 2022 Available online 8 May 2022 In Press, <https://doi.org/10.1016/j.jds.2022.04.021>. SCIE 類別: Dentistry, Oral Surgery & Medicine IF=3.719; SCIE-2021, R/C=23/92 (25.00%) (KMUH-08).
2. Shen KL, Huang CL, Lin YC, **Du JK**, Chen FL, Kabasawa Y, Chen CC, Huang HL. Effects of artificial intelligence-assisted dental monitoring intervention in patients with periodontitis: A randomized controlled trial. J Clin Perio. 2022;17:online. SCIE 類別: Dentistry, Oral Surgery & Medicine IF=7.478; SCIE-2021, R/C=4/92 (4.35%)
3. Huang CL, Yeh IJ, Lin YC, Chiu CF, **Du JK\***. Analysis of adult dental emergencies at a medical center in southern Taiwan. J Dent Sci. 2022;17:1314-1320. SCIE 類別: Dentistry, Oral Surgery & Medicine IF=3.719; SCIE-2021, R/C=23/92 (25.00%)
4. Wang CC, Fu PS, Wang JC, Lan TH, Lai PL, **Du JK**, Chen WC, Hung CC. Comparison of optical and crystal properties of three translucent yttria-stabilized tetragonal zirconia polycrystals with those of lithium disilicate glass-ceramic material. J Dent Sci. 2021;16: 1247-1254. SCIE 類別: Dentistry, Oral Surgery & Medicine IF=2.08; SCIE-2020, R/C=59/91 (64.84%)
5. Hung AC, Wang YY, Lee KT, Chiang HH, Chen YK, **Du JK**, Chen CM, Chen MY, Chen WJ, Hu CS, Yuan SS. Reduced tissue and serum resistin expression as a clinical marker for esophageal squamous cell carcinoma. Onco Let. 2021;22:774-781. SCIE 類別: Oncology IF=2.967; SCIE-2020, R/C=184/242 (76.03%)
6. Chen KK, Chen JH, Wu JH, **Du JK\***. Influence of commercial adhesive with/without silane on the bond strength of resin-based composite repaired within twenty-four hours. J Dent Sci. 2021 Jul;16(3):877-884. SCIE 類別: Dentistry, Oral Surgery & Medicine IF=2.08; SCIE-2020, R/C=59/91 (64.84%) (MOST106-2314-B-037-013-, MOST107-2314-B-037-46- )
7. Lin YC, **Du JK**, Lin PC, Kabasawa Y, Lin PL, Hsiao SY, Huang HL. Association between the dental occlusion and perceived ability to eat foods of Taiwanese older adults. J Oral Rehabil. 2021 Jul;48(7):817-826. SCIE 類別: Dentistry, Oral Surgery & Medicine IF=2.08; SCIE-2020, R/C=59/91 (64.84%)
8. Chen YF, Pan CY, Chen YC, **Du JK**, Lan TH. Accuracy and wear evaluation of the customized zirconia guided sleeves. Appl. Sci. 2021;11:9035-9043. SCIE 類別: Engineering, Multidisciplinary IF=2.679; SCIE-2020, R/C=38/91 (41.76%)
9. Wu JH, Lee MK, Lee CY, Chen NH, Lin YC, Chen KK, Lee KT, **Du JK\***. The impact of the COVID-19 epidemic on the utilization of dental services and attitudes of dental residents at the emergency department of a medical center in Taiwan. J Dent Sci. 2021 Jul;16(3):868-876. SCIE 類別: Dentistry, Oral Surgery & Medicine IF=2.08; SCIE-2020, R/C=59/91 (64.84%)
10. Wu JH, **Du JK**, Lee CY. Development and questionnaire-based evaluation of virtual dental clinic: a serious game for training dental students. Med. Edu. ONLINE. 2021;26(1):1983927-1983938. SCIE 類別: Education & Education research IF=6; SCIE-2020, R/C=14/267 (5.24%)
11. Chang YH, Lee CY, Hsu MS, **Du JK**, Chen KK, Wu JH. Effect of toothbrush/dentifrice abrasion on weight variation, surface roughness, surface morphology and hardness of conventional and CAD/CAM denture base materials. Dent Mater J. 2021 Jan 31;40(1):220-227. SCIE 類別: Dentistry, Oral Surgery & Medicine IF=2.102; SCIE-2020, R/C=58/91 (63.74%)
12. Chen KK, Chao CY, Chen JH, Wu JH, Chang YH, **Du JK\***. Effect of low copper addition to as-forged 304 stainless steel for dental applications. Metals 2021;11(1):43-50. SCIE 類別: Metallurgy & Metallurgical Engineering IF=2.695; SCIE-2020, R/C=24/80(30%) (MOST 106-2314-B-037-013 and MOST 107-2314-B-037-46)

13. **Du JK**, Chao CY, Wei LL, Wang CH, Chen JH, Chen KK, Huang RB. Effects of Ag-rich nano-precipitates on antibacterial properties of 2205 Duplex Stainless Steel. *Metals* 2021;11(1):23-36. SCIE 類別: Metallurgy & Metallurgical Engineering IF=2.695; SCIE-2020, R/C=24/80(30%) (MOST 106-2314-B-037-013 and MOST 107-2314-B-037-46)
14. Lee HE, Wu JH, Chao CY, Chang YH, **Du JK\***, Chen KK, Chen HM. A Study of Low Young's Modulus Ti-15Ta-15Nb Alloy Using TEM Analysis. *Materials (Basel)*. 2020 Dec 14;13(24):5694. SCIE 類別: Materials science, Multidisciplinary IF=3.057; SCIE-2019, R/C=132/314(42.04%) (MOST106-2314-B-037-013-)
15. 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. SCIE 類別: Gerodontology IF=3.921; SCIE-2019, R/C=6/36 (16.67%)
16. Jhong YT, Chao CY, Hung WC, **Du JK.\*** Effects of various polishing techniques on the surface characteristics of the Ti-6Al-4V alloy and on bacterial adhesion. *Coatings* 2020;10(11):1057-79. SCIE 類別: Materials science, Coatings & Films IF=2.436 ; SCIE-2019, R/C=10/21(47.62%) (MOST 106-2314-B-037-013- and 104-2314-B-037-057-MY2).
17. Chang YH, Tseng CC, Chao CY, Chen CH, Lin SY, **Du JK\***. Mg-Zn-Ca Alloys for Hemostasis clips for vessel ligation: in vitro and in vivo studies of their degradation and response. *Materials (Basel)*. 2020 Jul 7;13(13):3039. SCIE 類別: Materials science, Multidisciplinary IF=3.057 ; SCIE-2019, R/C=132/314 (42.04%) (MOST107-2314-B-037-046-;MOST106-2314-B-037-013-; EX-03-04-07-109)
18. Wu JH, **Du JK**, Lee CY, Lee HE, Tsai TC. Effects of anxiety on dental students' noncognitive performance in their first objective structured clinical examination. *Kaohsiung J Med Sci*. 2020 Oct;36(10):850-856. SCIE 類別: Medicine, Research & Experimental IF=1.737 ; SCIE-2019, R/C=107/138(77.54%)
19. **Du JK**, Wu JH, Chen PH, Ho PS, Chen KK. Influence of cavity depth and restoration of non-carious cervical root lesions on strain distribution from various loading sites. *BMC Oral Health*. 2020 Apr 7;20(1):98. SCIE 類別: Dentistry, Oral Surgery & Medicine IF=1.911; SCIE-2019, R/C=38/91(41.76%) (MOST106-2314-B-037-013-; KMHU105-5R62)
20. Wu JH, Chen KK, Chao CY, Chang YH, **Du JK\***. Effect of Ti<sub>2</sub>Cu precipitation on antibacterial property of Ti-5Cu alloy. *Mater Sci Eng C Mater Biol Appl*. 2020 Mar;108:110433. SCIE 類別: Materials science, Biomaterials IF=5.88; SCIE-2019, R/C=8/38 (21.05%) (MOST104-2314-B-037-057-MY2; MOST106-2314-B-037-013)
21. Chang YH, Chao CY, Chang YT, **Du JK.\*** Effect of phase distribution on the antibacterial property and cytotoxicity of Ti-5Al-2.5Cu alloy after heat treatment at various temperatures. *Metals* 2020;10(7):858-870. (MOST106-2314-B-037-013-; MOST107-2314-B-037-46-; KMHU107-7R76; KMHU108-8M62) SCIE 類別: Metallurgy & Metallurgical Engineering IF=2.117; SCIE-2019, R/C=18/79(22.78%)
22. Chang HP, Chen YF, **Du JK**. Obstructive sleep apnea treatment in adults. *Kaohsiung J Med Sci*. 2020 Jan;36(1):7-12. SCIE 類別: Medicine, Research & Experimental IF=1.737 ; SCIE-2019, R/C=107/138 (77.54%)
23. Chen KK, Wu JH, Wei SI, **Du JK\***. Influence of the acidity of electrolyzed water on the microhardness of inner layer dentin. *J Dent Sci*. 2019 Dec;14(4):419-425.(MOST106-2314-B-037-013-; KMHU104-4M47) SCIE 類別: Dentistry , Oral Surgery & Medicine IF=0.798; SCIE-2018, R/C=83/91 (91.21%)
24. Lee CY, Wu JH, **Du JK\***. Work stress and occupational burnout among dental staff in a medical center. *J Dent Sci*. 2019 Sep;14(3):295-301. SCIE 類別: Dentistry , Oral Surgery & Medicine IF=0.798; SCIE-2018, R/C=83/91 (91.21%)



## Bin-Fang Tsai



### [現職]

Visiting Doctor in the Department of Prosthodontics and General Dentistry in Cathay General Hospital, Taipei, Taiwan

Visiting Doctor in the Department of Dentistry in National Taiwan University Hospital, Taipei, Taiwan

Specialist of Prosthetic Dentistry in The Academy of Prosthetic Dentistry, Taiwan

Specialist of The Association of Family Dentistry, Taiwan

Member of Taiwan Association of Dysphagia

### [Education]

1999-2005 DDS, Kaohsiung Medical University, Kaohsiung, Taiwan

### [Working Experience]

2005-2009 Resident in the Department of Dentistry in Cathay General Hospital, Taipei, Taiwan

2009-2012 Advanced Prosthodontics Resident Program in the Department of Prosthodontics Dentistry in National Taiwan University Hospital, Taipei, Taiwan

2012-Now Visiting Doctor in the Department of Dentistry in National Taiwan University Hospital, Taipei, Taiwan

2012-Now Visiting Doctor in the Department of Prosthodontics and General Dentistry in Cathay General Hospital, Taipei, Taiwan

2012-Now Visiting Doctor in the Department of Prosthodontics and General Dentistry in Cathay General Hospital, Taipei, Taiwan

2014-Now Specialist of Prosthetic Dentistry in The Academy of Prosthetic Dentistry, Taiwan

2014-Now Specialist of Prosthetic Dentistry in The Academy of Prosthetic Dentistry, Taiwan

2019-2020 Visiting Scholar in the Department of Gerodontology and Oral Rehabilitation, Tokyo Medical and Dental University, Tokyo, Japan

2021-Now Specialist of The Association of Family Dentistry, Taiwan

2021-Now Specialist of The Association of Family Dentistry, Taiwan

## Interdisciplinary treatment of dysphagia management with palatal prosthesis

[Abstract]

In the current super-aging society, the issue of dysphagia and how to achieve oral food intake safely are the difficult tasks that we have been confronting.

PAP (Palatal Augmentation Prosthesis) is a non-invasive oral appliance unique to dentistry. It has instant efficacy but minimal side effects. During the process of mastication and swallowing, it can reduce intraoral food transportation time and decrease food residues. PAPs are mainly used for the treatment of head and neck cancer patients, but recently it has also been utilized for the treatment of declining tongue motor ability caused by aging, sarcopenia, or other systemic diseases, especially cerebrovascular diseases, and neurologic disorders.

The case presented today is a patient with Parkinson's disease, who was well-maintained in the Neurology department. He was followed up regularly in our geriatric dental clinic. The dysphagia was treated with an interdisciplinary therapeutic approach, with consultation with the department of rehabilitation, the fabrication of a PAP appliance by the dentist, and participation in the speech therapist's training program. The aim was to improve the patient's quality of life, to achieve predictable results from rehab training, and to reduce the caregivers' stress and burden.

Although PAP could improve the problem of dysphagia, the issue of dysphagia in fact comprises multiple fields of professions. To achieve satisfactory therapeutic results, the collaboration of a multi-specialties team is indispensable.

## CURRICULUM VITAE 簡歷



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**Date of Birth :** 1960 年 12 月 03 日 ; 民國 49 年 12 月 03 日  
**Place of Birth :** New Taipei City, Taiwan 新北市(淡水區) 台灣

### EDUCATION 學歷

1980 - 1986 DDS. School of Dentistry, Kaohsiung Medical University, Taiwan  
高雄醫學大學 牙醫學士  
1988 - 1993 MD. Medical College, National Cheng Kung University, Taiwan  
國立成功大學 醫學士  
2003 - 2012 PhD, Institute of Biomedical Engineering, National Cheng Kung University  
國立成功大學生物醫學工程研究所 工程博士

### LICENSE 證照及專科

1986	National Dental Board of Taiwan	牙醫師證書
1993	National Medical Board of Taiwan	醫師證書
1998	Board of Surgery of Taiwan	外科專科醫師
1999	Board of Plastic Surgery of Taiwan	整形外科專科醫師
2000	Board of Surgery of the Hand Taiwan	手外科專科醫師
2002	Board of Emergency Medicine of Taiwan	急診醫學專科醫師
2009	Board of Hyperbaric Oxygen and Undersea ROC	高壓氧專科醫師

### PROFESSIONAL AND ACADEMIC EXPERIENCE 經歷

1993 - 1999 Resident, Department of Surgery  
National Cheng Kung University Hospital 成大醫院 住院醫師

- 1999 - 2001 Attending Doctor, Department of Surgery & Emergency Medicine  
National Cheng Kung University Hospital 成大醫院 主治醫師
- 2001 - 2008 Attending Doctor, Section of Plastic Surgery  
Chia-Yi Christian Hospital 嘉義基督教醫院 整形外科 主治醫師
- 2002 - 2003 Consultant, Shu-Zen College Medicine and Management  
樹人醫護管理專科學校 校務顧問
- 2003 - 2005 Research Scholar, Pediatric Surgery Research Center,  
Stanford University Medical Center, USA 美國史丹福大學 研究學者
- 2008 - 2019 Attending Staff, Section of Plastic Surgery, Chi-Mei Medical Center  
奇美醫學中心 整形外科 主治醫師
- 2012 - 2019 Chief, Hyperbaric Oxygen Therapy Center  
奇美醫學中心 高壓氧科 主任
- 2012 - 2014 Assitant Professor 嘉南科技大學 粧品系助理教授
- 2012 - 2017 助理字第 035467 號
- 2014 - 2022 樹人醫護管理專科學校 董事
- 2014 - 2017 Assitant Professor 南台科技大學 電機系 生醫電子中心 助理教授
- 2017 - 2019 Associated Professor 南台科技大學 電機系 生醫電子中心 副教授
- 2017 - 2021 副字第 144597 號
- 2017/9 - 11 & 2019/8-2020/1 北京大學口腔醫(學)院 訪問學者
- 2020 - 2021 樹人醫護管理專科學校 視光科 副教授
- 2021 - 2022 樹人醫護管理專科學校 美容保健科 教授 教字第 145948 號
- 2022 - now 樹人醫護管理專科學校 物理治療科 教授 兼創新育成中心主任

## **MEMBERSHIP 學會會員**

### **Member of Taiwan Society of Aesthetic Plastic Surgery**

台灣美容外科醫學會 醫師會員

### **Member of Chinese Society of Cosmetic Surgery and Anti-aging Medicine**

中華民國美容醫學醫學會 醫師會員

### **Member of Taiwan Academy of Facial Plastic and Reconstructive Surgery**

台灣顏面整形重建醫學會 醫師會員

### **Member of Taiwan Academy of Implant Dentistry**

台灣牙醫植體醫學會 醫師會員

### **Member of Taiwan Academy of Oral and Maxillo-Facial Radiology**

中華民國口腔顎顏面放射醫學會 醫師會員

個人資料

姓名：莊淑芬

單位：成功大學牙醫系暨口腔醫  
研究所

職稱：教授

電話：0932008392  
06-2353535#2977

住址：台南市北區勝利路 138 號

學歷(學校名稱、主修系科、學位、起迄年月)

學校名稱	主修系科	學位	起迄年月
國立成功大學	生物醫學工程學系	博士	2002.9-2007.7
台北醫學大學	牙醫學系	學士	1984.9-1990.6

經歷(服務機構、部門、職稱、起迄年月)

服務機構	部門	職稱	起迄年月
中華民國牙體復形 學會		理事長	2019-迄今
國立成功大學	牙科暨口腔醫學所	教授	2012.8-迄今
國立成功大學	牙醫系暨口腔醫學研 究所	系主任暨所長	2019.8-2022.7
國立成功大學	口腔醫學科暨研究所	所長	2014.2-2017.7
國立成功大學	牙科暨口腔醫學所	副教授	2007.8-2012.7
國立成功大學	牙科暨口腔醫學所	助理教授	2005.8-2007.7
美國密西根大學	牙醫學系	訪問助理教授	2003.7-2004.6
國立成功大學	牙科暨口腔醫學所	臨床助理教授	2001.8-2005.7
成大醫院	口腔醫學部	部主任	2014.8-2020.7
成大醫院	口腔醫學部	牙體復形科主任	2005.8-迄今
成大醫院	牙醫部	主治醫師	1995.8-迄今

Curriculum Vitae:  
**Yoko Sato, RDH, MSc**

Senior Instructor, Miyagi Advanced Dental  
Hygienist College

1-5-1 Kokubuncho, Aoba-ku

Sendai, Miyagi 980-0803 JAPAN

Phone: +81-22-222-5079 Fax: +81-22-222-5013

E-mail: [yoko@miyashi.or.jp](mailto:yoko@miyashi.or.jp)



Education

Miyagi Dental Hygienist College, Diploma in Dental Hygiene 1983

Certificate in training courses dental hygiene education

Japanese Society for Dental Hygienist's Education 2001 - present

Tohoku University Graduate School of Dentistry (Masters Program) 2007

Employment

(a) past

Sato Dental Clinic Dental Hygienist 1983-1989

Miyagi, Japan

Abe Dental Clinic Dental Hygienist 1989-1991

Kurikoma Town Office Home healthcare dental hygienist 1992-1994

Miyagi, Japan

Tagajo City Office Home healthcare dental hygienist 1996-1998

Miyagi, Japan

Tagajo City Office Dental Hygienist 1999-2001

(b) present

Miyagi Advanced Dental Hygienist College Instructor 2001-2002

Miyagi Advanced Dental Hygienist College Senior Instructor 2003 - present

Curriculum coordinator

Academic Interests

- program and course development for diploma dental hygiene
- curriculum and instructional design for dental hygiene education
- lectures in dysphagia rehabilitation
- certified nursing care manager
- program and course development for continuing dental hygiene education

Membership in professional/ scientific associations

Miyagi Dental Hygienists' Association, Japan Dental Hygienists' Association  
Japan Society for Dental Hygiene, Japan Association for Dental Education  
Japanese Society of Dysphagia Rehabilitation

Major Publications

Shimono M, Sato Y, Saito A, Hosaka M, Cathcart G. Dental Hygiene Process of Care.  
Ishiyaku Publishers Inc., Tokyo, 2007.

Sato Y, Saito A. Dental Hygiene Process of Care Practice guide. Ishiyaku Publishers  
Inc., Tokyo, 2015

Sato Y et al. Dysphagia rehabilitation For Dental hygienist 2<sup>nd</sup> Edition. Ishiyaku  
Publishers Inc., Tokyo, 2020

## Dental Hygiene Education of Dysphagia Management

Miyagi Advanced Dental Hygienist College  
Senior Instructor, Yoko Sato, RDH, MSc

Naturally, the act of "eating" begins in the oral cavity. Dental hygienists are often involved in dysphagia management. The perspective used is one based on oral care for preventing infections, such as aspiration pneumonia.

In 2001, Miyagi Advanced Dental Hygienist College became the first in Japan to offer a three-year dental hygiene education. For more than 20 years, as one of the pillars of the curriculum, we have been educating dental hygienists who are capable of providing care relating to eating and swallowing with an emphasis on professional oral care. The course is taught by instructors who are highly specialized and involved in dysphagia management in a variety of settings. The content is not limited to the oral cavity, but also includes an approach to all aspects of eating and swallowing functions.

In addition, the students continue their practical training at a long-term care facility for the elderly with the goal of being able to provide professional oral care and guidance, including rehabilitation, to residents of the facility who have eating and swallowing disorders.

This presentation focuses on the results obtained through collaboration with other professionals in our interdisciplinary approach to student oral intervention during their facility training. I hope that this will provide an opportunity to think about the practical aspects of dysphagia management by dental hygienists.

### Education

Miyagi Dental Hygienist College, Diploma in Dental Hygiene 1983  
Tohoku University Graduate School of Dentistry (Masters Program) 2007

### Membership in professional/ scientific associations

Japan Society for Dental Hygiene, Japan Association for Dental Education(Councilor)  
Japanese Society of Dysphagia Rehabilitation(Councilor)

### Major Publications

- Shimono M, Sato Y, Saito A, Hosaka M, Cathcart G. Dental Hygiene Process of Care. Ishiyaku Publishers Inc., Tokyo, 2007.
- Sato Y, Saito A. Dental Hygiene Process of Care Practice guide. Ishiyaku Publishers Inc., Tokyo, 2015
- Sato Y et al. Dysphagia rehabilitation For Dental hygienist 2<sup>nd</sup> Edition. Ishiyaku Publishers Inc., Tokyo, 2020



<p>姓名：吳淑芳</p>	
<p>現職： 國立臺北護理健康大學護理學院特聘教授兼校長</p>	
<p>學歷： 澳洲昆士蘭科技大學護理研究所護理博士 國立陽明大學臨床護理研究所碩士 台北醫學院護理系學士</p>	
<p>研究專長： 精準醫療及照護、慢性病預防和管理、創新衛教(自我效能、自我管理)、老人護理與長照課程訓練、成人護理、護理研究法、量表發展、護理與諮商跨領域、護理行政與管理。</p>	
<p>經歷：</p> <ul style="list-style-type: none"> <li>● 國立臺北護理健康大學副校長</li> <li>● 國立臺北護理健康大學大健康產業創新研究中心主任</li> <li>● 國立臺北護理健康大學高齡健康照護系主任</li> <li>● 國立臺北護理健康大學研發處研發長</li> <li>● 台北護理健康大學學務處生活輔導組組長</li> <li>● 臺北市護理師護士公會理事</li> <li>● 中華民國兒童及老人照護協會理事</li> <li>● 中華民國專科護理師學會會員暨秘書長</li> <li>● 科技部計畫審查委員</li> <li>● 臺北市立聯合醫院兼聘研究人員</li> <li>● 考選部國家考試命題委員</li> <li>● 糖尿病藥事照護暨健康管理試辦計畫諮詢專家</li> <li>● 護理雜誌、護理研究雜誌(JNR)、泛文化護理雜誌(JTN)、護理管理雜...等(SSCI)審稿委員</li> <li>● 國立臺北護理健康大學彈性薪資研究優秀教師</li> <li>● 科技部補助大專校院獎勵特殊優秀人才</li> <li>● 中山醫院急診室護理長</li> <li>● 馬偕醫院新生兒病房及加護病房護理師</li> <li>● 國立陽明交通大學第一屆傑出校友</li> <li>● 美國史丹佛大學 2020 &amp; 2021 全球前 2%頂尖科學家 (STANFORD UNIVERSITY NAMES WORLD'S TOP 2% SCIENTISTS, 2020 &amp; 2021)</li> <li>● 美國護理科學院院士 Fellows - American Academy of Nursing; FAAN</li> </ul>	

- 2019 年度全國聯合護理師護士公會十大護理專業貢獻獎
- 行政院衛生署頒發從事護理工作滿 35 年
- 澳洲昆士蘭科技大學健康學院頒發傑出優等博士論文獎
- 獲國際護理博士教育聯合組織會員暨學生代表優良服務獎

吳淑芳教授擁有澳大利亞昆士蘭科技大學護理博士學位，現為特聘教授，曾任北護大副校長、研發長、高齡健康照護系主任、大健康產業創新研究中心主任等，擔任校內學術及行政主管職務逾 10 年，行政歷練完整。並於 2019 年榮獲全國十大護理專業貢獻獎、2020 年獲頒美國護理學院院士(FAAN)；2021 年及 2022 年獲頒全球前 2% 頂尖科學家 (STANFORD UNIVERSITY NAMES WORLD' S TOP 2% SCIENTISTS, 2020/2021) ，專業發展受到國內與國際組織肯定。

在教育領域服務方面，擔任行政職務期間積極為校爭取多項政府競爭型計畫案並妥善運用資源，包括：教育部發展典範科技大學計畫、技職再造計畫、校務發展特色躍升計畫、優化技職校院實作環境計畫等，透過額外補助之挹注經費改建專業教室與提升本校師生教研品質；此外，也致力於推動技職教育專業化發展，創新建置學校新單位（如：育成中心、大健康產業創新研究中心），致力創新及建設性特質，全力為北護大服務，帶領學校持續培育更多優質國家社會專業人才。

#### 1. 擔任副校長期間：

- (1) 負責三學院及 12 系所學術發展及教學品質。
- (2) 繼續執行校級和國家級計畫之申請與執行，主責推動衛服部 “長照 2.0 政策” 之長照人才培育，計畫總執行，帶領全國共計 40 所大學(42 系所)共同推動長照相關科系，共同研發進階式長照四大課程模組(照顧服務模組、照顧管理模組、居服督導模組、經營管理模組)，完成台灣各大學院校共同推動長照核心模組課程之統一及完成畢業生職業資格認定，並往下紮根輔導 22 所成立照護服務科高中。
- (3) 整合研究、訓練、諮詢三大功能，執行計畫案，包括教育部典範大學計畫五年共計新臺幣(下同)1.25 億；特色躍升計畫五年共 1.1 億；長照計畫五年計 1,500 萬；大學社會責任計畫三年計 1,550 萬；優化技專院校實作環境計畫三年共 3500 萬，總計獲補助約 3 億多經費。

2. 擔任研發長五年期間，2013 年申請獲得補助教育部典範大學計畫，首度成立本校及全台灣第一所健康照護類育成中心及健康照護產學營運中心。
3. 籌備成立北護大高齡健康照護系並擔任系主任，從零開始建置系課程地圖，完成 131 學分和超過 60 門課教學計畫，至今滿招且為全國高齡照護領域第一志願，成功培養台灣國內高齡健康照護優秀實務人才。
4. 擔任主任建置北護大亦為台灣第一個「大健康產業創新研究中心」(Research Center for Healthcare Industry Innovation)，聚焦於精準照護研究並促進產官學界合作。
5. 致力推動國際交流及學生國際移動力，促進護理國際化。升級國際教育組為教育中心，提升學生國際移動力，佈局全球教育市場，積極招收境外生，人數破歷年來紀錄，於 105-106 於印尼日惹成立台印健康照護教育中心，至今推動全國健康照護伙伴學校及健康產業交流。APEC 團代表於 2015 年至 2017 年連三年選擇本校參訪，使北護大為最具護理特色的大學。
6. 獲全球 2% 科學家殊榮：2021 年及 2022 年獲頒全球前 2% 頂尖科學家，已發表與健康促進、疾病管理、及糖尿病預防等計 100 餘篇台灣及國際文獻；為國人健康相關培訓專業人員、提供諮詢及服務，改善個案總數超過 2,000 多人次；發展中文化之研究量表，已授權提供給 20 國，免費授權提供超過 200 多名研究者或研究生使用。過去十年獲得國科會 780 萬餘元補助及 500 萬元產學合作。
7. 在護理專業團體服務方面，擔任護理師護士公會理事，協助護理相關學會庶務，倡議建言及服務三萬個會員。擔任專科護理師學會秘書長期間，協助建立 APN 國家考試制度；擔任台灣護理學會護理專業類國內及國際期刊審查或國家計畫審查；擔任考選部護理師國家執照及護理大專入學考試命題委員等專業服務工作。
8. 2019 年由國家衛生研究院邀請擔任「護理人力十年白皮書」副召集人，編寫「台灣長照護理人力」提供衛服部十年政策參酌，發揮國家護理政策推動影響力。在全球高齡化趨勢下，擔任長照聯盟副召集人推動全國長照人才培育不遺餘力，故在 2019 全國護理師護士公會全國大會，獲得年度十大護理專業貢獻獎，由蔡英文總統親自頒獎。

綜上，吳淑芳校長致力引領北護大，持續為社會培育專業人才。

# CURRICULUM VITAE

## President Shu-Fang Vivienne Wu

### Education


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Queensland University of Technology  
School of Nursing, Brisbane,  
Australia  
PhD

### Specialties

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Precision health care  
Self-efficacy theory/self-management  
theory  
Chronic disease prevention and  
management  
Elderly and long term care



**Brief Introduction**

President Shu-Fang Vivienne Wu received her doctorate degree in Nursing from Queensland University of Technology, Australia. Her previous positions include Vice President, Director of Research and Development Office, Director of Research Center for Healthcare Industry Innovation, Chair of department of Gerontological health care , and other academic/administrative directors in NTUNHS accumulating for more than 10 years, which demonstrate solid experiences in administration. Also, President Wu received 2019 Ten Outstanding Nursing Contribution Award, FAAN in 2020, and Stanford University Names World's Top 2% Scientists, 2020 & 2021. Her professionals has been recognized by national and international institutions.

In the educational services field, President Wu strived for many governmental competing plans for the university development and utilized resources properly. Those plans which promoted by Ministry of Education includes Exemplary University of Science and Technology Development Plan, Reshaping Technological-Vocational Education Plan, Higher Education Sprout Project, Advancing Practice Environment for Technological-Vocational Education Plan, and so on. By doing so, the University was able to utilize those additional funding to renovate classrooms and boost teaching and research qualities.

## **1. During her tenure as Vice President:**

- (1) Responsible for the academic development and teaching quality of three colleges and 12 departments/graduate institutes.
- (2) Continued to implement the application and execution of university-level and national-level plans. She is responsible for promoting the long-term talent cultivation of the “Long-term Care 2.0 Policy” of the Ministry of Health and Welfare and the overall implementation of the plan, leading a total of 40 universities (42 departments) in the country to jointly promote long-term care related departments and jointly develop four major modules of advanced long-term care courses (care service module, care management module, home supervision module, and business management module) to complete the unification of long-term care core module courses by various universities and colleges in Taiwan and the certification of professional qualifications for graduates.
- (3) Integrated the three functions of research, training, and consulting and has implemented a number of plans, including a total of NTD 125 million over five years for the model university program of Ministry of Education, NTD 110 million over a five-year period for the characteristic leap plan, NTD 15 million for the long-term five-year plan, NTD 15.5 million for a three-year university social responsibility plan, and a total of NTD 35 million over three years for optimizing the practice environment of technical colleges, for a total amount of about NTD 300 million (about USD 10 million).

**2. During her five-year tenure as R&D Director**, she applied for a grant from the model university program of the Ministry of Education in 2013 and established the first health care incubation center at NTUNHS and the first industry-academia operation center in Taiwan.

**3. During her four years as director**, she established the Department of Gerontological Health at NTUNHS, built a course map from scratch, and completed a teaching plan with 131 credits and more than 60 courses. To date, the department has successfully enrolled the expected number of students every year and has been the first choice for students in the field of elderly healthcare in Taiwan. The department has successfully cultivated outstanding elderly health care professionals in Taiwan.

**4. Being the Director of Research Center for Healthcare Industry Innovation:** she established and directed the Research Center for Healthcare Industry Innovation

which cooperated with policy makers, scholars, and industry to focus on precision care research and promote cooperation. The Center included 6 doctoral students and 12 professors.

5. **Promotion of international partnerships:** the international exchange of students, and the internationalization of nursing. Under her leadership the Center recruited a record number of international students. She established the Taiwan-Indonesia Health Care Education Center to promote exchanges between health care partner schools and industry. During 2015-2017 Wu served as the university representative to the APEC delegation with her university being only one of three universities that were visited in Taiwan. In 2018, she wrote the project plan and now serves as the director for the Higher Education Sprout Project subsidized by the Ministry of Education.
6. **Won for 2% Scientists 2020 & 2021:** She has published 100+ scholarly papers in Taiwanese and international journals on health promotion, disease management, and disability prevention. She has provided training and consultation to 2,000+ individuals with disabilities and 2,000+ providers. She has developed and tested a chronic disease health management program and trained more than 20 physicians and 102 nurses at 10 facilities. She developed the Chinese version: Diabetes Management Self-Efficacy Scale. Total more than 200 researchers in 20 countries have requested the instrument for using them free of charge. Over 10 years, she has secured NTD 7.8 million (USD \$260,000) from the Ministry of Science and Technology programs and NTD 5 million (USD \$160,000) from industry-academia programs.
7. **In the field of nursing professional group services,** she serves as Director of Taipei Nurses Association from 2019 and assists in nursing-related affairs, including advocating, advising, and serving 30,000 members. While serving as Secretary General of the Taiwan Association of Nurse Practitioners, she assisted in establishing the APN national examination system, served as a reviewer of Taiwanese and international journals and national plans for the nursing profession of the Taiwan Nurses Association, served as a member of the question setting committee for the national licensing of nurse practitioners of the Ministry of Examination and nursing junior college entrance examinations, as well as other professional services.
8. **Invited by the National Health Research Institutes to be the Editor in Chief of the Nursing Manpower 10-year White Paper** of National Health Research

Institutes and began acting as the Deputy Convener to mainly take charge of “long-term care nursing manpower”, which serves as 10-year policy reference for the Ministry of Health and Welfare and has allowed her to exert her influence on promotional of national nursing policy. Under the global aging trend, she has become the Deputy Convener of the Long-term Care Alliance, which promotes the cultivation of national long-term care talents across Taiwan with unremitting efforts.

In conclusion, President Wu works with all her efforts and leads the university to continuously cultivate more professional talents for the society.

### **PERSONAL DATA**

Name: Shu-Fang Vivienne Wu

Current Position: Shu-Fang Wu, RN, PhD, Distinguished Professor, President,  
School of Nursing, National Taipei University of Nursing and Health Sciences

Working Address: No. 365, Mingde Rd., Peitou Dist., Taipei City 112, Taiwan (R.O.C.)

Phone (Office): 886-2-2822-7101 Ext. 2000

E-mail Address: shufang@ntunhs.edu.tw

### **EDUCATION**

<b>Duration</b>	<b>Institution &amp; Location</b>	<b>Degree</b>	<b>Major Subject</b>
2003.07-2007.06	Queensland University of Technology School of Nursing, Brisbane, Australia	Ph.D.	Nursing
1995.09-1997.08	National Yang-Ming University Graduate Institute of Nursing Taipei, Taiwan,	MSN	Nursing
1992.09-1995.06	Taipei Medical College School of Nursing Taipei, Taiwan	BSN	Nursing

## **PROFESSIONAL APPOINTMENTS**

2022-	Distinguished Professor, School of Nursing, National Taipei University of Nursing and Health Sciences, Taipei, Taiwan
2019- 2021	Chair, Research Center for Healthcare Industry Innovation, National Taipei University of Nursing and Health Sciences, Taipei, Taiwan
2018- 2021	Vice President of National Taipei University of Nursing and Health Sciences, Taipei, Taiwan
2018- present	Professor, School of Nursing, National Taipei University of Nursing and Health Sciences, Taipei, Taiwan
2016-2019	Chair, Department of Gerontological Health Care, National Taipei University of Nursing and Health Sciences, Taipei, Taiwan
2014-2017	Researcher of Taipei City Hospital, Taipei, Taiwan
2013-2018	Director of Office Research and Development, National Taipei University of Nursing and Health Sciences, Taipei, Taiwan
2012-2013	Planning Division Team Leader, Office of Research and Development, National Taipei University of Nursing and Health Sciences, Taipei, Taiwan
2011-2015	Associate Professor, School of Nursing, National Taipei University of Nursing and Health Sciences, Taipei, Taiwan
2007-2011	Assistant Professor, School of Nursing, National Taipei University of Nursing and Health Sciences, Taipei, Taiwan



## **SPECIALTIES & RESEARCH INTERESTS**

1. Chronic disease prevention and management
2. Self-efficacy theory/self-management theory applied in clinical practice
3. Disease control of Diabetes and CKD
4. Elderly care and long-term care; training programs, and courses development
5. Innovative education models
6. Experimental research design
7. Instrument development
8. Nursing administration and management
9. Precision health care

## **LICENSES & CERTIFICATIONS**

1990- present	Nurse Practitioner, Taiwan
1988- present	Nurse, Taiwan
1988- present	Registered Midwife, Taiwan

## **PROFESSIONAL AND ACADEMIC MEMBERSHIPS**

2021-	Director	Alumni Association of Chung Jen Junior College of Nursing
2020-	Fellows	American Academy of Nursing
2019- present	Member	Taiwan Association of Critical Care Nurses
2017-2021	Director	ROC Life Care Professional Development Association
2017- present	Member	Taiwan Long Term Care Nurses Association
2016- present	Director	ROC Child and Senior Care Association
2016- present	Member	Taiwan Elderly Care Industry Association
2014-present	Member	Taiwan Association of Integrated Care
2010- present	Member	International Network for Doctoral Education in Nursing
2007- present	General Secretary	Taiwan Association of Nurse Practitioners

	Member	
2006-present	Member	Sigma Theta Tau International Honor Society of Nursing, Taiwan Chapter
2003-present	Member	Chinese Medical Professionals & Health Management Association
2003-present	Member	Taiwanese Association of Diabetes Educators
1993-present	Director	Taiwan Nurses Association
1990-present	Director	Taipei Nurses Association

## **HONORS**

2021.12		Outstanding Alumni Award, National Yang-Ming Chiao-Tung University, Taiwan
2021.12		STANFORD UNIVERSITY NAMES WORLD'S TOP 2% SCIENTISTS, 2020
2019		Outstanding Alumni Award, National Yang-Ming University, Taiwan
2019		Taiwan Union of Nurses Association Professional Contribution Award, Taiwan
2013		Working for Nursing for 25 Years (Ministry of Health and Welfare)
2012-2017		The Ministry of Science and Technology Rewards Research Exceptional Talents, Taiwan
2007		Outstanding Alumni of Chung Jen Junior College of Nursing, Taiwan
2006		Grant-in Aid Scholarship of the Faculty of Health, Queensland University of Technology
2005-2008		Director of PhD Student Board Members, International Network for Doctoral Education in Nursing
2005-2007		QUT International Doctoral Scholarship (QIDS)
2016		Outstanding Teacher Award for Research in the Teaching Excellence Project, MOE, Taiwan

## **PROFESSIONAL AND ACADEMIC COMMUNITY ACTIVITIES**

### **As a Journal Reviewer**

2019	Journal of Diabetes Research
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2017.12	Journal of Research in Education Sciences
2013	Hung Kong Academic Review
2011-2012	Journal of Nursing Management
2008,2011	Journal of the Taiwan Nephrology Nurses Association
2010	Journal of Transcultural Nursing
2010	International Journal of Nursing Studies
2007-present	The Journal of Nursing
2007-present	The Journal of Nursing Research

### **Government Committees**

2019	Member	2019 Elderly Welfare Agency Review of New Taipei City's
2019	Deputy Convener	"Research Plan for Research Center of Elderly Health and Long-Term Care" by the National Health Research Institutes
2019	Deputy Convener	Long-term Care of Taiwan Nursing Manpower Development Forward-looking Strategic Planning (Nursing Policy White Paper) by the National Health Research Institutes
		Vice Chairperson of the Long-Term Care Team, Taiwan Nursing Manpower Development Forward-looking Strategic Planning (NHRI forum) by the National Health Research Institutes
2019	Member	Ministry of Education Review of Special Classes for International Students for New South Industry-Academy Cooperation, MOE
2018-2019	Member	Research Plan for Research Center of Elderly Health and Long-Term Care by the National Health Research Institutes
2018-2019	Member	Panel of Experts of Industry Cooperation of 2019 Academic Year, K-12 Education Administration, Ministry of Education
2018	Member	Elderly Welfare Agency Review 2019
2016-2017	Deputy Convener	"National Long-Term Care Course Promotion Committee", Health Care Industry-Academic Cooperation Center Program, Ministry of Education
2017	Member	"New-type Industry-University-Research Linkage Program" Academic

		Review, Ministry of Science and Technology
2017	Member	Review of “Health Management Plan for Low-and-middle-income Households and Vulnerable Groups in 2017-2019”, Ministry of Health and Welfare
2016	Member	Guidance of “Health Management Plan for Low-and- Middle-Income Households and Vulnerable Groups”, Ministry of Health and Welfare
2015	Member	Medical and Surgical Nursing Examination, Ministry of Examination, R.O.C.
2012	Member	Question Setter for Midwifery Examination, Ministry of Examination, R.O.C.
2011	Member	Question Setter of Standing Question Bank Group, Higher and General Examination, Ministry of Examination, R.O.C.
2009-2021	Member	Ministry of Science and Technology Research Program Review, Ministry of Science and Technology
2008	Member	Review of Advanced Nursing Subject of Written Examination for Screening Nurse Practitioners of Departments of Internal Medicine and Surgery, Ministry of Health and Welfare
2007, 2010	Member	Oral Examination for Screening Nurse Practitioners of Departments of Internal Medicine and Surgery, Ministry of Health and Welfare
2007	Member	Professional Examination Question Setting Member, Technical College Unified Admission Test Question Setting, Ministry of Education

### **Professional Committees**

2019-2022	Director	ROC Child and Senior Care Association
2019-2022	Director	Taipei Nurses Association Nursing Research Committee
2019	Director	Taipei Nurses Association
2019	Reviewer	Taiwan Assessment and Evaluation Association (TWAEA)
2017-present	Director	ROC Life Care Professional Development Association
2017-2018	Member	Internal Evaluation of Long-term Care Research Institute for the 2018 Academic Year, Tzu Chi University of Science and Technology

2016-2017	Member	Excellent and Outstanding Teacher Selection Committee for the 2017 Academic Year, Mackay Medical College
2016-2018	Member	Long-Term Care Introduction Discipline Review 1 <sup>st</sup> Semester for the 2018 Academic Year, National Open University
2016	Member	"Communication Exam Questions" Setting, Taiwan Nurses Association
2016	Member	"Annual Research Plan 2018" Review, Taipei City Hospital
2016	Member	2016 Annual Comprehensive Assessment and Evaluation of Technological Universities, Taiwan Assessment and Evaluation Association
2016	Member	Final Result Review of the Project for the Design of Exclusive Communication Equipment for the Elderly, National Yunlin University of Science and Technology
2016	Member	Question Setting of the First International Dementia Care Certification Examination, Taiwan Association of Integrated Care
2015-2016	Expert	Consultation on the Diabetes Pharmacy Care and Health Management Pilot Program of the National Federation of ROC Pharmacists' Associations
2010-2012	Member	Oral Examination Committee, Taiwan Association of Nurse Practitioners
2012	Expert	Examiner of the Professional Exams of the Taiwan Association of Nurse Practitioners
2011	Member	Taiwan Nephrology Nurses Association
2010-2014	Member	External research reviewer for the Teaching and Research Department of Taipei City Hospital
2010,2012	Member	External research reviewer for the R&D Department of Chang Gung Institute of Technology
2010	Member	External research reviewer for the R&D Department of Hualien Tzu Chi Hospital
2010	Member	External research reviewer for the Teaching and Research Department of Cheng Hsin Hospital

2007-2008	Secretary General	Taiwan Association of Nurse Practitioners
2007	Member	Written examination work plan question setting for the professional knowledge certification course for medical staff in the Diabetes Common Care Network in 2007

## **RESEARCH GRANTS**

Title of project	Author	Sponsor	Period
Investigation of the role of IL-13Ra1 in liver fibrosis progression and reversal through the regulation of macrophage polarization	Co-PI	Ministry of Science and Technology	2022.05.01-2023.04.30
2022 Assisting and Consulting High Schools to Launch Dept. of Caring Services Project	Co-PI	Ministry of Education	2022.01.01-2022.12.31
The Construction of Whole-person Precision Medicine and Precision Healthcare Program in People with Myasthenia Gravis	Co-PI	Ministry of Science and Technology	2021.12.01-2023.07.31
The Program of Bilingual Education for Students in NTUNHS	PI	Ministry of Education	2021.08.01-2022.07.31
The mechanism and effectiveness of job-crafting mobile application for shift-working nurses' work well-being	Co-PI	Ministry of Science and Technology	2021.08.01-2022.07.31
Higher Education Sprout Project, Ministry of Education, Taiwan	Co-PI	Ministry of Education	2021.08.01-2022.07.31
Higher Education Sprout Project, Ministry of Education, Taiwan	Co-PI	Ministry of Education	2020.08.01-2021.07.31
University Social Responsibility	PI	Ministry of Education	2020.01.01.-2022.12.31.
Effectiveness of Patient-centered Self-management Programs in Patients with Hypertensive Nephropathy	Co-PI	Ministry of Science and Technology	2019.08.01-2020.07.31
The Construction of Precision Healthcare Innovational Program in People with Stroke	PI	Ministry of Science and Technology	2019.08.01-2020.07.31.
Developing Smart Technology in Care Instructional Module and Cultivating Interdisciplinary Talents Project	Co-PI	Ministry of Education	2019.02.01-2019.08.31

Title of project	Author	Sponsor	Period
2019 Assisting and Consulting High Schools to Launch Dept. of Caring Services Project	Co-PI	Ministry of Education	2019.01.01-2021.12.31
The Construction of Precision Healthcare Innovation Care Program in people with Myasthenia Gravis	PI	Shin Kong Wu Ho-Su Memorial Hospital	2019.01.01-2019.12.31
Academic-Industrial Collaboration in Cultivation of Aging Precision Healthcare Talents Project	Co-PI	Ministry of Education	2018.11.12-2021.08.31
Higher Education Sprout Project, Ministry of Education, Taiwan	Co-PI	Ministry of Education	2018.08.01-2020.07.31
The Prevention of Pressure Sores Using Inflatable Automatic Turning over Mattresses	PI	TENDAYS Co.	2018.01.01-2019.12.31.
Effectiveness of Innovative Technology Self-Management Schemes on Improvement of Metabolic Syndrome in Patients	PI	Shin Kong Wu Ho-Su Memorial Hospital	2018.01.01-2019.06.30
2018 Assisting and Consulting High Schools to Launch Dept. of Caring Services Project	Co-PI	Ministry of Education	2018.01.01-2018.12.31
Community Resource Connection for Continuous Long-term Care Service Model	Co-PI	Ministry of Education	2017.08.01-2018.03.31 2018.04.01-2019.12.31
Short-term Technical Training Program for Foreign Youth in Higher Education-Non-credit Classes of Gerontological Health Care for Foreign Youth by the Department of Gerontological Health Care, National Taipei University of Nursing and Health Sciences	PI	Ministry of Education	2017.01.01-2019.12.31
The Development and Clinical Evaluation of Wearable Fall Detection Devices	Co-PI	ASUSTeK Computer Inc.	2017.03.01-2018.02.28
Healthcare Industry! NTUNHS-Industry Collaboration-and-Enhancement Continuity Project	PI	Ministry of Education	2017.01.01-2019.12.31



Title of project	Author	Sponsor	Period
Effectiveness of a Program with Evidence-based Support for Patients with Metabolic Syndrome	PI	Shin Kong Wu Ho-Su Memorial Hospital	2017.01.01-2017.12.31
Exploring the Clinical Prediction of Depression and Quality of Life in Patients with Metabolic Syndrome	PI	Cardinal Tien Hospital	2017.01.01-2017.12.31
Effectiveness of Diseases Management of Patients with Metabolic Syndrome	PI	Taipei City Hospital Department of Health, Taipei City Government	2016.01.01-2017.12.31
Health Care Industry-Academia Cooperation Center Project, MOE	Co-PI	Ministry of Education	2016.10.01-2017.12.31
Effectiveness of Functions and Disease Management of Patients with Diabetes Mellitus Nephropathy, DMDM	PI	Ministry of Science and Technology	2015.08.01-2018.07.31
The care needs of newly diagnosed type 1 diabetes mellitus: a multi-perspective discussion	Co-PI	Taipei City Hospital Department of Health, Taipei City Government	2015.08.01-2016.09.15
Effectiveness of a Self-management Program on Patients with Diabetic Nephropathy: A Longitudinal Study	PI	Cardinal Tien Hospital	2015.03.01-2017.02.28
Extension Project on Healthcare Internationalization-- Global Development of International and Study- Abroad Programs	Co-PI	Ministry of Education	2015.01.01-2015.12.31
Effectiveness of a Self-management Program on Patients with End Stage Renal Disease: A Longitudinal Study	PI	Ministry of Education	2015.01.01-2015.12.31

Title of project	Author	Sponsor	Period
International Export Project for Excellent Quality Nursing and Midwifery Education of NTUNHS	Co-PI	Department of Health, Taipei City Government (Shilin Branch)	2014.03.01-2014.12.15
Strategic Alliance Project of Model University of Science and Technology in the North District of Taiwan	PI	Ministry of Education	2014.01.01-2015.12.31.
Department of Health, Taipei City Government (Shilin Branch) Diabetic Prevention Program in 2013	PI	Ministry of Science and Technology	2013.03.13-2013.10.31
Healthcare Industry! NTUNHS-Industry Collaboration-and-Enhancement	PI	Ministry of Education	2013.01.01-2017.12.31.
Self-management Tailored Program for Chronic Kidney Disease (SMILE for CKD)	PI	Taipei City Hospital	2012.08.01-2015.07.31.
Improvement Project for Institutional Review Board/Research Ethics Education for Medical Care in Higher Education	Co-PI	Ministry of Science and Technology	2012.01.01-2012.12.31.
Development of a Fast Screen and Referral Model of Psychological Well-being for Patients with Diabetes, Hypertension and High Cholesterol	Co-PI	Ministry of Science and Technology	2012.01.01-2012.12.31
Effectiveness of Diabetic Education for Persons with Diabetes Following a Self-management Efficacy Program	PI	Department of Health, Taipei City Government	2010.08.01-2011.07.31
Effectiveness of Self-management for Diabetic Patients: An Implementation of a Self-efficacy Enhancing Program	PI	Department of Health, Taipei City Government	2009.08.01-2010.07.31
The Effectiveness of Community Rehabilitation- Based on Self-Efficacy Theory for People with Arthritis	Co-PI	National Taipei College of Nursing	2007.07.01-2009.06.30
Effectiveness of Self-management Program for People with High Risk of Diabetes in the Community	Co-PI	National Taipei College of Nursing	2007.05.01-2007.11.30

Title of project	Author	Sponsor	Period
Clinical Performance in Nursing Examination in Medical-Surgery Nursing: A Pilot Study	PI	Bureau of Health Promotion, Department of Health, R.O.C.	2007.07.01-2008.04.30
Effectiveness of “Creative Teaching of Case Studies” in Medical-Surgical Nursing	PI	NTUNHS	2007.07.01-2008.06.30
The Effectiveness of Community -Based Health Promotion Programs for Metabolic Syndrome	Co-PI	Ministry of Health and Welfare	2005.01.01-2005.12.15

## PUBLICATIONS

### Refereed Books/Chapters

**Wu, S. F.**, Sun, J. H., Lin, Y., Kuo, L. M., Peng, C. Y. (2021). Vital Sign Measurement. In Wu, S. F. (Eds.), *Basic Care Practice and Experiment Volume 1*(1st ed., pp.15-48). K-12 Education Administration.

Huang, H. L., Tsai, J. M., Chen, S. J., Kuo, L. M., **Wu, S. F.**, Sun, J. H., Yu, H. W., Lee, Y. T., Hong, L. L., Chang, S. H. (2020). Understanding Disease Signs and Care Methods for Common Diseases of the Elderly. In Hsieh, N. C. (Eds.), *Introduction to Long-term Care 1* (1<sup>st</sup> ed., pp.115-134). K-12 Education Administration. (ISBN: 978-986-5444-47-1, publication date: February 2020)

Gao, J. C., Chang, M., Chen, J. M., Huang L. H., Yang, L.C., **Wu, S. F. V.**, Lin, C. F., Lin, Y. P., Chen, L. C., Tung, H. H., Huang, T. Y., Tsay S. L. (2019). National Institutes of Health "Taiwan Nursing Manpower Development Forward-looking Strategic Planning" Taiwan, NHRI forum.

Feng, Y., Li, Y. C., Wu, H. C., **Wu, S. F. V.**, Chang, S. C. (2018). *Introduction of Long-term Care*. Taipei, Taiwan: National Open University. (ISBN 9789860563221, publication Date: August 2018)

**Wu, S. F. V.** (2016). *The Medical Needs, Prevention and Care of the Elderly Society, the Development and Challenges of Long-term Care industry in Taiwan* (p.15-34) · Taipei, Taiwan: China Technical Consultants, Inc. (ISBN 978-986-92691-6-2, publication Date: December 2016)

Li Y. C., **Wu, S. F. V.**, & Chang, Y. L. (2009). *The Training Manual of Self-Efficacy for Patients with Diabetes for Health Providers*. Taipei: Psychological Publishing C.

**Wu, S. F. V.** (2009). *The Training Manual of Self-Efficacy for Patients with Diabetes*. Taipei:

Psychological Publishing. C.

- Wu, S. F. V.**, Hsu, S. C., Chen, H. M., & Chang, C. F.(2002). Posture Request · In P. C. Chang, *Basic Nursing Techquies Manual* (p.189-208). Taipei : Wun Ching Publishingn Group ISBN: 957-512-782-X.
- Wu, S. F.** (2002). Aging change in respiration. In Ma, P. C.et al. (2<sup>nd</sup> ed). *Gerontological Nursing: Concepts and Practic*. Taipei: Wunan Publishing, 323-355.
- Wu, S. F.** (2002). Basic Life Support in Cardiopulmonary Resuscitation of Adult; CPR-BLS. In Chen, P. C.et al. (2<sup>nd</sup> ed).*The Manual for Fundamental Nursing Techniques*. Taiiepei: New Wun Ching Developmental Publishing, 176-192.
- Chang, C. F., Chen, H. M., Hsu, S. J., **Wu, S. F.** (2002). Adult cardiopulmonary resuscitation (medical staff version) Chang, B. J. and other teachers in the nursing department of National Taipei University of Nursing and Health Sciences. Basic Care Technical Manual. Taipei: Wunan Publishing. (ISBN 957512688-2, 175-190 publication Date: 30 September 2002)
- Chang, C. F., **Wu, S. F.**, Chen, H. M., Hsu, S. J. (2001). Adult cardiopulmonary resuscitation (medical staff version). in Department of Education, Taipei City Government 2001 Military Training Instructor Summer Work Study Manual (p.37-42). Taipei, Taiwan: Department of Education, Taipei City Government.

### **International Journal**

- Su, W. L., Wu, C. C., **Wu, S. F. V.**, Lee, M. C., Liao, M. T., Lu, K. C. & Lu, C. L. (accepted: 2022/05/23)A Review of the Potential Effects of Melatonin in Compromised Mitochondrial Redox Activities in Elderly Patients With COVID-19. *Frontiers in Nutrition*. doi: 10.3389/fnut.2022.865321
- Pranata, S.\*, **Wu, S. F. V.**, Wang, T. J. T., Liang, S. Y., Chuang, Y. H., Lu, K. C., & Khoiriyah, K. (online: 2022.04). Discovering elements and developing strategies to implement the tailored care education for patients with diabetes through a systematic review. *Nurse Media Journal of Nursing*, 12(1), 75-87. doi: 10.14710/nmjn.v12i1.44336 (SJR-SCIImago Journal Rank)
- Lee, M. C.\*, **Wu, S. F. V.**, Lu, K. C., Wang, W. H., Chen, Y. Y., & Tai, Chun. Y. (2022.04). Effect of patient-centered self-management program on blood pressure, renal function control and quality of life of patients with hypertensive nephropathy: A longitudinal randomised controlled trial. *Biological Research for Nursing*, 24(2):216-225. doi: 10.1177/10998004211061877 (SCIE)
- Lee, M. C., Chen, Y. Y., Tai, C. Y., **Wu, S. F. V.** (2022). The mediating effect of self-efficacy in the relationship between mental health and quality of life in patients with hypertensive nephrology.

*Journal of Advanced Nursing*. doi: 10.1111/jan.15199 (SSCI)

- Lin, C. J., Yeh, M. L.\*, **Wu, S. F.**, Chung, Y. C., & Lee, C. H. J. (2022.03). Acupuncture-related treatments improve cognitive and physical functions in Alzheimer's disease: A systematic review and metaanalysis of randomized controlled trials. *Clinical Rehabilitation*, 36(5), 609-635. doi: 10.1177/02692155221079117 (SCIE)
- Chen, Y. Y., Lee, M. C., **Wu, S. F. V.**, Liu, Y. M., & Chen, H. M. (online: 2022.01). Disease knowledge, self-efficacy, and quality of life in patient with hypertensive nephropathy. *Clinical Nursing Research*, doi: 10.1177/10547738211073396 (SSCI)
- Wang, J. H., Wang, L. W., Liang, S. Y.\*, Rosenberg, J., Wang, T. J., **Wu, S. F.**, & Liu, C. Y. (online: 2022.01). Relationship between prescribed opioids, pain management satisfaction and pain intensity in oncology outpatient. *Supportive Care in Cancer*, 30, 3233-3240. doi: 10.1007/s00520-021-06722-8 (SSCI)
- Chen, S. C., **Wu, S. F.**, Wang, T. J., Rosenberg, J., Lu, Y. Y., Liang, S. Y. (online: 2021.12). Factors influencing the coping strategies of liver cancer patients undergoing transarterial chemoembolization. *International Journal of Nursing Practice*. doi: 10.1111/ijn.13033 (SCIE)
- Lee, M. C.\*, **Wu, S. F. V.**, Lu, K. C., Wang, W. H., Chen, Y. Y., & Tai, Chun. Y. (2022.04). Effect of patient-centered self-management program on blood pressure, renal function control and quality of life of patients with hypertensive nephropathy: A longitudinal randomised controlled trial. *Biological Research for Nursing*, 24(2), 216-225. doi: 10.1177/10998004211061877 (SCIE)
- Wu, S. F. V.**, Wang, T. J., Liang, S. Y., Lin, L. J., Lu, Y. Y., & Lee, M. C.\* (online: 2021.09 ). Differences in self-care knowledge, self-efficacy, psychological distress and self-management between patients with early-and end-stage chronic kidney disease. *Journal of Clinical Nursing*, 00, 1-9. doi: 10.1111/jocn.16046 (SCIE)
- Huang, P. H., Chi, M. J., Kuo, C. L., **Wu, S. F. V.**, & Chuang, Y. H. (online: 2021.08). Prevalence of loneliness and related factors among older adults in Taiwan: Evidence from a nationally representative survey. *Inquiry: The Journal of Health Care Organization, Provision, and Financing*, 58, 1-8. doi: 10.1177/00469580211035745
- Huang, J. H., Wang, T. J.\*, **Wu, S. F.**, Liu, C. Y., & Fan, J. Y. (online: 2021.06). Postcraniotomy fever and its associated factors in patients with traumatic brain injury, nursing in critical care. *Nursing in Critical Care*. doi: 10.1111/nicc.12640 (SCIE)
- Cheng, J. C., Chang, T. T., Wang, L. W., Liang, S. Y. \*, Hsu, S. C., **Wu, S. F.**, Wang. T. J., & Liu C. Y. (online: 2021.05). Development and psychometric evaluation of the caregiver caregiving self-efficacy scale for family members with oral cancer. *International Journal of Nursing Practice*. doi: 10.1111/ijn.12957 (SCIE)

- Etemadi Sh, M.; Rahgozar, S.; Tajmiri, G.; Alizargar, J.; & **Wu, S. V.** (online: 2021.05). Microbiological evaluation of the antibacterial vicryl suture in the mandibular third molar surgery. doi: 10.20944/preprints202105.0207.v1.
- Hsieh N. C., **Wu, S. F. V.**, Tsai, J. M., Lin, L. J., & Sun, J. H.\* (2022.01) Establishing core competencies and a professional curriculum for the care service department in vocational high schools in Taiwan. *International Journal of Environmental Research and Public Health*, 19(2), 1009-1029. doi: 10.3390/ijerph19021009 (SSCI)
- Lee, M. C.\*, **Wu, S. F. V.**, Lu, K. C., Wang, W. H., Chen, Y. Y., & Chen, H. M. (2021.11). Effect of patient-centered self-management program on mental health, self-efficacy and self-management of patients with hypertensive nephropathy: A randomised controlled trial. *Journal of Clinical Nursing*, 30(21-22), 3205-3217. doi: 10.1111/jocn.15825 (SCIE)
- Pranata, S., **Wu, S. F. V.\***, Chu, C. H., & Nugroho, K. H. (2021.10). Precision health care strategies for older adults with diabetes in Indonesia: a Delphi consensus study. *Medical Journal of Indonesia*, 30(3), 221-227. doi: 10.13181/mji.oa.215525 (SCIE)
- Liao, M. T., Wu, C. C., **Wu, S. F. V.**, Lee, M. C., Hu, W. C., Tsai, K. W., Yang, C. H., Lu, C. L., Chiu, S. K., Lu, K. C.\* (2021.09). Resveratrol as an adjunctive therapy for excessive oxidative stress in aging COVID-19 patients. *Antioxidants*, 10(9), 1440-1473. doi: 10.3390/antiox10091440 (SCIE)
- Pranata, S., **Wu, S. F. V.**, Purwadi, H., Putra, D. G. S., Wulandari, H., Soesanto, E. (2021.08) Exploring of self-management experience among health professional survivors from Coronavirus Disease 2019 in West Nusa Tenggara, Indonesia. *Open Access Macedonian Journal of Medical Sciences*, 9(G), 19-27. doi: 10.3889/oamjms.2021.6443
- Yu, C. Y., Wang, J. H., Wang, L. W., Wang, T. J., Liang, S. Y., **Wu, S. F. V.**, & Lu, Y. Y. (2021.08) The influence of opioid-taking self-efficacy and social support on pain management satisfaction in outpatients with cancer pain. *Support Care Cancer*, 30, 805–812. doi: 10.1007/s00520-021-06330-6
- Lee, M. C., **Wu, S. F. V.\***, Lu, K. C., Liu, C. Y., Liang, S. Y., & Chuang, Y. H. (2021.07). Effectiveness of a self-management program in enhancing quality of life, self-care, and self-efficacy in patients with hemodialysis: A quasi-experimental design. *Seminars in Dialysis*, 34(4)292-299. doi: 10.1111/sdi.12957 (SCIE)
- Pranata, S., **Wu, S. F. V.\***, Alizargar, J., Liu, J. H., Liang, S. Y., & Lu, Y. Y. (2021.06). Precision health care elements, definitions, and strategies for patients with diabetes: a literature review. *International Journal of Environmental Research and Public Health*, 18(12), 6535. doi: 10.3390/ijerph18126535 (SSCI)
- Lin L. J., Hsieh N. C., **Wu, S. F. V.**, Tan T. H., Alizargar, A., Bai C. H., & Alizargar, J.\* (2021.06).

Factors associated with cardio ankle vascular index (CAVI) and its mathematically corrected formula (CAVI0) in community dwelling individuals. *Artery Research*, 27(2), 53-58. doi: 10.2991/artres.k.201124.002 (SCIE)

Chang, C., Wang, T. J., Chen, M. J., Liang, S. Y., **Wu, S. F.**, & Bai, M. J. (2021.06). Factors influencing readiness to change in patients with alcoholic liver disease: a cross-sectional study. *Journal of Psychiatric and Mental Health Nursing*, 28(3), 344-355. doi: 10.1111/jpm.12677 (SCIE)

**Wu, S. F. V.**, Chen, S. C. \*, Liu, H. Y., Lee, H. L., & Lin, Y. E. (2021.05). Knowledge, intention, and self-efficacy associated with breastfeeding: impact of these factors on breastfeeding during postpartum hospital stays in Taiwanese women. *International Journal of Environmental Research and Public Health*, 18(9), 5009. doi: 10.3390/ijerph18095009 (SSCI)

Kurniawan, A. L. \*, Hsu, C. Y., Chao, J. C-J \*, Lin, L. Y., Paramastri, R., Lee, H. A., Hsieh, N. C., & **Wu, S. F. V.** (2021.05). Interactive effects of unhealthy lifestyle behaviors on testicular function among healthy adult men: A cross-sectional study in Taiwan. *International Journal of Environmental Research and Public Health*, 18(9), 4925. doi: 10.3390/ijerph18094925 (SSCI)

Chuang, L. M., **Wu, S. F. V.\***, Lee, M. C., Lin, L. J., Liang, S. Y., Lai, P. C., & Kao, M. C. (online: 2021.04). The effects of knowledge and self-management of patients with early-stage chronic kidney disease: Self-efficacy is a mediator. *Japan Journal of Nursing Science*, 18(2), e12388. doi: 10.1111/jjns.12388 (SCIE)

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### Conference

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Hsieh, N. C., Wu, S. F., Weng, S. Y., Sun, J. H., Yan, Y. X., Huang, Y. J., Chu, C. H. (2021, June). Utilization of AI-aided image classification for the diagnosis of ischemic stroke. *The Forum of Long-term Care in 2021*. National Cheng Kung University, Tainan, Taiwan. (Poster)

Tian, J. Y., Chen, H. M., Liu, C. Y., **Wu, S. F.**, Tai, H. L., Wu, M. J. (2021, May) Effects of a nurse-led home-based exercise program on physical activity and function in hemodialysis patients: A randomized controlled trial. *Nursing Around the World*. 2020 Taiwan International Nursing Conference Endorsed by ICN. (e-Poster)

**Wu, S. F.** (2020, October). *In Crisis and Calm: Leading with Purpose*. 2020 Virtual Transforming Health, Driving Policy Conference by American Academy of Nursing, Washington, America. (Virtual)

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Sun, J. H., Hsieh, N. C., Wu, S. F. V.\*, Tsai, J. M., Hua, S. Y., Wang, J. T. (2020, April 30-May 1). Educational development trend of long-term care department establishment among vocational high schools in Taiwan: An analysis of focus group interviews. 2020 IHC International Healthcare Conference, Fooyin University, Kaohsiung, Taiwan. (Oral)

Tai, S. H. & **Wu, S. F. V.** (2020, January 10-11). The efficacy of swallowing posture in patients with cerebral infarction. *Advancing Nursing Scholars in the Era of Global Transformation and Disruptive Innovation*. The 23<sup>rd</sup> East Asian Forum for Nursing Scholars (EAFONS), Chiang Mai, Thailand. (Poster)

Tsai, J. M., **Wu, S. F.**, Hsieh, N. C., Chen, M. L., Hua, S. Y. (2019, November 15-18). Elderly and long-term care professional development and employment market trends. The 16th World Chinese Regional Long-term Care Conference. China: Hangzhou. (Poster)

- Wu, S. F.** (2019, October 24-26). Self-management program on people with chronic diseases: Testing theory & developing instruments. *International Perspectives in Nursing Education*. International Nursing Education Congress, Atatürk University, Palandöken, Turkey. (Teleconference)
- Hsieh, N. C., **Wu, S. F.**, Wu, J. P. (2019, July 12-18). Interaction of rejuvenation of exercise training and resveratrol supplement in age-dependent alteration of Alzheimer's diseases in SAMP8 mice. Alzheimer's Association International Conference (AAIC2019), Los Angeles, United States. (Poster)
- Lee, Y. C., **Wu, S. F. V.**, Liu, C.Y., Lin, C. J., Chen, F. A., & Yao, Y. H. (2019, June 27-July 1). Psychological aspect effect of self-management for patient with pre-end stage renal disease following the implementation of a self-management program. Poster session presentation at *Beyond Healthcare to Health*. ICN Congress 2019, Marina Bay Sands, Singapore. (Poster)
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- Lee, M. C., **Wu, S. F. V.\***, Lu, K. C., Liu, C. Y., Huang, H. L., & Chen, M. L. (2019, June 27-July 1). Effect of self-management program on self-care behaviors and spiritual well-being of patients with end-stage renal disease in Taiwan: A longitudinal design. e-Poster session presented at *Beyond Healthcare to Health*. ICN Congress 2019, Marina Bay Sands, Singapore. (Poster)
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- Wu, S. F. V.** (2018, October 27). Facing aging: Effects of self-management program on people with chronic diseases at *Chronic Illness Management: Focused on Innovation, Collaboration & Diversity*. The 12th International Nursing Conference, Korea University, Seoul, Korea. (Oral)
- Lin, C. C., **Wu, S. F. V.**, Lee, M. C. \*, & Hsu, C. H. (2018, October 27). Relationships among depression, quality of life and TCM syndrome in patients with metabolic syndrome. *Chronic Illness Management: Focused on Innovation, Collaboration & Diversity*. The 12<sup>th</sup> International Nursing Conference, Korea University, Seoul, Korea. (Poster)
- Pai, Y. L., **Wu, S. F. V.\***, Wang, J. H., & Liu, C. Y. (2018, October 27). The effectiveness of clinical biochemical indicators and fatigue of home-based exercise intervention plan for patients with coronary artery disease after treatment and return to home – taking patients in Hualien and Taitung for example. *Chronic Illness Management: Focused on Innovation, Collaboration & Diversity*. The 12<sup>th</sup> International Nursing Conference, Korea University, Seoul, Korea. (Poster)
- Liu, J. H., **Wu, S. F. V.\***, Hsieh, N. C., & Lin, Y. (2018, October 27). A new initiative on precision care for older adults with multiple chronic conditions: an integrative review. *Chronic Illness Management: Focused on Innovation, Collaboration & Diversity*. The 12<sup>th</sup> International Nursing Conference, Korea University, Seoul, Korea. (Poster)
- Lee, P. F., & **Wu, S. F. V.\*** (2018, October 27). Physiological and psychological effects after implementing a self-efficacy program for persons with type 2 diabetes. *Chronic Illness Management: Focused on Innovation, Collaboration & Diversity*. The 12<sup>th</sup> International Nursing Conference, Korea University, Seoul, Korea. (Poster)
- Tsai, J. M., Hsieh, N. C., **Wu, S. F. V. \***, Sun, J. H., & Lin, L. J. (2018, October 27). Professional development and employment market trends of population aging and long-term care. *Chronic Illness Management: Focused on Innovation, Collaboration & Diversity*. The 12<sup>th</sup> International Nursing Conference, Korea University, Seoul, Korea. (Poster)
- Lin, L. J., Hsieh, N. C.\*, **Wu, S. F. V.**, & Sun, J. H. (2018, October 27). Core competence development and training course development for supplementary foreign caregivers in long-term care facilities in Taiwan. *Chronic Illness Management: Focused on Innovation, Collaboration & Diversity*. The 12<sup>th</sup> International Nursing Conference, Korea University, Seoul, Korea. (Poster)
- Sun, J. H., Hsieh, N. C., **Wu, S. F. V.\***, Tsai, J. M., Lin, L. J., Hua, S.Y., & Wang, J. T. (2018, October 27). A study investigating core competence development and school-based curriculum development for “department of care services” in vocational senior high schools in Taiwan.



*Chronic Illness Management: Focused on Innovation, Collaboration & Diversity*. The 12<sup>th</sup> International Nursing Conference, Korea University, Seoul, Korea. (Poster)

Lai, P. C., Chuang, L. M.\*, Hsieh, N. C., & **Wu, S. F. V.** (2018, October 27). The effectiveness of chronic disease health promotion program in patients with metabolic syndrome in Taiwan. *Chronic Illness Management: Focused on Innovation, Collaboration & Diversity*. The 12<sup>th</sup> International Nursing Conference, Korea University, Seoul, Korea. (Poster)

Lee, P. F., **Wu, S. F. V.**, Lin, R. H., Su, J.J., Jhong, M. M., Professor Lin Ruixiang Clinic, National Taipei University of Nursing Health Sciences (NTUNHS), & Cardinal Tien Hospital (2018, July 7-8) Effectiveness of self-efficacy management program on patients with type 2 diabetes and insulin therapy. 2018 Taiwanese Association of Diabetes Educators Annual Conference and Academic Seminar, Taiwan International Convention Center (TICC), Taipei, Taiwan (Excellent Poster Presentation Award) (Poster)

Yen, J. M., **Wu, S. F. V. \***, Hsieh, N. C., Lin, L. J., Tsai J. M., & Lee, M. C. (2017, May 27-June 1). Effectiveness of self-efficacy training program on the psychology and self-management of patients with pre end stage renal disease in Taiwan: A randomized controlled trial. *Nurses at the Forefront Transforming Care*. ICN Congress 2017, Barcelona, Spain. (Poster)

**Wu, S. F. V.**, Lee, M. C.\*, Chen, M. L., Huang, H. L., Lin, Y., & Lin, C. Y. (2017, May 27-June 1). Effect of self-management program on physiology, depression, and quality of life of patients with end-stage renal disease: A longitudinal study. *Nurses at the Forefront Transforming Care*. ICN Congress 2017, Barcelona, Spain. (Poster)

Lin, J.L.\*, & **Wu, S. F. V.** (2017, May 27-June 1). A randomized controlled trial study on effectiveness of yoga for chronic pain among breast cancer patients. *Nurses at the Forefront Transforming Care*. ICN Congress 2017, Barcelona, Spain. (Poster)

**Wu, S. F. V.\***, Wu, M. P., Lee, M. C., Liu, J. Y., Tsai, J. M., & Liao, Y. Y. (2017, May 11-12). Effectiveness of a diabetic health promotion program on elderly people with diabetes. Poster session presented at *New Perspective, New Insight, New Future*. The 2017 International Elderly Care Industry Leader Forum, Taipei International Convention Center, Taiwan. (Poster)

**Wu, S. F. V.**, Hsieh, N. C. Tsai, J. M.\*, Chang H. J., Lin, L. J., & Chen, M. L. (2017, May 11-12). Cultivating core competency of long-term care personnel : The perspective of career development in Taiwan's long-term care industry. Poster session presented at *New Perspective, New Insight, New Future*. The 2017 International Elderly Care Industry Leader Forum, Taipei International Convention Center, Taiwan. (Poster)

**Wu, S. F. V.** (2016, December 21). How to apply a theory into education /Clinical Practice: Effects of a self-management program after a special training program for diabetic healthcare workers in

Taiwan. Muhammadiyah University of Semarang, Indonesia.

- Wu, S. F. V.** (2016, October 30). Training and application experience of two-stage self-management improvement program for diabetes in Taiwan. 2016 Winter Conference and Seminar, Taipei International Convention Center (TICC), Taipei, Taiwan. (Oral)
- Hsieh, N. C., **Wu, S. F. V.**, Tsai, J. M.\*, Lin, L. R., Chen, M. L., & Lee, M. C. (2016, September 24-26). Where is the long-term manpower? Research on the employment status of graduates from long-term care departments in Taiwan -System dynamics view. The 13th World Congress on Long Term Care in Chinese Communities. Renmin University of China, Beijing, China. (Excellent Poster Presentation Award) (Poster)
- Wu, S. F. V.**, Hsieh, N. C., Chang, H. J., Tsai, J. M.\*, Lin, L. R., Chen, M. L., & Lin, M. H. (2016, September 24-26). A preliminary study on the core functions and literacy of long-term care personnel --Taking long-term care talents in Taiwan as an example. The 13th World Congress on Long Term Care in Chinese Communities. Renmin University of China, Beijing, China. (Excellent Poster Presentation Award) (Poster)
- Wu, S. F. V.** (2016, September 19). Medical needs, prevention and care of the population needs long-term care. *International Seminar on the Development and Challenges of Long-term Care Industry in Taiwan*. Evergreen International Convention Center, Taipei, Taiwan. (Oral)
- Wu, S. F. V.** (2016, July 15). Planning to cultivate long-term care personnel under education system. *The education training course: Development of Gerontological Medical and Care* by 2nd Gerontology and Health Integration Research Center. Evergreen International Convention, Center Taipei, Taiwan. (Oral)
- Wu, S. F. V.** (2016, June 30- July 03) Clinical nursing syllabus design. *Seminar on New Ideas and Technologies for Cross-strait Nursing*. Xiamen Medical College, Xiamen, China. (Oral)
- Wu, S. F. V.** (2016, June 08). Case study and nursing clinical application workshop by School of Nursing, National Taipei University of Nursing and Health Sciences. National Taipei University of Nursing Health Sciences (NTUNHS), Taipei, Taiwan. (Oral)
- Lee, M. C.\* , & **Wu, S. F. V.** (2015, November 18-20). The self-management experiences of patients with pre-end stage renal disease in Taiwan. *Transforming Nursing Education and Practice in Meeting the Future Needs of the Community*. The 3<sup>rd</sup> NUS-NUH International Nursing Conference and 20<sup>th</sup> Joint Singapore-Malaysia Nursing Conference, Singapore. (Poster)
- Wu, S. F.**, Lu, Y. Y., Liang, S. Y., Tung, H. H., Huang, Y. L., Tseng, H. L. (2015, July 11-13). The impact of depression and willingness to have a kidney transplant by patients with ESRD in Taiwan. The 2<sup>nd</sup> Annual Public Health Conference, Bangkok, Thailand. (Poster)

- Wu, S. F.**, Lee, M. C.\*, & Tseng, H. L. (2015, June 19-23). Relationship among the disease knowledge, self-efficacy, and self-care of patients with chronic kidney disease. Publication online session presented at the ICN Conference and CNR, Seoul, Korea. (Poster)
- Lee, M. C.\*, & **Wu, S. F.** (2015, June 19-23). Self-care self-efficacy and quality of life for self-management programs patients with chronic kidney disease: meta-analysis. ICN Conference and CNR, Seoul, Korea. (Poster)
- Huang, Y.L., Chen, H.Y.\*, **Wu, S. F.** (2015, June 19-23). The impact of operating room nurses' self-efficacy, professional commitment and work stress to their job satisfaction. ICN Conference and CNR, Seoul, Korea. (Poster)
- Wu, S. F. V.** (2015, April 24). Effects of self-management program on people with chronic diseases. *The 2015 self-management and chronic care*. Taipei Medical University, Taipei, Taiwan. (Oral)
- Huang, Y. L. \*, Chen, H. Y., & **Wu, S. F.** (2014, November 1-2). The influence of work pressure and professional commitment of nursing staff in operating room of a medical center on job satisfaction. *Taiwan Nursing Management Society - The Fifth Strait Care Forum*, Cheng Hsin General Hospital, Taipei, Taiwan. (Poster)
- Lee, M. C. \*, Huang, X. Y., & **Wu, S. F. V.** (2014, February 20-21). The self-care experiences of hemodialysis patients with chronic renal failure in Taiwan. *Scaling up Partnerships for Graduate Education and Research*. 17<sup>th</sup> EAFONS Conference, Manila, Philippines. (Poster)
- Lee, Y. C. \*, Jhong, R. N., Huang, J. M., & **Wu, S. F.** (2013, November 29-30) Does hemodialysis patients with arteriovenous fistula two needles less than 5 cm distance increase vascular recirculation rate and affect dialysis performance? Taiwan Evidence-Based Nurse Association - The first promotion of quality care competition. Taipei Veterans General Hospital, Taipei, Taiwan. (Poster)
- Liang, S. Y., Ding, S. A., **Wu, S. F.**, & Lu, Y. Y. (Jun. 27-29, 2013). The relationship between opioid-taking self-efficacy and quality of life in Taiwanese oncology outpatients. The International Symposium on Supportive Care in Cancer. Berlin, Germany. (Poster)
- Ji, W. Y. & **Wu S. F. V.** (2013, May 18-23). Family members' experiences of accompanying patients in adult ICU. *Equity and Access to Health Care*. ICN 25<sup>th</sup> Quadrennial Congress, Melbourne Australia. (Oral)

## **SPEECHES AND TALKS**

1. Keynote speaker, For the precision care of the elderly, an interdisciplinary talent training mechanism combining courses and certificates (2022.06.17). *Interprofessional Education – Will*

*the Metaverse reshape the Vein of Medical Education*. Taipei Veterans General Hospital, Taipei, Taiwan.

2. Cultivate interdisciplinary talents for precision care & Instrument Development (2022.06.13). 2022 UNIMUS - INTERNATIONAL VISITING PROFESSOR SERIES, Universitas Muhammadiyah Semarang, Semarang, Indonesia. (virtual).
3. Literature review to investigate the definition conception and clinical application of precision healthcare (2021.03.09). Tokyo Metropolitan University, Tokyo, Japan. (virtual).
4. Develop an interdisciplinary or trans-national research collaboration project (2020.10.08). National Cheng Kung University, Tainan, Taiwan.
5. Self-management program for people with chronic diseases: Testing theory & developing instruments (2019.10.24-26). *International Perspectives in Nursing Education*. International Nursing Education Congress, Atatürk University, Palandöken, Turkey.
6. Facing aging: Effects of self-management program on people with chronic diseases (2018.10.27). *Chronic Illness Management: Focused on Innovation, Collaboration & Diversity*. The 12th International Nursing Conference, Korea University, Seoul, Korea.
7. Keynote speaker, Taiwanese Association of Diabetes Educators (2016.10.30), Taipei, Taiwan.
8. Training and application experience of two-stage self-management improvement program for diabetes in Taiwan (2016.10.30). Taipei International Convention Center (TICC), Taipei, Taiwan.
9. Medical Needs, prevention, and care of populations requiring long-term care (2016.09.19). Evergreen International Convention Center, Taipei, Taiwan.
10. Plan to cultivate long-term care personnel under the education system (2016.07.15). The education training course: Development of Gerontological medical and care by the Second Gerontology and Health Integration Research Center. Evergreen International Convention Center, Taipei, Taiwan.
11. Clinical nursing syllabus design (2016.06.30-2016.07.03). Xiamen Medical College, Xiamen, China.
12. Case study and nursing clinical application workshop in the school of nursing, National Taipei University of Nursing and Health Sciences (2016.06.08). National Taipei University of Nursing Health Sciences (NTUNHS), Taipei, Taiwan.
13. Industry-Academic Cooperation Experience (2016.05.30). Kaohsiung Medical University, Kaohsiung, Taiwan.
14. Effects of self-management program on people with chronic diseases (2015.04.24). Taipei Medical University, Taipei, Taiwan.
15. Keynote speaker, Taiwanese Association of Diabetes Educators, 2013.07.07.
16. Family members' experiences of accompanying patients in adult ICUs (2013.05.18-23). Melbourne, Australia.

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## Curriculum Vitae

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**Hsiao-Ling Huang, MPH, Dr.PH**  
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2159/ 0920-149-501  
Email: hhuang@kmu.edu.tw



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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
- 2023 – 2025: President, Taiwan Academy for Dental Hygiene, 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
- 

## HONOR AND AWARDS

- Research Achievement Award for Annual Grants: Kaohsiung Medical University, Kaohsiung, Taiwan **2013-2022**.
  - Junior Leader in Global Health Award: Tulane SPHTM Centennial **2012**, USA **2012/11/11**
  - 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.
- 

## SELECTED PUBLICATIONS (2019~2022)

1. 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** Nov; 49:121.
2. 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.
3. 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.
4. 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.

5. 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.
6. 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** November 8, 21(1):573
7. 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
8. 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.
9. 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
10. 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.
11. Lee H, Ho PS, Wang WC, Hu CY, Lee CH, **Huang HL\***. Effectiveness of a Health Belief Model Intervention Using a Lay Health Advisor Strategy on Mouth Self-Examination and Cancer Screening in Remote Aboriginal Communities: A Randomized Controlled Trial. *Patient Educ Couns.* **2019** Dec;102(12):2263-2269.
12. Hsu YJ, Lin KD, Chen JH, Lee MY, Lin YC, Yen FC\*, **Huang HL\***. Periodontal Treatment Experience Associated with Oral Health-Related Quality of Life in Patients with Poor Glycemic Control in Type 2 Diabetes: A Case-Control Study. *Int J Environ Res Public Health* **2019** Oct 19; 16(20):4011
13. Lin JH, Huang YK, Lin KD, Hsu YJ, Huang WF\*, **Huang HL\***. Randomized Controlled Trial on Effects of a Brief Clinical-Based Intervention Involving Planning Strategy on Self-Care Behaviors in Periodontal Patients in Dental Practice. *Int J Environ Res Public Health* **2019** Oct 11; 16(20):3838
14. Lin YC, Chang CS, Ho PS, Lee CH, Chen JH, **Huang HL\***. Immigrant-Native Differences in Sugar-Sweetened Beverage and Snack Consumption and Preventive Behaviors Associated with Severe Early Childhood Caries: A Large-Scale Survey in Taiwan. *Int J Environ Res Public Health* **2019** Mar 22;16(6): E1047
15. **Huang HL**, Peng WD, Ling YC, Lee CH, Hu CY, Huang ST\*. Gender-specific Factors Associated with the Suicidal Ideation of Children in Taiwan: A Large-Scale Cross-Sectional Study. *Int J Psychol* **2019** Feb; 54(1):53-60

## Curriculum Vitae

Professor Shih-Ming Weng, MD, MSc, PhD

Current Address: No. 365, Ming-te Road, Taipei, Taiwan

E-mail: [shihming@ntunhs.edu.tw](mailto:shihming@ntunhs.edu.tw)



### I. Education

1. Postgraduate: (September 2007-January 2012)

Degree conferred: Doctor of Philosophy (PhD), Institute for Neuroscience and Psychology, School of Life Sciences, College of Medical, Veterinary, and Life Sciences, University of Glasgow, United Kingdom

Thesis Title: "Characterization of anatomical and functional deficits in a mouse model of Rett Syndrome"

2. Postgraduate: (September 2001-June 2005)

Degree conferred: Master of Science (MSc), Graduate Institute of Cell and Molecular Biology, Taipei Medical University (TMU), Taiwan

Thesis Title: "Isolation and Characterization of Stem/ Progenitor Cells from Human Amnion"

### II. Certificates

1. Certificate of Physician (since 2000)

2. Certificate of Pediatrician and member of Taiwan Pediatric Association (since 2003)

3. Certificate of Child Neurologist and member of Taiwan Child Neurology Society (since 2005)

### III. Employment

1. Feb 2018-Present: Associate professor, Department of Speech Language Pathology and Audiology, National Taipei University of Nursing and Health Sciences (NTUNHS), Taipei, Taiwan

2. September 2016-Jan 2018: Assistant professor, Department of Speech Language Pathology and Audiology, NTUNHS, Taipei, Taiwan

3. August 2015-Jan 2018: Medical reviewer, Center for Drug Evaluation, Taiwan

4. November 2015-Present: Pediatric Neurology Attending Physician, Department of Pediatrics, Taiwan Adventist Hospital, Taipei, Taiwan

5. July 2013-June 2015: Postdoctoral researcher, Peter Jonas group, Institute of Science and Technology, Austria

6. April 2012-April 2013: Postdoctoral researcher, Deutsches Zentrum fuer Neurodegenerative Erkrankungen (DZNE)-Standort Muenchen, Ludwig-Maximilians-Universitaet Muenchen (LMU), Munich, Germany



## **From Neurodevelopment to Pediatric Swallowing Disorders, Viewpoints of Child Neurologists**


Pediatric swallowing disorders are predominantly of neurologic origin but greatly influenced by anatomical structure and function, general health, and a variety of environmental factors. The purpose of our talk is to provide an overview of important neurodevelopmental aspects of swallowing and feeding. We will include a brief introduction of childhood central nervous system development and associated swallowing and feeding skills, also neurodevelopmental history and examination methods. Human brain development is a prolonged process that begins in the third gestational week and extends through the life span. Complex molecular events of gene expression and environmental input interact to guide brain development through the traditional embryonic, fetal, and postnatal periods. Disruption of the neurodevelopmental processes can significantly alter original pathological outcomes and shed a light of future therapeutic strategies.

## 簡歷

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		英	Sui-wen Lin	E-MAIL	swlin@ctcn.edu.tw
	學歷	國立陽明大學生理所博士			
	專長	生理學、解剖學、病理學			
	現職	耕莘健康管理專科學校校長暨副教授(2015/08~迄今)			
<b>經 歷</b>	<ul style="list-style-type: none"> <li>➤ 教育部第 12 屆私立學校諮詢會委員(2021/05~迄今)</li> <li>➤ 天主教光仁學校財團法人董事(2017~迄今)</li> <li>➤ 天主教耕莘醫院董事(2015~迄今)</li> <li>➤ 教育部第 11 屆私立學校諮詢會委員(2020/03~2021/05)</li> <li>➤ 宜蘭縣政府十二年國民基本教育規畫推動小組及高等中等學校入學推動工作小組(2017/08~2018/07)</li> <li>➤ 宜蘭縣政府 106 年全國運動會籌備處委員(2017/07~2017/10)</li> <li>➤ 耕莘健康管理專科學校副校長暨副教授(2012/09~2015/07)</li> <li>➤ 耕莘健康管理專科學校教務主任暨副教授(2008/08~2012/07)</li> <li>➤ 康寧護專專任副教授兼任護理科副主任(2008/01~07)</li> <li>➤ 康寧護專專任副教授(2007~2008)</li> <li>➤ 康寧護專專任講師(1999~2006)</li> <li>➤ 康寧護專專任講師兼註冊組組長(1997~1999)</li> <li>➤ 康寧護專專任講師兼課務組組長(1996~1997)</li> <li>➤ 弘光護專專任講師(1994~1996)</li> <li>➤ 康寧護校專任教師(1989~1992)</li> <li>➤ 康寧護校臨床指導老師(1988~1989)</li> <li>➤ 聖母護校專任教師(1987~1988)</li> </ul>				

# Curriculum Vitae

## 1. Personal information

Chinese Name	李碧娥	English Name	Bih-O (Becky) Lee			
Nation	Taiwan (R.O.C.)	Gender	Female	Year of Birth		
Address	College of Nursing, Kaohsiung Medical University, No. 100, Shiquan 1st Rd., Sanmin Dist., Kaohsiung City 807378, Taiwan (R.O.C.)					
Tel	(O)886-7-312-1101 ext.2625					
Fax	(O)886-7-312-1101	E-mail	biholee@kmu.edu.tw			

## 2. Education

School	Nation	Major	Degree	Graduate Date
Griffith University	Australia	Nursing	PhD	2005/02-2008/05
Kaohsiung Medical University	Taiwan	Nursing	Master Degree	1997/09-1999/06
Chang Gung University	Taiwan	Nursing	Bachelor Degree	1992/09-1995/06

## 3. Current Work Experience/Employment History

Organization	Department	Position Title	Year
Kaohsiung Medical University	College of Nursing	Dean	2019/08-present

Kaohsiung Medical University	Nursing PhD program, School of Nursing	Director	2019/08-present
Kaohsiung Medical University	School of Nursing	Professor	2018/08-present
University of Minnesota in USA	School of Nursing	Affiliate Faculty	2022/02-present
Kaohsiung Medical University	Center for Medical Education and Humanizing Health Professional Education	Deputy Director	2021/09-present
National Chung Cheng University	Center for Innovative Research on Aging Society	Adjunct Research Fellow	2022/08-2024/12
<b>Employment History</b>			
Kaohsiung Medical University Chung-Ho Memorial Hospital	Nursing Department	Deputy Director	2018/08-2019/07
Chang Gung University of Science and Technology, Chia-Yi Campus	Nursing Department	Head of Nursing Department	2017/02-2018/07
Chang Gung University of Science and Technology, Chia-Yi Campus	Department of Nursing	Professor	2016/08-2017/01
Chia-Yi Chang Gung Memorial Hospital	Nursing Department	Academic Consultant of the Nursing Department	2015/08-2017/07
Chang Gung University of Science and Technology, Chia-Yi Campus	Department of Nursing	Associate Professor	2009/10-2013/01
Chung Hwa University of Medical Technology	Department of Nursing	Head & Associate Professor of Nursing Department	2009/02-2009/09
Chung Hwa University of Medical Technology	Department of Nursing	Assistant Professor	2007/02-2009/01

#### 4. Research Specialty

1. Interdisciplinary research in AI design	2. Trauma research	3. Precision health	4. Nurse education
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## Recent 5 years paper in English (\* corresponding author)

1. Tonapa, S. I., Mulyadi M., Yusuf, A., & \*Lee, B. O. (2023, Apr). Longitudinal association among illness perceptions, coping, and quality of life after extremity injury. Accepted by Orthopaedic Nursing.
2. Mulyadi, M., Harianto, S., Tonapa, S. I., & \*Lee, B. O. (2023, Jan). Early quality of life changes in mild traumatic brain injury: a prospective study. Accepted by Journal of Trauma Nursing.
3. Saragih, I. D., Wei, C. W., Batubara, S. O., Saragih, I. S., & \*Lee, B. O. (2023, Jan). Effects of technology-assisted interventions for people with dementia: A systematic review and meta-analysis. *Journal of nursing scholarship : an official publication of Sigma Theta Tau International Honor Society of Nursing*, 55(1), 291–303.  
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## Augmented and Virtual Reality System in Oral Care Training

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The use of augmented and virtual reality (AR/VR) technology in higher education has been regarded as a promising development because its combination of immersive and interactive features enables experiential learning. The coronavirus disease 2019 (COVID–19) pandemic has caused increasing challenges for healthcare professionals globally. The VR/AR training system enables learners to learn on their own, even in the midst of the COVID–19 pandemic. This talk will provide the effectiveness of using AR/VR training system on geriatric oral care performance among oral hygiene student and health care assistants (HCAs).

For dental hygiene students, a randomized controlled trial was conducted. We recruited 23 students from third grade of Department of Oral hygiene students in Kaohsiung Medical University during 2021 academic semester. The participants were randomly assigned to experimental (EG; n = 11) and control (CG; n = 12) groups. The students in EG received a 2-hour intervention of VR training for elderly oral health care at 2-week (Time 1), 4-week (Time 2) and 6-week (Time 3) follow-ups. After intervention, the EG exhibited a more significant improvement in oral care–related knowledge ( $\beta = 1.19$ ), attitude ( $\beta = 2.89$ ), and self-efficacy ( $\beta = 4.98$ ) at Time 4 than the CG did. The students' intention to assist the elderly in using the Bass brushing technique ( $\beta = 0.63$ , ES = 0.78), assist the elderly in using interdental brushes ( $\beta = 0.73$ , ES = 1.34), assist the elderly with soft tissue cleaning ( $\beta = 0.71$ , ES = 1.01), recommend proper tools for oral care to the elderly ( $\beta = 0.53$ , ES = 0.96) and their caregivers ( $\beta = 0.62$ , ES = 1.13), evaluate the suitability of oral care tools for the elderly ( $\beta = 0.64$ , ES = 1.10), remind the elderly to have regular dental visits ( $\beta = 0.62$ , ES = 1.13), and assist the elderly with oral desensitization before commencing an oral care session ( $\beta = 0.71$ , ES = 0.93) improved significantly at Time 3. The VR training had a positive effect on the oral hygiene students' knowledge, attitude, and self-efficacy of oral health care.

For HCAs study, we combined an AR toothbrush training system and VR-based training system with the aim of improving the geriatric oral care performance. Overall, 80 certificated HCAs were randomly assigned to a VR/AR group (n = 40) or control group (n = 40). HCAs in the VR/AR group received 2.5 hours of combining VR and AR simulation training on geriatric oral care. The students in the CG did not receive any interventions. Compared with the control group, the level of oral care-related knowledge ( $\beta = 2.55$ , ES = 1.62), attitude toward oral care ( $\beta = 2.15$ , ES = 0.54), self-efficacy of oral care ( $\beta = 4.23$ , ES = 0.75), and intention to assist in oral care behaviors ( $\beta = 2.10$ , ES = 0.55) in the VR/AR group significantly increased at the post-test. The combined use of AR/VR simulation system to train HCAs can effectively improve the oral care ability of the elderly.

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<b>計畫執行:</b> (請加入您所執行之相關計畫、專題研究案、改進教學案等)	<b>一、研究案</b> 科技部專題研究計畫 MOST 109-2637-M-514-001 - 一化學防曬劑組合及脂質奈米載體包覆劑型之效益探討 科技部專題研究計畫 MOST 106-2113-M-514-001 - 一以貼布剝離法結合現代質譜法進行「仿曬劑」反應的研究 科技部專題研究計畫 MOST 105-2113-M-514-001 - 一應用現代質譜法進行有機防曬劑的光穩定性探討及經皮穿透影像分析	

	<p>108年度校內教師專題研究案 (106 S-05) —利用各式方法分析精油並探討萃取方式之影響</p> <p>106年度校內教師專題研究案 (106 S-06) —以熱脫附電噴灑游離質譜法分析頭髮用品中之有害成份</p> <p>105年度校內教師專題研究案 (105 S-01) —以質譜法快速分析皮膚保養品中的有效成份</p> <p>104年度校內教師專題研究案 (104 S-01) —以質譜法快速分析皮膚保養品中的有效成份</p> <p>102年度校內教師專題研究案 (102 S-08) —以基質輔助雷射脫附游離質譜法分析化妝品中的荷爾蒙、抗菌劑及塑化劑</p> <p><b>二、改進教學案</b></p> <p>103 年度校內教師改進教學案 (103 I-08) —走進有機化學的世界</p> <p>102 年度校內教師改進教學案 (102 I-06) —提高「有機化學」課程中「生物化學」單元之學習成果 —參觀科工館「生物科技廳」</p>
<p><b>論文著作：</b> <b>(由近至遠)</b></p>	<ol style="list-style-type: none"> <li>1. <u>Yi. T. Cho</u>,* H. Su, C. Y. Wu, J. Jeng, C. W. Lee, D. C. Wu, T. L. Huang, J. Shiea* <b>2022</b> “The Study of Distribution of Ingested Terbinafine on Skin with Ambient Ionization Tandem Mass Spectrometry” <i>J. Food Drug Anal.</i> 30, 2 , 303-315 (SCI, IF=6.157)</li> <li>2. <u>Yi. T. Cho</u>,* H. Su, C. Y. Wu, T. L. Huang, J. Jeng, M. Z. Huang, D. C. Wu, J. Shiea* <b>2021</b> “Molecular Mapping of Sebaceous Squalene by Ambient Mass Spectrometry” <i>Anal. Chem.</i> 93, 16608–16617 (SCI, IF=8.008)</li> <li>3. H. Su, T. L. Huang, C. T. Chi, <u>Yi. T. Cho</u>, C. W. Lee, J. Jeng, J. Shiea* <b>2021</b> “Molecular cartography of residue pesticides on grape surface in 3D by ambient ionization tandem mass spectrometry”<i>J. Food Drug Anal.</i> 29, 4 , 751-763 (SCI, IF=6.157)</li> <li>4. J. Jeng,* Z. H. Jiang, <u>Y. T. Cho</u>, H. Su, C. W. Lee, J. Shiea* <b>2020</b> “Obtaining Molecular Imagings of Pesticide Residues on Strawberry Surfaces with Probe Sampling Followed by Ambient Ionization Mass Spectrometric Analysis” <i>J. Mass Spectrom.</i> 56, 4 (SCI, IF=2.394)</li> </ol>



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8. Y. T. Cho, H. Su, Y. Y. Chiang, J. Shiea,\* S. S. F. Yuan, W. C. Hung, Y. T. Yeh, M. F. Hou. **2017** “Fine Needle Aspiration Combined with Matrix-Assisted Laser Desorption Ionization Time-of-Flight/Mass Spectrometry to Characterize Lipid Biomarkers for Diagnosing Accuracy of Breast Cancer” *Clin. Breast Cancer* 17, 5, 373–381.e1 (SCI, IF=3.078)
9. Y. T. Cho\*, H. Su, S. J. Lin, B. H. Wu, C. Y. Lai, I. C. Huang. **2016** “Using Thermal Desorption Electrospray Ionization Mass Spectrometry to Rapidly Determine Antimicrobial Preservatives in Cosmetics” *Rapid Commun. Mass Spectrom.* 30, 21, 2315–2322 (SCI, IF=2.586)
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	<p><b>一、 研討會論文</b></p> <p>卓怡孜, 「多變量統計分析於質譜資料處理之應用」, 第八屆台灣質譜學會學術研討會暨2011質譜年會 (全文論文) p276-286</p>
	<p><b>二、 專利</b></p> <p>1. “Methods of Analyzing Peptide Mixtures” United States Patent. Patent No.: US 8,497,630 B2.</p> <p>2. “Real-time monitor solid phase peptide synthesis by mass spectrometry” United States Patent. Patent No.: US 8,835,179 B2</p> <p>3. 「活體外檢測膀胱癌之方法及系統 (METHOD FOR DETECTING BLADDER CANCER IN VITRO)」。中華民國發明專利, 專利號: I487911。</p> <p>4. 「即時監測固相胜肽合成反應之質譜系統」。中華民國發明專利, 專利號: I510781。</p> <p>5. 「分析胜肽混合物之方法」。中華民國發明專利, 專利號: I613447。</p>
	<p><b>三、 專書</b></p> <p>1. 吳玉琛等合著 (民 105)。化學-基本概念與應用。台北: 華杏。</p> <p>2. 丁望賢等合著 (民 105)。質譜分析技術原理與應用。台北: 全華。</p> <p>3. 吳玉琛等合著 (民 102)。化學。台北: 華杏。</p> <p>4. 曹文正等合著 (民 100)。新編普通化學。台中: 華格那。</p> <p>5. 柯清彬等合著 (民 93)。普通化學。台中: 華格那。</p> <p>6. 王凱平等合著 (民 91)。化學。台中: 華格那。</p>
<p><b>其他事項:</b></p>	<p><b>一、 獎項及榮譽</b></p> <p>1. 108 年度「優良教材教具製作競賽」教材類優等。</p> <p>2. 106 學年度教學評量績優良教師。</p>

	<p>3. 103 學年度教學優良教師。</p> <p>4. 102 學年度教學評量績優良教師。</p> <p><b>二、參與研討(習)會及國際會議</b></p> <p>Oral Presentation:</p> <ol style="list-style-type: none"> <li>1. <u>Yi-Tzu Cho</u>, “Directly Characterizing Disease Biomarkers in Biofluids with Matrix-Assisted Laser Desorption Ionization/Time-of-Flight Mass Spectrometry” Mass Spectrometry for Clinical Diagnosis and Related Research Symposium (Nov 1-2, 2013, Kaohsiung, Taiwan)</li> <li>2. <u>Yi-Tzu Cho</u>, Jentaie Shiea* “Rapid Analysis of Bacteria and Fungi by Using Electrospray Laser Desorption (ELDI) Mass Spectrometry” 第八屆台灣質譜學會學術研討會暨2011質譜年會 (Jul 10-12, 2011)</li> <li>3. <u>Yi-Tzu Cho</u>, Jentaie Shiea* “Direct Characterization of the Proteins Stored in Solutions by Liquid Electrospray Laser Desorption Ionization (ELDI) Mass Spectrometry” 第十七屆分析化學技術交流研討會. (May 14-15, 2011)</li> <li>4. <u>Yi-Tzu Cho</u>, Jentaie Shiea,* “Using MALDI/TOF to Characterize Carcinogenicity of Helicobacter Pylori Strain” 2010台灣質譜學會第七屆學術研討會 (Jun 27-29, 2010)</li> <li>5. <u>Yi-Tzu Cho</u>, Jentaie Shiea,* “On-line HPLC with H/D Exchange in Liquid Electrospray-Assisted Laser Desorption Ionization Mass Spectrometry for The Analysis of Protein Mixture” 第十五屆分析化學技術交流研討會. (May 16, 2009)</li> </ol> <p>Poster Presentation:</p> <ol style="list-style-type: none"> <li>1. <u>Yi-Tzu Cho</u>, *Shu-Qing Liu, Ching-Fang Chang and Li-Xiang Zhao “The Study of the Photoreactions of the Combination of Organic UV-filters” 2021 化學年會 (Mar . 12-14, 2021, Taoyuan, Taiwan)</li> <li>2. <u>Yi-Tzu Cho</u>, * Hung Su, Chia-Wei Liu, Wei-Ling Chen, Yu-Han Hong “Detection of Oxygenated Heterocyclic Compounds in Essential Oils” 2020 年第十七屆台灣質譜學會年會 17th Annual Conference of the Taiwan Society for Mass Spectrometry, (Sep. 1-3, 2020, Chiayi, Taiwan)</li> <li>3. 翁華均,方祺圍,張家琦,蘇鴻,陳婉瑩,江郁旻,卓怡孜,* “仿曬劑之梅納反應的作用探討” 第十五屆台灣質譜學會年會暨第七屆世界華人質譜研討會 15th TSMS Annual Conference &amp; 7th World Chinese Mass Spectrometry Conference (Jul 18-20, 2018, Taipei, Taiwan)</li> <li>4. <u>Yi-Tzu Cho</u>, * Hung Su, I-Ching Huang, Ching-Yu Lai, You-Da Tsai. “Using Thermal Desorption Electrospray Ionization Mass Spectrometry to Study Photostability of Organic UV-Filters” 2017中國化學年會 (Dec 01-02, 2017, Chiayi, Taiwan)</li> <li>5. <u>Yi-Tzu Cho</u>, Hung Su, Jia-Ming Lin, Yang-Kuan Pan, Yu-Hsuan Kuo, Jentaie Shiea,* “Whole-Body Imaging of Sebaceous Squalene by Ambient Mass Spectrometry” 2017 Mass Spectrometry for Clinical Diagnosis Conference (MSCD 2017) (Oct 13-15, 2017, Kaohsiung, Taiwan)</li> <li>6. <u>Jentaie Shiea</u>, Hung Su, Yu-Hsuan Kuo, Yang-Kuan Pan, Yi-Tzu Cho,* “Imaging of Sebaceous Cholesterol on Human Face by In-situ</li> </ol>
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	<p>Probe Sampling and Thermal Desorption Electrospray Ionization Mass Spectrometry” 2017 Mass Spectrometry for Clinical Diagnosis Conference (MSCD 2017) (Oct 13-15, 2017, Kaohsiung, Taiwan)</p> <p>7. <u>Yi-Tzu Cho</u>, Hung Su, Yi-Yan Chiang, Jentaie Shiea, Shyng-Shiou F. Yuan, Wen-Chun Hung, Yao-Tsung Yeh, Ming-Feng Hou* “Fine Needle Aspiration Combined with Matrix-Assisted Laser Desorption Ionization Time-of-Flight/Mass Spectrometry to Characterize Lipid Biomarkers for Diagnosing Accuracy of Breast Cancer” 2017 Mass Spectrometry for Clinical Diagnosis Conference (MSCD 2017) (Oct 13-15, 2017, Kaohsiung, Taiwan)</p> <p>8. 黃蕙靜, 賴馨好, 謝承芳, 陳芄芸, 黃雅慈, 李雨樺, 卓怡孜* “以現代質譜法及紫外線光譜法進行防曬劑光穩定性探討” 第十四屆台灣質譜學會年會暨2017年學術研討會 14 th Annual Conference of the Taiwan Society for Mass Spectrometry (Jun 28-30, 2017, Taichung, Taiwan)</p> <p>9. 李家妘, 楊卉蘋, 蔡忻慈, 林芷璇, 陳孟琳, 柳俐安, 林欣怡, 李宜庭, 卓怡孜* “以質譜法及防曬係數測定法進行不同劑型防曬品之光穩定性探討” 第十四屆台灣質譜學會年會暨2017年學術研討會 14 th Annual Conference of the Taiwan Society for Mass Spectrometry (Jun 28-30, 2017, Taichung, Taiwan)</p> <p>10. 趙雅馨, 黃姿寧, 蕭郁萱, 邱芊慈, 張簡郁軒, 林妤芝, 陳嫻好, 卓怡孜* “以貼布剝離法結合大氣壓力游離質譜法進行防曬品之經皮穿透探討” 第十四屆台灣質譜學會年會暨2017年學術研討會 14 th Annual Conference of the Taiwan Society for Mass Spectrometry (Jun 28-30, 2017, Taichung, Taiwan)</p> <p>11. <u>Yi-Tzu Cho</u>,* Hung Su, Shiang-Jiun Lin, Zing-Rong Chen, Yu-Jiy Lin, Pen-Yun Chen, Jentaie Shiea* “Monitoring the Residual of Risky Cosmetics Ingredients on the Human Body by in-situ Sampling and TD-ESI/MS” 13th Taiwan Society for Mass Spectrometry Annual Conference (July 27-29, 2016, Kaohsiung, Taiwan)</p> <p>12. 郭育萱, 蘇鴻, 謝建台, 黃蕙靜, 賴馨好, 謝承芳, 黃雅慈, 卓怡孜* “熱脫附電噴灑游離質譜法快速檢測市售化妝品中的美白成份” 13th Taiwan Society for Mass Spectrometry Annual Conference (July 27-29, 2016, Kaohsiung, Taiwan)</p> <p>13. <u>Yi-Tzu Cho</u>,* Ban-Hsin Wu,<sup>2</sup> Hung Su, Shiang Jiun Lin, Jentaie Shiea “Using Thermal Desorption Electrospray Ionization Mass Spectrometry to Rapidly Determine Antimicrobial Preservatives in Cosmetics” 12th Taiwan Society for Mass Spectrometry Annual Conference (July 13-15, 2015, Hsinchu, Taiwan)</p> <p>14. <u>Yi-Tzu Cho</u>, * Ban-Hsin Wu, Hung Su, Jentaie Shiea* “TD-ESI/MS and MALDI-TOF/MS for Rapid Characterization of Cosmetic Products” (Jun 29- Jul 1, 2014, Taichung, Taiwan)</p> <p>15. <u>Yi-Tzu Cho</u>, Jentaie Shiea* “Semi-Quantitative Diagnoses of Albuminuria by MALDI-TOF Mass Spectrometry” 4th Asia Oceania Mass Spectrometry Conference &amp; 10th Taiwan Society for Mass Spectrometry Annual Conference (Jul 10-12, 2013, Taipei, Taiwan)</p> <p>16. <u>Yi-Tzu Cho</u>, Chu-Nian Cheng, Hung Su, Jentaie Shiea* “Using Thin Layer Chromatography Spray (TLC spray) Ionization Mass</p>
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	<p>Spectrometry to Analyze Drugs in Whole Blood” 19th International Mass Spectrometry Conference (Sep 15-21, 2012, Kyoto, Japan)</p> <p>17. <u>Yi-Tzu Cho</u>, Yi-Yan Chiang, Jentaie Shiea, * Pei-Yung Nien, Yia-Fung Huang, Ming-Feng, Hou, “Using MALDI-TOF/MS Combined with Molecular Imaging for Breast Cancer Diagnosis” (Sep 30- Oct 1, 2011, Kaohsiung, Taiwan)</p> <p>18. <u>Yi-Tzu Cho</u>, Jentaie Shiea* “Rapid Characterization of the Proteins Stored in Various Solutions by Liquid Electrospray Laser Desorption Ionization (ELDI) Mass Spectrometry” The 2<sup>nd</sup> Asin &amp; Oceanic Mass Spectrometry Conference (Aug 17-19, 2011, Busan, Korea)</p> <p>19. <u>Yi-Tzu Cho</u>, Jentaie Shiea* “Direct Characterization of the Proteins Stored in Solutions by Liquid Electrospray Laser Desorption Ionization (ELDI) Mass Spectrometry” The 59th ASMS Conference on Mass Spectrometry. (Jun 05-09, 2011)</p> <p>20. <u>Yi-Tzu Cho</u>, Jentaie Shiea* “Direct Characterization of the Proteins Stored in Solutions by Liquid Electrospray Laser Desorption Ionization (ELDI) Mass Spectrometry” 2011 Taiwan –Russia Research Cooperation symposium (Apr 25-26, 2011)</p> <p>21. <u>Yi-Tzu Cho</u>, Jentaie Shiea* “Using Matrix-assisted Laser Desorption Ionization Mass Spectrometry Combined with Statistical Software to Rapidly Diagnose Albuminuria” 2009 中國化學年會. (Dec 03-05, 2010)</p> <p>22. <u>Yi-Tzu Cho</u>, Yu-Syuan Chen, Yi-Yan Chiang, Jentaie Shiea,* “Using MALDI-TOF MS Combined with multivariate Statistics to Classify ER and HER2 Status in Breast Cancer Cell Lines” 2010 Kaohsiung International Cancer Symposium. (Nov 20-21, 2010)</p> <p>23. <u>Yi-Tzu Cho</u>, Jentaie Shiea* “Determination of Rapid H/D Exchange Number of Proteins in different pH by Electrospray Laser Desorption Ionization (ELDI)” The 1<sup>st</sup> Asian and Oceanic Mass Spectrometry Conference. (Jun 15-18, 2010)</p> <p>24. <u>Yi-Tzu Cho</u>, Jentaie Shiea* “Examination of the Protein Molecules Stored in Various Solutions by Liquid Electrospray Laser Desorption/Ionization (ELDI) Mass Spectrometry” 2009中國化學年會. (Dec 04-06, 2009)</p> <p>25. <u>Yi-Tzu Cho</u>, Jentaie Shiea* “Detection of H/D and D/H Exchange of Proteins in Solid and Liquid States by Electrospray-Assisted Laser Desorption Ionization (ELDI) Mass Spectrometry”第六屆物理與化學女性學者聯合研討會 (Oct 31-Nov 01, 2009)</p> <p>26. <u>Yi-Tzu Cho</u>, Jentaie Shiea,* “On-line H/D Exchange for the Analysis of Protein Mixture using HPLC combined with Electrospray-Assisted Laser Desorption Ionization Mass Spectrometry” 18th International Mass Spectrometry Conference. (Aug30-Sep 04, 2009)</p> <p>27. <u>Yi-Tzu Cho</u>, Jentaie Shiea,* “On-line HPLC with H/D Exchange in Liquid Electrospray-Assisted Laser Desorption Ionization Mass Spectrometry for The Analysis of Protein Mixture” 台灣質譜學會學術研討會暨2009質譜年會. (Dec 13, 2009)</p> <p>28. <u>Yi-Tzu Cho</u>, Jingyueh Jeng, Jentaie Shiea,* “On-line HPLC with H/D Exchange in Liquid Electrospray-Assisted Laser Desorption Ionization Mass Spectrometry for the Analysis of Protein Mixture” The 57th</p>
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	<p>ASMS Conference on Mass Spectrometry. (May 31-Jun 4, 2009)</p> <p>29. <u>Yi-Tzu Cho</u>, Min-Zong Huang, Li-Jie Wu, Yu-Syuan Chen, Jentaie Shiea,* "Rapid Drug Tablets Analysis by Electrospray-assisted Laser Desorption Ionization (ELDI) Mass Spectrometry" 2008 中國化學年會. (Dec 05-07, 2008)</p> <p>30. <u>Yi-Tzu Cho</u>, Jentaie Shiea,* "Rapid Detection of Albumin in Urine by Matrix-Assisted Laser Desorption Ionization/Time-of-Flight Mass Spectrometry" 2008 台北國際分析化學會議 (2008 ICCT: Analytical Chemistry). (Oct 02-05, 2008)</p> <p>31. <u>Yi-Tzu Cho</u>, Che-Hsin Lin, Jentaie Shiea,* "Direct Analysis in Real Time/Mass Spectrometry for Continuously Monitoring the States of Ongoing Chemical Reactions Involved with Volatile Compounds" 第二屆世界華人質譜研討會暨 2008 台灣質譜年會. (Jun 26-27, 2008)</p> <p>32. <u>Yi-Tzu Cho</u>, Che-Hsin Lin, Jentaie Shiea,* "Direct Analysis in Real Time/Mass Spectrometry for Continuously Monitoring the States of Ongoing Chemical Reactions Involved with Volatile Compounds" The 56th ASMS Conference on Mass Spectrometry. (Jun 1-5, 2008)</p>
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高雄市衛生局居家口腔照護服務 口腔衛生師

**演講題目：**

(中文) 咀嚼吞嚥障礙者的口腔照護(台灣經驗)

(英文) Oral Care for Patients with Dysphagia in Taiwan.

**演講摘要：**

Taiwan has already stepped into an aging society. Due to the physical and psychological barriers and the difficulty or inconvenience of seeking medical care, oral hygiene of the elderly disabled, inconvenient people and long-term bedridden residents is worse than the general public whether in clinical or home care.

Poor oral hygiene can be fatal to patients with dysphagia and long-term care patients since they suffer from medically compromised diseases, frail status, physical disabilities and multi-disabilities, which can easily cause aspiration pneumonia.

Very high percentages of long-term care patients have choking experience or medical history of pneumonia, so the willingness of the caregiver to perform oral care is low due to high risk of oral care.

Caregivers cannot practice oral care efficiently without sufficient knowledge, attitude and care skill.


In order to improve the oral health and further enhance their general health, nutrition and quality of life, a comprehensive oral care strategy and skills is very important.



Although oral care is full of challenge, it can still be carried out as long as the care methods are correct.

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## EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Nanzan University, Nagoya, Aichi, Japan	BS	1995-1999	English and American Study
Nihon Chounou Gengo Fukushi Gakuin, Nagoya, Aichi, Japan (certified training college)		1999-2001	Speech Pathology
Fujita Health University, Toyoake, Aichi, Japan	Master	2008-2010	Rehabilitation (swallowing)
Fujita Health University, Toyoake, Aichi, Japan	PhD	2010-2014	Rehabilitation Medicine (Swallowing)

## Licentitate

LICENCE	DATE	REGISTRATION No.
National certified Speech-Language-Hearing Therapist	May, 2001	4725
Speech-Language-Hearing Therapist specialized Dysphagia	Jan, 2010	55

## Positions and Honors

ACTIVITY/OCCUPATION	BEGINNING DATE (mm/yy)	ENDING DATE (mm/yy)	FIELD	INSTITUTION/COMPANY	SUPERVISOR/ EMPLOYER
SLP	04/01	09/06	Rehabilitation	Kariya Toyota General Hospital	Kazuyo Oguchi, PhD
Visiting scientist	09/06	10/07	Rehabilitation	Johns Hopkins University	Jeffrey B. Palmer, MD
Adjunct instructor	04/08	03/10	Rehabilitation	Aichi Shikutoku University	
Part-time SLP	01/10	03/10	Rehabilitation	Kariya Toyota General Hospital	Kazuyo Oguchi, PhD
SLP	04/10	03/11	Rehabilitation	Fujita Heath University Hospital	Eiichi Saitoh, PhD
Senior assistant professor	04/11	03/15	Rehabilitation	Fujita Heath University	Eiichi Saitoh, PhD
Associate professor	04/15	12/18	Rehabilitation	Fujita Heath University	Eiichi Saitoh, PhD
Professor	01/19		Rehabilitation	Fujita Heath University	Eiichi Saitoh, PhD

## Academic and Professional Honors

- 2009 Researcher of the Year in 2009, The Society for Rehabilitation & Kinesiological Research in Fujita
- 2010 The best paper award in Scientific Abstract: Oral presentation, Japanese Society of Dysphagia Rehabilitation
- 2010 First Place in CT Aquilion ONE division, The Best Image 2010, Toshiba
- 2010 Outstanding performance award in Scientific Abstract: Oral presentation, Tokai General Medical Imaging

2013 Best Poster Presentation Award, The 2nd KOREA-JAPN NeuroRehabilitation Conference  
 2013 1st Place Scientific Abstract, 21th Dysphagia Research Society Annual Meeting  
 2013 Young investigator award, 7th International Society of Physical and Rehabilitation Medicine  
 2014 Best Paper Presentation Award, The 3rd KOREA-JAPAN NeuroRehabilitation Conference  
 2017 Best Poster Award, The 2<sup>nd</sup> Korea-Japan Dysphagia Joint Symposium  
 2018 Best Poster Award, The 7th KOREA-JAPN NeuroRehabilitation Conference

### Professional Membership/Societies

2001-present Japanese Association of Speech-Language-Hearing Therapists  
 2001-present Japanese Society of Dysphagia Rehabilitation  
 2009-present World Federation for NeuroRehabilitation (WFNR) & Japanese Society for Neural Repair and Neurorehabilitation (JSNRNR)  
 2011-present Councilor of Japanese Society of Dysphagia Rehabilitation  
 2012-present Dysphagia Research Society  
 2014-2016 ad-hoc international councilor of Dysphagia Research Society Board  
 2015-present Executive Board Members of Japanese Society of Dysphagia Rehabilitation  
 2016-present Japanese Association of Rehabilitation Medicine

### Platform Presentations (Last 3 years, English)

Inamoto Y, Saitoh E, Ito Y, Aoyagi Y, Kagaya H, Fujii N, Mulheren R, Palmer JB. Effect of Effortful Swallow on pharyngeal cavity volume with 10l honey-thick boluses. Kinematic analysis using 3D dynamic computed tomography. 26<sup>th</sup> Dysphagia Research Society Annual Meeting; Baltimore, USA. 2018.

Inamoto Y, Saitoh E, Kagaya H, Shibata S, Aoyagi Y, Tsuzuki H, Ito Y, Aihara K, Palmer JB. Adjustment of vocal cord for airway protection during swallowing: Kinematic analysis in three dimensions using dynamic area detector CT. 7<sup>th</sup> ESSD; Barcelona, Spain. 2017

Inamoto Y, Saitoh E, Ito Y, Kagaya H, Aoyagi Y, Shibata S, Aihara K, Palmer JB. Effect of Mendelshohn maneuver and Effortful swallow. Kinematic analysis using 3D dynamic computed tomography. 23th Japanese Society of Dysphagia Rehabilitation, Makuhari, 2017

Inamoto Y, Saitoh E, Tsuzuki H, Aoyagi Y, Kagaya H, Palmer JB: Effect of reclined posture and consistency on temporal and spatial aspects of swallow: Kinematic analysis using 3D dynamic CT. 54<sup>th</sup> Japanese Association of Rehabilitation Medicine, Okayama. 2017.

Inamoto Y, Saitoh E, Ito Y, Shibata S, Kagaya H, Naoko F, Palmer JB. Effortful swallow and its effects on pharyngeal swallow Kinematic analysis using 3D dynamic Computed Tomography. 25th Dysphagia Research Society Annual Meeting, 2017, Portland, USA

Inamoto Y, Saitoh E, Shibata S, Kagaya H, Ito Y, Palmer JB. Pharyngeal residue after swallow. Does area predict three dimensional volume? Analysis using 3D dynamic Computed Tomography. 24th Dysphagia Research Society Annual Meeting, 2016, Arizona, USA

Inamoto Y, Asami S, Saitoh E, Kagaya H, Shibata S, Aoyagi Y, Palmer JB. Does respiratory phase influence the anatomy of the pharynx and larynx? Analysis using 3D dynamic Computed Tomography. The 9th World Congress of the ISPRM, 2016, Kuala Lumpur, Malaysia

Inamoto Y, Saitoh E, Palmer JB, Dynamic morphology of upper esophageal sphincter during swallow. 1st Japan-Korea Joint Dyaphagia Meeting, 2016, Niigata, Japan

Inamoto Y, Saitoh E, Aoyagi Y, Shibata S, Kagaya H, Itoh Y, Hara K, Matsuo K, Fujii N, Palmer JB: Analysis of swallowing maneuvers by using 3D dynamic Computed Tomography Part 2. Mendelsohn maneuver in dysphagic patients. The 9th World Congress of the ISPRM, 2015, Berlin, Germany

Inamoto Y: New perspectives on swallowing maneuvers. The 1st Asia-Oceania Congress for NeuroRehabilitation, 2015, Seoul, Korea

Inamoto Y, Saitoh E, Palmer JB, Aoyagi Y, Shibata S, Kagaya H, Itoh Y, Kagaya H, Katada K: Analysis of Mendelsohn maneuver in dysphagic patients using 3D dynamic Computed Tomography. 21th Annual meeting of Japanese Society of Dysphagia Rehabilitation, 2015, Kyoto, Japan

Inamoto Y. D dynamic visualization of swallowing from multi-slice computed tomography. 3rd European Congress of NeuroRehabilitation, 2015, Viena, Austria.

Inamoto Y, Saitoh E, Shibata S, Aoyagi Y, Kagaya H, Ota K, Itoh Y, Okada T. Understanding the pathophysiology of dysphagia using 320-row Area Detector CT. The 3rd KOREA-JAPAN NeuroRehabilitation Conference, 2014, Busan, Korea

Inamoto Y, Saitoh E, Shibata S, Kagaya H, Aoyagi Y, Onogi K, Katada K, Palmer JB. Thin liquid bolus volume alters pharyngeal swallowing: Kinematic analysis using 3D dynamic CT. 22th Dysphagia Research Society Annual Meeting, 2014, Nashville, USA

## Scientific Peer-Reviewed Publications (English)

Pongpipatpaiboon K, Inamoto Y (c) Saitoh E, Kagaya H, Shibata S, Aoyagi Y, Fujii N, Palmer JB, Gonzalez MF: Pharyngeal Swallowing in Older Adults: Kinematic Analysis Using Three-Dimensional Dynamic Computed Tomography. *Journal of oral rehabilitation* 2018 DOI: 10.1111/joor.12703.

Inamoto Y, Saitoh E, Ito Y, Kagaya H, Aoyagi Y, Shibata S, Ota K, Fujii N, Palmer JB: The Mendelsohn Maneuver and its Effects on Swallowing: Kinematic Analysis in Three Dimensions Using Dynamic Area Detector CT. *Dysphagia* 33: 419-430, 2018.

Wang J, Ho A, Papadopoulos-Nydam G, Rieger J, Inamoto Y, Fels S, Saitoh E, Aalto C. Simulated volume loss in the base of tongue in a virtual swallowing model. *Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization*. DOI.org/10.1080/21681163.2017.1382392

Kagaya H, Ogawa M, Mori S, Aoyagi Y, Shibata S, Inamoto Y, Mori H, Saitoh E. Hyoid Bone Movement at Rest by Peripheral Magnetic Stimulation of Suprahyoid Muscles in Normal Individuals. *Neuromodulation*. DOI: 10.1111/ner.12777

Greco E, Simic T, Ringash J, Tomlinson G, Inamoto Y, Martino R. Dysphagia treatment for patients with head and neck cancer treated with radiotherapy. A meta-analysis review. *International Journal of Radiation Oncology Biology Physics*. 101 (2); 421-444, 2018 10.1016/j.ijrobp.2018.01.097

Ho A, Inamoto Y, Saitoh E, Green S, Fels S: Extracting moving boundaries from dynamic, multislice CT images for fluid simulation. *CMBBE*. 2016; DOI: 10.1080 / 21681163. 2016. 1188028

Imada M, Kagaya H, Ishiguro Y, Kato M, Inamoto Y, Tanaka T, Shibata S, Saitoh E: Effect of visual biofeedback to acquire supraglottic swallow in healthy individuals: a randomized-control trial. *International Journal of Rehabilitation Research*. 2016; 39:181-184.

Mizokoshi E, Kagaya H, Oguchi K, Aoyagi Y, Shibata S, Inamoto Y, Hattori A, Yamamoto A, Ota N, Hota S, Kondo T, Saitoh E. Usefulness of swallowing rounds in acute general hospital. *Japanese Journal of Comprehensive Rehabilitation Science*. 2016; 7:73-79.

Inamoto Y, Saitoh E, Okada S, Kagaya H, Shibata S, Baba M, Onogi K, Hashimoto S, Katada K, Wattanapan P, Palmer JB: Anatomy of the larynx and pharynx: effects of age, gender and height revealed by multi detector computed tomography. *Journal of Oral Rehabilitation*. 2015; 42: 670-677.

Kagaya H, Saitoh E, Shibata S, Onogi K, Aoyagi Y, Inamoto Y, Ozeki M, Ota K: Delayed pharyngeal response in chew-swallow does not increase risk of aspiration in individuals with stroke. *J Am Geriatr Soc* 2015; 63: 1698-1699.

Inamoto Y, Saitoh E, Shibata S, Kagaya H, Nakayama E, Ota K, Onogi K, Kawamura Y. Effectiveness and applicability of a specialized evaluation exercise chair in posture adjustment for swallowing. *Jpn J Compr Rehabil Sci* 2014, 55: 33-39.

Nakagawa K, Matsuo K, Shibata S, Inamoto Y, Ito Y, Abe K, Ishibashi K, Fujii W, Saitoh E. Efficacy of a novel training food based on the process model of feeding for mastication and swallowing - A preliminary study in elderly individuals living at a residential facility. *Jpn J Compr Rehabil Sci* 2014,5:72-78.

Gonzalez M, Inamoto Y, Saitoh E, Kagaya H et al. Dysphagia Rehabilitation: Similarities and Differences in Three Areas of the World. *Curr Phys Med Rehabil Rep* 2013, 1: 296-306.

Okada T, Aoyagi Y, Inamoto Y, Saitoh E, Kagaya H, Shibata S, Ota k, Ueda K: Dynamic change in hyoid muscle length associated with trajectory of hyoid bone during swallowing: analysis using 320-row area detector computed tomography. *J Appl Physiol* 2013, 115: 1138-45.

Nakayama E, Kagaya H, Saitoh E, Inamoto Y, Hashimoto, Fujii N, Katada K, Kanamori D, Tohara H, Ueda K. Changes in pyriform sinus morphology in the head rotated position as assessed by 320-row area detector CT. *Dysphagia* 2013, 28: 199-204.

Inamoto Y, Saitoh E, Okada S, Kagaya H, Shibata S, Ota K, Baba M, Fujii N, Katada K, Palmer JB. The effect of bolus viscosity on laryngeal closure in swallowing: Kinematic analysis using 320-row area detector CT. *Dysphagia* 2013, 28: 33-42.

Inamoto Y, Kagaya H, Saitoh E, Kanamori D, Shibata S, Fujii N, Katada K, Palmer JB. Inter-rater and intra-subject reliability for the evaluation of swallowing kinematics using 320-row area detector computed tomography. *Jpn J Compr Rehabil Sci* 2012, 3: 59-66.

Shibata S, Kagaya H, Inamoto Y, Saitoh E, Okada S, Ota K, Kanamori D. Swallowing maneuver analysis using 320-row area detector computed tomography (320-ADCT). *Jpn J Compr Rehabil Sci* 2011.2 : 54-62

Kanamori D, Kagaya H, Fujii N, Inamoto Y, Nakayama E, Suzuki S, Mizutani H, Okada S, Katada K, Saitoh E. Examination of the distance measurement error and exposed dose when using a 320-row area detector CT: A comparison with videofluoroscopic examination of swallowing. *Jpn J Compr Rehabil Sci* 2011, 2:18-23.

Inamoto Y, Fujii N, Saitoh E, Baba M, Okada S et al. Evaluation of Swallowing Using 320-detector-row Multislice CT. Part II: Kinematic Analysis of Laryngeal Closure during Swallowing. *Dysphagia* 2011, 26: 209-217

Fujii N, Inamoto Y, Saitoh E, Baba M, Okada S et al. Evaluation of Swallowing Using 320-detector-row Multislice CT. Part I: Single- and Multiphase Volume Scanning for Three-dimensional Morphological and Kinematic Analysis for Three-dimensional Morphological and Kinematic Anaysis. *Dysphagia* 2009, 26: 99-107.

Soros P, Inamoto Y, Martin RE. Functional Brain Imaging of Swallowing: an Activation Likelihood Estimation Meta-Analysis. *Human brain mapping* 2009, 30: 2426-2439.

### **Research Support**

Grant-in-Aid for Young Scientists (KAKENHI)

16K16449

2016.4-2019.3

Effect of tongue motion on pharyngeal residue

Grant-in-Aid for Young Scientists (KAKENHI)

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2013.4-2016.3

Analysis of pharyngeal residue using 320-ADCT, tongue pressure, and high-resolution manometry

Grant-in-Aid for Research Activity start-up (KAKENHI)

23800064

2011.4-2013.3

Laryngeal closure in swallowing of healthy elderly and dysphagic patients. Kinematic analysis using 320-row area detector CT.



## **Application of 3D-CT for dysphagia evaluation and treatment**

Yoko Inamoto, SLHT, PhD

Professor, Faculty of Rehabilitation, School of Health Sciences, Fujita Health University

Swallowing requires a well-coordinated series of movements to transport the bolus from the oral cavity to the esophagus. To understand this process, imaging modalities are essential for evaluating function, pathophysiology, and to design a treatment plan based on the identified dysfunction. Videofluoroscopy and videoendoscopy are the gold standards for swallowing evaluation used both in clinical care and research.

The application of CT for dysphagia assessment and rehabilitation started in 1980s. However, its practical use was not possible until the development of 320-row area detector CT. Three-dimensional dynamic swallowing evaluation became possible at the first time using this technology, called Swallowing CT.

The main advantage of swallowing CT is three-dimensional data acquisition where all the motions of the structures can be observed simultaneously without any directional constraints. This allows the detailed observation of structures not clearly visualized by conventional imaging methods, and analyses of swallowing-related kinematics. As a result, the scope of quantitative evaluation has been greatly expanded. The quantitative evaluation resulted in advances in the study of swallowing physiology and pathophysiology for both research and clinical purposes.

Clinically, it promotes the clarification of swallowing pathophysiology by unveiling the mechanism under abnormal findings through timing and kinematic analysis. This contributes to identification of optimal treatment and allows to elucidate the functional changes occurring after exercise. Besides, it promotes the understanding of the effect of swallowing strategies, such as posture and swallowing maneuvers. Recently, Swallowing CT can also be used to elaborate and confirm findings described using 2D data by comparing 3D volumes with 2D lateral and antero-posterior area.

Despite its advantage, there are some pitfalls such as limitation of the number of imaging due to radiation dose and time resolution. In this lecture, clinical application of Swallowing CT and future direction will be discussed beyond these pitfalls.

## **Biography of Professor Shun-Te Huang (by 2022/09/01)**

Professor Shun-Te Huang is an emeritus professor of Special Care Dentistry and faculty of Oral Hygiene in the College of Dental Medicine, Kaohsiung Medical University.

His previous positions include director of faculty of Oral Hygiene, Department of Dentistry, and dean of the College of Dental Medicine, Kaohsiung Medical University, and president of the Taiwan Dental



Association. He held the position of president of several international and domestic academic associations and organized numerous international conferences as chairmen.

Dr. Huang received an award for his medical dedication and oral health promotion activity from the Ministry of Health and Welfare (previous Department of Health) in 2011 and 2013 respectively for his contribution to establish special care dentistry in Taiwan, offer dental services for remote area residents and act as international medical volunteer. He also awarded the Best Global Chinese Dentist by the Chinese Dental Science Association (2010, in Xiamen), and awarded for his contribution to society and human being by the Alumni Association of Kaohsiung Medical University in 2012.



**Professor Hsin-Hua Chou, D.D.S., Ph.D.**

Dr. Hsin-Hua Chou is director/professor of school of oral hygiene, college of oral medicine, Taipei Medical University (TMU), Taiwan. She is also an attending faculty in the department of periodontology, TMU Hospital. She received D.D.S. degree from Taipei Medical University, Taiwan (1990), and Ph.D. degree from Okayama University, Japan (1993-1997). In 2000-2002, she joined the Department of infectious disease, Boston University, USA as a visiting scientist. She was back to Taiwan in 2002, and appointed to current position in 2020.

Her clinical interests include preventive dentistry for all-age individuals. She had government funds (2016-2018) to help rural people to improve their dental literacy and to do oral hygiene correctly. Also made movies to help people in need to know how to use the resources of Special Needs Dental Clinic and Dental Home Visit provided by the government.

Her recent clinical work has focused on oral health management in hospitalized individuals, cancer patients and the elderly.

Her research interests includes immuno-inflammatory responses of periodontal pathogenesis, surface treatment of dental implants and recently oral microbiome analysis of the elderly with systemic diseases.

## Bibliography of the speaker

Professor Makoto Inoue serves as Head of Division of Dysphagia Rehabilitation, Niigata University Graduate School of Medical and Dental Sciences, Japan. In 1994, he graduated from Niigata University, where he continued his career as an oral surgeon and physiologist, and earned PhD from Niigata University Graduate School of Dental Science in 1998. After that, he obtained a position as an assistant professor at Department of Oral Physiology, Niigata University. In 2004, he was introduced to transfer Oral Physiology to clinical department, Geriatric Dentistry in Niigata University Medical and Dental Hospital to start his new career, and became a professor at Division of Dysphagia



Rehabilitation in 2008. Professor Inoue's research focuses on neurophysiology of oral function including chewing and swallowing and treatment of swallowing disorders, dysphagia. He published more than 140 peer-reviewed scientific papers. He has served as vice president of Japanese Society of Dysphagia Rehabilitation.

### **The topic of my speech.**

Importance of oral health and orofacial function in elderly patients with dysphagia

### **Abstract**

In aging societies in the world, needs of management and treatment of dysphagia have been increasing and dental professionals take part in this clinical field at least in Japan.

Still now, people believe that safe swallowing is a goal for patients with dysphagia. However, feeding intake behavior during meal includes biting between the incisors, chewing the solid foods, making the bolus with saliva for swallow and swallowing. In this respect, all of us should consider not only swallowing but also oral and chewing function is essential.

In my talk, I will introduce how dentists are involved in dysphagia management and treatment. In addition, I would like to introduce some of our recent basic and clinical studies related to feeding function.

## 一、基本資料

中文姓名	洪志興	英文姓名	CHIH-HSING HUNG
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## 二、主要學歷

學校名稱	國別	主修學門系所	學位	起訖年月(西元年/月)
高雄醫學大學	中華民國	醫學研究所	博士	自 2006/08 至 2009/12
國防醫學院	中華民國	醫學系	學士	自 1986/08 至 1993/07

## 三、現職及與專長相關之經歷

服務機構	服務部門/系所	職稱	起訖年月(西元年/月)
高雄醫學大學醫學系小兒科	高雄醫學大學醫學系小兒科	教授	自 2009/10

經歷			
高雄醫學大學	小兒學科	副教授	自 2008/08 至 2009/10
高雄醫學大學 醫學系小兒科	醫學系小兒科	助理教授兼任小兒過敏免疫科主任	自 2005/10 至 2006/06
國防醫學院小兒科	小兒科	助理教授	自 2004/08 至 2005/09
國防醫學院小兒科	小兒科	助理教授兼任主治醫師	自 2004/08 至 2005/06
美國約翰霍普金斯大學附設醫院	氣喘過敏中心	研究員	自 2002/09 至 2003/08
三軍總醫院	小兒部	總醫師	自 1998/08 至 1999/07
三軍總醫院	小兒部	住院醫師	自 1995/08 至 1998/07
陸軍 158 師	衛生連	軍醫官	自 1993/08 至 1995/07

## 四、專長

1. 小兒免疫風濕
2. 免疫學
3. 過敏病學
4. 基礎免疫學

## 著作目錄

1. Lin YC, Lin YC, Tsai ML, Tsai YG, Kuo CH, **Hung CH\***. (2022, May). IL-33 regulates M1/M2 chemokine expression via mitochondrial redox-related mitophagy in human monocytes. *Chemico-Biological Interactions*, 359:109915. 本人為通訊作者.
2. Chen HC, Chiou HC, Tsai ML, Chen SC, Lin MH, Chuang TC, **Hung CH\***, Kuo CH. (2022, Apr). Effects of Montelukast on Arsenic-Induced Epithelial-Mesenchymal Transition and the Role of Reactive Oxygen Species Production in Human Bronchial Epithelial Cells. *Frontiers in Pharmacology*, 13:877125. 本人為通訊作者.
3. Lin YC, Lin YC, Tsai ML, Liao WT, **Hung CH\***. (2022, Mar). TSLP regulates mitochondrial ROS-induced mitophagy via histone modification in human monocytes. *Cell & Bioscience*, 12(1):32. 本人為通訊作者.
4. Huang CH, Hsieh CY, Wang CW, Tu HP, Chen SC, **Hung CH**, Kuo CH. (2022, Jan). Associations and Interactions between Heavy Metals with White Blood Cell and Eosinophil Count. *International Journal of Medical Sciences*, Jan 9;19(2):331-337.

## **Curriculum Vitae**

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### **Personal information:**

Date of Birth (Month / Day / Year): 01/26/1972

Place of Birth: Tokyo, Japan

Sex: Male

### **Professional experience:**

2020-Present Associate Professor, Department of Geriatric Dentistry, Showa University School of Dentistry

2015-2020 Professor, Chair, Department of Oral Health Sciences for Community Welfare, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University

2014-2015 Associate Professor of Department of Prosthodontics and Oral Implantology in Iwate Medical University, Iwate, Japan.

2013-2014 Visiting Associate Professor of Department of Restorative Dentistry and Biomaterials Sciences in Harvard School of Dental Medicine, Massachusetts, the USA. Part-time Faculty in Teaching Practice of Harvard Dental Center.

2012-2013 Associate Professor of Department of Prosthodontics and Oral Implantology in Iwate Medical University, Iwate, Japan.

2007-2015 Director of Dysphagia Rehabilitation Clinic of Iwate Medical University Hospital Dental Center, Iwate, Japan.

2010-2012 Associate Professor of Department of Removable Prosthodontics in Iwate Medical University.

2008-2010 Junior Associate Professor of Department of Removable Prosthodontics in Iwate Medical University.

- 2005-2008 Assistant Professor of Department of Removable Prosthodontics in Iwate Medical University.
- 2004-2005 Resident in Department of Gerodontology, Faculty of Dentistry, Tokyo Medical and Dental University, Tokyo, Japan.
- 2002-2004 General Practitioner in Furuya dental office and other dental offices.
- 2000-2001 Resident in Department of Gerodontology, Faculty of Dentistry, Tokyo Medical and Dental University.

**Education:**

- 1996-2000 Ph.D. in Gerodontology.  
Graduate student of Graduate school of Dentistry, Tokyo Medical and Dental University, Tokyo, Japan.  
Supervisor: Prof. Hiroshi Uematsu, Department of Gerodontology, Tokyo Medical and Dental University.  
Thesis title: Effects of Wearing Complete Dentures on Swallowing Function in the Elderly.
- 1990-1996 D.D.S.  
Student of Faculty of Dentistry, Tokyo Medical and Dental University, Tokyo, Japan.

**Licenses and Board Certification:**

- National Board of Dental examination in Japan
- Board of Japanese Society of Gerodontology
- Board of Japan Prosthodontic Society
- Board of Japanese Society of Dysphagia Rehabilitation

**Research Experience excluding academic course:**

Not Applicable

**Publication:(related to dysphagia and/or oral function)**

1. Uchida Y, Sato Y, Shichita T, Osawa T, Isobe A, Terazawa M, Hatanaka Y, **Furuva J\***. Comparison of three representative subjective evaluations of chewing function. Showa Univ J Med Sci. 2022. (in printing)
2. Suzuki H, **Furuva J\***, Nakagawa K, Hidaka R, Nakane A, Yoshimi K, Shimizu Y, Saito K, Itsui Y, Tohara H, Sato Y, Minakuchi S. Changes in nutrition-intake method and oral health through a multidisciplinary team approach in malnourished older patients admitted to an acute care hospital. Int J Environ Res Public Health. 2022 Aug 9;19(16):9784. doi: 10.3390/ijerph19169784. PMID: 36011422.

3. Taira K, Watanabe Y, Okada K, Kondo M, Takeda M, Ito K, Nakajima J, Iwasaki M, Itoda M, Inohara K, Sasaki R, Nishi Y, **Furuva J**, Watanabe Y, Umemoto G, Kishima M, Tohara T, Sato Y, Yoshida M, Yamazaki Y. Association between denture use and food form in older adults requiring long-term care: A multicenter cross-sectional study. *J Prosthodont Res*. 2022 Aug 19. doi: 10.2186/jpr.JPR\_D\_21\_00161. Epub ahead of print. PMID: 35989265.
4. Yamane K, Sato Y, **Furuva J\***, Kitagawa N, Ikemura N, Shimodaira O. Effect of traction direction and pressure load on the palatal plate on retentive force. *BMC Oral Health*. 2022 Jul 16;22(1):289. doi: 10.1186/s12903-022-02313-z. PMID: 35842648.
5. Suzuki H, **Furuva J\***, Matsubara C, Aoyagi M, Shirobe M, Sato Y, Tohara H, Minakuchi S. Comparison of the amount of used and the ease of oral care between liquid and gel-type oral moisturizers used with an oral care simulators. *Int J Environ Res Public Health*. 2022 Jul 3;19(13):8158. doi: 10.3390/ijerph19138158. PMID: 35805817.
6. Uchida Y, Sato Y, Kitagawa N, **Furuva J**, Osawa T, Isobe A, Terazawa M, Hatanaka Y, Shichita T. Comparison of oral hypofunction tests and determination of reference values for a subjective masticatory function test. *BMC Oral Health*. 2022 Jun 6;22(1):223. doi: 10.1186/s12903-022-02252-9. PMID: 35668400.
7. Takeda M, Watanabe Y, Matsushita T, Taira K, Miura K, Ohara Y, Iwasaki M, Ito K, Nakajima J, Iwasa Y, Itoda M, Nishi Y, **Furuva J**, Watanabe Y, Umemoto G, Kishima M, Hirano H, Sato Y, Yoshida M, Yamazaki Y. Observational variables for considering a switch from a normal to a dysphagia diet among older adults requiring long-term care: A one-year multicenter longitudinal study. *Int J Environ Res Public Health*. 2022 May 28; 19(11):6586. <https://doi.org/10.3390/ijerph19116586>
8. Takeda M, Okada K, Kondo M, Taira K, Watanabe Y, Ito K, Nakajima J, Ozaki Y, Sasaki R, Nishi Y, **Furuva J**, Akino K, Ohta H, Ohno T, Kodama T, Sakaguchi H, Hanagata T, Sato Y, Yoshida M, Yamazaki Y. Factors associated with food form in long-term care insurance facilities. *Dysphagia*. 2022 Apr 12. doi: 10.1007/s00455-022-10440-6. Epub ahead of print. PMID: 35415813.
9. Wakasugi Y, Susa C, Murata S, Aida J, Sasaki J, **Furuva J**, Tohara H. Factors Affecting Hospitalization and Death of Older Patients Who Need Long-Term Care—The Necessity of the Support for Dysphagia in Home Dental Care. *Geriatrics*. 2022 Mar 25;7(2):37. doi: 10.3390/geriatrics7020037.
10. **Furuva J**, Suzuki H, Hidaka R, Matsubara C, Motomatsu Y, Kabasawa Y, Tohara H, Sato Y, Miyake S, Minakuchi S. Association between oral health and advisability of oral feeding in advanced cancer patients receiving palliative care: a cross-sectional study. *Support Care Cancer*. 2022 Mar 28;30(7):5779-5788. doi: 10.1007/s00520-022-06984-w. Epub ahead of print. PMID: 35344101.
11. Hatanaka Y, **Furuva J\***, Sato Y, Taue R, Uchida Y, Shichita T, Osawa T. Regular oral health



- management improved oral function of outpatients with oral hypofunction in dental hospital: a longitudinal study. *Int J Environ Res Public Health*. 2022 Feb 14;19(4):2154. doi: 10.3390/ijerph19042154. PMID: 35206345.
12. Suzuki H, **Furuoya J\***, Hidaka R, Miyajima S, Matsubara C, Ohwada G, Asada T, Akazawa C, Sato Y, Tohara H, Minakuchi S. Patients with mild cognitive impairment diagnosed at dementia clinic display decreased maximum occlusal force: a cross-sectional study. *BMC Oral Health*. 2021 Dec 27;21(1):665. doi: 10.1186/s12903-021-02027-8. PMID: 34961506.
  13. Mukai T, Sato Y, Shimodaira O, **Furuoya J**, Isobe A, Omori T. Development of an optimal relief method for the palatal plate by stress analysis. *BMC Oral Health*. 2021 Dec 20;21(1):659. doi: 10.1186/s12903-021-02014-z. PMID: 34930235.
  14. **Furuoya J**, Suzuki H, Hidaka R, Nakagawa K, Yoshimi K, Nakane A, Yamaguchi K, Shimizu Y, Itsui Y, Saito K, Sato Y, Tohara H, Minakuchi S. Factors related to oral intake of food by hospitalized patients with malnutrition under the care of a nutrition support team. *Int J Environ Res Public Health*. 2021 Nov 8;18(21):11725. doi: 10.3390/ijerph182111725. PMID: 34770239.
  15. Hama K, Iwasa Y, Ohara Y, Iwasaki M, Ito K, Nakajima J, Matsushita T, Tohara T, Sakamoto M, Itoda M, Inohara K, Ozaki Y, Sasaki R, Nishi Y, Tsuneishi M, **Furuoya J**, Watanabe Y, Watanabe Y, Sato Y, Yoshida M. Pneumonia incidence and oral health management by dental hygienists in long-term care facilities: A 1-year prospective multicentre cohort study. *Gerodontology*. 2021 Nov 9. doi: 10.1111/ger.12604. Epub ahead of print. PMID: 34750855.
  16. Aoyagi M, **Furuoya J\***, Matsubara C, Yoshimi K, Nakane A, Nakagawa K, Inaji M, Sato Y, Tohara H, Minakuchi S, Maehara T. Association between improvement of oral health, swallowing function, and nutritional intake method in acute stroke patients. *Int J Environ Res Public Health*. 2021 Oct 29;18(21):11379. doi: 10.3390/ijerph182111379. PMID: 34769895.
  17. Hatanaka Y, **Furuoya J\***, Sato Y, Uchida Y, Osawa T, Shichita T, Suzuki H, Minakuchi S. Impact of oral health guidance on the tongue-lip motor function of outpatients at a dental hospital. *Gerodontology*. 2021 Oct 24. *Gerodontology*. 2022 Mar;39(1):83-89. doi: 10.1111/ger.12599. Epub 2021 Oct 24. PMID: 34689371.
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  19. Endo A, Watanabe Y, Matsushita T, Okada K, Ohara Y, Iwasaki M, Ito K, Nakajima J, Iwasa Y, Itoda M, Sasaki R, Nishi Y, **Furuoya J**, Watanabe Y, Umemoto G, Kishima M, Hirano H, Sato Y, Yoshida M, Yamazaki Y. Association between weight loss and food form in older individuals

- residing in long-term care facilities: 1-year multicenter longitudinal study. *Int J Environ Res Public Health*. 2021 Oct 14;18(20):10776. doi: 10.3390/ijerph182010776.
20. Hatanaka Y, **Furuva J**, Sato Y, Uchida Y, Shichita T, Kitagawa N, Osawa T. Associations between Oral hypofunction tests, age, and sex. *Int J Environ Res Public Health*. 2021 Sep 29;18(19):10256. doi: 10.3390/ijerph181910256. PMID: 34639564
  21. **Furuva J**, Suzuki H, Hidaka R, Koshitani N, Motomatsu Y, Kabasawa Y, Tohara H, Sato Y, Minakuchi S, Miyake S. Factors affecting the oral health of inpatients with advanced cancer in palliative care. *Support Care Cancer*. 2022 Feb;30(2):1463-1471. doi: 10.1007/s00520-021-06547-5. Epub 2021 Sep 16. PMID: 34529140.
  22. Yamaguchi K, Nakagawa K, Yoshimi K, Ariya C, Nakane A, **Furuva J**, Tohara H. Age-related changes in swallowing muscle intramuscular adipose tissue deposition and related factors. *Exp Gerontol*. 2021 Oct 1;153:111505. doi: 10.1016/j.exger.2021.111505. Epub 2021 Aug 1. PMID: 34343633.
  23. Ikemura N, Sato Y, **Furuva J**, Shimodaira O, Takeda K, Kakuta T, Yamane K, Kitagawa N. Changes in denture retention with denture adhesives and oral moisturizers for the oral cavity: an in vitro study. *BMC Oral Health*. 2021 Sep 8;21(1):438. doi: 10.1186/s12903-021-01800-z. PMID: 34496818.
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  26. Shirobe M, Watanabe Y, Tanaka T, Hirano H, Kikutani T, Nakajo K, Sato T, **Furuva J**, Minakuchi S, Iijima K. Effect of an oral frailty measures program on community-dwelling elderly people: A cluster-randomized controlled trial. *Gerontology*. 2021 Jul 9:1-10. doi: 10.1159/000516968. Epub ahead of print. PMID: 34247160.
  27. Hidaka R, **Furuva J\***, Nishiyama A, Suzuki H, Aoyagi M, Matsubara C, Yoshizumi Y, Yoshimi K, Nakane A, Tohara H, Sato Y, Minakuchi S. Structural equation modeling of tongue function and tongue hygiene in acute stroke patients. *Int J Environ Res Public Health*. 2021 Apr 26;18(9):4567. doi: 10.3390/ijerph18094567. PMID: 33925775.
  28. Morishita S, Ohara Y, Iwasaki M, Edahiro A, Motokawa K, Shirobe M, **Furuva J**, Watanabe Y, Suga T, Kanehisa Y, Ohuchi A, Hirano H. Relationship between mortality and oral function of older people requiring long-term care in rural areas of Japan: A four-year prospective cohort study. *Int J Environ Res Public Health*. 2021 Feb 10;18(4):1723. doi: 10.3390/ijerph18041723. PMID: 33579046.

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34. Yamaguchi K, Hara K, Nakagawa K, Namiki C, Ariya C, Yoshimi K, Nakane A, Kubota K, **Furuva J**, Tohara H. Association of aging and tooth loss with masseter muscle characteristics: an ultrasonographic study. *Clin Oral Investig*. 2020 Nov;24(11):3881-3888. doi: 10.1007/s00784-020-03255-y. Epub 2020 Mar 16. PMID: 32180027.
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36. Matsubara C, **Furuva J\***, Watanabe Y, Obana M, Shirobe M, Ohara Y, Edahiro A, Nakajima J, Motokawa K, Inagaki H, Hirano H, Minakuchi S, Shinkai S, Awata S. Cross-sectional study of age-specific differences in salivary occult blood test results in older adults. *J Oral Sci*. 2020 Sep 26;62(4):410-414. doi: 10.2334/josnusd.19-0392. Epub 2020 Aug 26. PMID: 32848098.

37. Hidaka R, **Furuya J\***, Suzuki H, Matsubara C, Obana M, Tokunaga J, Endo K. Survey on the oral health status of community-dwelling older people with visual impairment. *Spec Care Dentist*. 2020 Mar;40(2):192-197. doi: 10.1111/scd.12446. Epub 2019 Dec 27. PMID: 31880359.
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39. Kurosawa Y, Hara K, Tohara H, Namiki C, Chantaramanee A, Nakane A, Nakagawa K, Yamaguchi K, Yoshimi K, **Furuya J**, Minakuchi S. Calf Circumference Is a Useful Index for Assessing dysphagia among community dwelling elderly recipients of long-term care. *Tohoku J Exp Med*. 2019 Jul;248(3):201-208. doi: 10.1620/tjem.248.201. PMID: 31366821.
40. Obana M, **Furuya J\***, Matsubara C, Tohara H, Inaji M, Miki K, Numasawa Y, Minakuchi S, Maehara T. Effect of a collaborative transdisciplinary team approach on oral health status in acute stroke patients. *J Oral Rehabil*. 2019 Dec;46(12):1170-1176. doi: 10.1111/joor.12855. Epub 2019 Jul 22. PMID: 31283027.
41. Nomura T, Murakami T, Shimoyama Y, Kobayashi T, **Furuya J**, Sasaki M, Kondo H. Effects of denture adhesives on growth and morphological transformation of *Candida albicans*. *J Prosthodont Res*. 2020 Jan;64(1):78-84. doi: 10.1016/j.jpor.2019.04.006. Epub 2019 May 28. PMID: 31147297.
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47. **Furuva J\***, Tamada Y, Sato T, Hara A, Nomura T, Kobayashi T, Sakai M, Kondo H. Wearing complete dentures is associated with changes in the three-dimensional shape of the oropharynx in edentulous older people that affect swallowing. *Gerodontology*. 2016 Dec;33(4):513-521. doi: 10.1111/ger.12197. Epub 2015 May 4. PMID: 25939853.
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### **Honor and Awards:**

2022 Best researcher award in Showa University

- 2017 Best medical care team award in Tokyo Medical and Dental University
- 2010 Best oral scientific presentation in 21<sup>st</sup> annual meeting of Japanese Society for Mastication Science and Health Promotion.  
Title: The new method evaluating masticatory function by using videoendoscope.
- 2009 Best poster scientific presentation in 20<sup>th</sup> annual meeting of Japanese Society of Gerodontology.  
Title: Changes in tongue pressure on swallowing of variable food bolus by using a sensor sheet system.
- 2007 Best oral scientific presentation in 116<sup>th</sup> annual meeting of Japan Prosthodontic Society.  
Title: The temporal relationship between tongue pressure toward a palate and videoendoscopic examination of swallowing.

**Current Professional Societies:**

International Association of Dental Research  
Dysphagia Rehabilitation Society  
Japanese Society of Gerodontology  
Japan Prosthodontic Society  
Japanese Society of Dysphagia Rehabilitation  
Japanese Society for Clinical Nutrition and Metabolism.

**Interest:**

In Japan, geriatric population is rapidly increasing, therefore dysphagia rehabilitation including oral hygiene care and prosthodontic treatments to recover oral function is very important. In particular, I'm interested in the relationships between dentures and swallowing, also the relationships among oral function of older people and medical care, nursing-care, home-visit care, nutrition, quality of life in super-aged society. I'd like to clarify how professional oral health management including oral hygiene care, denture treatment, and dysphagia rehabilitation improve oral function, and then result in multidisciplinary care and the quality of life of older people.

**Reference Contact Information:**

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## **Impact of Oral Health Management through a Multidisciplinary Team Approach on Dysphagia in Acute and Chronic Care**

Junichi FURUYA

Geriatric Dentistry, Showa University School of Dentistry

As of 2023, Japan has the highest ageing population in the world, and the number of older people with long-term nursing care is rapidly increasing. Owing to their diseases such as stroke, malnutrition, dementia, Parkinson's disease, and other disease, most of these older people have dysphagia in various level. In particular, stroke is the most popular disease for dysphagia, and it would need long-term rehabilitation and nursing care from acute stage to chronic stage. Thus, dysphagia rehabilitation with transdisciplinary team approach and regional cooperation for older patients is very important, and besides, oral health management is also very important for dysphagia rehabilitation of older people.

In acute care setting, oral health management is important to preserve aspiration pneumonia as well as dysphagia rehabilitation, because most of dysphagic older patients has poor oral health such as poor oral hygiene, denture problems, and declined tongue function. However, human resources of dental profession is often limited in a hospital, therefore, oral health management is essential cooperated with transdisciplinary team approach including nurses, speech pathologists, dietitian, medical doctor, family, and other professionals.

Comprehensive oral health management would improve oral hygiene, oral function such as tongue function, and help swallowing through establishment of occlusion by wearing dentures, resulting smooth, efficient, and effective dysphagia rehabilitation. In addition, recent research revealed oral health management in nutrition support team of acute care hospital is important for inpatient with malnutrition. However, it is often difficult to improve oral health completely only in acute care due to transfer and discharge, it is therefore important to connect regional cooperation about oral health management.

In chronic care setting, oral health management is also important to achieve and help comfort feeding of older people in various level. Oral health is associated with activity of daily living, and nutritional status, and it would help systemic rehabilitation in chronic stage. In addition, oral function management for outpatients is important to preserve oral frailty, which leads to systemic frailty and sarcopenia. Moreover, it would help the quality of life of community-dwelling older people even if they were in end of life stage.

In this lecture, I would like to share my clinical experience and research about association between dysphagia and oral health management.

## 陳桂敏教授簡介

中文姓名	陳桂敏	
英文姓名	CHEN, KUEI-MIN	
主要學歷	美國明尼蘇達大學 老人護理學研究所 博士 (1997/09-2000/04)	
	美國明尼蘇達大學 老人護理學研究所 碩士 (1994/09-1996/03)	
	美國杜布克大學 護理學系 學士 (1992/09-1994/05)	
現職	美國明尼蘇達大學 護理學院 合聘教授 (2022/02~)	
	美國護理科學院 院士 (2017/10~)	
	高雄醫學大學 長期照顧研究中心 主任 (2015/08~)	
	高雄醫學大學 護理學系 教授 (2010/08~)	
經歷	高雄醫學大學 國際事務處 國際長 (2018/08-2021/08)	
	科技部 生科司社會醫學學門護理學科 召集人(2018/01-2020/12)	
	高雄醫學大學 高齡長期照護碩士學程 主任 (2013/08-2021/07)	
	高雄醫學大學 推廣教育暨社會資源中心 主任 (2011/08-2015/07)	
	輔英科技大學 老人健康與福祉研究中心 主任 (2008/03-2010/07)	
	輔英科技大學 護理學院 院長 (2008/08-2009/07)	
	輔英科技大學 護理系 教授 (2007/04-2010/07)	
學術專長	老人健康促進、老人運動、輔助/另類療法、老人護理、長期照護	



一、基本資料：

簽名： 傅尹志

身分證號碼	E121528651			填表日期：	2022/05/20
中文姓名	傅尹志	英文姓名	FU YIN-CHIH		
			(Last Name) (First Name) (Middle Name)		
國籍	中華民國	性別	<input checked="" type="checkbox"/> 男 <input type="checkbox"/> 女	出生日期	1965年07月03日
聯絡地址	813 高雄市左營區新光里25鄰立中路38巷50號				
聯絡電話	(公) 07-2911102-8906 (宅/手機) 07-3470345				
傳真號碼	07-2911590	E-mail	microfu@kmu.edu.tw		

二、主要學歷 由最高學歷依次填寫，若仍在學者，請在學位欄填「肄業」。

學校名稱	國別	主修學門系所	學位	起訖年月(西元年/月)
高雄醫學大學	中華民國	醫學研究所	博士	自 2006/08 至 2015/07
高雄醫學大學	中華民國	醫學系	學士	自 1984/09 至 1991/06

三、現職及與專長相關之經歷 指與研究相關之專任職務，請依任職之時間先後順序由最近者往前追溯。

服務機構	服務部門/系所	職稱	起訖年月(西元年/月)
高雄市立大同醫院	高雄市立大同醫院院長室	院長	自 2021/09 至今
中華民國骨科醫學會	FJMD 編輯委員會	委員	自 2020/11 至今
中華民國骨科醫學會	國際事務委員會	委員	自 2020/11 至今
中華民國骨科醫學會	醫療諮詢委員會	委員	自 2020/11 至今
高雄市醫事暨醫務行政學會		常務監事	自 2020/07 至今
台灣顯微重建外科醫學會		理事	自 2021/01 至今
台灣手外科醫學會		理事	自 2020/09 至今
衛生福利部食品藥物管理署	醫療器材諮議會	委員	自 2021/02 至今

衛生福利部 食品藥物管理署	智慧醫療器材諮議會	委員	自 2021/02 至今
台灣骨科研究學會		理事	自 2019/11 至今
社團法人 高雄市醫師公會	醫療法規稅務保險制度 研究委員會		自 2019/03 至 2022/04
社團法人 高雄市醫師公會	學術委員會附設資訊小組		自 2019/03 至今
社團法人 高雄市醫師公會		理事	自 2019/03 至 2022/04
高雄醫學大學 附設中和紀念醫院	岡山營運處	執行長	自 2018/08 至 2020/07
高雄市立小港醫院	高雄市立小港醫院院長室	副院長	自 2016/02 至 2018/07
高雄市立小港醫院	骨科	主任	自 2012/08 至 2016/01
高雄醫學大學	醫學系/骨科學	教授	自 2015/02 至今
高雄醫學大學	醫學系/骨科學	副教授	自 2010/08 至 2015/01
高雄醫學大學	醫學系/骨科學	助理教授	自 2007/08 至 2010/07
University of Pittsburgh Musculoskeletal Center		Research fellow	自 2004/08 至 2005/07
台灣手外科醫學會		秘書長	自 2002/05 至 2004/04
高雄醫學大學 附設中和紀念醫院	骨科	主治醫師	自 1993/08 至今

四、專長 請填寫與研究方向有關之學術專長名稱。

1. 骨移植材料	2. 顯微手術	3. 再生醫學	4
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# 傅尹志著作目錄

## 期刊論文

1. Wen-Chih Liu, Chih-Hau Chang, Chung-Hwan Chen, Chun-Kuan Lu, Chun-Hsien Ma, Shin-I Huang, Wei-Lun Fan, Hsin-Hsin Shen, Pei-I Tsai, Kuo-Yi Yang, Yin-Chih Fu. 3D-Printed Double-Helical Biodegradable Iron Suture Anchor: A Rabbit Rotator Cuff Tear Model Materials (Basel). 2022 Apr 11;15(8):2801. doi: 10.3390/ma15082801.
2. Chih-Yao Lee, Po-Cheng Chen, Ying-Chun Liu, Yun-Che Tsai, Pei-Hsi Chou, Yin-Chih Fu, Wen-Chih Liu, Jesse Bernard Jupiter, Jupiter JB. Does coracoclavicular augmentation additional to hook plate fixation provide benefits in acute unstable acromioclavicular dislocation? A meta-analysis BMC Musculoskelet Disord. 2022 Mar 4;23(1):205. doi: 10.1186/s12891-022-05142-x. PMID: 35246100 Free PMC article.
3. Wen-Chih Liu, I-Cheng Lu, Chung-Chia Chang, Chih-Ting Chen, Chung-Hwan Chen, Chia-Lung Shih, Yin-Chih Fu, Jesse Bernard Jupiter Less Fluctuation in Hemodynamics of the Wide-Awake Local Anesthesia No Tourniquet Technique Than General Anesthesia in Distal Radius Plating Surgery: A Prospective Case-Control Study J Clin Med. 2022 Feb 21;11(4):1123. doi: 10.3390/jcm11041123. PMID: 35207401 Free PMC article.
4. Wen-Chih Liu, Chih-Hau Chang, Chung-Hwan Chen, Chun-Kuan Lu, Chun-Hsien Ma, Shin-I Huang, Wei-Lun Fan, Hsin-Hsin Shen, Pei-I Tsai, Kuo-Yi Yang, Yin-Chih Fu. Effectiveness of Extracorporeal Shock Wave Therapy and Injection Therapies on Lateral Epicondylitis: A Systematic Review and Network Meta-Analysis. Arthroscopy. 2022 Jan 31;S0749-8063(22)00028-7. doi: 10.1016/j.arthro.2022.01.025. Online ahead of print.
5. Chun-Kuan Lu, Ying-Chun Liu, Chih-Ting Chen, Yin-Chih Fu, Wen-Chih Liu Immediate rotationplasty for a severely crushed floating knee in a blast injury: A case report. Trauma Case Rep. 2021 Dec 28;37:100600. doi: 10.1016/j.tcr.2021.100600. eCollection 2022 Feb. PMID: 35028358 Free PMC article.
6. Wei-Yu Fang, Yu-Ting Tseng, Tzu-Ying Lee, Yin-Chih Fu, Wan-Hsuan Chang, Wan-Wen Lo, Chih-Lung Lin, Yi-Ching Lo Triptolide prevents LPS-induced skeletal muscle atrophy via inhibiting NF- $\kappa$ B/TNF- $\alpha$  and regulating protein synthesis/degradation pathway. Br J Pharmacol. 2021 Aug;178(15):2998-3016. doi: 10.1111/bph.15472. Epub 2021 May 21.

7. Po-Chih Shen, Shih-Hsiang Chou, Cheng-Chang Lu, Yin-Chih Fu, Chun-Kuan Lu, Wen-Chih Liu, Peng-Ju Huang, Yin-Chun Tien and Chia-Lung Shih. Comparative effectiveness of various treatment strategies for trigger finger by pairwise metaanalysis.  
Clin Rehabil. 2020 Sep;34(9):1217-1229. doi: 10.1177/0269215520932619. Epub 2020 Jun 15.
8. Liang-Yin Chou, Chung-Hwan Chen, Shu-Chun Chuang, Tsung-Lin Cheng, Yi-Hsiung Lin, Hsin-Chiao Chou, Yin-Chih Fu, Yan-Hsiung Wang, and Chau-Zen Wang.  
Discoidin Domain Receptor 1 Regulates Runx2 during Osteogenesis of Osteoblasts and Promotes Bone Ossification via Phosphorylation of p38. Int J Mol Sci. 2020 Oct; 21(19): 7210. Published online 2020 Sep 29. doi: 10.3390/ijms21197210
9. Chun-Kuan Lu, Wen-Chih Liu, Chung-Chia Chang, Chia-Lung Shih, Yin-Chih Fu, Jesse B Jupiter. A systematic review and meta-analysis of the pronator quadratus repair following volar plating of distal radius fractures. J Orthop Surg Res. 2020 Sep 16;15(1):419. doi: 10.1186/s13018-020-01942-w.
10. Liang-Yin Chou, Chung-Hwan Chen, Yi-Hsiung Lin, Shu-Chun Chuang, Hsin-Chiao Chou, Sung-Yen Lin, Yin-Chi Fu, Je-Ken Chang, Mei-Ling Ho\*, Chau-Zen Wang. Regenerative Medicine and Cell Therapy Research Center Discoidin domain receptor 1 regulates endochondral ossification through terminal differentiation of chondrocytes. 2020 3; 34:5767–578181. FASEB JOURNAL Cell Biology 5.391 46/193 23.83% doi: 10.1096/fj.201901852RR
11. Wen-Chih Liu, Chih-Hau Chang, Cheng-Chang Lu, Yin-Chih Fu, Chun-Kuan Lu. Reconstruction of massive knee defects with extensor mechanism deficiency through concurrent anterolateral thigh flap and autogenous hamstring tendon: A report of two cases. J Orthop Surg (Hong Kong). Jan-Apr 2020;28(2):2309499020935994. doi: 10.1177/2309499020935994.
12. Wen-Chih Liu, Yin-Chih Fu, Chun-Kuan Lu. Vascular compromise during wide-awake local anaesthesia no tourniquet technique for distal radial plating: a case report. J Hand Surg Eur Vol. 2019 Nov;44(9):980-983.
13. Yi-Ting Chen, Shun-Chen Huang, Chien-Chang Chen, Lee-Moay Lim, Po-Liang Lu, Ya-Ping Hou, Yin-Chih Fu, Chia-Hsin Chen, Yur-Ren Kuo. Topical tacrolimus and steroids modulate T cells in acute rejection of hand allotransplantation: Two case reports. Microsurgery. 2019 Feb 15.
14. Chau-Zen Wang, Yan-Hsiung Wang, Che-Wei Lin, Tien-Ching Lee, Yin-Chih Fu, Mei-Ling Ho and Chih-Kuang Wang. Combination of a Bioceramic Scaffold and Simvastatin Nanoparticles as a Synthetic Alternative to Autologous Bone Grafting. Int J Mol Sci. 2018 Dec 18;19(12).

15. Wang CZ, Eswaramoorthy R, Lin TH, Chen CH, Fu YC, Wang CK, Wu SC, Wang GJ, Chang JK, Ho ML. Enhancement of chondrogenesis of adipose-derived stem cells in HA-PNIPAAm-CL hydrogel for cartilage regeneration in rabbits. *Sci Rep.* 2018 Jul 12;8(1):10526.

### 專書論文

1. Mei-Ling Ho; Je-Ken Chang; Chung-Hwan Chen; Yin-Chih Fu; Chih-Kuang Wang; Chau-Zen Wang; Rajalakshmanan Eswaremoorthy and Shun-Cheng Wu. Application of adipose derived stem cells for bone and cartilage regeneration. *Mesenchymal Stem Cells* (ISBN: 978-61324-669-6). 2011.

### 研討會論文

1. 陳崇桓, 林怡珊, 傅尹志, 張瑞根, 林松彥, 汪在婕, 何美玲 (2014, Mar). The Effects of (-)-Epigallocatechin-3-Gallate (EGCG) on Bone Defect Healing. Annual Meeting of Taiwan Orthopedic Association.
2. Chih-Kuang Wang\*, Yin-Chih Fu, Tzu-Fun Fu, Chung-Hwan Chen, Hung-Jen Wang, Mei-Ling Ho (2013, Aug). Oligopeptide of aspartic acid functionalized PLGA-PEG-based copolymers for potent bone targeting nanoparticles. 15th Asian Chemical Congress.
3. Chih-Kuang Wang, Yin-Chih Fu, Tzu-Fun Fu, Hung-Jen Wang, Chau-Zen Wang, Mei-Ling Ho (2013, Jan). Synthesis and Characterization of Aspartic acid Modify PLGA-g-PEG Nanoparticles for Bone Targeting. 2013 Annual Meeting of the Orthopaedic Research Society.
4. Chung-Hwan Chen, Yi-Shan Lin, Yin-Chih Fu, Mei-Ling Ho, Je-Ken Chang, Sung-Yen Lin, Chih-Kuang Wang (2013, Jan). Intra-articular Parathyroid Hormone (1-34) Improved Knee Osteoarthritis and Function In Guinea Pig with Spontaneous Osteoarthritis. 2013 Annual Meeting of the Orthopaedic Research Society.
5. Yin Chih Fu, Shih-Ciang Chien, Chung-Hwan Chen, Je-Ken Chang, Mei-Ling Ho, Chih-Kuang Wang (2013, Jan). Porous bioceramic was fabricated using thermo-responsive hydrogel combined with controlled- release of rhBMP-2 carriers for non-union bone defect. 2013 Annual Meeting of the Orthopaedic Research Society. 本人為第一作者.
6. Y.C. Fu, C.H. Chen, S.C. Chien, J.K. Chang, M.L. Ho, C.K. Wang (2012, Oct). Porous bioceramics were fabricated using reversed thermo-responsive hydrogel as template and combined with rhBMP-2 carriers. 12th Asian BioCeramics (ABC2012) Symposium, Tainan, Taiwan, November 18-21, 2012. 本人為第一作者.

- 7.傅尹志, 陳崇桓, 張瑞根, 何美玲, 王志光, 王國照 (2012, Oct). Porous Bioceramic was Fabricated Using Thermo-Responsive Hydrogel Combined with Controlled-Release of rhBMP-2 Carriers for Non-union Bone Defect. Annual Meeting of Taiwan Orthopedic Association. 本人為第一作者.
- 8.陳崇桓, 林松彥, 陳建志, 黃炫迪, 黃鵬如, 傅尹志, 鄭裕民 (2012, Oct). Intra-Operative Screw Bending of a 7.0mm Iliosacral Stainless Screw During Pelvic Fracture Fixation in an Asian Female. Annual Meeting of Taiwan Orthopedic Association.
- 9.陳崇桓, 林宜珊, 張瑞根, 傅尹志, 林松彥, 王國照, 何美玲 (2012, Oct). Intra-Articular Parathyroid Hormone (1-34) Improved Knee Osteoarthritis and Function in Guinea Pig with Spontaneous Osteoarthritis. Annual Meeting of Taiwan Orthopedic Association.
- 10.陳崇桓, 黃炫迪, 康琳, 黃鵬如, 傅尹志, 林松彥, 陳建志, 鄭裕民 (2012, Oct). Successful Treatment of Atypical Fracture After Long-Term Use of Alendronate by Teriparatide Without Surgery in a Post-Menopausal Woman: A Case Report. Annual Meeting of Taiwan Orthopedic Association.
11. C.K. Wang\*, Y.C. Fu, M.L. Ho, C.Z. Wang (2012, Jun). Bioceramic scaffolds combined with controlled release of rhBMP-2 microcarriers for non-union bone healing. 9th World Biomaterials Congress (WBC) Chengdu, China.
- 12.潘力誠, 王志光\*, 劉伯倫, 鄭添祿, 傅尹志 (2012, Apr). Study of PEGylated PLGA nanoparticles target PEG antibody-mediated endocytosis of cancer cells. 中華民國生醫材料及藥物制放學會 2012 年會暨研討會. 本人為通訊作者.
13. Jian-Chih Chen, Ru-Wei Lin, Rita Santos Wu, Yi-Shan Lin, Mei-Ling Ho, Je-ken Chang, Shao-Hung Hung, Yin-Chih Fu, Gwo-Jaw Wang, Chung-Hwan Chen (2012, Feb). Biodegradable Bis (PLGA-phe-PEG)-qDETA Cationic Nanoparticles for Local Hydrophobic Drug Delivery. The 38th Annual Meeting & Exposition of the Controlled Release Society, National Harbor.
14. Y.C. Fu\*, C.K. Wang, J.K. Chang, C.H. Chen, G.J. Wang, M.L. Ho (2012, Feb). New porous bioceramic material formed via thermo-responsive hydrogel template. 2012 Annual Meeting of the Orthopaedic Research Society, San Francisco, USA, Feb 4-7, 2012. 本人為第一作者.
15. C.K. Wang\*; Y.C. Fu, S.C. Chien, C.Z. Wang, M.L. Ho (2011, Jun). Biphasic calcium phosphate porous scaffold made by Thermo-Responsive Hydrogel. 29th annual conference of the canadian biomaterials society, Vancouver, Canada, June 1-4, 2011.
16. Chung-Hwan Chen\*, Yi-Shan Lin, Shun-Cheng Wu, Shao-Hung Hung, Yin-Chih Fu, Je-Ken Chang, Gwo-Jaw Wang, Mei-Ling Ho (2011, Jan). Parathyroid hormone (1-34)

improved knee osteoarthritis and function in rats with anterior cruciate ligament transaction. 2011 Annual Meeting of the Orthopaedic Research Society, Long Beach, USA.

17. Chung-Hwan Chen, Yi-Shan Lin, Je-Ken Chang, Shau-Hung Hung, Shun-Cheng Wu, Yin-Chih Fu, Gwo-Jaw Wang, Mei-Ling Ho (2010, Nov). Parathyroid hormone (1-34) improved knee osteoarthritis and function in rats. The Combined Academic Conference of 16th Triennial Congress of Asia Pacific Orthopaedic Association (APOA) and 59th Annual Meeting of Taiwan Orthopedic Association (TOA), Taipei, Taiwan.

18. Yin-Chih Fu, Chih-Chun Lin, Je-Ken Chang, Chung-Hwan Chen, Kao-Chi Chung, Gwo-Jaw Wang, Mei-Ling Ho (2010, Oct). A novel single pulsed electromagnetic field stimulates the osteogenesis and angiogenesis ---- in vitro and in vivo study. The Combined Academic Conference of 16th Triennial Congress of Asia Pacific Orthopaedic Association (APOA) and 59th Annual Meeting of Taiwan Orthopedic Association (TOA), Taipei, Taiwan. 本人為第一作者.

19. LC Tai, CJ Wang, YC Fu, JK Chang, E. Rajalakshmanan, ML Ho (2010, Mar). Effect of controlled Local Delivery of Simvastatin/PLGA Carrier on Bone Healing. The 56th Annual Meeting of Orthopaedic Research Society, New Orleans, USA.

20. 陳建勳, Yin-Chih Fu, Hemin Nie, Chi-Hwa Wang, Mei-Ling Ho (2010, Feb). Development of controlled-release drug carriers for regenerating large bone defect. 2010 Annual Meeting of Formosa Association of Regenerative Medicine Scientific Program, Taipei, Taiwan.

## 五、近三年內執行之研究計畫

(請務必填寫近三年所有研究計畫，不限執行本部計畫)

計畫名稱 (本部補助者請註明編號)	計畫內擔任之工作	起迄年月	補助或委託機構	執行情形	經費總額
脂肪幹細胞誘導之肌小管合併玻尿酸生醫 3D 支架治療肌肉缺損大鼠模式	計畫主持人	2021/08/01 ~ 2022/07/31	科技部	執行中	970,000
6%防沾黏於活體內降解試驗及有效性評估	計畫主持人	2021/02/01 ~ 2021/09/30	科妍生物科技股份有限公司	執行中	644,138
節膝及加強型關節腔產品於退化性關節炎大鼠之降解試驗及有效性	計畫主持人	2021/02/01 ~ 2021/09/30	科妍生物科技股份有限公司	執行中	710,355
含促骨生成物質之高階植入式複合醫材應用於脊柱融合術之研究	共同主持人	2018/11/01 ~ 2021/09/30	和康生物科技股份有限公司	執行中	18,105,000
建構台灣骨科醫療器材國際產研暨訓練中心(第二年期)	計畫主持人	2019/08/02 ~ 2021/02/01	科技部南部科學工業園區管理局	已結案	8,000,000
建構台灣骨科醫療器材國際產研暨訓練中心(第一年期)	計畫主持人	2018/08/02 ~ 2019/08/01	科技部南部科學工業園區管理局	已結案	8,000,000



## 六、專利：

請填入目前仍有效之專利。「類別」請填入代碼：(A)發明專利(B)新型專利(C)新式樣專利。

類別	專利名稱	國別	專利號碼	發明人	專利權人	專利核准日期	科技部計畫編號
A	一種手術用導件	新加坡	11201903751U	傅尹志;李天慶;王彥雄;王志光;許雅娟	高雄醫學大學	2021/07	
A	一種手術用導件	美國	US 10,932,881	傅尹志;李天慶;王彥雄;王志光;許雅娟	高雄醫學大學	2021/03	
A	積層製造 3D 列印物品的方法	歐盟	專利字號 3385057	王志光;何美玲;潘力誠;傅尹志;陳崇桓;張瑞根	高雄醫學大學	2021/03	
A	積層製造 3D 列印物品的方法	日本	專利字號 6676245	王志光;何美玲;潘力誠;傅尹志;陳崇桓;張瑞根	高雄醫學大學	2020/03	
A	积层制造 3D 打印物品的方法	中國	專利字號 4274912	王志光;何美玲;潘力誠;傅尹志;陳崇桓;張瑞根	高雄醫學大學	2021/02	

A	一種非侵入式鎖固骨骼的定位系統及方法	中國	專利字號 3913105	傅尹志;王朝盛;李天慶;何美冷;陳威圻	高雄醫學大學 國立中山大學	2020/07	
A	一種非侵入式鎖固骨骼的定位系統及方法	美國	US 10,695,135	傅尹志;王朝盛;李天慶;何美冷;陳威圻	高雄醫學大學 國立中山大學	2020/06	
A	一種非侵入式鎖固骨骼的定位系統及方法	歐洲 (德、法、英、瑞士)	專利字號 3318203	傅尹志;王朝盛;李天慶;何美冷;陳威圻	高雄醫學大學 國立中山大學	2020/04	
A	骨釘裝置	美國	US 10,278,752	王朝盛、李天慶、何美冷、傅尹志、陳威圻	高雄醫學大學 國立中山大學	2019/5	
A	骨釘裝置	中國	專利字號 3347120	王朝盛、李天慶、何美冷、傅尹志、陳威圻	高雄醫學大學 國立中山大學	2019/4	
A	骨釘裝置	歐洲 (德、法、英、瑞士)	專利字號 3155990	王朝盛、李天慶、何美冷、傅尹志、陳威圻	高雄醫學大學 國立中山大學	2019/3	

A	一種手術用導件	中華民國	發明第 I649061 號	傅尹志;李天慶;王 彥雄;王志光;許雅 娟	高雄醫 學大學	2019/02	
A	醫院用之安全約束架	中華民國	發明第 I627947 號	傅尹志;李旻燕;周 惠玲	高雄醫 學大學	2018/07	
A	一種非侵入式鎖固骨骼的定位系統及方法	中華民國	發明第 I618526 號	傅尹志;王朝盛;李 天慶;何美冷;陳威 圻	高雄醫 學大學 國立中 山大學	2018/03	
A	骨釘裝置	中華民國	發明第 I563963 號	王朝盛、李天慶、 何美冷、傅尹志、 陳威圻	高雄醫 學大學 國立中 山大學	2017/01	
A	積層製造 3D 列印物品的方法	中華民國	發明第 I611892 號	王志光;何美冷;潘 力誠;傅尹志;陳崇 桓;張瑞根	高雄醫 學大學	2018/01	
A	藥物緩釋系統及其製備方法	中華民國	發明第 I457146 號	傅尹志、王志光、 王國照、何美冷、 張瑞根、曾誠齊	高雄醫 學大學	2014/10	
A	異口呋唑衍生物及包含此衍生物之醫藥組合物	中華民國	發明第 I365071 號	曾誠齊、陳義龍、 王國照、何美冷、 張瑞根、傅尹志	高雄醫 學大學	2012/06	

A	控制釋放之醫藥組合物及其製備方法	中華民國	發明第 I362947 號	傅尹志、王志光、王國照、何美玲、陳惠亭、張瑞根、曾誠齊	高雄醫學大學	2012/05	
A	Isoxazole derivatives and pharmaceutical compositions comprising the same	美國	US 8138184	Cherng-Chyi Tzeng, Yeh-Long Chen, Gwo-Jaw Wang, Mei-Ling Ho, Je-Ken Chang, Ying-Chih Fu	高雄醫學大學	2012/03	
A	異黃酮衍生物及包含此衍生物之醫藥組合物	中華民國	發明第 I324514 號	曾誠齊、陳義龍、王國照、何美玲、張瑞根、傅尹志、	高雄醫學大學	2010/05	
A	Isoxazole derivatives and pharmaceutical compositions comprising the same	美國	US 7618998	Cherng-Chyi Tzeng, Yeh-Long Chen, Gwo-Jaw Wang, Mei-Ling Ho, Je-Ken Chang, Ying-Chih Fu	高雄醫學大學	2010/05	

七、技術移轉：

技術名稱	專利名稱	授權單位	被授權單位	簽約日期	科技部計畫編號
和康生技公司提供之骨材產品合併 simvastatin 載體對促進骨生長之加值性研究	和康生技公司提供之骨材產品合併 simvastatin 載體對促進骨生長之加值性研究	高雄醫學大學	和康生物科技股份有限公司	2014-08-01 ~2024-07-31	AZ-17-21-53-102 (科技部南部科學工業園區管理局)
控制釋放之醫藥組合物及其製備方法	1.控制釋放之醫藥組合物及其製備方法 2.藥物釋放系統及其製備方法	高雄醫學大學	和康生物科技股份有限公司	2015-09-01 ~2027-08-31	102-EC-17-A-19-S1-176 (經濟部)

<p>PTH 應用於早期退化性關節炎創新性治療技術</p>	<p>1.抑制及/或回復細胞終端分化的組成物</p> <p>2.抑制及/或回復細胞終止分化的方法，以及治療及/或抑制關節炎的組成物</p> <p>3.早期骨關節炎的治療</p> <p>4.由聚乳酸-甘醇酸 [poly(lactic-co-glycolic acid); PLGA]微小球控制釋放副甲狀腺素之方法</p> <p>5.一種控制釋放 parathyroid hormone 的方法</p>	<p>高雄醫學大學</p>	<p>華醫康股份有限公司</p>	<p>2017-07-20 ~2032-07-19</p>	
<p>PTH 應用於早期退化性關節炎創新性治療技術</p>	<p>由聚乳酸-甘醇 [poly(lactic-co-glycolic acid); PLGA]微小球控制釋放副甲狀腺素之方法</p>	<p>高雄醫學大學</p>	<p>東生華製藥股份有限公司</p>	<p>2014/10 ~ 2015/10</p>	<p>PTH 應用於早期退化性關節炎創新性治療技術</p>

使用副甲狀腺荷爾蒙	早期骨關節炎 骨的治療	高雄 醫學大學	台灣神隆股份有 限公司	2010/03 ~ 2010/10	使用副甲狀腺荷 爾蒙
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八、近五年國內外之成就與榮譽(請註明名稱與日期)

學年度	獲獎勵名稱	獎勵機構	獲獎日期
111	2022年第十九屆「國家新創精進獎」- 技術名稱：「腕隧道症候群微	社團法人國家生技醫療產業策進會	2022.12.06
109	2020年第十七屆國家新創獎- 臨床新創獎 技術名稱：「腕隧道症候群微創器具」	國家生技醫療產業策進會	2020.12.01
109	2020年第十七屆國家新創獎- 新創精進獎 技術名稱：「體外光學精密螺孔定位儀器」	國家生技醫療產業策進會	2020.12.01
108	2019年第十六屆國家新創獎- 臨床新創獎 技術名稱：「體外光學精密螺孔定位儀器」	國家生技醫療產業策進會	2019.12.06
105	第十三屆國家新創獎(學研獎) 技術名稱：創新陶瓷積層製造技術	國家生技醫療產業策進會	2016.11.10
105	技術移轉績優獎	高雄醫學大學	2016.09.28
105	專利獲證績優獎	高雄醫學大學	2016.09.28
105	產學合作卓越獎	高雄醫學大學	2016.09.28
104	產學合作績優獎 Excellence in Industry Cornoration	高雄醫學大學	2015.10.16
104	專利獲證卓越獎 Outstanding Award of Patent Approval	高雄醫學大學	2015.10.16
104	技術移轉優良獎 Award of Technology Transfer	高雄醫學大學	2015.10.16



103	台灣骨科研究學會第八屆 SCI 優秀論文比賽 Impact factor 單 項最高分組第一名	台灣骨科研究 學會	2014.10.18
103	102學年度專利獲證績優獎	高雄醫學大學	2014.10.16
103	102學年度產學合作績優獎	高雄醫學大學	2014.10.16
103	2012年研究績優教師-研究成果 績優獎一般教師組	高雄醫學大學	2013.10.16

## **Abstract of remarks**

**Shun-Te Huang Emeritus Professor**

**Department of Oral Hygiene, College of Oral Medicine**

**Kaohsiung Medical University**

**Pediatric Dentistry and Special Care Dentistry, Kaohsiung Medical  
University Hospital**

Eating is an essential step to maintain life, provide nutrition, immunity and enjoyment in life. Once choking occurs during eating (mastication and swallowing disorders), the pleasure of eating will instantly turn into discomfort, plunge the sufferer into the abyss of pain, in addition, the dysphagia problem causes physiological disturbances, psychological anxiety, and even social isolation.

The dysphagia will reduce the amount of food and drink intake, resulting in nutritional deficiency and dehydration.

When the dysphagia problem becomes severe, it may occur even during mouth rinsing, and then reduce oral cleaning activities such as brushing teeth and rinsing mouth. Bacteria in the oral cavity will ferment and multiply. When there is a large volume of bacteria in the oral cavity and throat, it increases the risk of infection to the trachea and lungs with the occurrence of choking, so-called "aspiration pneumonia" is caused. Because the problem of chewing and swallowing disorder (choking) is very serious, and the number of people affected is very large, it has become a life safety problem that needs to be faced very seriously even from government and society as a whole.

However, our country, just like many countries, has entered an aging society, more and more people need long-term care; due to the sequences of aging, cancer and the sequelae of systemic diseases such as stroke, dementia, Parkinson's disease, etc. The number of people suffering from mastication and swallowing disorders has increased dramatically

The long-term care persons with ingestion, mastication and swallowing disorders account for more than 60% of the residents in institutions, and there are at least 400,000 people in terms of the entire population in

Taiwan.


If we add the number of children with disability such as cerebral palsy, autistic spectrum syndrome, Down's syndrome and muscular atrophy, the number is double, triple or even four times more.

The cause, mechanism and effect of mastication and swallowing disorders (dysphagia) are so complex and far-reaching that they cannot be resolved by a single discipline. To overcome these derivative problems, it is necessary and important to cooperate with a multi-professional team, including clinical diagnosis from neurology, internal medicine, geriatrics, dentistry, imaging medicine, otolaryngology and other major fields. To rely on the rehabilitation department, speech therapists, nursing department, nutrition department, dental department and oral hygienists is essential to join our trans-disciplinary approach team work. Then, long-term care needs persons and people with disabilities can maintain proper oral health and function, eat by mouth happily and safely to enjoy Taiwanese, Japanese, Korean and exotic cuisine and maintain a good quality of life.

This time, in conjunction with the launching ceremony of Kaohsiung Medical University's "Chewing and Swallowing Health Industry Talents Training Base Project", the "Trans-disciplinary International Symposium on Chewing and Swallowing Difficulties" was held simultaneously, and more than 20 top experts and scholars from Taiwan and abroad were invited to participate. In this academic feast, they are all leaders who have devoted their lives to studying mastication and swallowing disorders and related fields. Through dialogue with international and domestic experts and scholars, we hope to stimulate greater sparks of wisdom, verify the milestones of our regional and medical university teams' progress in this field, absorb the essence of international wisdom, and also demonstrate the achievements of regional and medical universities. That is our lofty ambition for this conference.

## 主持人/講者簡介

### 楊俊毓

<b>現職</b>	<ul style="list-style-type: none"> <li>● 高雄醫學大學校長</li> <li>● 高雄醫學大學公共衛生學系特聘教授</li> <li>● 國家衛生研究院 國家環境醫學研究所合聘研究員</li> </ul>	
<b>學歷</b>	<ul style="list-style-type: none"> <li>● 美國耶魯大學環境衛生科學系博士</li> <li>● 國立台灣大學公共衛生學研究所碩士</li> <li>● 國立台灣大學公共衛生學系學士</li> </ul>	
<b>經歷</b>	<ul style="list-style-type: none"> <li>● 高雄醫學大學代理校長</li> <li>● 高雄醫學大學副校長</li> <li>● 高雄醫學大學資訊處資訊長</li> <li>● 高雄醫學大學電子計算機中心主任</li> <li>● 高雄醫學大學健康科學院院長</li> <li>● 高雄醫學大學公共衛生學系(所)主任(所長)</li> <li>● 高雄醫學大學教務處研教組組長</li> <li>● 國立台灣大學校友總會理事</li> <li>● 高雄市台大校友會理事長、名譽理事長</li> <li>● 台灣流行病學學會理事長、監事；台灣公共衛生學會理事、常務理事</li> <li>● 國際環境流行病學會亞太分會(ISEE Asia and Western Pacific Chapter)理事</li> <li>● 台灣職業衛生學會理事、常務理事</li> <li>● 台灣室內環境品質學會理事、監事</li> <li>● 高等教育評鑑中心公共衛生學門規劃委員、召集人</li> <li>● 國科會生物處 公共衛生及環境醫學學門複審委員</li> <li>● 國科會自然處 永續學門複審委員</li> <li>● 考試院考選部典試委員、命題委員、題庫小組委員</li> <li>● 教育部顧問室諮議委員；教育部大學校院變更審議委員會委員</li> <li>● 教育部學術審議委員會簽審顧問</li> <li>● 教育部大學校院增設、調整院系所及學位學程特殊項目醫學組召集人</li> <li>● 行政院傑出科技貢獻獎初、複審委員</li> </ul>	
<b>專長</b>	<ul style="list-style-type: none"> <li>● 環境流行病學</li> <li>● 生物統計</li> </ul>	

## 授課講師學經歷

姓名	葉佳雯			
服務單位(包含職稱)	葉佳雯營養諮詢機構 執行長			
學歷	台灣中國醫藥大學營養系碩士			
經歷(需包含年資)	職稱	服務機構	起訖年月	年資
	負責人	葉佳雯營養諮詢機構	2006.10~迄今	17年
	營養師	信義老人養護中心	2005.2~迄今	18年1個月
	營養師	彰化基督教醫院營養部	1998.2~2003.10	5年8個月
	營養師	新生醫院呼吸照護病房	2008.1~2017.2	9年1個月
	營養師	安心洗腎室	2009.1~2018.6	9年6個月
	營養師	大恩精神護理之家	2010.1~迄今	13年
	兼任講師	中山醫學大學營養系	2014.2~迄今	10年1個月
	兼任講師	靜宜大學食品營養系	2014.2~迄今	10年1個月
	兼任講師	中國醫藥大學營養系	2023.2~迄今	1個月
	營養總監	南京朗詩常青藤養老事業	2017.1~2020.12	4年
	著作	洗腎食譜		
	營養師	彰化縣學童減重計畫策劃執行	2005~2006	2年
	營養師	居家服務	2005~2006; 2017.10~2021.1 2	2年 4年2個月
證 照 及 聘 書	(一) 台灣及大陸營養師證書 (二) 糖尿病衛教學會合格證書 (三) 腎臟專科營養師證書 (四) 教育部講師證書 (五) 中餐及西餐烹調丙級證照 (六) 丙級園藝技術士證照 (七) 中華民國營養師公會全國聯合會品質促進委員會長照組委員 (八) 中華民國營養師公會全國聯合會監事 (九) 臺中市營養師公會常務監事			
專 長	糖尿病專科/腎臟專科/減重專科/居家營養/老人營養照顧			
備 註				

## 高雄醫學大學醫學系公衛學科 黃孟娟 博士

聯絡方式: [mechhu@kmu.edu.tw](mailto:mechhu@kmu.edu.tw) 或 07-3121101 ext 5341 or 2776

### 學歷

中國文化 大學食品營養系	學士	1986.9 ~ 1990.7
美國奧本大學營養與食品科學	碩士	1991.8 ~ 1993.12
美國奧本大學營養與食品科學	博士	1994.1 ~ 1997.12

### 現職 (任)

高雄醫學大學醫學系公共衛生學科	教授	2013.08~目前
高雄醫學大學附設醫院醫事訓練中心	副主任	2020.08-目前
高雄醫學大學醫學系	副主任	2012.08~目前
高雄醫學大學附設醫院營養部	主任	2003.08 ~目前
中華民國營養師公會全國聯合會	常務理事	2013.08 ~目前
營養師全聯會學術暨教學品質促進委員會	主任委員	2019.07~目前
台灣營養學會	理事	2021.07 ~目前

### 現任專業服務

台灣膳食營養學雜誌	主編	2013.08 ~目前
台灣腎臟醫學會腎臟防治	委員	2011.01 ~目前
中華民國癌症希望學會	學術委員	2006.05 ~目前
衛生福利部醫院暨教學醫院評鑑	儲備委員	2012.01~2022.12
食藥署「特定疾病配方食品專家諮詢會」	委員	2019.01~2022.12

### 經歷

高雄醫學大學附設醫院臨床教育訓練部	副主任	2015.08~ 2020.07
高雄醫學大學醫學系	副主任	2012.08~2015.07
高雄市營養師公會	理事	2013.06~ 2016.05
台灣營養學會	監事	2012.06 ~2015.06
高雄醫學大學醫學系公衛學科	副教授	2009.08~2013.07
高雄醫學大學呼吸治療學系	副教授	2007.08 ~ 2009.7
高雄醫學大學醫學系公衛學科	助理教授	2001.08~ 2007.7
台灣營養學會	理事	2006.06 ~ 2012.06
2009 年世界運動會	餐飲諮詢委員	2008.08 ~ 2009.07
台灣國家衛生研究院環職組	博士後	2001.02 ~ 2001.07
大仁技術學院食品衛生科	助理教授	1999.08 ~ 2001.01
美國康乃爾大學營養研究所	博士後	1997.12 ~ 1999.10
中國文化大學食品營養系	助教	1990.08 ~ 1991.07

## 醫療相關專業證照

營養師高考	營養師	2004.06 ~ 目前
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## 本國專業學會會員

台灣營養學會	台灣腸道靜脈營養學會	台灣糖尿病衛教學會
台灣腎臟醫學會	中華民國全國營養師聯合公會	

## 國際專業學會會員

美國營養學會	美國腸道靜脈營養學會	
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## 研究領域

- 1 臨床營養: 重症、癌症、糖尿病及慢性腎臟疾病為主題之飲食評估及營養介入
- 2 營養與基因流行病學: 飲食、脂肪酸及探討與發炎或細胞激素相關基因交互作用與糖尿病、慢性腎臟疾病疾病之相關性研究
- 3 營養與環境對嬰幼兒發展之流行病學研究: 探討必需脂肪酸與環境污染物對嬰幼兒神經發展相關性之研究

## 近五年之國科會補助研究計畫 (擔任主持人)

1. 2013.08.01-2016.07.31 (三年計畫) 飲食型態、飲食相關生物標記與糖尿病微血管病變進展之世代追蹤研究 (國科會 102-2628-B-037-008-MY3)
2. 2017.08.01-2018.07.31 (一年計畫) 基因多型性、最終糖化蛋白 (advanced glycation end products/AGEs) 及飲食型態與糖尿病腎病變發展相關性之研究 (106-2320-B-037 -023 -)
3. 2018.08.01-2019.07.31 (一年計畫) 以前瞻性研究設計探討最終糖化蛋白 (advanced glycation end products/AGEs)、發炎蛋白質體及飲食型態生物指標與糖尿病腎臟及視網膜病變發展之相關性 (107-2320-B-037 -007 -)
5. 2019.08.01-2020.07.31 (一年計畫) 飲食型態生物指標, 腸道微生物群及智慧營養諮詢介入對糖尿病微血管病變發展之影響 (108-2320-B-037 -031)
6. 2020.08.01-2023.07.31 (三年計畫) 身體組成、脂肪代謝基因與飲食因素交互作用對停經前或停經後乳癌風險發展之研究 (109-2320-B-037-030-MY3)

## 研究獲獎經歷

1. (研究獲獎) **Meng-Chuan Huang** The First Place for Oral Presentation of Science of Graduate Research Forum of 1993-1994. Auburn University, Auburn, Alabama, USA.  
1993-1994 美國奧本大學研究所研究論文競賽第一名
2. (研究獲獎) **Meng-Chuan Huang** 1996-1997 Dean's Award for Excellence. In Recognition of Meritorious Scholarship and Achievement during the Pursuit of the Doctoral Degree in Nutrition and Food Science. Auburn University, Auburn, Alabama, USA  
1996-1997 美國奧本大學傑出博士班研究生獎
3. (研究獲獎) **Meng-Chuan Huang** 1996-1997 Graduate Dean's Award for Excellence of International Graduate Students. Auburn University, Auburn, Alabama, USA

- 1996-1997 美國奧本大學傑出國際研究生獎
4. (研究獲獎) **Meng-Chuan Huang** Applied and Clinical Nutrition Research Award. 2008. Taiwan Nutrition Society., Taiwan  
2008 年營養學會應用 (臨床) 營養研究獎
  5. (研究獲獎) **Meng-Chuan Huang** 2008 Tsung-Ming Tu Foundation: Young Scientist Research Award. Kaohsiung Medical University, Taiwan 2008 年高雄醫學大學杜聰明院長紀念基金青年優秀論文獎
  6. (研究獲獎) **Meng-Chuan Huang** 2010 Outstanding Research Award, Kaohsiung Medical University, Taiwan  
2010 年高雄醫學大學研究傑出教師
  7. (研究獲獎) **Meng-Chuan Huang** Award for Research Excellence. 2016. Taiwan Nutrition Society., Taiwan  
2016 年營養學會營養學術研究傑出獎

### 教學或指導研究論文獲獎經歷

1. (教學獲獎)2009 Taiwan Society of Nutrition, Student Best Poster Awards/Public Health Nutrition 台灣第 35 屆營養年會暨學術研討會 (**指導高醫醫研所研究生公衛營養領域優秀壁報論文獎**)  
PY Sun and **MC Huang**. Associations of placental fatty acids and dibenzo-p-dioxins/dibenzofurans (PCDD/Fs) and dioxin-like polychlorinated biphenyls (PCBs) in pregnant women from central Taiwan. Annual Congress of Nutrition Society of Taiwan (5.22-23, 2008, Taichung, Taiwan)  
孫佩儀, 王淑麗, 黃孟娟. 胎盤脂肪酸與戴奧辛與多氯聯苯相關性之研究.(台灣 第 35 屆營養年會暨學術研討會, 98 年 5 月 22-23 日, 台中, 台灣)
2. (教學獲獎)2010 Taiwan Society of Nutrition, Student Best Poster Awards/Public Health Nutrition 台灣第 36 屆營養年會暨學術研討會 (**指導高醫醫研所研究生臨床營養領域優秀壁報論文獎**)  
HR Jhang, CH Lin, CC Hsu, **MC Huang**. Increases in vegetable consumption may be associated with reduced risks of diabetic nephropathy. Annual Congress of Nutrition Society of Taiwan (5.21-22, 2008, Taichung, Taiwan).  
章慧如, 林佳慧, 許志成, 黃孟娟. 增加蔬菜攝取可能降低第二型糖尿病腎病變之風險.(台灣第 35 屆營養年會暨學術研討會 (99 年 5 月 21-22 日, 台北, 台灣)
3. (教學獲獎) 2010 Excellent Teaching Award, Kaohsiung Medical University, Taiwan  
**黃孟娟**. 高雄醫學大學 99 學年度醫學院教學優良教師
4. (教學獲獎) 2011 Taiwan Society of Nutrition, Student Best Poster Awards/Public Health Nutrition 台灣第 37 屆營養年會暨學術研討會 **公衛營養領域優秀壁報論文獎 (指導高醫研究生)**。陳寶山, 章慧如, 辛錫璋, 黃尚志, 許志成, 黃孟娟. Interleukin-6 基因多型性, 非 n-3 多元不飽和脂肪酸, 與第二型糖尿病患腎病變進展相關-前瞻性世代追蹤研究.(台灣第 37 屆營養年會暨學術研討會 (100 年 6 月 4-5 日, 台中, 台灣)。
5. (教學獲獎) 2014 Taiwan Society of Nutrition, Best Poster Awards/Clinical Nutrition 台灣第 40 屆營養年會暨學術研討會臨床營養領域優秀壁報論文獎(**指導高醫研究生**)。吳玉茹, 陳梅恩, 蔡忠榮, 許超群, 黃尚志, 黃孟娟. 熱量攝取足夠與非肥胖內科重症病人死亡相關 (台灣第 40 屆營養年會暨學術研討會 (103 年 5 月 23-24 日, 台北, 台灣)。
6. (教學獲獎) 2014 Taiwan Society of Parenteral and Enteral Nutrition, Best Oral Presentation



Awards/Clinical Nutrition 台灣靜脈暨腸道營養醫學會 103 年度秋季學術研討會口頭論文報告第一名 (指導高醫研究生)。吳玉茹、陳梅恩、許玉恆、蔡忠榮、許超群、黃尚志、黃孟娟。蛋白質攝取接近建議量與非肥胖內科重症病人死亡相關。(靜脈暨腸道營養醫學會 103 年度秋季學術研討會 (103 年 10 月 25-26 日, 高雄, 台灣)。

7. (教學獲獎) 2015 Taiwan Society of Nutrition, Best Poster Awards/Public Health Nutrition 台灣第 41 屆營養年會暨學術研討會公衛營養領域優秀壁報論文獎 (指導高醫研究生)。章慧如, 廖彥菱, 許志成, 黃尚志, 黃孟娟。以前瞻性世代研究探討飲食生物標記(葉酸和鐵蛋白)與糖尿病腎病變之相關性 (台灣第 41 屆營養年會暨學術研討會 (104 年 5 月 23-24 日, 台南, 台灣)。
8. (教學獲獎) 2020 年中華民國營養師公會全國聯合會學術論文暨個案照護發表「學術論文組」特優 (指導高醫研究生)。黃孜婷、林季宏、侯明鋒、黃孟娟。題目：營養素攝取量及飲食型態與停經前後乳癌風險之相關性-病例對照研究。
9. (教學獲獎) 2020 Excellent Teaching Award, Kaohsiung Medical University Hospital, Taiwan 黃孟娟. 2020 年高雄醫學大學附設中和紀念醫院教學優良教師

### 臨床營養專案獲獎

1. (專案獲獎)高雄醫學大學附設醫院「99 年度品質改善活動競賽」行政管理組金獎。  
吳玉茹、蘇郁婷、吳月盈、歐麗美、施登瓊、洪綺蘭、黃孟娟(圈長)。以 PDCA 品管模式改善病膳醫囑系統及全院訂餐率。
2. (專案獲獎)醫策會第 11 屆「醫療品質獎」潛力獎。  
吳玉茹、蘇郁婷、歐麗美、施登瓊、洪綺蘭、黃孟娟(圈長)。以 PDCA 品管模式改善病膳醫囑系統及全院訂餐率。
3. (專案獲獎)高雄醫學大學附設醫院「100 年度品質改善活動競賽」行政管理組金獎  
黃孟娟(圈長)、劉劭君、陳梅恩、洪綺蘭、施登瓊、吳鈴珠、林貴香、侯宥如。改善癌症病患營養不良篩選流程及篩選成效專案。
4. (專案獲獎) 2011 Distinguished Alumni. Kaohsiung Municipal San Min Junior High School  
黃孟娟. 高雄市立三民國民中學傑出校友
5. (專案獲獎)2012 年第五屆健康促進醫院創計畫競賽獲獎 (台灣健康醫學會)  
黃孟娟、吳采錦、蘇怡如。「建立量身訂做食物份量衛教模式 健康及份量知識滿分」。第五屆健康促進醫院創意計畫優等獎 (第六屆全國健康促進醫院研討會、101 年 9 月 10 日, 台北, 台灣)
6. (專案獲獎) 2013 年領導高雄醫學大學附設醫院營養師團隊以「人本、專業、創新的營養醫療領航家」榮獲 2013「SNQ 國家品質標章」。(2014 續證通過)
7. (專案獲獎) 2014 年高雄醫學大學附設醫院「103 學年度品質改善活動競賽」基礎組優選。  
吳玉茹、朱蓉倩、孫珮儀、許玉恆、章慧如、溫心璇、李芝儀、蕭世槐、黃孟娟。題目：營造健康飲食支持環境，樂活你我均衡美食。
8. (專案獲獎) 2014 年高雄醫學大學附設醫院「103 學年度品質改善活動競賽」基礎組人氣海報獎。  
吳玉茹、朱蓉倩、孫珮儀、許玉恆、章慧如、溫心璇、李芝儀、蕭世槐、黃孟娟。題目：營造健康飲食支持環境，樂活你我均衡美食。
9. (專案獲獎) 2015 年高雄醫學大學附設醫院「104 年品質改善競賽活動」基礎組優選。顏偵雯、朱蓉倩、陳宜貞、吳玉茹、吳季蓉、周智亮、李素、林輝蘭、蔡博宇、黃孟娟。題目：推展醫事職類 OSCE 評量導入執行率。

10. (專案獲獎) 2015 年高雄醫學大學附設醫院「104 年品質改善競賽活動」基礎組 優選。吳玉茹、許玉恒、章慧如、溫心璇、廖欣瑩、施脈、吳玲琨、黃文男、徐其德、黃孟娟。題目：員工健康餐盒 go 夠夠。
11. (專案獲獎) 2016 年高雄醫學大學附設醫院「105 年品質改善競賽活動」基礎組 優選。顏偵雯、朱蓉倩、蔡伊純、郭仕勳、陳宜貞、周智亮、許郁笙、許芸瑋、蔡博宇、黃孟娟。題目：提升醫事職類臨床技能 OSCE 評量執行成效。
12. (專案獲獎) 2016 年高雄醫學大學附設醫院「105 年品質改善競賽活動」基礎組 特優。孫珮儀、溫心璇、章慧如、林美瑩、施登瓊、黃孟娟。題目：再造頭頸癌病人門診營養會診流程及成效監測。
13. (專案獲獎) 2016 年高雄醫學大學附設醫院「105 年品質改善競賽活動」基礎組 優選。孫麗珠、黃孟娟、施登瓊、石英鈴、許玉恒、李金美、莊瑞芬、陳美杏、王照元。題目：整合全靜脈營養會診流程與會診回覆及改善成效。
14. (專案獲獎) 2017 年高雄醫學大學附設醫院「106 年品質改善競賽活動」基礎組 特優。孫麗珠、黃孟娟、施登瓊、石英鈴、許玉恒、李金美、莊瑞芬、陳美杏、王照元。題目：吳玉茹、溫心璇、廖欣瑩、鄭雯文、武香君、楊濶菱、蕭有松、黃孟娟。
15. (專案獲獎) 2018 年中華民國營養師公會全國聯合會營養研討會暨營養品質促進專案發表「壁報發表-教學技能組」品質提升獎。黃泰傑、朱蓉倩、吳玉茹、顏偵雯、黃孟娟。題目：問題導向學習及 OSCE 評量搭起邁向臨床實境的橋梁。
16. (專案獲獎) 2018 年高雄醫學大學附設醫院「107 年品質改善競賽活動」基礎組 佳作。溫心璇、陳梅恩、章慧如、劉劭君、施登瓊、郭淑文、李育珮、陳淑惠、侯宥如、黃孟娟。題目：改善全院營養不良篩檢標準及照護一致性~對正確率、即時性和照護成效之影響。
17. (專案獲獎) 2019 年高雄醫學大學附設醫院「108 年品質改善競賽活動」基礎組 優選。吳玉茹、張家豪、陳梅恩、許玉恒、郭瑜萱、黃雄飛、吳幸容、黃秀蓁、黃孟娟。題目：愛要即食-貼心購營養。
18. (專案獲獎) 2019 年中華民國營養師公會全國聯合會營養研討會暨營養品質促進專案發表「壁報發表-行政供膳管理組」特優。張家豪、吳玉茹、陳梅恩、許玉恒、吳幸容、黃秀蓁、黃孟娟。題目：用心、安心、貼心，營養 GOGOGO。
19. (專案獲獎) 2019 年中華民國營養師公會全國聯合會營養研討會暨營養品質促進專案發表「壁報發表-教學技能組」特優。溫心璇、蘇怡如、劉劭君、蔡秋嫻、施登瓊、王程遠、黃孟娟。題目：雲端 5E 翻轉營養職類實習學生訓練歷程。
20. (專案獲獎) 2021 年中華民國營養師公會全國聯合會營養研討會暨營養品質促進專案發表「壁報發表-行政供膳管理組」特優。張家豪、吳玉茹、李依鴻、吳采錦、李權峯、黃孟娟。題目：吞嚥困難評估及營養照護一條龍。
21. (專案獲獎) 2021 年中華民國營養師公會全國聯合會營養研討會暨營養品質促進專案發表「壁報發表-教學訓練組」特優。黃泰傑、林子琳、蘇怡如、溫心璇、黃孟娟。題目：從反思學習到全人照護的腎臟營養照護訓練。

## SCI 期刊原始論文

1. Van Pelt CK, Huang MC, Tschanz C & Brenna JT (1999) An Octaene fatty acid, 4,7,10, 13, 16, 19, 22, 25-octacosaoctanoic acid (28:8n-3), found in marine oil. J Lipid Res 40(8): 1501-1505 (SCI)

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## 著書章節 / Book Chapters

1. 黃孟娟、朱瑩悅、簡怡雯、劉影梅、黃惠瑛、李宜芳、李淑玲、劉燦宏、李威傑、王偉、楊淑惠、李明真、翁玉青著 (2011)。體重控制學，華格納出版社。
2. 張正芬、林佩珊、吳欲仁、溫慧萍、蔡淑芳、賴明宏、蔡文玲、侯征宏、黃孟娟、賴喜賢等合著 (2005)。美容營養學，華格納出版社。
3. 金惠民、彭巧珍、劉凱莉、戰林茜、黃淑俐、陳德居、李妙鶯、黃孟娟、王清衡、劉國瑜等合著 (2005)。臨床營養學，華格納出版社。
4. Huang MC, Chao AC, Tschanz C & Brenna JT. (2003) Evaluation of safety and dose response of tissue docosahexaenoate & arachidonate in piglets fed formula supplemented with single cell oil In: 5th WC on Essential Fatty Acids & Eicosanoids, Editors: Yung-Sheng Huang, Shing-Jong Lin, Po-Chao Huang, AOCS Press, Champaign, IL, USA, P98-104
5. Huang MC, & Brenna JT. (2001) On the relative efficacy of 18:3 and preformed 22:6 as substrates for tissue 22:6 during perinatal development. In: Fatty acid Physiological and Behavioral Functions. Edited by Mostofsky D.I., Yehuda S & Salem N. Humana Press, Totowa, NJ

6. Craig-schmidt, MC & **Huang MC.** (1998) Interaction of n-6 and n-3 fatty acids: Implications for supplementation of infant formula with long chain polyunsaturated fatty acids. In: Lipids in infant nutrition (eds. Huang, Y.S. and Sinclair, A. J.) AOCS Press, Champaign, IL, p63-84.

# 2023 咀嚼吞嚥困難跨領域照護國際研討會

## 陳敦基校長簡歷

<b>單位職稱及姓名</b>	<b>國立高雄餐旅大學 陳敦基校長</b>	
<p><b>【學歷】</b> 國立臺灣大學土木研究所運輸工程博士 國立臺灣大學土木研究所交通工程博士 國立交通大學運輸工程與管理學系學士</p> <p><b>【經歷】</b></p> <ul style="list-style-type: none"><li>■ <b>國立臺灣師範大學</b> 管理學院教授兼院長 管理學院高階經理人碩士在職專班(EMBA) 教授兼執行長</li><li>■ <b>國立高雄餐旅大學</b> 教授兼副校長</li><li>■ <b>淡江大學</b> 管理學院教授兼院長 商管學院聯合碩士在職專班(EMBA)教授兼 執行長 管理系統研究中心教授兼中心主任 運輸管理學系教授兼系主任</li><li>■ <b>財團法人中華顧問工程司(兼任)董事</b></li></ul>		

## 【學歷】 Educations

國立臺灣大學土木研究所運輸工程博士

Ph.D. of Transportation Engineering,  
National Taiwan University.

國立臺灣大學土木研究所交通工程博士

Master of Traffic Engineering, National  
Taiwan University

國立交通大學土木運輸工程與管理學系畢業

Bachelor of Transportation Engineering &  
Management, National Chiao-Tung  
University

## 【經歷】 Experiences

### ■ 國立臺灣師範大學

#### National Taiwan Normal University

管理學院教授兼院長

Prof. and Dean of Management College

管理學院高階經理人碩士在職專班(EMBA)

教授兼執行長

Prof. and CEO of EMBA

### ■ 國立高雄餐旅大學

#### National Kaohsiung University of Hospitality & Tourism

教授兼副校長

Prof. and Vice President

### ■ 淡江大學

#### Tamkang University

管理學院教授兼院長

Prof. and Dean of Management College

商管學院聯合碩士在職專班(EMBA)教授兼  
執行長

Prof. and CEO of Joint EMBA of Business  
College and Management College

管理系統研究中心教授兼中心主任

Director of Research Center of  
Management System

運輸管理學系教授兼系主任

Prof. and Chairman of Department of  
Transportation Management

■ 財團法人中華顧問工程司(兼任)董事

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#### EDUCATION

- Dr. P.H. Department of Public Health College of Health Science, Kaohsiung Medical University, Kaohsiung City, Taiwan 2008-2015
- M.S. Graduate Institute of Oral Health Sciences, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung City, Taiwan 2003-2005
- B.S. Nursing Department, Kaohsiung Medical University, Kaohsiung City, Taiwan 1996-2000

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#### PROFESSIONAL EXPERIENCE

- 2019~ Assistant Professor, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan
- 2015 – 2019: Post-doctoral, Kaohsiung Medical University
- 2006 – 2007: Research assistant, Health Management Section, Department of Health, Kaohsiung City Government, Kaohsiung, Taiwan
- 2000 – 2003: RN, ICU in General Surgery Medicine/Neurosurgery Kaohsiung Medical University Chung-Ho Memorial Hospital

---

#### Specialty

1. Oral hygiene for special need
2. Oral care for oral cancer
3. Occupational Health and Safety
4. Community health

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## Reference

1. Lin PC\*, Peng CY, Pan CH, Lee JY, Hsieh TJ, Chuang YS, Turesky RJ, Wu CF, Wu MT. Risk of two common glandular cell-type cancers (breast and colorectal cancers) in Chinese occupational chefs: a nationwide ecological study in Taiwan. *Int Arch Occup Environ Health*. 2021;94(6):1363-1373
2. Lin YC, Du JK, Lin PC, Kabasawa Yuji, Lin PL, Hsiao SY, Huang HL. Association between posterior dental occlusion and mastication in older adults. *J Oral Rehabil*. 2021;48(7):817-826
3. Wu TC, Peng CY, Hsieh HM, Pan CH, Wu MT, Lin PC, Wu CF, Hsieh TJ. Reduction of aldehyde emission and attribution of environment burden in cooking fumes from food stalls using a novel fume collector. *Enviro Res*. 2021;195:110815
4. Wu MT, Lin PC\*, Pan CH, Peng CY. Risk assessment of personal exposure to polycyclic aromatic hydrocarbons and aldehydes in three commercial cooking workplaces. *Scientific Reports*. 2019;9:1661
5. Lin PC\*, Peng CY, Pan CH, Lin PI Debby, Wu MT. Gender differences and lung cancer risk in occupational chefs: Analyzing more than 350,000 chefs in Taiwan, 1984-2011. *Int Arch Occup Environ Health*. 2018 publish online
6. Lin WT, Lin PC\*, Lee CY, Chen YL, Chan TF, Tsai S, Huang HL, Wu PW, Chin YT, Lin HY, Lee CH. Effects of insulin resistance on the association between the circulating retinol-binding protein 4 level and clustering of pediatric cardiometabolic risk factors. *Pediatr Diabetes*. 2018;19(4):611-621
7. Peng CY, Lan CH, Lin PC\*, Kau YC. Effects of cooking method, cooking oil, and food type on aldehyde emissions in cooking oil fumes. *J Hazard Mater* 2017;324:160-167
8. Lin PC\*, Chen CH, Pan SM, Chen YM, Pan CH, Hung HC, Wu MT. The Association between Rotating Shift Work and Increased Occupational Stress in Nurses. *J Occup Health* 2015;57:307-315
9. Wu WC, Lin PC\*, Hung CC, Lin HH, Cheng CM, Lee CY, Chiu KF, Lin WY, Huang CT, Wu MT. Clinical Risk Factors of Prediabetes in Taiwan Women without Substance Uses (tobacco, alcohol or areca nut). *J Formos Med Assoc* 2015 Dec;114(12):1233-1239 \*Equal contribution
10. Huang JF, Yeh ML, Yu ML, Dai CY, Huang CF, Huang CI, Tsai PC, Lin PC\*, Chen YL, Chang WT, Hou NJ, Lin ZY, Chen SC, Chuang WL. The Tertiary Prevention of Hepatocellular Carcinoma in Chronic Hepatitis C Patients. *J Gastroen Hepatol* 2015 Dec;30(12):1768-1774
11. Tai SY, Lin PC\*, Chen YM, Hung HC, Pan CH, Pan SM, Lee CY, Huang CT, Wu MT.

Effects of Marital Status and Shift Work on Family Function among Registered Nurses. *Ind Health* 2014;52(4):296-303



# Curriculum Vitae

## Personal Information

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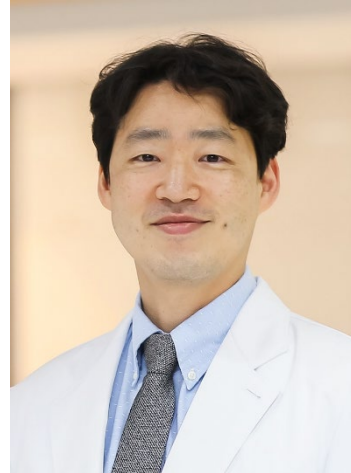
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#2. National Traffic Injury Rehabilitation Hospital, 260 Jungang-ro,  
Yangpyung-gun, Gyeonggi-do, 10300, South Korea

Email: [keepwiz@gmail.com](mailto:keepwiz@gmail.com); [moval@snu.ac.kr](mailto:moval@snu.ac.kr)



## Academic and Institutional appointment

---

2021.Sep – current, Clinical Professor, Dept. of Rehabilitation Medicine, Seoul National University  
College of Medicine, Seoul National University Hospital, Seoul, South Korea

2020.Jul – current, Vice President, National Traffic Injury Rehabilitation Hospital, Yangpyung, South  
Korea

2019.Oct – 2020. Jun, Director, National Traffic Injury Rehabilitation Research Institute,  
Yangpyung, South Korea

2016.Sep – 2020. Jun, Associate Clinical Professor, Dept. of Rehabilitation Medicine, Seoul  
National University College of Medicine, Seoul National University Hospital, Seoul, South  
Korea

2014.Dec – 2016.Jun, Visiting Scholar, Dept. of PM&R, UPMC, University of Pittsburgh,  
Pittsburgh, PA, USA

2009. Mar – 2014.Nov, Assistant Clinical Professor, Dept. of Rehabilitation Medicine, Seoul  
National University College of Medicine, Seoul National University Hospital, Seoul, South  
Korea

2005 Apr – 2008 Apr, Clinical Director, Gangwon-Do Rehabilitation Hospital, Chuncheon, South Korea

## Education

---

2004-2009 Ph.D. Medical Science, Seoul National University College of Medicine, Seoul, South Korea

The title of thesis was “Low-frequency Repetitive Transcranial Magnetic Stimulation in the Early Subacute Phase of Stroke Enhances the Angiogenic Mechanisms in Rats” (Advisor, pf. Tai Ryoon Han)

2002-2003 M.S. Medical Science, Seoul National University College of Medicine, Seoul, South Korea

The title of thesis was “Functional improvement and cortical reorganization induced by electrical stimulation of the neck muscles in patients with dysphagia” (Advisor, pf. Nam-Jong Paik)

1993-1999 M.D. Seoul National University College of Medicine, Seoul, South Korea

### **Training**

---

2008 May-2009 Feb, *a Clinical and Research fellow*, Dept. of Rehabilitation Medicine, Seoul National University Hospital

2001-2005, *Residency training*, Dept. of Rehabilitation Medicine, Seoul National University Hospital

2000-2001 *an Intern*, Seoul National University Hospital

### **License and Certificate**

---

2014 Jan Neonatal Oral-Motor Assessment Scale (NOMAS® International) Certification

2012 Oct Qualified Physician Investigator (2012-QPI-42), Korea National Enterprise for Clinical Trials

2010 Jan Quality Control Certificate of Korean Association of EMG-Electrodiagnostic Medicine

2005 Mar Board Certified Doctor of Physical Medicine and Rehabilitation, South Korea (certification No. 863)

2000 Mar Medical Doctor, Ministry of Health, South Korea (license No. 69629)

### **Journal Editor**

---

2022-current, Associate editor, *Dysphagia*, the official journal of Dysphagia Research Society, European Society for Swallowing Disorders, and the Japanese Society of Dysphagia Rehabilitation

2019 Mar - present Editor-in-Chief, *Brain & NeuroRehabilitation*, the official journal of the Korean Society for NeuroRehabilitation (KSNR) and Asia-Oceania Society for NeuroRehabilitation (AOSNR)

2018-present Associate Editor, *PM&R*

2018-present Associate Editor, Annals of Rehabilitation Medicine, the official journal of Korean Academy of Rehabilitation Medicine

### Professional societies

---

2011-present	Member, Organization of Human Brain Mapping
2011-present	Member, Society for Neuroscience
2010-present	Member, American Heart Association/American Stroke Association
2009-present	Member, Korean Dysphagia Society
2007- present	Member, Korean Society for Neurorehabilitation
2005- present	Member, the World Federation for Neurorehabilitation
2002- present	Member, Korean Stroke Society
2001- present	Member, Korean Academy of Rehabilitation Medicine

### Awards and Honors

---

In 2022, 대한재활의학회지 발전 기여상

In 2021

- Best oral presentation award, 2021 Annual Meeting of the Korean Academy of Rehabilitation Medicine, 29-30 Oct, 2021, “Nogo-A-targeting antibody protects against axonal degeneration after traumatic brain injury in mice”

In 2020, 국토교통부장관 표창

In 2020

- Best poster award, 2020 Annual Meeting of the Korean Academy of Rehabilitation Medicine, 30-31 Oct, 2020, “Evidence for Altered Functional Connectivity after Mild Traumatic Brain Injury”

In 2016

- Best oral presentation, 2016 Annual Meeting of the Korean Society for NeuroRehabilitation, 19 Mar 2016, Han Gil Seo, Youbin Yi, Nam-Jong Paik, Byung-Mo Oh, “Neuroprotective Effect of Secreted Factors from Human Adipose Stem Cells in a Rat Stroke Model”
- Best Scientific Award, the 44th Annual Meeting of The Korean Academy of Rehabilitation Medicine, 29 Oct 2016, Characteristics of the Glucose Hypermetabolism in Denervated Skeletal Muscle: an Animal Study, Seung Hak Lee(presenting author), Han Gil Seo, Byung-Mo Oh(coauthor), Hongyoon Choi, Gi Jeong Cheon, Shi-Uk Lee

In 2014

- Best Oral Presentation, 2014 Annual Meeting of the Korean Society of Medical & Biological Engineering, 9-10 May 2014, “A Study on Applying Guidance Laws in Developing Algorithm

which Enables Robot Arm to Trace 3D Coordinates Derived from Brain Signal”

In 2013

- Outstanding collaboration Award, Korea Institute of Science and Technology, 5 Dec 2013
- Poster Award, the 7<sup>th</sup> World Congress of the International Society of Physical and Rehabilitation Medicine (ISPRM 2013), June 16-20, 2013, Beijing, China, Han Gil Seo (presenting author), Hye Jin Jang (coauthor), Byung-Mo Oh (coauthor)
- Best Scientific Award, the 41<sup>th</sup> Annual Meeting of The Korean Academy of Rehabilitation Medicine, 26 Oct 2013, Feasibility of FDG PET as a Noninvasive Diagnostic Tool of Muscle Denervation : A Preliminary Study, Seung Hak Lee(presenting author), Shi-Uk Lee, Byung-Mo Oh(coauthor), Jin Joo Lee
- Best Scientific Award, the 4<sup>th</sup> Annual Meeting of the Korean Dysphagia Society, 16 Nov 2013, Compliance with Viscosity-Modified Diet Among Patients with Dysphagia, Jeong-Gil Kim (presenting author), Byung-Mo Oh(Coauthor), Tai Ryoan Han

In 2012

- Best Poster Award, Annual assembly of Korean Academy of Geriatric Rehabilitation Medicine 2012, 10 Mar 2012, Seoul, Korea (coauthor)
- Best Poster Award, the 1<sup>st</sup> Korea-Japan Neurorehabilitation Conference, 17 Mar 2012, Seoul, Korea (presenter)

In 2011

- Poster Award, the 39<sup>th</sup> National Congress Meeting of the Korean Academy of Rehabilitation Medicine, Oct 28-29, 2011, Seoul, Korea (Presenting author)

In 2009

- Best Scientific Award, the 37<sup>th</sup> National Congress Meeting of the Korean Academy of Rehabilitation Medicine, Oct 30-31, 2009, Seoul, Korea (presenting author)
- Most Outstanding Award, the 4<sup>th</sup> Advanced Course for Biostatistics in Medical Research, Medical Research Collaborating Center, Seoul National University College of Medicine, Dec 18, 2009, Seoul, Korea
- American Congress of Rehabilitation Medicine First Place Poster Award, 2009 American Congress of Rehabilitation Medicine and American Society of Neurorehabilitation (ACRM-ASNR) Joint Educational Conference, Oct 7-11, 2009, Denver, CO, US (coauthor)

### Research grant (as a Principal Investigator)

---

- 2022-2023, CKD Bio, Safety and Efficacy of CKDB-501A in Subjects with Post-stroke Upper Limb Spasticity
- 2022-2023, National Rehabilitation Center, Effect of Fixed vs. Tailored-Intensity Transcranial Direct Current Stimulation for Cognitive Impairment after Traumatic Brain Injury
- 2021-2044, Ministry of Land, Infrastructure and Transport, Long-term Influence on Function in Everyday life after Traumatic Brain Injury  
2021-2024, Korea Research Foundation, Industry and Energy, Proteomics and Brain Network Imaging for the Early Diagnosis, Stratification and Prognostication after Concussion (Mild Traumatic Brain Injury)
- 2020-2022, Ministry of Trade, Industry and Energy, Quantitative Analysis of EMG and IMU signals Using Wearable Sensors during Balance Control and Gait in Healthy Adults and Stroke Patients
- 2019-2022, Neurosonar, A Prospective, Open Label, Single Arm, Single Center Clinical Study to Assessing the Effect and Safety of Low Intensity Focused Ultrasound on Individuals with disorder of consciousness after Traumatic Brain Injury: A Prospective Single center single arm open study
- 2018-2021, Seoul National University Hospital, Discovery and Validation of Blood-Based Protein Biomarkers for the Prognostication of Concussion
- 2017-2020, Korea Research Foundation, Development of a Multiplex Protein Biomarkers and a Diagnostic System for the Early Detection and Prognostication after Concussion
- 2017-2020, Ministry of Trade, Industry and Energy, Republic of Korea, Machine learning based personalized lower limb rehabilitation robot system for the patients of stroke and Parkinson's disease
- 2013-2014, Korea Research Foundation, Design and Development of Neuroprotective Synthetic Protein Mixture Mimicking Adipose-Derived Stem Cell in Stroke
- 2013-2014, Allergan, BOTOX® Treatment in Adult Patients with Post-Stroke Lower Limb Spasticity (site PI)
- 2013-2014, A multi-center randomized controlled trial comparing robot-assisted gait training combined with conventional training with intensity-matched conventional gait training alone. PNS Mechanics
- 2011-2014, Development of a new outcome measure for Intention-modulated robotic rehabilitation systems, Korea Institute of Science and Technology, BRI-HUB grant
- 2013, Research grant, Seoul National University Hospital, Robotic-assisted gait training combined with transcranial direct current stimulation to maximize gait recovery after stroke
- 2011, A new clinical dysphagia scale, The Korean Dysphagia Society
- 2009-2010, Changes in 2-[F-18]fluoro-deoxyglucose Metabolism and Activation of Plasticity-

associated Immediate Early Gene expression and Protein Synthesis in Relation to the Dose of Repetitive Magnetic Stimulation in Rats (A084765), Ministry of Health, South Korea

- 2009-2010, Modulating Granulocyte-Colony Stimulating Factor-induced Expression of Angiogenesis-related Genes and Functional Recovery by Low Frequency Repetitive Magnetic Stimulation in a Stroke Rat Model, (KSS-2009-002), Korean
- 2008, Influence of aging on the effect of compensatory swallowing maneuver, The Korean Geriatric Society

## **Patent**

---

### **(Korean)**

1. A balance training program using adjustment of base of support, 체중지지면적의 능동적 조정을 통한 재활환자의 균형 훈련 시스템 및 이를 이용한 균형감각 훈련방법 (Patent Number: 10-1368637); Date 2014-02-024
2. Gait rehabilitation device based on rotational 3 degrees of freedom and translational 3 degrees of freedom, 회전3자유도 및 병진3자유도 기반의 보행재활 훈련장치 (Patent number: 10-2014-0026067); Date 2016.01.27.
3. 영상 처리를 통해 정밀 제어하는 상지 재활 로봇 모듈 및 재활 로봇 시스템 (Patent number: ); Date 2018.03.08

## **Clinical interest**

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- #1. Inpatient rehabilitation for people with traumatic brain injury
- #2. Diagnosis and management of concussion
- #3. Diagnosis and management of swallowing difficulty

## **Research interest**

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- #1. Animal models of traumatic brain injury and recovery
- #2. Blood-based biomarkers for TBI prognostication
- #3. Clinical trials on the efficacy of robotic-assisted rehabilitation after stroke
- #4. Kinematic and kinetic analysis of swallowing movement

## Bibliography

### Book Chapter

---

1. Byung-Mo Oh, Han Gil Seo. Rehabilitaion in Acute Stage. In: Seung-Hoon Lee, Stroke Revisited: Diagnosis and Treatment of Ischemic Stroke: Springer; 2017 (ISBN 978-981-10-1423-9)
2. Byung-Mo Oh, Nam Jong Paik. Management of Swallowing Difficulty in Pharyngeal Diseases. In: Nazario AP, Vermeulen JK, eds. Handbook of Pharyngeal Diseases: Etiology, Diagnosis and Treatment: Nova Science Publishers Inc; 2010. (ISBN-10: 1608764303)
3. Tai Ryoan Han, Electrodiagnostic Medicine in Practice: 50 Challenging Cases: Koonja Publishing Inc; 2010. (ISBN-13: 978-89-6278-212-7)

### Translation (Japanese into Korean)

---

1. “嚥下障害ポケットマニュアル” (ISBN-10 : 426321143X) into “연하장애의 재활” (ISBN-10 : 8961300342)
2. “PT・OT・ST・学生のためのやさしい嚥下障害の治療” (ISBN-10: 4815917655) into “알기 쉬운 연하장애” (ISBN-10: 8962783479)

### Translation (English into Korean)

---

1. Mindstorms: the complete guide for families living with traumatic brain injury (ISBN-13 : 978-0738212470) into “뇌를, 다치다: 외상성 뇌손상 환자와 가족을 위한 친절한 안내서” (ISBN-13: 978-8962786095)

### Peer-reviewed publication (in Korean)

---

#### 2020

1. Choi KJ, Park YS, Seong MY, Oh BM, Shin WS. 연하 장애 환자를 위한 연하 식사 개발 및 관능적 특성 평가.

#### 2017

1. 이원경, 서한길, 성민용, 염지운, 이우형, 한태륜, 오병모. 운상인두근 기능 이상에 의한 중증 연하장애 환자에서 풍선확장치료 및 보툴리눔독소 주사치료의 효과: 증례 보고. 대한연하장애학회지. 2017;7(2):69-75.

2. Seong MY, Oh BM, Seo HG, Han TR. 성문상 연하법이 연하 운동학에 미치는 영향: 젊은 성인 과노인의 비교연구. Journal of the Korean Dysphagia Society. 2018;8:23-9.

#### 2015

1. Seo HG, Kim KD, Oh BM (corresponding), Kim JS, Chung CK, Cortical Activity Measured with EEG during Stepping on a Recumbent Stepper, Brain Neurorehabil. 2015 Mar;8(1):39-45

#### 2014

1. Y. J. Kim, S. W. Park, W. S. Kim, H. G. Yeom, H. G. Seo, Y. W. Lee, M. S. Bang, C. K. Chung, B. M. Oh, J. S. Kim, Y. Kim and S. Kim, A Study on Applying Guidance Laws in Developing Algorithm which Enables Robot Arm to Trace 3D Coordinates Derived from Brain Signal, Journal of Biomedical Engineering Research 35: 50-54 (2014)
2. HG Seo, J Beom, BM Oh (corresponding), TR Han, Effects of Robot-assisted Upper Limb Training on Hemiplegic Patients, Brain & Neurorehabilitation 2014; 7 (1), 39-47
3. JG Kim, JW Yeom, BM Oh, TR Han, Compliance with Viscosity-modified Diet among Patients with Dysphagia, Journal of the Korean Dysphagia Society 2014;4:60-67

#### 2013

1. Chan-Hyuk Kwon, Il-Young jung, Se Hee Jung, Byung-Mo Oh (corresponding), Tairyoon Han, Development and validation of a new screening test for dysphagia, Journal of the Korean Dysphagia Society 2013;3:20-25

#### 2012

1. Byung-Mo Oh (1<sup>st</sup> and corresponding), Rehabilitation for Pain and Dysphagia in Parkinson's Disease, Geriatric Rehabilitation 2012; 2: 43-48
2. Beom J, Oh BM (corresponding), Endocrinologic Complications after Traumatic Brain Injury, Brain Neurorehabil 2012 Sep;5(2):52-57

#### 2011

1. Lee GJ, Oh BM, Lee SY, Han TR, Current Status of Industrial Disaster Victims' Medical Care in Korea: Research on Ischemic Stroke, Hemorrhagic Stroke, Intervertebral Disc Disease, and Spinal Fracture. J Korean Acad Rehabil Med. 2011 Apr;35(2):287-296
2. Goo Joo Lee, Byung-Mo Oh, Keewon Kim, Sang Yoon Lee, Sewoong Chun, and Tai Ryoan Han, K-means Cluster Analysis on Care Status of Injured Workers with Stroke According to Discharge Disposition Patterns. Brain&NeuroRehabilitation 2011 Sep 004(02):132-136.
3. Juyong Kim, Byung-Mo Oh (corresponding), Goo Joo Lee, Seung Ah Lee, Se Woong Chun, and Tai Ryoan Han, Clinical Factors Associated with Severity of Post-stroke Dysphagia. Brain &



NeuroRehabilitation 2011 Sep 004(02):116-120.

## 2010

1. Keewon Kim, Jaho Leigh, Byung-Mo Oh, Se Hee Jung, Kyoung Moo Lee, Si-Woon Park, Min Ho Chun, Han Young Jung, Il-soo Kim, Se Hyun Kim and Tai Ryoan Han, The Cost of Brain Disorder: Individual and Social Cost. *Brain & NeuroRehabilitation* 2010 Sep 003(02): 86-93

## 2004-2009

1. Seung-Pyo Choi, Byung-Mo Oh, and Wonsik Ahn, Bilateral femoral neuropathy after vaginal delivery: A case report, *Korean J Anesthesiol* 2009 Aug; 57(2): 228-32
2. 5. So-Ra Baek, Se Hee Jung, Byung-Mo Oh, Sun Geun Chung, Young Joo sim, Tai Ryoan Han, Ultrasonographic and Physical Examination to Investigate the Cause of Painful Hemiplegic Shouler. *Brain & Neurorehabilitation* 2009; 2(2): 140-145
3. Nam-Jong Paik, Il Soo Kim, Jung Hwan Kim, Byung Mo Oh, Tai Ryoan Han, Clinical Validity of the Functional Dysphagia Scale Based on Videofluoroscopic Swallowing Study. *J Korean Acad Rehab Med* 2005 Feb; 029(01): 43-49.
4. Byung-Mo Oh, Jung Hwan Kim, Yu-Soo Kim, Jae Young Lim, Nam-Jong Paik, Tai Ryoan Han, Lower Urinary Tract Symptoms in Chronic Stroke Survivors: Frequency and Impact on Quality of Life *J Korean Acad Rehab Med* 2005 Oct; 029(05): 450-456.
5. Tai Ryoan Han, Joong Kyung Choi, Dai Youl Kim, Byung-Mo Oh, The Investigation of the Pain after the Orthotic Treatment in Adolescent Idiopathic Scoliosis *J Korean Acad Rehab Med* 2004 Feb; 028(01): 98-103.

## Peer-reviewed publication (in English)

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### In 2022

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2. Park JH, Kim HG, Oh BM (corresponding), Lee MW, Hwang IK, Lee SU, Han TR. Comparison of different gum-based thickeners using a viscometer and line spread test: a preliminary study. *Annals of Rehabilitation Medicine* 2014 Feb;38(1):94-100
3. Seo HG, Oh BM (corresponding), Leigh JH, Han TR, Correlation Varies with Different Time Lags Between the Motions of the Hyoid Bone, Epiglottis, and Larynx during Swallowing, *Dysphagia*. 2014 Jul 8. [Epub ahead of print]
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3. Seo HG, Jang HJ, Oh BM (corresponding), Kim W, Han TR. Use of ultrasonography to locate laryngeal structures for laryngeal electromyography. PM & R : the journal of injury, function, and rehabilitation 2013.
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2. Seo HG, Oh BM, Han TR. Longitudinal changes of the swallowing process in subacute stroke patients with aspiration. *Dysphagia* 2011;26:41-8.
3. Kim K, Kang HS, Sohn CH, Oh BM (corresponding). Cauda equina syndrome misdiagnosed as aggravated hydrocephalus: neurological complication of intrathecal colistin in post-surgical meningitis. *Acta neurochirurgica* 2011;153:425-7.
4. Chun SW, Lee SA, Jung IY, Beom J, Han TR, Oh BM (corresponding). Inter-rater Agreement for the Clinical Dysphagia Scale. *Annals of rehabilitation medicine* 2011;35:470-6.

#### **In2010**

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2. Kong SH, Oh BM, Yoon H, et al. Comparison of two- and three-dimensional camera systems in laparoscopic performance: a novel 3D system with one camera. *Surg Endosc* 2010;24:1132-43.
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1. Kong SH, Oh BM, Yoon H, et al. Comparison of two- and three-dimensional camera systems in laparoscopic performance: a novel 3D system with one camera. *Surg Endosc* 2009.
2. Oh BM, Kim DY, Paik NJ. Recovery of swallowing function is accompanied by the expansion of the

cortical map. Int J Neurosci 2007;117:1215-27.

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31/May/2022

## **Application of Artificial Intelligence to The Diagnosis and Management of Dysphagia**

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### Abstract

Artificial intelligence (AI) has been gaining increasing attention as a tool for the diagnosis, prognosis, and management of swallowing difficulties. It has been demonstrated that AI techniques increase the diagnostic or prognostic accuracy, and facilitate personalized treatment recommendations for dysphagia.

One of the most promising areas of AI research for dysphagia is in the analysis of videofluoroscopic swallowing studies (VFSS). The interpretation of a VFSS is largely based on qualitative or semi-quantitative judgments. Although overt abnormalities such as subglottic aspiration can hardly be missed with repeated observation of the recorded video clips, detecting minute differences or subtle abnormalities is a challenge even for an experienced professional. Some studies have shown that AI-based image analysis can detect dysphagia with high accuracy and sensitivity, while others have shown that AI can help to identify specific abnormalities such as aspiration, penetration and residue.

Another promising area of AI research for dysphagia is in the analysis of speech and language data. The use of AI-based natural language processing (NLP) techniques can help to identify dysphagia in speech and language samples, by analyzing the acoustic and prosodic features of speech. This can help to identify dysphagia at a relatively earlier stage. AI-based techniques have also shown their potential in predicting treatment outcomes. These AI-based approaches are expected to help to optimize treatment strategies.

Dysphagia AI has some limitations. For AI-based system development and validation, the paucity of high-quality data is a significant obstacle. Additionally, there are concerns about the cost-effectiveness and the ethical aspects of AI-based systems. Overall, AI holds great potential for the diagnosis, prognosis and management of dysphagia. However, more research is needed to evaluate the clinical utility and cost-effectiveness of these AI-based approaches





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### Education

2016 - 2020 Master of Medicine  
Kyoto Prefectural Univ. of Medicine

1996 - 2002 Bachelor of Medicine,  
Dokkyo Medical Univ.

1992 - 1995 Teikyo Senior High School

### Experience

2018 - present	Swallowish Clinic	Founder, Director
2017 - present	Swallowish Inc.	Founder, CEO
2011 - 2020	Hamamatsu Rehabilitation Hospital Dept. of Rehabilitation Swallowing and Voice Center,	Deputy Director
2010 - 2017	Kanazawa ENT Clinic	Deputy Director
2010 - 2011	Ohara General Hospital,	Dept. of Otolaryngology
2008 - 2010	Oyama Municipal Hospital,	Dept. of Otolaryngology
2007 - 2008	Isshiki Clinic - Kyoto Voice Surgery Center	
2004	Seirei Mikatahara General, Hospital	Dept. of Rehab.
2002 - 2010	Jichi Medical University,	Dept. of Otolaryngology

### Certifications

2020	Board Certified Clinical Ethics Executive Adviser Board Certified Consulting Doctor for Dysphagia
2019	Board Certified Operator of the Type II Thyroplasty
2017	Certified CPAP therapy
2016	Board Certified Clinical Ethics Adviser
2011	National Certified Prosthetics and Orthotics
2010	Board Certified Specialist of the Japanese Society of Dysphagia Rehabilitation
2007	Board Certified Otorhinolaryngologist
2006	National Certified Logopedics and Phoniatics
2005	Certified Total Nutrition Therapy
2002	National Certified Medical licensure

### Professional Membership

Councilor	The Society of Swallowing and Dysphagia of Japan
Councilor	The Japanese Rehabilitation Society of Dysphagia Rehabilitation
Councilor	The Japan Association for Clinical Ethics
Councilor	The Society of Japanese Clinical Dysphagia Research
Editorial Board	Specified Nonprofit Corporation Patient Doctors Network
Director	Specified Nonprofit Corporation : Blossom For All
Honorary Advisor	Taiwan Health Keeper Development Association

**Title; Pitfalls and tips for success in VE**

**Presenter; Hideaki Kanazawa M.D.**

Videoendoscopic examination (VE) has been proposed as a golden standard for oropharyngeal dysphagia. VE is relatively easy to understand the procedure. Also, the equipment does not take much space, and the cost is relatively inexpensive. Therefore, VE became widespread all over the world. In contrast, biased VE evaluation will be a failure for bring the best out of the patient's swallowing abilities. The clinicians should perform some modalities such as screening methods, KT-balance chart (KTBC), Video fluoroscopy (VF), meal rounds etc... The insertion section of the endoscopy consists of about 3.4mm in a diameter which size is similar 10Fr. nasogastric tube is inserted into the patient's upper airway during VE. This invasive condition usually brings the patient defensive behaviours as the patient's neck strain, chin tuck and head extension. Then, these reactions may present an aspiration risk. I will give some tips for success in VE skills based on some patient's pathology and anatomical features.

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國立成功大學醫學工程	碩士	1994/09 ~ 1996/06
國立陽明大學物理治療學系	學士	1988/09 ~ 1992/06

### 經歷

高雄醫學大學運動醫學系	教授	2012/08~
高雄醫學大學健康科學院	院長	2022/02~
高雄醫學大學研究發展處學術研究組	組長	2018/08~2019/07
高雄醫學大學運動醫學系	系主任	2010/08~2018/07
高雄醫學大學生物醫學工程博士學位學程	主任	2017/08~2018/07
高雄醫學大學附設中和紀念醫院臨床醫學研究部	兼任研究員	2017/01~
高雄醫學大學醫學研究所	合聘教授	2016/08~
高雄醫學大學公共衛生學系	合聘教授	2016/08~
國立中山大學醫學科技研究所	合聘教授	2015/08~
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高雄醫學大學生物醫學工程博士學位學程	籌備處主任	2016/08~2017/07
高雄醫學大學運動醫學系	副教授	2006/02 ~ 2012/07
高雄醫學大學運動醫學系	助理教授	2004/08 ~ 2006/01
慈濟技術學院物理治療系	副教授	2003/02 ~ 2004/07
美國梅約醫學中心骨科生物力學實驗室	Special Project Associate	2001/03 ~ 2002/03
國立成功大學 醫學工程研究所	兼任研究助理	1999/08 ~ 2000/12
慈濟醫院 復健科	兼任物理治療師	1996/08 ~ 1998/07
慈濟技術學院物理治療系	講師	1996/08 ~ 2003/01
國立成功大學 醫學工程研究所	兼任研究助理	1995/07 ~ 1996/06
新竹空軍機場 醫務隊	少尉復健官	1992/07 ~ 1994/05

### 其它經歷

International Journal of Environmental Research and Public Health (special issue)	客座編輯
體育學報(TSSCI)	領域編輯委員
The Scientific Pages of Sports Medicine	編輯委員
Journal of Musculoskeletal Disorders	編輯委員
Chinese Journal of Sports Biomechanics	編輯委員
Journal of Sports Medicine	編輯委員
International Journal of Physical Therapy and Rehabilitation	編輯委員
台灣運動科技發展協會	理事
台灣老人照護暨健康促進學會	理事
中華國際全方位照護學會	理事
台灣復健工程暨輔具科技學會	監事
中華民國生物醫學工程學會	永久會員
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#### 期刊審查委員

Journal of Neuro Engineering and Rehabilitation (SCI)
American Journal of Physical Medicine & Rehabilitation (SCI)
Journal of Sports Science (SCI)
Journal of Magnetic Resonance Imaging (SCI)
Journal of Multi-body Dynamics (SCI)
Journal of the American Podiatric Medical Association (SCI)
Lasers in Medical Science (SCI)
BMC Medical Imaging (SCI)
Journal of Mechanics in Medicine and Biology (SCI)
Journal of Medical and Biological Engineering (SCI)
Proceedings of the Institution of Mechanical Engineers, Part C (SCI)
Journal of Mechanical Engineering Science (SCI)
African Journal of Biotechnology (SCI)
BMC Sports Science, Medicine and Rehabilitation
Journal of Musculoskeletal Research
大專體育學刊(TSSCI)
體育學報(TSSCI)
臺灣體育學術研究
成大體育學刊
華人運動生物力學期刊

#### 得獎與榮譽

2022	高雄醫學大學 110 學年度 專利獲證優良獎
2021	高雄醫學大學 109 學年度 產學合作績優獎
2020	國科會 FITI 創新創業激勵計畫(前 20 強)

2020	第十五屆戰國策全國創新創業競賽(創業構想類-科技應用組第一名)
2020	高雄醫學大學 108 學年度 全國性創新創業獲獎團隊
2018	第十五屆國家新創獎學研新創獎(獲獎作品「前庭系統功能評估創新智慧裝置」)
2018	第十五屆國家新創獎學研新創獎(獲獎作品「環境友善之體感平衡個人化移動載具」)
2017	未來科技展未來技術創新獎(參展作品「前庭系統功能評估及復健智慧裝置」)
2017	2017 運動科技暨康健體驗產業創新設計產品獎
2016	2016 第六屆運動科技應用論文競賽佳作
2015	2015 台灣生物力學年度學術研討會暨國科會成果發表會學生口頭論成果佳作獎
2013	高雄醫學大學 102 學年度產學合作卓越獎
2013	高雄醫學大學 102 學年度研究績優教師
2013	高雄醫學大學 102 學年度教學優良教師
2012	高雄醫學大學技術移轉傑出貢獻獎
2012	2012 會員大會暨運動科技應用高峰論壇學生口頭論文競賽優勝
2012	2012 會員大會暨運動科技應用高峰論壇學生論文競賽佳作
2012	2012 國際運動生物力學研討會暨台灣運動生物力學年會 CJSB 優秀口頭論文獎
2011	高雄醫學大學技術移轉傑出貢獻獎
2011	高雄醫學大學產學合作傑出績優獎
2011	2011 會員大會暨運動科技應用高峰論壇學生論文競賽佳作
2011	2011 國際運動生物力學研討會暨台灣運動生物力學年會學生海報優秀論文獎
2010	指導大專學生參加行政院國科會專題研究計畫榮獲研究創作獎
2010	台灣運動生物力學會學生海報論文競賽優勝
2010	台灣生物力學會學生口頭發表論文競賽佳作
2010	科學及工程名人錄(Marquis Who's Who in Science and Engineering)
2010	高雄醫學大學 2009 年技術移轉傑出貢獻獎
2010	第二屆亞太復健醫學會(The 2nd Asia-Oceania Conference of Physical and Rehabilitation Medicine)最佳海報論文
2009	高雄醫學大學 2008 年產學合作傑出績優獎
2009	高雄醫學大學 2008 年技術移轉傑出績優獎
2008	高雄醫學大學優良教材獲獎
2008	高雄醫學大學 2007 年產學合作傑出績優獎
2008	亞洲美國地區名人錄(Asia American Who's Who)
2007	台灣生物力學會學生海報論文競賽優勝
2007	台灣生物力學會學生海報論文競賽佳作
2007	台灣生物力學會學生海報論文競賽佳作
2007	亞太地區名人錄(Asia Pacific Who's Who)
2006	台灣生物力學會學生論文競賽優勝
2006	台灣生物力學會學生論文競賽佳作

2006	獲國科會部分補助出國參加國際會議 2006 International Society of Electrophysiology and Kinesiology, Torino, Italy；並發表論文
2005	獲國科會部分補助出國參加國際會議 Combined XXth International Society of Biomechanics and 29th American Society of Biomechanics meetings, Cleveland, USA；並發表論文
2004	指導大專學生參加行政院國科會專題研究計畫榮獲研究創作獎
2004	獲國科會部分補助出國參加國際會議 2004 Pre-Olympic Congress, Thessaloniki, Greece；並發表論文
2002	教育部公費留學短期研究
2002	獲教育部部分補助出國參加國際會議 IV World Congress Of Biomechanics, Calgary, AB, Canada；並發表論文
2001	李氏基金會學術交流獎金, 美國
2001	獲教育部部分補助出國參加國際會議 25th Annual Meeting of the American Society of Biomechanics, San Diego, CA, USA；並發表論文
2000	中華民國扶輪社獎學金
2000	中華民國生物醫學工程年會海報論文比賽佳作
2000	台灣生物力學年會論文比賽優勝
2000	獲國科會部分補助出國參加國際會議 5th Scientific Congress, Sydney 2000 Paralympic Games, Sydney, Australia；並發表論文
1999	台南三信文教基金會獎學金
1997	通過行政院國科會乙種研究獎勵
1997	獲國科會全額補助出國參加國際會議 XVIth Congress of the International Society of Biomechanics, Tokyo, Japan；並發表論文
1996	中華民國斐陶斐學會榮譽會員
1995	專業技術人員高等考試物理治療師及格

### 研究興趣與專長

生物力學	動作科學	物理治療	醫學工程	運動醫學
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## 研究計畫

計畫名稱	工作性質	核定金額	補助單位	執行期限
應用於頸源性暈眩症患者的創新前庭功能評估 (NHRI-EX112-11227EI)	主持人	5,708,000	國衛院	2023/01/01 ~ 2025/12/31
個人化血流限制訓練儀器開發與臨床介入有效性評估 (NSTC 111-2622-E-037 -002)	主持人	930,000	國科會	2022/11/01 ~ 2023/10/31
投籃動作回饋系統開發及建置 (NSTC111-3114-8-037 -001)	主持人	964,708	國科會	2022/09/01 ~ 2023/07/31
創新神經肌肉功能回饋訓練系統對於慢性腎臟疾病患者的下肢肌力與爆發力之效益 (NSTC 111-2410-H-037-025-MY2)	主持人	1,480,000	國科會	2022/08/01 ~ 2024/07/31
開發低強度阻力訓練結合血流限制的創新儀器其驗證與應用:對於肌少症銀髮族和肌腱病變患者的肌力訓練效益的探討	主持人	1,900,000	高醫與陽明交大合作計畫	2022/02/15 ~ 2022/07/31
精準健康產業跨領域人才培育計畫 健康福祉教學推動中心	主持人	4,450,000	教育部	2022/02/01 ~ 2023/01/31
教育部大學社會責任實踐計畫(USR)-樂活高雄·健康城市-小港區環境教育與健康促進永續發展計畫	主持人	3,500,000	教育部	2022/01/01 ~ 2022/12/31
多面向智慧銀髮健身房環境系統建置暨精準訓練模式之整合開發與驗證:安全/舒適/互動/有效 (SCIE)	主持人	1,900,000	中山高醫合作研究計畫	2022/01/01 ~ 2022/12/31
前庭功能與運動訓練的關聯性及腦震盪後效應的探討(II) (NSTC 110-2221-E-037-001)	主持人	1,053,000	國科會	2021/08/01 ~ 2022/07/31
智慧化洗腎中肌力訓練系統開發 (NSTC 110-2622-E-037-001)	主持人	770,000	國科會	2021/06/01 ~ 2022/05/31
鼻式正壓呼吸器-產品雛型之效果驗證	高醫大主持人	500,000	中山高醫產學合作計畫	2021/06/15 ~ 2022/06/14
110年度學界推動在地產業科技增值創新計畫-智慧生活橋世代-高齡健康促進福祉場域及產業增值優化	共同主持人	912,000	經濟部技術處	2021/04/01 ~ 2021/11/30

教育部生醫產業與新農業跨領域人才培育計畫	主持人	1,700,000	教育部	2021/02/01 ~ 2022/01/31
發展穿戴式腦電波裝置於失智症患者的智慧醫療應用：監測早期認知功能障礙和探討阻力運動對認知功能改善的效應	高醫大主持人	1,600,000	中山高醫合作研究計畫	2021/01/01 ~ 2021/12/31
前庭功能與運動訓練的關聯性及腦震盪後效應的探討(I) (NSTC 109-2221-E-037 -003)	主持人	1,099,000	國科會	2020/08/01 ~ 2021/07/31
健康福祉產業研發人才培育模組	主持人	727,000	國科會	2020/07/01 ~ 2021/08/31
基於生理訊號之人體熱舒適度模型建置與穿戴式生理訊號感測模組之開發	高醫大主持人	100,000	中山高醫產學合作計畫	2020/06/15 ~ 2021/06/14
109年度學界協助中小企業科技關懷跨域整合計畫-健康福祉暨長照產業優化輔導計畫	共同主持人	840,000	經濟部技術處	2020/6/01 ~ 2020/11/30
智慧磁場感應靜坐禪修腦電波誘導座墊 (NSTC 109-2622-H-037 -001 -CC3)	主持人	400,000	國科會	2020/06/01 ~ 2021/05/31
結合生理訊號之智慧預測與感控送排風技術開發	共同主持人	260,000	工研院	2020/03/15 ~ 2020/11/30
教育部生醫產業與新農業跨領域人才培育計畫	主持人	1,900,000	教育部	2020/02/01 ~ 2021/01/31
銀髮福祉產業增值創新服務平台建置暨擴散計畫 (NSTC 108-2745-8-037 -010)	主持人	1,445,963	國科會	2019/11/01 ~ 2020/10/31
健康福祉產業研發人才培育模組	主持人	960,000	國科會	2019/07/01 ~ 2020/08/31
基於心率變異之瞌睡預警偵測裝置	高醫大主持人	200,000	中山高醫產學合作計畫	2019/06/01 ~ 2020/05/31
108年度學界協助中小企業科技關懷跨域整合計畫-以科技導向優化銀髮族健康產業輔導計畫	主持人	912,000	經濟部技術處	2019/06/01 ~



				2019/11/30
教育部生醫產業與新農業跨領域人才培育計畫	主持人	2,200,000	教育部	2019/02/01 ~ 2020/01/31
智能化銀髮族肌力即時回饋訓練系統	高醫大 主持人	1,440,000	中山高醫 合作研究 計畫	2019/01/01 ~ 2019/12/31
智慧多功能震動泡棉滾筒開發計畫	主持人	600,000	經濟部 技術處	2018/08/01 ~ 2019/07/31
老年肌少症下肢神經肌肉運動單元肌電生理特徵及其對於不同運動介入之肌肉神經適應策略之探討 (NSTC 107-2410-H-037 -008)	主持人	810,000	國科會	2018/08/01 ~ 2019/07/31
教育部教學實踐計畫-合作學習融合團體導向學習對運動醫學實習課程成效之影響	主持人	279,000	教育部	2018/08/01 ~ 2018/07/31
具智慧即時運算壓縮及儲存管理功能之電和生物子感測器系統晶片	高醫大 主持人	150,000	中山高醫 產學合作 計畫	2018/06/11 ~ 2019/06/10
107年度學界協助中小企業科技關懷跨域整合計畫-全方位銀享生活產業聯盟輔導專案	主持人	840,000	經濟部技 術處	2018/5/1~ 2018/10/31
治療求核心穩定回饋系統	主持人	200,000	高雄醫學 大學	2018/03/15 ~ 2019/03/14
教育部生醫產業與新農業跨領域人才培育計畫	主持人	2,310,000	教育部	2018/03/14 ~ 2019/01/31
智齡族群導入個人化運動處方效益之研究	主持人	400,000	金屬工業 研究發展 中心	2018/01/01 ~ 2018/12/31
利用Kinect影像感測器發展新的平衡量測方法	主持人	220,000	中山高醫 合作研究 計畫	2018/01/01 ~ 2018/12/31
低價測力板的研發 (KN106004)	主持人	200,000	中山高醫 產學合作 案	2017/08/15 ~ 2018/08/14
慢性腎臟疾病患者社區運動及末期腎臟疾病患者透析中運動的效益探討:結合APP、	主持人	788,000	國科會	2017/08/01 ~

擴增虛擬實境以及生理回饋等方式 (NSTC106-2410-H-037-013)				2018/07/31
正走與背向跑步機行走之腦波差異 (NSTC106-2221-E-110-044)	共同主持人	911,000	國科會	2017/08/01 ~ 2018/07/31
比較冷熱刺激療法與經皮神經電刺激療法 於中風患者感覺及動作功能之效益 (106CM-KMU-12)	主持人	500,000	奇美高醫 合作研究 計畫	2017/05/01 ~ 2018/04/30
106年度學界協助中小企業科技關懷跨域整合 計畫-跨領域智慧健康照護產業整合計劃	主持人	1,344,000	經濟部技 術處	2017/5/1~ 2017/10/31
健康促進與照護器材產學技術聯盟跨領域 技術服務提升計畫 (NSTC106-2622-8-037-001-TB1)	主持人	2,400,000	國科會	2017/02/01 ~ 2018/07/31
智齡族群運動需求與分析模組之研究	主持人	400,000	金屬工業 研究發展 中心	2017/01/01 ~ 2017/12/31
自製三軸測力板結合三軸加速規爆發力檢 測之效度評估(106-P022)	高醫大 主持人	200,000	中山高醫 合作研究 計畫	2017/01/01 ~ 2017/12/31
三軸向旋轉椅測試診斷分析系統	主持人	200,000	高雄醫學 大學	2016/12/01 ~ 2017/11/30
銀髮族創新下肢肌力及爆發力訓練器材開 發	主持人	1,200,000	財團法人 工業技術 研究院	2016/10/01 ~ 2017/12/31
爆發力回饋訓練對運動功能障礙症候群之 效益研究(NSTC105-2410-H-037-008)	主持人	811,000	國科會	2016/8/1~ 2017/7/31
中風病患行走復健的步態平衡度視覺回饋 系統(NSTC105-2221-E-110-034)	共同主 持人	876,000	國科會	2016/08/01 ~ 2017/07/31
105 年度學界協助中小企業科技關懷跨域整 合計畫-智慧健康照護產業整合及升級輔導 專案	主持人	912,000	經濟部技 術處	2016/05/01 ~ 2016/10/31
可調軟硬度一次成型彈性體之長照床墊研 究開發計畫(NSTC105-2812-8-037-001)	主持人	260,000	國科會	2016/03/01 ~ 2016/11/30
智慧健康運動器材共通應用介面標準草案	主持人	150,000	財團法人 工業技術 研究院	2016/01/05 ~ 2016/02/05

中風病患行走復健的步態生理回饋系統 (105-P009)	高醫大 主持人	200,000	中山高醫 合作研究 計畫	2016/01/01 ~ 2016/12/31
背向行走訓練對慢性腦中風患者走路和平 衡功能之療效(105-CCH-KMU-004)	主持人	500,000	財團法人 彰化基督 教醫院暨 高雄醫學 大學	2016/01/01 ~ 2016/12/31
特殊族群運動管理服務規劃與場域驗證研 究	共同主 持人	900,000	工業技術 研究院	2015/09/01 ~ 2015/11/10
銀髮族下肢步態復健暨運動量監控之穿戴 式輔助系統設計(NSTC104-2218-E269-001)	共同主 持人	630,000	國科會	2015/09/01 ~ 2016/08/31
生醫與醫材轉譯加值人才培訓-ANCHOR UNIVERSITY 計畫(NCKU)	共同主 持人	18,000,000	國科會	2015/08/01 ~ 2016/07/31
社區老人之「養生律動經絡拳」實證介入 措施發展及成效評量 (NSTC104-2314-B-037-041-MY3)	共同主 持人	2,325,000	國科會	2015/08/01 ~ 2018/07/31
慢性踝關節不穩運動員中樞神經塑化改變 分析和特定運動治療介入成效探討 (NSTC104-2410-H320-004)	共同主 持人	808,000	國科會	2015/08/01 ~ 2016/07/31
適用於中風病患進行行走訓練的智慧型跑 步機系統設計與開發 (NSTC104-2221-E110-010)	共同主 持人	728,000	國科會	2015/08/01 ~ 2016/07/31
南部生技醫療器材產業聚落發展計畫-前庭 系統功能評估及復健智慧裝置開發 (BZ-17-08-29-104)	主持人	1,500,000	國科會南 部科學工 業園區管 理局	2015/07/01 ~ 2016/12/31
鎳鈦護具的功能性驗證	主持人	230,000	金屬工業 研究發展 中心	2015/07/01 ~ 2016/06/30
透過測力板回饋兩腳承重以促進中風病人 執行從坐到站、站立重心轉移與站立平衡 訓練之智能型平衡訓練系統設計與開發 (NSTC104-2622-B-037-006-CC3)	共同主 持人	500,000	國科會	2015/06/01 ~ 2016/08/31

104 年度學界協助中小企業科技關懷跨域整合計畫-跨領域技術協助健康照護器材產業發展計畫	主持人	960,000	經濟部技術處	2015/05/01 ~ 2015/10/31
探討類赤足鞋在不同斜坡與速度下之跑步著地形態效應 (104CM-KMU-09)	主持人	500,000	奇美高醫合作研究計畫	2015/05/01 ~ 2016/04/30
協助排便輔具裝置之創新研發及臨床效益評估	主持人	306,000	微寶生技股份有限公司	2015/4/1~ 2015/7/31
生醫與醫材轉譯加值人才培訓計畫-新型攜帶式本體感覺評估裝置商品化認證暨創新服務模式建置 (NSTC104-2321-B-006 -034)	共同主持人	18,000,000	國科會	2015/04~ 迄今
教育部智慧生活創新創業育成平臺試辦計畫	協同主持人	8,000,000	教育部資訊及科技教育司	2015/02~ 2016/02
機械性頸部失能症的機制與治療：從周圍到中樞等面向探討 (NHRI-EX104-10204EI)	主持人	1,074,000	國家衛生研究院	2015/01/01 ~ 2015/12/31
新式自製三軸測力板效度評估及力分解演算法之開發 (NSYSUKMU104-P022)	主持人	200,000	中山高醫合作研究計畫	2015/01/01 ~ 2015/12/31
懸吊系統結合新式回饋訓練對下背痛患者療效之探討	主持人	275,000	天成高醫	2014/09/01 ~ 2015/08/31
臺灣慢性腎疾病患者對於新型運動介入之接受度及其成效 (NSTC103-2410-H-037-013-MY2)	主持人	1,699,000	國科會	2014/08/01 ~ 2016/07/31
以測力板追蹤懸吊式跑步機背向行走訓練對慢性中風患者平衡之療效 (NSTC103-2221-E-110-050)	共同主持人	646,000	國科會	2014/08/01 ~ 2015/07/31
預防老年人跌倒的訓練器材開發之先期研究	主持人	300,000	財團法人自行車中心	2014/08/01 ~ 2014/12/31
開發輪椅輪軸平衡和重量分佈之創新測量平臺(CZ-05-04-10-103)	主持人	2,223,000	國科會南部科學工業園區管理局	2014/06/01 ~ 2015/05/31
整合足壓、步態與踝關節本體感覺的創新型跌倒風險篩檢評估工具	主持人	500,000	財團法人彰化基督	2014/06/01

(103-CCH-KMU-001)			教醫院暨 高雄醫學 大學	~ 2015/05/31
103 年度學界協助中小企業科技關懷跨域整合計畫-運動護具用品暨健康管理相關產業輔導平台	總主持人	840,000	經濟部	2014/05/01 ~ 2014/10/31
運動功能評估及生理訊號處理之核心技術於產業之運用(2/3) (NSC103-2622-B-037-002)	主持人	2,300,000	國家科學 委員會	2014/02/01 ~ 2015/01/31
機械性頸部失能症的機制與治療：從周圍到中樞等面向探討(NHRI-EX103-10204EI)	主持人	1,000,000	國家衛生 研究院	2014/01/01 ~ 2014/12/31
抬腿與伸展動作對血液動力學的影響與可能應用(NSYSUKMU103- P034)	主持人	140,000	中山高醫 合作研究 計畫	2014/1/1~ 2014/12/31
協助排便輔具裝置之創新研發及效益評估	主持人	190,000	微寶生技 有限公司	2013/09/01 ~ 2014/08/31
治療性多點觸控螢幕活動電腦化復健系統在中風病人上肢復健之應用--系統開發、可行性及治療成效分析 (NSC102-2320-B-037-003-MY3)	共同主 持人	3,581,000	國家科學 委員會	2013/8/1~ 2016/7/31
長期照顧機構失智老人之「輪椅彈力帶健身操」實證介入措施發展及成效評量 (NSC102-2314-B037-054-MY2)	共同主 持人	2,353,000	國家科學 委員會	2013/8/1~ 2015/7/31
核心穩定運動與太極拳運動對於老年人核心肌群肌肉表現、核心穩定與平衡之訓練效果比較(NSC102-2314-B037-018)	共同主 持人	833,000	國家科學 委員會	2013/08/01 ~ 2014/12/31
隨機共振振動運動鞋墊研發與應用於射箭運動平衡控制訓練 (NSC102-2410-H-320-011)	共同主 持人	871,000	國家科學 委員會	2013/8/1~ 2014/7/31
抬腿動作對血液動力學的影響與可能應用 (NSC102-2221-E-110-045)	共同主 持人	501,000	國家科學 委員會	2013/8/1~ 2014/7/31
探討環保床墊於應用上之減壓效果及末梢血流循環生理訊號影響	主持人	840,000	聯鴻興業 有限公司	2013/04/01 ~ 2014/03/31
運動功能評估及生理訊號處理之核心技術於產業之運用(1/3) (NSC102-2622-B-037-001)	主持人	2,300,000	國家科學 委員會	2013/02/01 ~ 2014/01/31
建立國軍足壓參數模式及鞋墊電腦輔助分析系統研發(NSC102-2623-E037-001-D)	主持人	832,000	國家科學 委員會	2013/01/01 ~

				2013/12/31
機械性頸部失能症的機制與治療：從周圍到中樞等面向探討(NHRI-EX102-10204EI)	主持人	1,510,000	國家衛生研究院	2013/01/01 ~ 2013/12/31
多頻道周邊組織微循環量測系統開發與臨床評估參數的有效性驗證(NSYSUKMU102-P032)	主持人	258,000	中山高醫合作研究計畫	2013/01/01 ~ 2013/12/31
新式正中神經滑動運動對於運動員腕隧道症候群療效和神經力學特性探討(NSC101-2410-H-320-009)	共同主持人	753,000	國家科學委員會	2012/08/01 ~ 2013/07/31
結合無線 Zigbee 動作感測模組之開發及其應用於老人跌倒定位監控(NSC101-2622-E-269-012-CC3)	共同主持人	439,000	國家科學委員會	2012/06/01 ~ 2013/05/31
腰椎穩定壓力回饋系統以及即時壓力值之視覺與聽覺回饋軟體開發(NSC101-2622-B-037-003-CC3)	共同主持人	450,000	國家科學委員會	2012/06/01 ~ 2013/05/31
發展新式自製測力板與演算法及其對老人平衡能力偵測的信效度探討(NSYSUKMU 101-017)	主持人	300,000	中山高醫合作研究計畫	2012/04/16 ~ 2012/12/31
姿勢評量儀的研製及臨床試驗(NSC101-2321-B-037-002)	主持人	1,000,000	國家科學委員會	2012/01/01 ~ 2012/12/31
電刺激改善駕駛者疲勞及打瞌睡情形	主持人	750,000	百方儀器有限公司	2011/10/01 ~ 2012/09/30
軀幹肌群等長肌力測力器系統以及即時肌力大小之視覺回饋軟體開發(NSC100-2622-B-037-001-CC3)	共同主持人	790,000	國家科學委員會	2011/6/1~ 2012/8/31
具創新及專一性特色之結合本體感覺評估及訓練系統在復健醫療應用(NSC100-2321-B-037-005)	主持人	1,110,000	國家科學委員會	2011/01/01 ~ 2011/12/31
銀髮族安全平衡鞋墊之研發與應用	主持人	200,000	絃觀國際有限公司	2010/10/01 ~ 2011/06/30
國小學童軀幹姿勢動作量化及脊椎穩定動作訓練與互動式電子書介入效能評估(NSC99-2410-H-037-009-MY2)	主持人	1,691,000	國家科學委員會	2010/08/01 ~ 2012/07/31
懸吊訓練系統對稱性回饋軟體開發(NSC99-2622-B-037-001-CC3)	主持人	481,000	國家科學委員會	2010/06/01 ~

				2011/05/31
年輕運動選手髕股關節疼痛的動作控制與物理治療介入之探討 (NSC99-2410-H-277-004)	共同主持人	692,000	國家科學委員會	2010/08/01 ~ 2011/07/31
熱敷護具之評估效益與設計	主持人	320,000	財團法人鞋類暨運動休閒科技研發中心	2010/3/1~ 2010/11/30
以骨盆與薦腰椎動作及肌肉收縮特性探討國小學童背書包重量及運動訓練之效應 (NSC98-2410-H-037-013)	主持人	873,000	國家科學委員會	2009/08/01 ~ 2010/07/31
職場辦公工具改良設計-- 輕鬆傾躺辦公椅及鍵盤滑鼠護腕墊 (NSC98-2622-B-037-003-CC3)	主持人	969,000	國家科學委員會	2009/07/01 ~ 2010/06/30
輪椅前輪翹起之生物力學分析及研發新式防後傾倒桿與應用之研究 (NSC98-2320-B-037-006-MY3)	共同主持人	3,463,000	國家科學委員會	2009/08/01 ~ 2012/07/31
乳癌婦女接受腹直肌皮瓣重建乳房手術：對腹部肌群機能之影響與運動治療之效果 (NSC98-2314-B-037-008-MY2)	共同主持人	1,628,000	國家科學委員會	2009/08/01 ~ 2011/07/31
多功能四肢協調度評估訓練器 (NSC97-2622-B-037-003-CC3)	主持人	457,000	國家科學委員會	2008/08/01 ~ 2009/07/31
提升職場女性穿著高跟鞋舒適性之設計考量與其公眾接受性之調查研究 (NSC97-2629-E-037-001)	主持人	897,000	國家科學委員會	2008/08/01 ~ 2009/07/31
走路步寬變異在復健治療的應用	共同主持人	240,000	財團法人奇美醫院	2008/10/01 ~ 2009/09/30
不同脊椎穩定動作與支持面對肌肉活化型態的影響:以單側選擇(CMFHR9757)	共同主持人	315,200	財團法人奇美醫院	2008/10/01 ~ 2009/09/30
棒球運動項目的動作分析與指導應用 (7301XSY20)	主持人	550,000	財團法人工業技術研究院	2008/05/01 ~ 2008/12/31
傳統運動對老年人動作控制成效及其可能機制的探討(97-CCH-KMU-006)	主持人	494,760	財團法人彰化基督教醫院暨高雄醫學大學	2008/01/01 ~ 2008/12/31
機械性頸部失能症的生物力學及神經生理學探討(NHRI-EX97-9713EC)	主持人	4,776,000	國家衛生研究院	2008/01/01 ~ 2011/12/31

太極拳訓練對於健康老年人踝關節本體感覺的效應(NSC96-2314-B-037-060)	共同主持人	580,000	國家科學委員會	2007/08/01 ~ 2008/07/31
多型態運動療法對於功能性踝關節不穩病人於功能性活動效應之探討(NSC96-2314-B277-001)	共同主持人	670,000	國家科學委員會	2007/08/01 ~ 2008/07/31
動力鏈運動對肘關節受力影響之生物力學分析(NSC96-2221-E-037-002-MY3)	共同主持人	1,906,000	國家科學委員會	2007/08/01 ~ 2010/07/31
輪椅座椅面傾斜及新式輪椅硬式靠背對輪椅推動效益之生物力學分析(NSC96-2320-B-037-020-MY2)	共同主持人	1,792,000	國家科學委員會	2007/08/01 ~ 2009/07/31
機械協助式兩側性上肢阻力訓練對中風病人上肢動作功能之療效分析(NSC96-2314-B037-029-MY3)	共同主持人	2,270,000	國家科學委員會	2007/08/01 ~ 2010/07/31
不同傳統運動項目之效能和安全性評估(DOH96-TD-M-113-004-(2/2))	主持人	700,000	衛生署	2007/1/1 ~ 2007/12/31
兩款新型家用式本體感覺及肌力訓練器之研製(NSC96-2622-B-037-002-CC3)	主持人	300,000	國家科學委員會	2007/05/01 ~ 2008/04/30
運動處方軟體開發(NSC96-2524-S-037-001-EC3)	主持人	542,000	國家科學委員會	2007/05/01 ~ 2008/04/30
省力最佳化輪椅研究(NHRI-EX96-9617EI)	協同主持人	4,413,000	國家衛生研究院	2007/1/1 ~ 2009/12/31
中、短期之連續太極拳訓練對於健康老年人姿勢控制的效應---以跨越障礙和穿褲動作作為探討方式(NSC95-2314-B037-066)	共同主持人	783,000	國家科學委員會	2006/08/01 ~ 2007/07/31
肩關節不穩定病人內外轉肌耐力及疲勞特徵之探討(NSC95-2314-B037-104)	共同主持人	684,000	國家科學委員會	2006/08/01 ~ 2007/07/31
三段式升降定位動力螺桿應用於電動輪椅上(NSC95-2622-B037-001-CC3)	共同主持人	400,000	國家科學委員會	2006/05/01 ~ 2007/04/31
不同傳統運動項目之效能和安全性評估(DOH95-TD-M-113-019-(1/2))	主持人	700,000	衛生署	2006/01/01 ~ 2006/12/31
新型本體感覺平衡訓練器研製(NSC 94-2622-B-037-001-CC3)	主持人	400,000	國家科學委員會	2005/11/01 ~ 2006/10/31
不同斜坡及速度慢跑對足部運動學和足底壓力的效應 (NSC 94-2320-B-037-017)	主持人	470,000	國家科學委員會	2005/08/01 ~ 2006/07/31
急性外踝關節扭傷後運動感覺系統及功能性活動受損之探討---一年期追蹤(NSC94-2314-B277-003)	共同主持人	448,000	國家科學委員會	2005/8/1 ~ 2006/7/31



肩關節內外轉肌疲勞特徵探討 (NSC 93-2320-B-037-055- )	主持人	500,000	國家科學 委員會	2004/08/01 ~ 2005/07/31
慢跑之生物力學探討 (NSC92-2320-B-277-003- )	主持人	386,000	國家科學 委員會	2003/08/01 ~ 2004/07/31
不同斜坡跑步的生物力學效應 (TCCT-91A22)	主持人	180,000	慈濟技術 學院	2003/01/01 ~ 2003/12/31

## 專利

專利類別	專利名稱	專利國家	專利號碼	專利發明人	專利權期間
發明專利	前庭系統檢測裝置	美國	11369307	<u>郭藍遠</u> 、嚴成文、廖麗君、黃勤鎰、程政群	2022/06/28
發明專利	疲勞分析方法	中華民國	I744017	賴怡宏、 <u>郭藍遠</u> 、彭昭暉、楊家琪、蘇瑋淵	2021/10/21 ~ 2040/09/29
發明專利	三軸旋轉平台	中華民國	I702029	<u>郭藍遠</u> 、程政群	2020/08/21 ~ 2039/01/16
發明專利	前庭系統檢測裝置	中華民國	I698220	<u>郭藍遠</u> 、嚴成文、廖麗君、黃勤鎰、程政群	2020/07/11~ 2038/01/28
發明專利	多軸的負荷力及重心量測裝置	美國	10506967	<u>郭藍遠</u> 、嚴成文、廖麗君、程政群	2019/12~ 2022/11
發明專利	多軸的負荷力及重心量測裝置	歐盟	103027-WO(EP)	<u>郭藍遠</u> 、嚴成文、廖麗君、程政群	2019/10~ 2022/09
發明專利	壓電刺激元件、具有該壓電刺激元件之壓電刺激器、鞋墊	中華民國	I569742	楊志鴻、陳新源、林光華、 <u>郭藍遠</u> 、程政群	2017/02/11 ~ 2035/10/07
發明專利	多軸的負荷力及重心量測裝置	中華民國	I530275	<u>郭藍遠</u> 、嚴成文、廖麗君、程政群	2016/04/21 ~ 2035/08/27
發明專利	多軸的負荷力及重心量測裝置	世界專利(PCT)	PCT/CN2015/088390	<u>郭藍遠</u> 、嚴成文、廖麗君、程政群	2015/08/28 ~ 2018/02/28
發明專利	軀幹肌群之等長肌力量測裝置 (NSC100-2622-B-037-001-CC3)	中華民國	I468151	廖麗君、蔡鏞申、徐阿田、 <u>郭藍遠</u> 、廖健芬、程政群	2015/01/11- 2032/04/16
發明專利	用於超音波探測頭之感應夾具	中華民國	I389673	楊志鴻、蘇芳慶、 <u>郭藍遠</u> 、李文禮、張志仲、梁忠紹、程政群	2013/03/21 ~ 2029/11/26
發明專利	雙軸負重式踝關節本體感覺評估裝置	中華民國	I287977	<u>郭藍遠</u> 、蘇芳慶、楊志鴻、吳汶蘭、張志仲、林槐庭、程政群	2007/10/11 ~ 2026/06/13
發明專利	可控制式之下肢本體感覺平衡裝置 (NSC94-2622-B-037-001-CC3)	中華民國	I283571	<u>郭藍遠</u> 、蘇芳慶、楊志鴻、吳汶蘭、張志仲、林槐庭、程政群	2007/07/11 ~ 2025/10/11

新型專利	人體肌群穩定壓力回饋系統	中華民國	M453139	廖麗君、侯易佑、 <u>郭藍遠</u> 、蔡泰欣	2013/05/11 ~ 2022/12/27
新型專利	可快拆之硬式輪椅靠背	中華民國	M335278	楊育昇、張志仲、 <u>郭藍遠</u> 、程政群	2008/07/01 ~ 2018/01/06
新型專利	可調阻力之拉引器 (NSC96-2622-B-037-002-CC3)	中華民國	M322268	<u>郭藍遠</u> 、蘇芳慶、楊志鴻、陳勝凱、張志仲、吳汶蘭、林槐庭、程政群	2007/11/21 ~ 2017/05/03
新型專利	手臂擺動靈活性測試裝置	中華民國	M312337	施邦英、 <u>郭藍遠</u>	2007/05/21 ~ 2016/12/06
新型專利	平衡訓練器 (NSC96-2622-B-037-002-CC3)	中華民國	M311444	<u>郭藍遠</u> 、施邦英、蘇芳慶、楊志鴻、吳汶蘭、張志仲、林槐庭、程政群	2007/05/11 ~ 2016/11/29

## 技術移轉

技術名稱	專利名稱	授權單位	被授權單位	簽約日期	計畫編號
前庭系統功能評估及復健智慧裝置開發	前庭系統功能評估及復健智慧裝置開發	高雄醫學大學	杰適美企業有限公司	2016/11~2019/11	BZ-17-08-29-104
輪椅輪軸平衡和重量分佈之創新測量平臺	輪椅輪軸平衡和重量分佈之創新測量平臺	高雄醫學大學	杰適美企業有限公司	2015/05~2020/05	CZ-05-04-10-103
「可控制式之下肢本體感覺平衡裝置、雙軸負重式踝關節本體感覺評估裝置、平衡訓練器、可調阻力之拉引器」	可控制式之下肢本體感覺平衡裝置、雙軸負重式踝關節本體感覺評估裝置、平衡訓練器、可調阻力之拉引器	高雄醫學大學	百方儀器有限公司	2011/09~2014/08	NSC94-2622-B-037-001 NSC96-2622-B-037-002
懸吊訓練系統對稱性回饋軟體開發	懸吊訓練系統對稱性回饋軟體開發	高雄醫學大學	合閔有限公司	2010/08~2013/08	NSC99-2622-B-037
多功能四肢協調度評估訓練器	多功能四肢協調度評估訓練器	高雄醫學大學	合閔有限公司		NSC97-2622-B-037
職場辦公工具改良設計-- 輕鬆傾躺辦公椅及鍵盤滑鼠護腕墊	職場辦公工具改良設計-- 輕鬆傾躺辦公椅及鍵盤滑鼠護腕墊	高雄醫學大學	合閔有限公司	2009/08~2012/08	NSC98-2622-B-037-003 -CC3

## 著作

### (A) 期刊論文

1. Pao S.L, Wu S.Y, Liang J.M, Huang I.J\*, **Guo L.Y\***, Wu W.L, Liu Y.G, Nian S.H, Jun 2022 “A Physiological-Signal-Based Thermal Sensation Model for Indoor Environment Thermal Comfort Evaluation” International Journal of Environmental Research and Public Health, 18: 2376(SSCI,PUBLIC,ENVIRONMENTAL& OCCUPATIONAL HEALTH, **IF: 4.614**, 45/182= **24.73%**)
2. Lo P.Y, Su B.L, You Y.L, Yen C.W, Wang S.T, **Guo L.Y\***, May 2022“Measuring the Reliability of Postural Sway Measurements for a Static Standing Task The Effect of Age” Frontiers in Physiology, 13:850707 (SCI, PHYSIOLOGY, **IF:4.566**, 14/81=**17.28%**, NSTC110-2221-E-037-001 and NSTC110-2622-E-037-001)
3. Chen G.Y,<sup>†</sup>, **Guo L.Y**, Tsai Y.C, Chuang I.C, Kuo H.C, Liu S.F \*<sup>†</sup>, Mar 2022“Effect of music intervention on lung expansion exercises after cardiothoracic surgery” Journal of Clinical Medicine, 11(6), 1589 (SCI,MEDICINE, GENERAL & INTERNAL, **IF:4.241**, 39/169=**23.08%**)
4. Chu I.H\*, Chen Y.L, Wu P.T, Wu W.L, **Guo L.Y**, Jul 2021“The Associations between Self-Determined Motivation,Multidimensional Self-Efficacy, and Device-Measured Physical Activity” International Journal of Environmental Research and Public Health,18:8002 (SSCI,PUBLIC,ENVIRONMENTAL& OCCUPATIONAL HEALTH, **IF: 2.849**, 32/171= **18.71%**, NSTC109-2410-H-037-015)
5. Sung J.L, Hong C.Y , Liu C.H, Lee P, **Guo L.Y**, Lin N.H,Yen C.W\*, Liaw L.J\*,Jun 2021 “Characterizing the Validity of the Inverted Pendulum Model for Quiet Standing” Journal of Healthcare Engineering,2021:1-6(SCI, HEALTH CARE SCIENCES & SERVICES,**IF: 1.803**, 67/102= **65.69%**, NSTC-106-2221-E-110-044 and NSTC-108-2221-E-027-066))
6. Sung J.L, **Guo L.Y**, Liu C.H, Lee P, Yen C.W\*, Liaw L.J\*,May 2021, “Characterizing Human Postural Stability by Using Features Extracted from the Correlation Structure of Ground Reaction Force Components” IEEE Access,2017(SCI, ENGINEERING, ELECTRICAL & ELECTRONIC,**IF: 3.745**, 61/266= **22.93%**, NSTC 107-2221-E-110-073)
7. Hu C.H,<sup>†</sup>, Yang C.C,<sup>†</sup>, Tu S.F, Huang I.J, Danaa Ganbat, **Guo L.Y\***,Mar 2021, “Characteristics of the Electrophysiological Properties of Neuromuscular Motor Units and Its Adaptive Strategy Response in Lower Extremity Muscles for Seniors with Pre-Sarcopenia: A Preliminary Study” International Journal of Environmental Research and Public Health, 18:3063(Correspondence Author, **SSCI**, PUBLIC,ENVIRONMENTAL& OCCUPATIONAL HEALTH, IF: 2.849, 32/171= **18.71%** NSTC 109-2221-E-037-003)
8. Chang K.W, Lin C.M, Yen C.W, Yang C.C, Toshiaki Tanaka, **Guo L.Y\***, Mar 2021 ,“The Effect of Walking Backward on a Treadmill on Balance, Speed of Walking and Cardiopulmonary Fitness for Patients with Chronic Stroke: A Pilot Study” International Journal of Environmental Research and Public Health, 18: 2376 (Correspondence Author, **SSCI**, PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH, IF: 2.849, 32/171= **18.71%** ,NSTC 109-2221-E-037-003)
9. Lin N.H, Liu C.H, Lee P, **Guo L.Y**, Sung J.L, Yen C.W \*, Liaw L.J\*,Dec 2020, “Backward Walking Induces Significantly Larger Upper-Mu-Rhythm Suppression Effects than Forward Walking Does”, 20(24) : 7250 ( **SCI**, INSTRUMENTS & INSTRUMENTATION, 3.275, 15/64=23.44)
10. Lai Y.H, Wang A.Y, Yang C.C, **Guo L.Y\***, Dec 2020, “The Recovery Benefit on Skin Blood Flow Using Vibrating Foam Rollers for Postexercise Muscle Fatigue in Runners”, International Journal of Environmental Research and Public Health,17,9118 (**SSCI**, 2.849, PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH, 32/171= **18.71%**)

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12. Lai Y.H, **Guo L.Y**, Wang K.C, Perng J.W\*, Sep 2020, “Dynamical Control for the Parametric Uncertain Cancer Systems”, *INTERNATIONAL JOURNAL OF CONTROL*, 18(9):2411-2422 (SCI, AUTOMATION & CONTROL SYSTEMS, 2.181, 25/62=40.3%)
13. Lai Y.J, Cho W.N, Wang Y.L, Chu I.H, Lin Y.J, Tu S.F, **Guo L.Y\***, Jul 2020, “Will the foot strike pattern change at different running speeds with or without wearing shoes ? ” *International Journal of Environmental Research and Public Health*, 17(17) : 6044 (Correspondence Author, SSCI, PUBLIC, ENVIRONMENTAL & OCCUPATIONAL HEALTH, IF: 2.849, 32/171= 18.71%)
14. Yang C.C, Yang P.C, Chen J.J, Lai Y.H , Hu C.H, Chang Y, Tu S.F, **Guo L.Y\*** April 2020 “Near-Infrared Spectroscopy for Monitoring Sternocleidomastoid Muscular Oxygenation during Isometric Flexion for Patients with Mild Nonspecific Neck Pain: A Pilot Study” *SENSORS* ,20(8):2197 (SCI, INSTRUMENTS & INSTRUMENTATION, 3.275, 15/64=23.44%)
15. Lin I.C; Yang C.C, Lai Y.H, **Guo L.Y\***, Oct 2019, “Combining Multifactorial Assessment Tools and Dimensionality Reduction Analysis for Fall Risk Classification in Community-Dwelling Older Adults”, *Topics in Geriatric Rehabilitation*, 35(4):273-279. (SCI, SOCIAL SCIENCES, GENERAL, 0.17, 34/36=94.4%)
16. Su H, Chang N.J, Wu W.L, **Guo L.Y**, Chu I.H, Nov 2017, “Acute effects of foam rolling, static stretching, and dynamic stretching during warm-ups on muscular flexibility and strength in young adults”, *Journal of Sport Rehabilitation*, 26(6):469-477. (SCI, REHABILITATION, 1.413, 35/65=53.8%)
17. Wu C.Y, Yang Y.T, Lo P.Y, **Guo L.Y\***, Sep 2017, “Effects of respiratory muscle training on exercise performance in tennis players”, *Medicina Dello Sport*, 70(3):318-27. (SCI, MEDICINE, GENERAL & INTERNAL, 0.202, 148/155=95.5%, *NSC 102-2815-C-037-005-H*)
18. Hong C.Y, **Guo L.Y**, Song R, Nagurka M.L, Sung J.L, Yen C.W\*, June 2017, “Developing a Low-Cost Force Treadmill via Dynamic Modeling”, *Journal of Healthcare Engineering*, 2017 (2017):1-9. (SCIE, HEALTH CARE SCIENCES & SERVICES, 0.965, 80/90=88.9%)
19. Yang, C.C, Su F.C, Yang P.C, Lin H.T, **Guo L.Y\***, Dec 2016, “Characteristics of the Motor Units during Sternocleidomastoid Isometric Flexion among Patients with Mechanical Neck Disorder and Asymptomatic Individuals”, *PLOS ONE*, 11(12): e0167737. (Correspondence Author, SCI, MULTIDISCIPLINARY SCIENCES, 2.806, 15/64=23.4%, *NHRI-EX103-10204EI*)
20. Chu I.H, C.R. Nigg, Wu W.L, **Guo L.Y**, Nov 2016, “Self-determined motivation predicts different physical activity behaviors in patients with coronary heart disease”, *International Journal of Sport Psychology*, 47(6): 545-558. (SSCI, PSYCHOLOGY, MULTIDISCIPLINARY, 0.610, 101/129 = 78.3%)
21. Liang T.C, Lin J.J, **Guo L.Y**, Oct 2016, “Plantar Pressure Detection with Fiber Bragg Gratings Sensing System”, *Sensors*, 16(10): E1766. (SCI, INSTRUMENTS & INSTRUMENTATION, 2.677, 10/58=17.2%, *NSC102-2623-E037-001-D*)
22. Chen J.Y, Chen J.J, **Guo L.Y**, Sep 2016, “Pre-Exercise Health Screening and Risk Grading”, *Family Medicine & Primary Medical Care*, 31(9):297-312.
23. Hong C.Y, **Guo L.Y**, Song R, Nagurka M.L, Sung J.L, Yen C.W\*, August 2016, “Assessing postural stability via the correlation patterns of vertical ground reaction force components”, *Biomedical Engineering Online*, 15(1): 90. (SCI, ENGINEERING,

- BIOMEDICAL, 1.683, 49/77=63.6%)
24. Liaw L.J\*, Hou Y.Y, **Guo L.Y.**, Huang Y.R, Huang W.H, June 2016, “Reproducibility of Tests for Muscle Performances of Abdominal Core Stabilizers by Using a New Pressure-Biofeedback System to Monitor the Lumbopelvic Position”, *Formosan Journal of Physical Therapy*, 41(2):64-84.
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  26. You Y.L<sup>§</sup>, Su T.K<sup>§</sup>, Liaw L.J, Wu W.L, Chu I.H, **Guo L.Y.**, August 2015, “The Effect of Six Weeks Sling Exercise Training on Trunk Muscular Strength and Endurance for Client with Low Back Pain”, *Journal of Physical Therapy Science*, 27(8):2591-2596. (SCI, REHABILITATION, 0.392, 61/64=95.3%)
  27. Su B.L, Song R., **Guo L.Y.**, Yen C.W.\*, November 2014, “Characterizing Gait Asymmetry via Frequency Sub-band Components of the Ground Reaction Force”, *Biomedical Signal Processing and Control*, 18:56-60. (SCI, MEDICAL LABORATORY TECHNOLOGY, 2.214, 14/30=46.7%)
  28. Huang H.T, Liang J.M, Hung W.T, **Guo L.Y.**, Wu W.L\*, October 2014, “Adaptive Patterns of Movement during Downward Reach and Pick-up Movements in Knee Osteoarthritis Patients Combined with Mild Low Back Pain”, *Journal of Physical Therapy Science*, 26(10):1527-30. (SCI, REHABILITATION, 0.392, 61/64=95.3%)
  29. Yang C.C, Su F.C, **Guo L.Y.\***, August 2014, “Comparison of Neck Movement Smoothness between Clients with Mechanical Neck Disorder and Asymptomatic Individuals Using Spectrum Entropy Method”, *European Spine Journal*, 23(8):1743-1748. (Correspondence Author, SCI, ORTHOPEDICS, 2.563, 18/76=23.7%, *NHRI-EX103-10204EI*)
  30. **Guo L.Y.\*.§**, Yang C.P<sup>§</sup>, Yu Y.L, Chen S.K, Yang C.H, Hou Y.Y, Wu W.L, June 2014, “Underlying Mechanisms of Tai-Chi-Chuan Training For Improving Balance Ability in the Elders”, *Chinese Journal of Integrative Medicine*, 20(6):409-415. (§ Equal Contribution, Correspondence Author, SCI, INTEGRATIVE & COMPLEMENTARY MEDICINE, 1.116, 20/26=76.9%, DOH95-TD-M-113-019-(1/2&2/2) and Changhua Christian Hospital grant, 97-CCH-KMU-006, Taiwan)
  31. Huang H.T, Liang J.M, Hung W.T, Chen Y.Y, **Guo L.Y.**, Wu W.L\*, June 2014, “Timeframe for Return to Driving for Patients with Minimally Invasive Knee Arthroplasty is Associated with Knee Performance on Functional Tests”, *BMC Musculoskeletal Disorders*, 15:198. (SCI, ORTHOPEDICS, 1.739, 36/76=46.1%)
  32. Lin H.T, Chen Y.Y, Wang D.C, Chou P.H, **Guo L.Y.**, Wu W.L, June, 2014, “The Acute Effect of Training Frequencies and Number of Sets of Whole Body Vibration on Knee Joint Proprioception”, *Journal of Mechanics in Medicine and Biology*, 14(3):345-7. (SCI, ENGINEERING, BIOMEDICAL, 0.934, 64/77=83.1%)
  33. Wu W.L, Chen Y.Y, Wang C.C, Chen C.H, **Guo L.Y.**, Liaw L.J, March 2014, “Influence of Working Memory Task and Time on Postural Control in Children with Attention Deficit Hyperactivity Disorder”, *Journal of Physical Therapy Science*, 26(3):345-7. (SCI, REHABILITATION, 0.392, 61/64=95.3%)
  34. Chen Y.Y, Liaw L.J, Liang J.M, Hung W.T, **Guo L.Y.**, Wu W.L, May 2013, “Timing Perception and Motor Coordination on Rope Jumping in Children with Attention Deficit Hyperactivity Disorder”, *Physical Therapy in Sport*, 14(2):105-109. (SCI, REHABILITATION, 1.818, 21/65=32.3%)
  35. Huang Y.C, **Guo L.Y.**, Tsai C.Y, Su F.C, April 2013, “Mechanical Energy and Power Flow Analysis of Wheelchair Use with Different Camber Settings”, *Computer Methods in Biomechanics and Biomedical Engineering*, 16(4):403-412. (SCI, ENGINEERING, BIOMEDICAL, 2.264, 53/105= 50.5%)

36. Liaw L.J, Lin S.D, **Guo L.Y**, Ho Y.Y, Hou M.F, Hsu A.T, March 2013, “Ultrasound Imaging Evaluation of Abdominal Muscles after Breast Reconstruction with a Unilateral Pedicled Transverse Rectus Abdominis Myocutaneous Flap”, *Physical Therapy*, 93(3):356-368. (SCI, REHABILITATION, 2.764, 10/65=15.4%)
37. Chen S.K, Wu M.T, Huang C.H, Wu J.H, **Guo L.Y**, Wu W.L, February 2013, “The Analysis of Upper Limb Movement and EMG Activation During the Snatch Under Various Loading Conditions”, *Journal of Mechanics in Medicine and Biology*, 13(1):1-13. (SCI, ENGINEERING, BIOMEDICAL, 0.934, 64/77=83.1%)
38. Wu W.L, Wang C.C, Chen C.H, Lai C.L, Yang P.C, **Guo L.Y**, December 2012, “Influence of Therapy Ball Seats on Attentional Ability in Children with Attention Deficit/Hyperactivity Disorder”, *Journal of Physical Therapy Science*, 24 (11): 1177-1182. (SCI, REHABILITATION, 0.392, 61/64=95.3%)
39. Yang C.C, Su F.C, **Guo L.Y\***, December 2012, “A New Concept for Quantifying the Complicated Kinematics of the Cervical Spine and Its Application in Evaluating the Impairment of Clients with Mechanical Neck Disorders”, *Sensors*, 12(12):17463- 17475. (Correspondence Author, SCI, INSTRUMENTS & INSTRUMENTATION, 2.677, 10/58=17.2%)
40. **Guo L.Y\*§**, Wang Y.L§, Huang Y.H, Yang C.H, Hou Y.Y, Harn I.C, You Y.L, December 2012, “Comparison of the EMG Activation Level and Unilateral Selectivity of Erector Spinae During Different Selected Movements”, *International Journal of Rehabilitation Research*, 35(4):345-351. (§ Equal Contribution, Correspondence Author, SCI, REHABILITATION, 1.259, 38/65=58.5%)
41. Lih-Jiun Liaw\*, Wen-Lan Wu, **Lan-Yuen Guo**, December 2012, “Stabilizing Ability of Abdominal Muscles as Measured by Two Leg Loading Tests in Healthy Female”, *Formosan Journal of Physical Therapy*, 37(4):297-308.
42. Chen Y.Y, Chen C.H, Wang C.C, Liaw L.J, **Guo L.Y**, Wu W.L, September 2012, “Comparison of Dynamic Balance under Dual and Simple Task Conditions in Children with Attention Deficit Hyperactivity Disorder”, *Journal of Physical Therapy Science*, 24(8):633-637. (SCI, REHABILITATION, 0.392, 61/64=95.3%)
43. **Guo L.Y\***, Lee S.Y, Lin C.F, Yang C.H, Hou Y.Y, Wu W.L, Lin H.T, March 2012, “Three-Dimensional Characteristics of Neck Movements in Subjects with Mechanical Neck Disorder”, *Journal of Back and Musculoskeletal Rehabilitation*, 25(1):47-53. (Correspondence Author, SCI, ORTHOPEDICS, 0.912, 56/76=73.7%, *NHRI-EX97-9713EC*)
44. **Guo L.Y\***, Lin C.F, Yang C.H, Hou Y.Y, Liu H.L, Wu W.L, Lin H.T, March 2012, “Effect on Plantar Pressure Distribution with Wearing Different Base Size of High-Heel Shoes during Walking and Slow Running”, *Journal of Mechanics in Medicine and Biology*, 12(1):1-10. (Correspondence Author, SCI, ENGINEERING, BIOMEDICAL, 0.934, 64/77=83.1%, *NSC97-2629-E-037-001*)
45. Wei T.S, Huang C.J, Chen S.K, **Guo L.Y**, Wu W.L, February 2012, “Effects of Age on Attentional Demands and Postural Control of Obstacle Crossing: Evidence from a Dual-task Approach”, *Journal of Medical and Biological Engineering*, 32(1): 36-41. (SCI, ENGINEERING, BIOMEDICAL, 0.989, 62/77=80.5%)
46. Lee S.Y, Chou C.Y, Hou Y.Y, Wang Y.L, Yang C.H, **Guo L.Y\***, December 2011, “The Effects of Changes in Step Width on Plantar Foot Pressure Patterns during Walking”, *Journal of Mechanics in Medicine and Biology*, 11(5):1071-1083. (Correspondence Author, SCI, ENGINEERING, BIOMEDICAL, 0.934, 64/77=83.1%, *NSC94-2320-B-037-017*)
47. Chen C.Y, Hsu A.T, **Guo L.Y**, Lin C.F, Chen Y.A, December 2011, “Postural Control and Lower Extremity Contribution during Star Excursion Balance Test in Athletes with Chronic Ankle Instability”, *Formosan Journal of Physical Therapy*, 36(4):263-273.



48. **Guo L.Y\***, Yang C.C, Yang C.H, Hou Y.Y, Chang J.J, Wu W.L, August 2011, “The Feasibility of Using Electromagnetic Motion Capture System to Measure Primary and Coupled Movements of Cervical Spine”, *Journal of Medical and Biological Engineering*, 31(4):245-253. (Correspondence Author, **SCI**, ENGINEERING, BIOMEDICAL, 0.989, 62/77=80.5%, **NHRI-EX97-9713EC & NSC96-2815-C-037-013-B**)
49. **Guo L.Y\***, Lin C.F, Yang C.H, Hou Y.Y, Chen S.K , Wu W.L, June 2011, “Evaluation of Internal Rotator Muscle Fatigue on Shoulder and Scapular Proprioception”, *Journal of Mechanics in Medicine and Biology*, 11(3): 663-674. (Correspondence Author, **SCI**, ENGINEERING, BIOMEDICAL, 0.934, 64/77=83.1%, **NSC 93-2320-B-037-055 & NSC95-2314-B037-104**)
50. Liaw L.J\*, Liu M.F, **Guo L.Y**, Liao C.F, Tung Y.C, Wu Y.T, June 2011, “Abdominal Muscle Thickness Measured by Ultrasound Imaging at Different Regions in Healthy Young Females And Inter-Rater Reliability”, *Formosan Journal of Physical Therapy*, 36(2):100-111.
51. Lin C.J, Lin P.C, **Guo L.Y**, Su F.C, February 2011, “Prediction of Applied Forces in Handrim Wheelchair Propulsion”, *Journal of Biomechanics*, 44(3):455-460. (**SCI**, ENGINEERING, BIOMEDICAL, 2.664, 25/77=32.5%)
52. Hou Y.Y, Yang C.H, Ho W.H, Wu W.L, Chang J.J, Lin H.T, **Guo L.Y\***, December 2010, “Effect of the Shoulder-Neck Muscles Activity with Different Mouse Operation Postures”, *Formosan Journal of Physical Therapy*, 35(4):300-307. (Correspondence Author, **NSC 98-2622-B-037-003-CC3**)
53. Hou Y.Y, Li K.H, Shih P.Y, Chou H.C, Yang C.H, Chen C.Y, **Guo L.Y\***, June 2010, “Reliability and Validity of Automatic Coordination Measurement System for Upper Extremity”, *Formosan Journal of Physical Therapy*, 35(3):216-223. (Correspondence Author, **NSC97- 2622-B-037-003-CC3**)
54. **Guo L.Y\***, Lin W.Y, Tsai Y.J, Hou Y.Y, Chen C.C, Yang C.H, Huang C.C, Liu Y.H, June 2010, “Different Limb Kinematic Patterns during Pitching Movement between Amateur and Professional Baseball Players”, *Journal of Medical and Biological Engineering*, 30(3): 177-180. (Correspondence Author, **SCI**, ENGINEERING, BIOMEDICAL, 0.989, 62/77=80.5%)
55. Wan Z.L, Liao T.L, **Guo L.Y**, and Hou Y.Y\*, May 2010, “Time-driven Switching Synchronization of Modified Chua's Circuit Systems via Sliding Mode Control”, May 2010 International Symposium on Computer, Communication, Control and Automation (3CA), 5-7:290-293.(**EI**, **ISTP**)
56. Wu W.L, Wei T.S, Chen S.K, Chang J.J, **Guo L.Y**, Lin H.T, March 2010, “The Effect of Chinese Yuanji-Dance on Dynamic Balance and the Associated Attentional Demands in Elderly Adults”, *Journal of Sports Science and Medicine*, 9(1):119-126. (**SCI**, **SPORT SCIENCES**, 1.797, 37/81=45.7%)
57. Ho I.J, Hou Y.Y, Yang C.H, Wu W.L, Chen S.K, **Guo L.Y\***, March 2010, “Comparison of Plantar Pressure Distribution Between Different Speed and Incline During Treadmill Jogging”, *Journal of Sports Science and Medicine*, 9(1):154-160. (Correspondence Author, **SCI**, **SPORT SCIENCES**, 1.797, 37/81=45.7%, **NSC94-2320-B- 037-017**)
58. Wan Z.L, Liao T.L, Yan J.J, **Guo L.Y**, and Hou Y.Y\*, November 2009, “Message Masking Communication of Switched Chaotic Systems”, 2009 Second International Symposium on Knowledge Acquisition and Modeling, 3:259-262.(**EI**, **ISTP**)
59. Chen S.K, Lu C.C, Chou P.H, **Guo L.Y**, Wu W.L, March 2009, “Patellar Tendon Ruptures in Weight Lifters after Local Steroid Injections”, *Archives of Orthopaedic and Trauma Surgery*, 129(3):369-372.(**SCI**, **ORTHOPEDICS**, 1.942, 29/76=38.2%)
60. Chang J.J, Yang Y.S, **Guo L.Y**, Wu W-L, Su F.C, March 2008 “Differences in Reaching Performance between Normal Adults and Patients Post Stroke-A Kinematic Analysis”, *Journal of Medical and Biological Engineering*, 28(1):53-58. (**SCI**, ENGINEERING,

- BIOMEDICAL, 0.989, 62/77=80.5%)
61. Huang, H.T, Chen C.H, Chang J.J, **Guo L.Y**, Lin H.T, Wu W.L, March 2008, “Quantitative Gait Analysis after Unilateral Knee Arthroplasty for Patients with Bilateral Knee Osteoarthritis”, *Journal of Medical and Biological Engineering*, 28(1):11-16. (SCI, ENGINEERING, BIOMEDICAL, 0.989, 62/77=80.5%)
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  63. Wu W.L, Chang J.J, **Guo L.Y**, Lin H.T, Chen S.K, January 2008, “Effects of Different Exercise Modes but Equal Heart Rate Intensity on EPOC”, *Formosan Journal of Physical Therapy*, 33(2):87-93.
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  65. Wu, W.L, Chang J.J, Wu J.H, **Guo L.Y**, January 2007 “An Investigation of Rugby Scrumming Posture and Individual Maximum Pushing Force”, *Journal of Strength and Conditioning Research*, 21(1):251-8. (SCI, SPORT SCIENCES, 2.060, 28/81=34.6%)
  66. Shih C.Y, **Guo L.Y**, Yang C.H, July 2006 “The Impact of Anthropometry and Body Composition on Gait Parameters in Young Adult”, *Journal of TZU CHI College of Technology*, 9:159-172.
  67. **Guo L.Y**, Yang C.H, Tsao H, Wang C.Y, Liang C.C, June 2006, “Initial Effects of the Ankle Dorsiflexion Mobilization with Movement on Ankle Range of Motion and Limb Coordination in Young Healthy Subjects”, *Formosan Journal of Physical Therapy*, 31(3): 173-181.
  68. Wu W.L, Chang J.J, Wu J.H., **Guo L.Y**, Lin H.T, April 2006, “Kinematic Wrist and Thumb Posture Analysis of School Children during the Manipulation of the Mouse”, *Biomechanical Engineering: Applications, Basis, & Communications*, 18:55-61. (EI)
  69. **Guo L.Y**, Su F.C, Yang C.H, Wang S.H, Chang J.J, Wu W.L, Lin H.T, April 2006, “Effects of speed and incline on lower extremity kinematics during treadmill jogging in healthy subjects”, *Biomedical Engineering: Applications, Basis & Communications*, 18:73-79 (EI, NSC92-2320-B-277-003).
  70. **Guo L.Y**, Yang C.H, Lin C.F, Wu W.L, Wang C.Y, Chang J.J, April 2006, “Balance Performance and Ground Reaction Impact During Drop Landing After Ankle Taping”, *Formosan Journal of Physical Therapy*, 31(2): 81-86. (NSC93-2815-C-277-001-B)
  71. **Guo L.Y**, Su F.C, Wu H.W, An K.N, February 2006, “Effect of Hand Rim Diameter on Manual Wheelchair Propulsion Using Mechanical Energy and Power Flow Analysis”, *Clinical Biomechanics*, 21:107-115. (SCI, SPORT SCIENCES, 1.874, 31/81=38.3%, NSC89-2614-E-242-001).
  72. Lin T.Y, Tung W.L, **Guo L.Y**, Chang T.Y, Chang J.J, October 2005, “The Effects of Bilateral and Unilateral Reaching on Trunk Movement in Stroke Patients---A Kinematic Analysis”, *Journal of Taiwan Occupational Therapy Association*, 23: 38-48.
  73. Wu, W.L, Chang J.J, Wu J.H, **Guo L.Y**, Chuang K.C, Yan K.D, March 2005, “An Investigation of Influential Factors on Pushing Force Produced by Rugby Scrumming”, *Journal of Physical Education in Higher Education*, 7(1): 209-222.
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  75. **Guo L.Y**, Yang C.H, Wang C.Y, September 2004, “Muscle Activation in Lower Limbs During Incline Jogging in Normal Young Subjects”, *Journal of Tzu Chi College of*

- Technology (6), 167-180 (*NSC92-2320-B-277-003*).
76. **Guo L.Y.**, Zhao K.D, Su F.C, An K.N, September 2003, “Moment Generation in Manual Wheelchair Propulsion”, Proceedings of the Institution of Mechanical Engineers Part H – Journal of Engineering in Medicine, 217(5): 405-413, (**SCI, ENGINEERING, BIOMEDICAL**, 1.005, 61/77=79.2%).
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  78. **Guo L.Y.**, Su F.C, Wu H-W, An K-N, January 2003, “Mechanical Energy and Power Flow of the Upper Extremity in Manual Wheelchair Propulsion”, Clinical Biomechanics, 18:106-114, (**SCI, SPORT SCIENCES**, 1.874, 31/81=38.3%, *NSC89-2614-E-242-001*).
  79. **Guo L.Y.**, Su F.C, An K-N, January 2002, “Optimum Propulsion Technique in Different Wheelchair Handrim Diameter” Journal of Medical and Biological Engineering, 22(1):1-10. (**SCI, ENGINEERING, BIOMEDICAL**, 0.989, 62/77=80.5%)
  80. **Guo L.Y.**, Su F.C, Chou Y.L, October 2001, “Gait Symmetry in Spastic Diplegia of Cerebral Palsy”, Formosan Journal of Physical Therapy, 26(5): 246-54.
  81. Su F.C, **Guo L.Y.**, Lin C.J, Chou Y.L, Cherng R.J, April 2000, “Gait Characteristics at Five Gait Events in Cerebral Palsy”, Biomedical Engineering: Applications, Basis & Communications, 12:173-84 (**EI**).
  82. Lin C.J, **Guo L.Y.**, Su F.C, Chou Y.L, Cherng R.J, March 2000, “Common Abnormal Kinetic Patterns of the Knee in Gait in Spastic Diplegia of Cerebral Palsy”, Gait & Posture, 11(3): 224 - 232 (**SCI, SPORT SCIENCES**, 2.347, 20/81=24.7%).
  83. **Guo L.Y.**, Wang Chi-Ying, 1998, “Survey of the Working Condition and Job Satisfaction for the First Generation of Two-Years Junior College Graduates of the Physical Therapy Program in Taiwan”, Tzu Chi College of Technology 7: 281-293.

## (B) 研討會論文

### (Overseas)

1. Hu C.H., Bui L., Tu S.J., **Guo L.Y.**, 2019, “Neuromuscular Motor Unit Adaptive Strategy In The Vastus Medialis Muscle Of Young And Old Adult”, The 24<sup>th</sup> European College of Sport Science, Prague, Czech, July 3-6.(Poster)
2. Li J.Y, Jonathan Kuo, Wu H.F, Chen Y.A, Yang C.C, **Guo L.Y.\***, 2018, “The Immediate Effects of Using Different Supportable Elastic Knee Braces on Frontal Plane Knee Biomechanics of Athletes”, The 8th World Congress of Biomechanics, Dublin, Ireland, July 8-12.(Poster)
3. Kuo H.Y, **Guo L.Y.**, Hsiao C.E, Chen H.S, Chen P.Y , Tseng S.C \*, 2018, “The Effects of Core Stability Exercises Using the Flexi-bar on Patients with Non-Specific Low Back Pain”, The 23rd European College Of Sport Science, Dublin, Ireland, July 4-7.(Poster)
4. Yang C.C, **Guo L.Y.\***, 2017, “Clinical Practicability of Cervical Workspace for Participants with Neck Pain”, The 23rd Congress of the European Society of Biomechanics, Sevilla, Spain, July 2-5. (Poster, NHRI-EX103-10204EI & NSTC105-2815-C-037-045-H)
5. Lin Y.J, Cheng Y.T, Hsiao S.M, **Guo L.Y.\***, Kuo M.C, 2016, “Investigation of the exercise barriers with CKD patients: Physical Fitness and Attitude for exercise”, The 6th ISPAH International Congress on Physical Activity and Public Health, Bangkok, Thailand, November 16-19. (Poster, NSTC103-2410-H-037-013-MY2)
6. Li J.Y, **Guo L.Y.\***, 2016, “Immediate effects of elastic knee braces on frontal plane motion biomechanics in healthy men”, 21th Annual European College of Sport Science Congress, Vienna, Austria, July 6-10. (Mini Oral)
7. Yang P.C, Yang C.C, Chang Y, **Guo L.Y.\***, 2016, “Investigation of Oxygenation Difference during Sternocleidomastoid Isometric Contraction for Clients with Mechanical

- Neck Disorder”, XXI Congress of the International Society of Electrophysiology and Kinesiology, Chicago, USA, July 5-8. (Poster, *NHRI-EX103-10204EI*)
8. Su W.Y, **Guo L.Y\***, Yen C.W, Wu L.Y, 2016, “Validation Study for Novel Designed Tri-Axis Force Plate and Development of Algorithm for Decomposing Ground Reaction Force On A Single Force Plate”, The 6th International Conference on the Development of Biomedical Engineering in Vietnam, Ho Chi Minh City, Vietnam, June 27-29. (Poster)
  9. Yang B.C, Yang C.C, **Guo L.Y\***, 2015, “Effect of Stretch and Massage Therapy on Oxygen Saturation Change of Mechanical Neck Disorder”, The 30th Japanese Conference on the Advancement of Assistive and Rehabilitation Technology, Okinawa, Japan, November 13-15. (Poster)
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46. Lee Y.C, **Guo L.Y\***, 2011, “The Effects of Kinesio Taping on Neck Flexor Muscles Endurance: A Pilot Study”, 2011 International Sports Biomechanics Conference and Annual Meeting of Taiwan Society of Biomechanics in Sports, Taoyuan, Taiwan, Oct 29, 2011. (Oral, *NHRI-EX100-9713EC*)
47. Wu T.Y, Dai Y.S, Chen H.M, Huang P.C, **Guo L.Y**, Yang C.H, 2011, “Delayed Activation of Vasti and Glutues Medius Muscles During Dynamic Activitiesin Individuals with

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  85. Tseng K.L., Lin H.T., Wang L.H., Wu W.L., **Guo L.Y.**, 2007, “The Dynamic Balance in Different Skill Level Players in Tennis Forhand Stroke”, Congress of Taiwanese Society of Biomechanics, R.O.C, Tainan, Taiwan, Dec 21. (Oral)
  86. Lai S.Q, Lee W.L, Shi J.Y, **Guo L.Y.**, Yang C.H\*, 2007, “Is Reduction of Blood Flow around Patella with Different Seat Postures?”, Congress of Taiwanese Society of Biomechanics, R.O.C, Tainan, Taiwan, Dec 21. (Poster, *NSC 96-2524-S- 037-001-EC3* )
  87. Leong I.T, Tsai Y.J, Yang C.H, **Guo L.Y\***, 2007, “Spectrum Distribution of Skin Blood Flow after Chinese Traditional Exercise”, Congress of Taiwanese Society of Biomechanics, R.O.C, Dec 21. (Poster paper Award, *DOH96-TD-M-113-004-(2/2)*)
  88. Leong I.T, Tsai Y.J, Yang C.H, **Guo L.Y\***, 2007, “Wai Tan Kung and Yuan Chi Dance Can Strengthen the Lower Extremity Muscles”, Congress of Taiwanese Society of Biomechanics, R.O.C, Dec 21. (Poster Paper Competition Winner, *DOH96-TD-M-113-004-(2/2)*)
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  95. Yang L.C, Lee S.Y, Yang C.H, Guo L.Y\*, 2007, “Alterations in Plantar Pressure Patterns after Ankle Taping during Landing”, 2007 Annual Symposium on Biomedical Engineering and Technology, Dec 14-15. (Poster)
  96. Lee S.Y, Liu H.L, Yang C.H, Guo L.Y\*, 2007, “Dynamic Plantar Pressure Patterns During Level Walking with Wearing Different Base Sizes of High-heel Shoes”, 2007 Annual Symposium on Biomedical Engineering and Technology, Dec 14-15. (Poster)
  97. Gong W.Y, Jenp W.Z, You Q.Y, Chen Y.Y, Guo L.Y, Yang C.H\*, 2007, “Effects of Fibular Repositioning Taping on Spatial-temporal Characteristics during Level Walking in Individuals with Functional Ankle Instability”, 55<sup>th</sup> Scientific Conference of Association of Physical Therapy R.O.C, Kaohsiung, Taiwan, October 20.
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121. Lin W.Y, Lee S.Y, Yang C.H, and Guo L.Y, 2006, “The Initial Effects of Controlled Step Width on the Plantar Pressure Pattern During Level Walking”, Congress of Taiwanese Society of Biomechanics, R.O.C, Dec 9. **(Oral Paper Award)**
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  132. Guo L.Y, Su F.C, Wu H.W, 2000, “Mechanical Energy and Power Balance of the Upper Extremity in Manual Wheelchair Propulsion ”, 2000 Annual Conf. of Taiwanese Society of Biomechanics, Kaohsiung, Taiwan, Nov. 25. **(Best Orthopaedic Biomechanics Paper Award)**
  133. Guo L.Y, Su F.C, Chou Y.L, Lin C.J, Cherng R.J, 1996, "Gait Analysis for Children with Cerebral Palsy", 1996 Annual Conf of Formosan Society of Biomechanics, Taipei, Taiwan, Dec. 21.
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**(C) 專書**

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2. 郭藍遠, 2007, "關節", 實用解剖與生理學, 王鐘賢總校閱, 台中: 華格那。
3. Guo L.Y., "Load Optimization in Wheelchair Propulsion", 2003, PhD dissertation, Institute of Biomedical Engineering, National Cheng-Kung University, Taiwan
4. Guo L.Y., "Gait Analysis for Children with Cerebral Palsy", 1996, Master dissertation, Institute of Biomedical Engineering, National Cheng-Kung University, Taiwan

## 教學經歷

### 目前授課課程 (列舉)

研究所

MSTM3 運動醫學特論

MEBIO 運動傷害實證醫學

MSTA4 運動傷害防護特論

MEBT2 運動生物力學儀器分析與應用

MEHP0 高齡健康促進特論

MSGA1 步態分析特論

MABA4 生物統計學特論(含操作)

MMCP3 醫用電腦程式

MEOS0 高級環境與職業安全衛生特論

MSZA4 專題討論

大學部

ASMP3 運動醫學實習(I)

ASSM0 運動醫學專題討論

ARSS0 運動科學研究法

ASWS1 運動科學論文寫作

ATMP1 儀器治療

ATMP2 儀器治療實習

ASED0 運動及體適能器材設計

ASIP0 單項運動傷害防護特論

PMES0 運動傷害防護學

ASBD1 運動生物力學

AHMG1 健康管理

AFHP0 職場體適能與健康促進

AEPF0 體適能評估與測試

APER1 身體檢查與運動傷害復健

AHSG0 老人健康與運動

ASPM1 運動傷害防護導論

AKIN1 肌動學

AISC0 運動科學概論

### 先前授課課程

AEPP1 運動處方

AEPP 2 運動處方實習

AFAL0 急救學與實驗

AFHP0 職場體適能與健康促進

Lan-Yuen Guo, PT, Ph.D. (03/15/2023)

AGPS0 普通心理學  
 AHCP0 運動保健管理實習  
 APER1 身體檢查與運動傷害復健  
 ARSS0 運動科學研究法  
 ASPM1 運動傷害防護導論  
 ASWS1 運動科學論文寫作  
 ATMP1 儀器治療  
 ATMP2 儀器治療實習  
 PMES0 運動傷害防護學

指導學生名單

年度	研究生	系所	學位	專題名稱
97	李淑雅	高雄醫學大學運動醫學系碩士班	碩士	機械性頸部失能症患者之頸部活動及自主神經功能探討
100	林千芬	高雄醫學大學運動醫學系碩士班	碩士	雙軸頸部力矩測量儀於機械性頸部失能症患者之應用
100	尤玉琳	高雄醫學大學運動醫學系碩士班	碩士	懸吊式訓練對於下背痛患者的效果
101	王詩婷	高雄醫學大學運動醫學系碩士班	碩士	核心穩定訓練對於女性籃球選手跳躍與改變方向能力之影響
101	李彥成	高雄醫學大學運動醫學系碩士班	碩士	姿勢矯正回饋訓練在機械性頸痛患者之應用
102	高欣儀	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	攀岩運動對於久坐辦公族群的效益:以核心肌群強化效果為探討
102	賴盈仁	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	不同跑步速度下的著地型態之分析:鞋子效益的探討
102	張耿維	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	跑步機背向行走訓練對慢性中風患者平衡能力、走路表現與心肺適能之療效
102	黃瑛儀	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	探討男性消防人員火災搶救任務中空氣呼吸器利用能力之影響因子
102	陳仕偉	高雄醫學大學運動醫學系研究所	碩士	軍人穿不同陸軍用鞋行走時的足底壓力特徵與特製鞋內墊的效應

103	陳俊宏	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	懸吊式訓練對羽球選手敏捷度與跳躍力的影響
103	蘇瑋淵	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	自製三軸測力板與商用測力板之效度評估暨發展力分解演算法
103	溫清瑞	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	體外震波治療對於肩頸疼痛的治療效益
103	王泓琦	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	比較冷熱刺激療法與經皮神經電刺激療法於急性期中風病人上肢感覺及動作功能恢復之效益
103	楊家琪	國立成功大學生物醫學工程學系	博士	探討機械性頸部失能症生物力學及神經肌肉適應特徵
104	楊柏慶	高雄醫學大學運動醫學系碩士班	碩士	探討機械性頸部失能症在胸鎖乳突肌上氧合之效應
104	林宜靜	高雄醫學大學運動醫學系碩士班	碩士	探討臺灣慢性腎疾病患者的臨床參數、運動動機和運動介入成效
105	李俊毅	高雄醫學大學運動醫學系碩士班	碩士	穿著不同支撐材質彈性護膝後對於運動選手膝關節動作生物力學的立即效果
105	陳宇廷	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	探討類赤足鞋男性跑者在不同斜坡與速度下之著地型態效應
105	張博智	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	半監督式運動處方於南台灣病態性肥胖病患接受胃袖狀切除手術後心肺適能、身體組成改變與減重成效之關聯：一年成果分析
105	陳建佑	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	台灣船員運動行為和心血管疾病風險因子的關聯
106	郭曉韻	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	30 秒及 60 秒動態伸展結合暖身運動對成人下肢爆發力及敏捷度的影響
106	曾士琦	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	使用紅繩作核心穩定運動對偏癱患者軀幹功能、平衡能力、行走功能及日常生活功能之影響

106	吳漢洲	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	使用肌內效貼布矯正圓肩對於男性上斜方肌張力的立即影響
106	葉佳佳	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	停經後婦女骨質流失與動作障礙症候群之關聯
106	陳思宇	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	使用泡綿滾筒按摩對坐姿體前彎的效益：比較解剖列車方式及傳統形式的差異
106	黃子唐	高雄醫學大學高齡長期照護碩士學位學程	碩士	循環式運動對社區老人身體適能與骨質密度之影響
107	莊立倫	高雄醫學大學運動醫學系碩士班	碩士	白蛋白尿作為預測透析前的慢性腎臟病患者下肢活動能力下降指標之研究
107	王愛怡	高雄醫學大學運動醫學系研究所碩士在職專班	碩士	跑者使用震動滾筒，對於運動後肌肉疲勞恢復的效益
107	戴秀英	高雄醫學大學高齡長期照護碩士學位學程	碩士	社區銀髮族油壓式環狀運動阻力和次數之訓練特徵探討
108	陳冠毅	高雄醫學大學運動醫學系碩士在職專班	碩士	心胸外科術後使用音樂介入對於肺擴張運動之效應
108	洪佳儀	高雄醫學大學運動醫學系碩士在職專班	碩士	臀肌閉鎖鍊運動配合巫毒帶的應用對於下肢生物力學的成效
109	Muham mad Usama Qamar	高雄醫學大學運動醫學系碩士班	碩士	空氣污染暴露對運動的健康益處危害評估之系統性文獻查證及統合分析研究
109	盧琬吟	高雄醫學大學運動醫學系碩士在職專班	碩士	比較泡棉滾筒與震動滾筒結合動態肌肉收縮對女性籃球運動員下肢運動表現的影響
109	周子瞻	高雄醫學大學運動醫學系碩士在職專班	碩士	比較脊椎矯正技術和脊椎矯正技術合併骨盆矯正對於慢性下背痛患者的療效
109	陳威翰	高雄醫學大學運動醫學系碩士在職專班	碩士	肌內效貼紮對於腕隧道症候群之效應
110	隋禹鈞	高雄醫學大學高齡長期照護碩士學位學程	碩士	高齡者與其照顧者使用洗澡椅之滿意度調查研究
110	劉仁誠	高雄醫學大學高齡長期照護碩士學位學程	碩士	8週循環式阻力訓練對於銀髮族群神經肌肉適應之探討



110	莊秉程	高雄醫學大學運動醫學系碩士班	碩士	探討老年人和年輕人在不同速度和阻力下肢推蹬動作時的肌電訊號特徵
110	侯琇云	高雄醫學大學運動醫學系碩士在職專班	碩士	可調式低頻交變磁波對於靜坐冥想之效益探討
110	陳盈穎	高雄醫學大學運動醫學系碩士在職專班	碩士	使用不同槓鈴於側登階、弓箭步和單腿蹲之肌電圖分析
110	鍾泓翊	高雄醫學大學運動醫學系碩士在職專班	碩士	長者使用具視覺回饋功能之油壓阻力運動設備的效益及特徵之回溯性研究
110	陳美辰	高雄醫學大學運動醫學系碩士在職專班	碩士	衰弱前期及衰弱期老人執行 12 週抗阻力及腳趾抓握運動介入成效探討

## 賴政秀 Lai,Cheng-Hsiu

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### 學歷

美國德州大學奧斯丁校區 護理學博士

### 現職及與專長相關之經歷

現職：美和科技大學護理學院院長

### 經歷：

臺北市立大學體育學院院長

臺北市立體育學院教務長

臺北市立體育學院 體育與健康學系暨碩士班 教授兼系所主任

臺北市立體育學院 體育與健康學系 副教授

輔仁大學 護理學系 副教授兼系主任

輔仁大學 護理學系 副教授

輔仁大學 護理學系 講師

長庚大學 護理學系 講師

### 學術專長

兒科護理學

人類發展學

健康老化學

健康促進



## **Curriculum Vitae**

### **PERSONAL DATA**

Name: Chuan-Hang Yu

Address: Department of Dentistry, Chung Shan Medical  
University Hospital, No.110, Sec.1, Chien-Kuo N.  
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Telephone: +886-4-2471-8668 ext. 55161

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### **EDUCATION:**

2005-2008 National Taiwan University, Taipei, Taiwan, Ph.D. (Oral Pathology)

2003-2005 National Taiwan University, Taipei, Taiwan, M.S. (Oral Pathology)

1996-2002 Chung Shan Medical University, Taichung, Taiwan, D.D.S. (Dentistry)

### **PROFESSIONAL EXPERIENCE:**

#### **Employment**

Since 2008 Attending Physician, Department of Stomatology, Chung Shan Medical  
University Hospital, Taichung, Taiwan

2007-2008 Adjunct Resident, Department of Dentistry, National Taiwan University  
Hospital, Taipei, Taiwan

2002-2003 Resident, Department of Dentistry, En Chu Kong Hospital, New Taipei  
City, Taiwan

#### **Academic Position**

Since 2022 Chair, School of Dentistry, College of Oral Medicine, Chung Shan  
Medical University

Since 2014 Professor, Chung Shan Medical University, Taichung, Taiwan

2011-2014 Associate Professor, Chung Shan Medical University, Taichung, Taiwan

2008-2011 Assistant Professor, Chung Shan Medical University, Taichung, Taiwan

Since 2009 Adjunct Assistant Professor, School of Dentistry, National Taiwan  
University, Taipei, Taiwan

2006-2008 Teaching Assistant, School of Dentistry, National Taiwan University,  
Taipei, Taiwan

Since 2021 Vice president, Taiwan Association of Disability and Oral Health

Since 2009 Supervisor, Taiwan Academy of Oral Pathology

2005-2008 General Secretary, Taiwan Academy of Oral Pathology

**Speaker: Chuan-Hang Yu**

**Topic: Interdisciplinary Domiciliary Dental Care and Oral Rehabilitation - from University to Practice Environment**

**Abstract**

The population aged over 65 years old will be beyond 20% in 2025 in Taiwan. The swallowing function decreases with aging, and some may cause dysphagia. Dysphagia may have three pivotal impacts on general health: aspiration pneumonia, malnutrition, and dehydration. Pneumonia was the third leading cause of death among the elderly in 2021 Taiwan. A study has shown that swallowing disorders among the elderly living in the community in Taiwan is about 13%. The treatment and rehabilitation of swallowing disorders need an interdisciplinary approach. This presentation will show the viewpoint of a dentist on swallowing disorders from the undergraduate education to the practice environment.

## 蕭思郁 Szu-Yu Hsiao



### 現職:

高雄醫學大學牙醫學系 講師

高雄醫學大學附設醫院牙科部兒童牙科、特殊需求者牙科 主任、主治醫師

### 學歷

大阪齒科大學大學院小兒齒科專攻 博士

高雄醫學(院)大學牙醫學系 學士

### 經歷

聖功醫院牙科 主治醫師

日本兵庫縣立兒童醫院牙科 研修醫師(住院醫師)

### 研究專長及領域

兒童牙科學

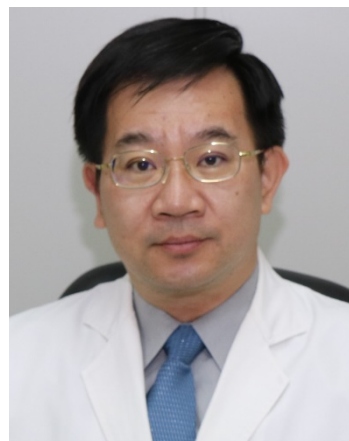
特殊需求者牙科學

牙科公共衛生

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## **Yu-Chao Chang, DDS, PhD**

Professor, School of Dentistry  
Vice President, Chung Shan Medical University



Professor Yu-Chao Chang is Vice President, Chung Shan Medical University, Taichung, Taiwan. He received his dental degree at Chung Shan Dental and Medical College. Dr. Chang began his career as a dentist with specialist training in periodontics at Chung Shan Medical University Hospital and earned his PhD degree in Medicine at the Institute of Medicine of Chung Shan Medical University. During 2009-2010, he went to USC as a Visiting Professor. His research interests include oral biology, periodontology, and dental epidemiology. He currently serves as Associate Editor of *Odontology* and *Journal of Dental Sciences*. Again, Professor Chang was selected by the Stanford University as the "World's Top 2% Scientists 2022" and listed in the categories of "Lifelong Science Influence Rankings (1960-2021)" and the "2021 Science Impact Rankings" respectively.

## CURRICULUM VITAE

**NAME :** Chun-Hung Chen



### CURRENT PROFESSIONAL POSITION:

Director of Neurology/International Medical Center, Kaohsiung Municipal Siaogang Hospital, Kaohsiung Medical University.  
Director of Multidisciplinary Swallowing Center, Kaohsiung Municipal Siaogang Hospital, Kaohsiung Medical University.

### EDUCATION:

1993-1997	Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan. (M.D.)
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### PROFESSIONAL EXPERIENCE:

2019.05-now	Director, Taiwan Neurological Society
2021.01-now	President, Kaohsiung Stroke Association
2022.11-now	Director, Taiwan Stroke Society

### RECENT RESEARCH PROJECTS:

Stroke, Dementia, Neuro-intensive care, Dysphagia

### SELECTED REFERED PAPER:

1. Pharmacological Management of Dysphagia in Patients with Alzheimer's Disease: A Narrative Review.

Li CH, Hsieh SW, Huang P, Liu HY, Chen CH, Hung CH.

Curr Alzheimer Res. 2022 Nov 30. doi: 10.2174/1567205020666221130091507.

2. Risk of cognitive impairment from exposure to incense smoke.

Hsieh SW, Chen SC, Chen CH, Wu MT, Hung CH.

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doi: 10.1080/09603123.2021.2014420. Epub 2021 Dec 16.

3. A Novel Tongue Pressure Measurement Instrument with Wireless Mobile Application Control Function and Disposable Positioning Mouthpiece.

Liu HY, Chen CH, Kuo CH, Feng MC, Chen JH, Wang HW, Chen KC, Lin CL.

Diagnostics (Basel). 2021 Mar 10;11(3):489.

4. The Role of Cilostazol and Inflammation in Cognitive Impairment After Ischemic Stroke.

Huang LC, Hsieh SW, Tsai CC, Chen CH, Yang YH.

Am J Alzheimers Dis Other Demen. 2021 Jan-Dec;36:15333175211016185.

doi: 10.1177/15333175211016185.

5. The long-term risk of epilepsy after transient global amnesia:

A population-based cohort study.

Hsieh SW, Yang YH, Ho BL, Yang ST, Chen CH.

Clin Neurol Neurosurg. 2020 Oct;197:106086.

6. Cognitive Deficits Associated With Dysphagia in Patients With Dementia.

Hsieh SW, Chuang HY, Hung CH, Chen CH.

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Hsieh SW, Chen CH, Huang LC, Chang YH, Yang YH.

Aging Ment Health. 2020 Aug;24(8):1342-1347.

8. Long-term risk of depression after transient global amnesia: A population-based study.

Hsieh SW, Chen CH, Ho B, Yang ST, Yang YH.

Psychiatry Clin Neurosci. 2020 Jul;74(7):413-414.

9. The Mortality and the Risk of Aspiration Pneumonia Related with Dysphagia in Stroke Patients.



- Feng MC, Lin YC, Chang YH, Chen CH, Chiang HC, Huang LC, Yang YH, Hung CH.  
J Stroke Cerebrovasc Dis. 2019 May;28(5):1381-1387.
10. Factors of post-stroke dementia: A nationwide cohort study in Taiwan.  
Li CH, Chang YH, Chou MC, Chen CH, Ho BL, Hsieh SW, Yang YH.  
Geriatr Gerontol Int. 2019 Aug;19(8):815-822.
11. White Matter Changes in Patients with Alzheimer's Disease and Associated Factors.  
Kao YH, Chou MC, Chen CH, Yang YH.  
J Clin Med. 2019 Feb 1;8(2):167.
12. The Long-Term Risk of Dementia after Transient Global Amnesia: A Population-Based Cohort Study in Taiwan.  
Hsieh SW, Chen CH, Huang P, Li CH, Yang ST, Yang YH.  
Neuroepidemiology. 2019;53(3-4):201-208.
13. Effect of the Interaction Between Hypertension and Cerebral White Matter Changes on the Progression of Alzheimer Disease.  
Chou PS, Kao YH, Wu MN, Chou MC, Chen CH, Lin RT, Yang YH.  
Curr Alzheimer Res. 2018;15(14):1354-1360.
14. Renal function is associated with 1-month and 1-year mortality in patients with ischemic stroke.  
Wang IK, Liu CH, Yen TH, Jeng JS, Sung SF, Huang PH, Li JY, Sun Y, Wei CY, Lien LM, Tsai IJ, Sung FC, Hsu CY; Taiwan Stroke Registry Investigators.  
Atherosclerosis. 2018 Feb;269:288-293.



#### 演講內容摘要

咀嚼吞嚥障礙是老化及許多疾病的共同後遺症，它不僅會影響進食功能更會危害人體的健康。有鑑於此，為了達到預防勝於治療的目的，高雄市立小港醫院特別成立了全台灣第一個咀嚼吞嚥障礙機能重建中心。我們不僅組織了跨領域的專業團隊也建立了標準照護流程，因此也獲得了良好的臨床成效。此外，我們也積極地透過學校教育培養更多的專業照護人員，並且深入社區做民眾口腔機能篩檢與衛教宣導。我們也與產業界合作創新開發出許多新的產品提供患者使用，明顯提升個案進食安全與復健訓練的成果。在我們持續的之下獲得許多獎項的肯定與殊榮，但我們卻更樂意將成功的經驗分享給更多的人，大家齊心協力共同幫助有需要的患者。

Swallowing disorders are the common sequelae of aging and many diseases. It will not only affect the eating function but also endanger the health of the human body. In order to achieve the purpose of prevention is better than cure, Kaohsiung Municipal Siaogang Hospital established the first Multidisciplinary Swallowing Center for dysphagia patient in Taiwan.

We have not only organized a multidisciplinary team and established a standard protocol for dysphagia patient, so our clinical outcomes are very good. In addition, we also train more professional caregivers by way of school education, and conduct oral function screening and public health education for the community. We have

also cooperated with others to innovate and develop many new products, which can significantly improve the patient's eating safety and rehabilitation training results.

Through our continuous efforts, we have finally won many awards and honors, but we are more willing to share our successful experience with more people, and we will work together to help patients in need.

# 國立屏東科技大學 校長簡歷

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**專長領域：**

雷射銲接技術、雷射深雕技術、雷射變色處理、  
製造熱流分析、微機電系統、車輛空氣動力學



**學歷：**

德國斯圖佳特大學設計與製造工程學院工學博士(1996/10-2000/08)

國立中央大學機械工程研究所碩士(1988/09-1990/06)

國立中央大學機械工程學系學士(1984/09-1988/06)

**現職：**

國立屏東科技大學 校長(2022.8~)

國立屏東科技大學車輛工程系教授(2011.8~)

國立屏東科技大學科技農業學士學位學程合聘教授(2020.8~)

中華民國農科園區產學協會第八屆理事(2022.7.8~2024.7.7)

財團法人技專校院入學測驗中心基金會112學年度統一入學測驗試務  
工作委員會委員(2022.8.1~2023.7.31)

中華民國國立科技大學校院協會第六屆理事(2022.9.11~2024.9.10)

僑務委員會僑務工作專家(2022.9.1-2024.8.31)

台灣綠色大學聯盟第五屆監事(2022.8.17-2023.8.25)

中華民國國立科技大學校院協會第六屆常務理事(2022.  
9.11~2024.09.10)

**經歷：**

國立屏東科技大學總務長(2014.8~2022.7)

國立屏東科技大學環安衛中心主任(2014.8~2022.7)

國立屏東科技大學永續辦公室執行長(2020.8~2022.7)

國立屏東科技大學學務處副學務長(2012.3~2014.7)

國立屏東科技大學學務處課指組組長(2010.8~2014.7)

**學術獎勵及榮譽事蹟(含服務及貢獻)：**

1. 推動執行屏科大參加世界綠色大學聯盟「世界綠色大學」評比，榮獲全球第29名(2021)
2. 推動執行屏科大參加世界綠色大學聯盟「世界綠色大學」評比，連續8年榮獲全國第1名(2014~2021)
3. 執行屏科大永續大學發展業務，獲台灣永續能源基金會頒發2021大學永續報告書白金獎(2021)
4. 參與研發綠能儲氣發電系統獲美國達文西發明展奪金牌獎(2021)
5. 國科會102年度補助大專校院獎勵特殊優秀人才(2013)
6. 國科會101年度補助大專校院獎勵特殊優秀人才(2012)
7. 國科會100年度補助大專校院獎勵特殊優秀人才(2011)
8. 「中華民國航空太空學會第五十三屆年會暨學術研討會」籌備委員會委員(2011)
9. 中華民國航空太空學會第52屆司選委員會主任委員暨副秘書長(2011)
10. 德國工程師協會證書(VDI 19850099)(1998)

馮明珠 高級專員	
學歷	<p>國立成功大學 護理研究所碩士</p> <p>國立高雄大學 高階法律暨管理碩士</p>
現職	<p>高雄市立小港醫院院長室高級專員/咀嚼吞嚥機能置建中心執行長</p> <p>私立輔英科技大學護理系/兼任副教授</p> <p>高雄市政府/市政顧問</p> <p>財團法人濟興基金會/董事</p> <p>財團法人愛滋病護理人員基金會/董事</p> <p>愛鄰長照社團法人/顧問</p> <p>敏惠醫護管理專科學校牙體技術科/顧問</p> <p>台灣愛滋病學會/監事</p> <p>台灣愛滋病護理學會/理事</p> <p>財團法人厚生基金會[無管人生] 委員</p> <p>吞嚥障礙醫學學會/監事</p> <p>中華國際全方位照護學會/理事</p>
經歷	<p>高雄市立大同醫院院長室高級專員/國際醫療中心主任/護理部主任</p> <p>高雄市立小港醫院護理部督導</p> <p>高雄醫學大學附設中和醫院護理部督導/病友服務室主任/公關室主任</p> <p>育英醫護專科學校/董事</p>
特殊成就	<p>行政院衛生署「新時代護理形象」獎/衛生疾病管制局-個人防疫績優獎</p> <p>/臨床愛滋病照護優良護理人員獎/第17屆國家新創獎/護理人員特殊貢</p>

	<p>獻獎/高雄市模範勞工/全國十大優秀青年獎/十大南丁格爾獎-個人獎、 團體獎/111年台灣永續行動獎[全獎]/第19屆國家新創獎</p>
SNQ	<p>3C 愛滋照護團隊-持續照顧愛滋守護-標章</p> <p>108年食在安全-SNQ 標章</p> <p>110年邁向無管人生典範醫院-銀獎</p>

## V、贊助廠商 Financial Sponsor

(依照首字筆畫排序)

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Pharmaceutical Co., Ltd
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Ltd
4. 和豐國際行銷股份有限公司 HORIZON INSTRUMENTS  
CO.,LTD
5. 社團法人高雄市樹子照顧服務事業發展協會 Kaohsiung  
City Shu-zi Care Service Development Association
6. 財團法人佳醫健康基金會 Excelsior Health Foundation
7. 偉登興業有限公司 JOYO WELLDENT.CO.,LTD
8. 惠興股份有限公司 SURGIMED CORPORATION
9. 傳承儀器有限公司 Continuous Instrument Co., Ltd
10. 醫百科技股份有限公司 EPED Inc.



# 2023 International Symposium on Transdisciplinary Care for Dysphagia



**高雄醫學大學**  
Kaohsiung Medical University



**國立臺北護理健康大學**  
National Taipei University of Nursing and Health Sciences

## 指導單位

教育部、衛生福利部、國科會生命科學研究推動中心  
高雄市政府經濟發展局

## 主辦單位

高雄醫學大學

## 共同主辦單位

國立臺北護理健康大學、高雄醫學大學產學營運處  
高雄醫學大學口腔醫學院、高雄醫學大學護理學院  
高雄醫學大學附設中和紀念醫院、高雄市立小港醫院  
高雄市立大同醫院

## 協辦單位

高雄市牙醫師公會、台灣口腔衛生科學學會、台灣口腔照護協會  
台灣咀嚼吞嚥障礙醫學學會、台灣特殊需求者口腔醫學會