



KAOHSIUNG MEDICAL UNIVERSITY



高雄醫學大學
Kaohsiung Medical University
口腔衛生學系

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口腔衛生學系

DEPARTMENT OF ORAL HYGIENE

台灣第一所口腔衛生學系—Since 2002.
The first school of dental hygiene in Taiwan

台灣第一所口腔衛生研究所—Since 1993.
The first master program of dental hygiene in Taiwan



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口腔衛生學系亮點

Highlights

- ◆ 全台第一所口腔衛生學系(2002年)
 - ◆ 全台唯一口腔衛生研究所(1993年)
 - ◆ 全台唯一口腔衛生客觀結構式技能考試(OSCE)(2013年)
 - ◆ 全台唯一虛擬實境暨擴增實境(VR/AR)口腔照護技能訓練教室(2020年)
 - ◆ 日本排名第一東京科學大學(IST)口腔衛生學系姊妹校海外見習(2020年)
 - ◆ 與國際接軌的實習規劃，畢業可直接考日本、香港的口腔衛生師證照
 - ◆ 本系於2002年7月加入「亞太公共衛生學術聯盟(APACPH)」，為該聯盟19個國家、59個單位中唯一以口腔公共衛生加入之單位，為口腔健康促進盡更大的努力。
- ◆ The first department of oral hygiene in Taiwan (2002)
 - ◆ The first master program of oral hygiene in Taiwan (1993)
 - ◆ The only OSCE for oral hygiene in Taiwan (2013)
 - ◆ Taiwan's only virtual reality and augmented reality (VR/AR) oral care training classroom (2020)
 - ◆ Established sister school with the Department of Dental Hygiene, Institute of Science Tokyo (2020)
 - ◆ Graduates can directly take the dental hygienist licenses in Japan and Hong Kong.
 - ◆ In July 2002, our department joined the Asia-Pacific Academic Consortium for Public Health (APACPH). Among the Consortium's 59 member institutions across 19 countries, we are the only unit representing oral public health. Through this affiliation, we are committed to making greater contributions to the promotion of oral health.



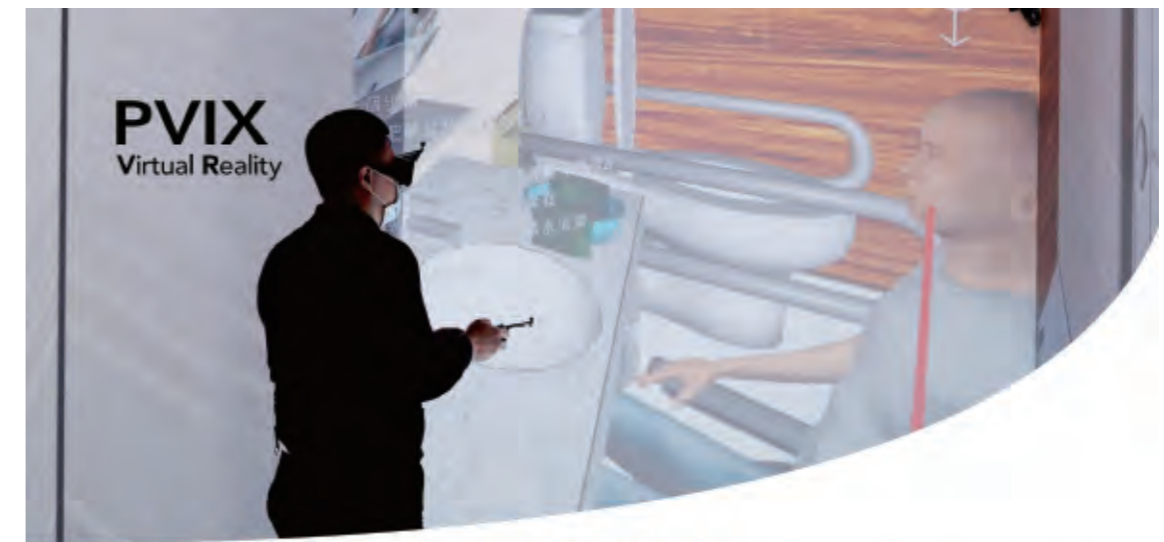
失智症門診口腔照護
Oral care for dementia patient



OSCE考試
OSCE

特色

Feature



新科技口腔照護 專業教育訓練

New technology for professional oral care educational training

虛擬實境暨擴增實境口腔照護技能訓練教室
Virtual and Augmented Reality(VR/AR)Oral Care Training Classroom



歷史軌跡

Historical Path



職場場域

Career Field

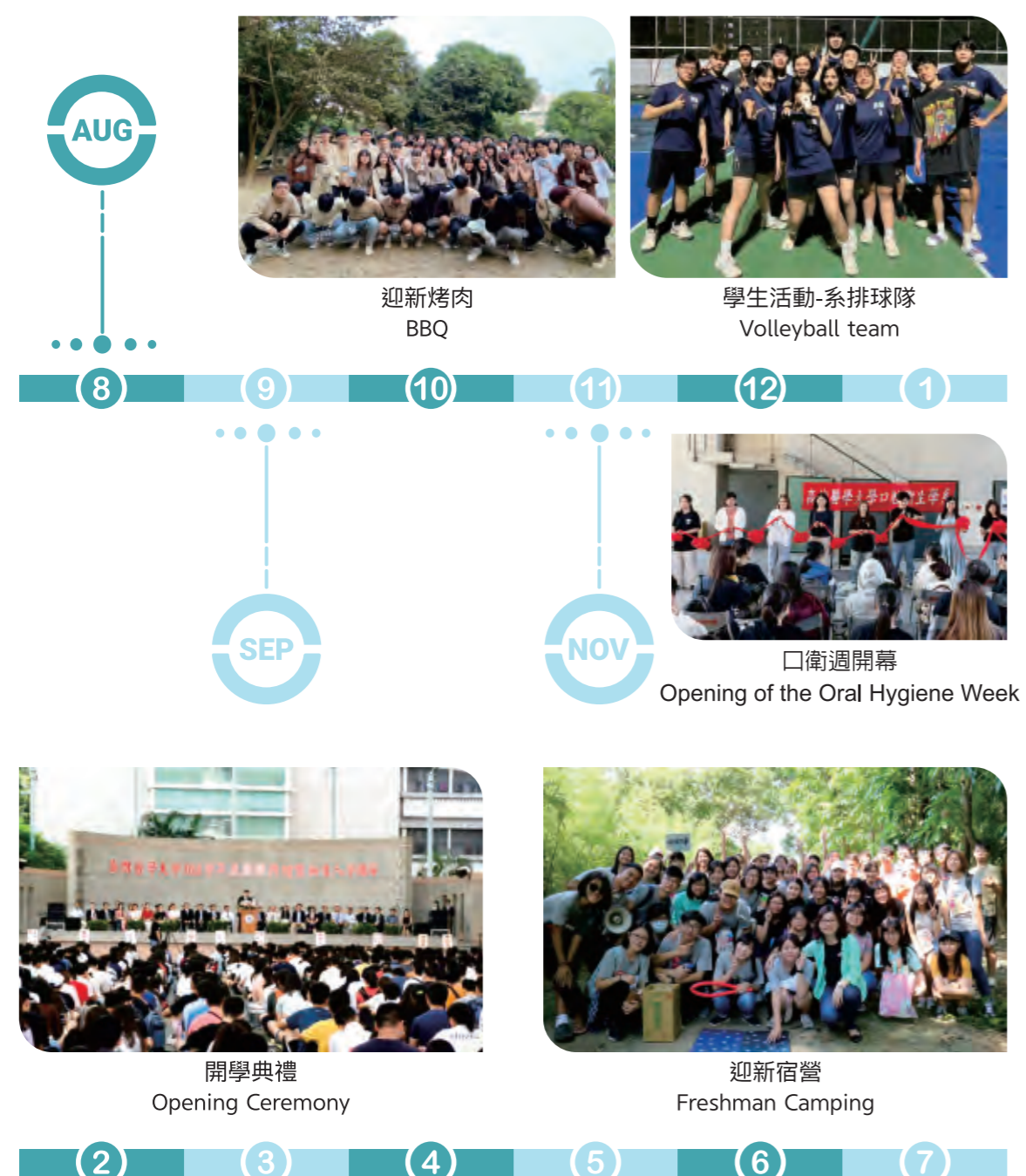
歷屆畢業生職場場域 Alumni Career



四年養成教育

Four-Year Education and Training

第一年 | First Year



第二年 | Second Year



第三年 | Third Year

9 10 11 12 1 2



進階課程訓練
Advance Courses Training

3 4 5 6 7 8

<海外見習>

學生申請前往日本姐妹校(東京醫科齒科大學、神奈川齒科大學、九州齒科大學)由老師帶隊前往參訪見習

<Overseas Clerkship>

Students apply for going to sister schools in Japan (Tokyo Medical and Dental University, Kanagawa Dental University, Kyushu Dental University) for visits and clerkship, led by teachers.



日本九州地區照護機構參訪
Visit to a care institution in Kyushu, Japan



神奈川齒科大學上課
Class at Kanagawa Dental University



<加章典禮>

三年級時會邀請老師及家長共同為同學將代表使命和責任臂章別上，期許四年級臨床實習階段大家共同為口腔健康 盡一份心力。

<Badge Ceremony>

In the third year, teachers and parents will be invited to give an arm badge to students. The badge represents their mission and duty, expecting them to make their contributions to the oral health of all during their internship in the fourth year.

第四年 | Fourth Year

臨床實習 |

Full-year Clinical Internship

9 10 11 12 1 2 3 4 5 6



牙科部次專科實習
Dental Subspecialty Internship



護理之家
Nursing Home



社區衛教
Community Health Education

以本校附設醫院及其體系醫院為主要且核心之實習場域

<臨床實習訓練>

口腔臨床照護學是本學系教育訓練重點，包括教學醫院各臨床科、長期照護機構、社區臨床衛教、醫務管理實務操作等，共計有臨床實習學分20學分，秉持著訓練高知識水準及實際臨床經驗的口腔衛生人才是我們核心目標。

<Clinical Internship>

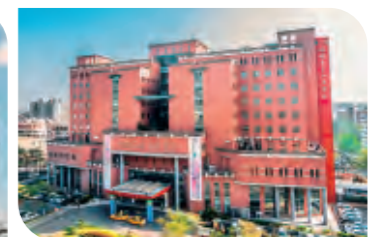
Clinical oral healthcare is an emphasis in the Department's education and training. It includes all clinical departments in a teaching hospital, long-term care institution, community clinical health education, healthcare management practice, etc. It constitutes 20 credits for clinical practice. It is our core objective to train oral health professionals with both high-level knowledge standard and practical clinical experience.



高雄市立小港醫院
KMU Siaogang Hospital



本校附設岡山醫院
KMU Gangshan Hospital



本校附設醫院
KMU Hospital

國際交流姐妹校

International Exchange with Sister Schools

01 日本九州齒科大學 Kyushu Dental University, Japan



02 日本東京科學大學 Institute of Science Tokyo, Japan



03 日本神奈川齒科大學 Kanagawa Dental University, Japan



教學、訓練與研究

Teaching, Training and Research

促進口腔健康的保健、口腔衛生教育、口腔照護服務與研究培育兼具臨床及社區教育、溝通與技能的口腔衛生專業人才。

Promote oral health care, oral health education, oral care services and research.

Cultivate oral health professionals with both clinical and community education capability, as well as communication abilities and professional skills.

01 臨床口腔擬真輔助與模擬 Clinical Dental Assistance and Simulation

- ◆推展客觀結構式測驗(OSCE)，強化臨床核心照護能力
- ◆導入口腔擬真輔助與模擬，大大提升就業軟硬實力
- ◆口腔機能障礙模擬與實作，促進全人口腔生活品質
- ◆虛擬實境/擴增實境(VR/AR)的沉浸式教學應用
- ◆高齡與特殊照護專屬的口腔機能障礙模擬訓練
- ◆Promote objective structural clinical examination (OSCE) to strengthen core clinical care abilities
- ◆Introduce oral virtual reality aids and simulations, greatly improving the hard and soft powers of employment
- ◆Simulation and implementation of oral dysfunction to promote holistic oral quality of life
- ◆Immersive Teaching Applications of Virtual Reality/Augmented Reality (VR/AR)
- ◆Simulated Training for Oral Functional Impairments in Geriatric and Special Care Populations



02 多元場域學習與照護體驗 Diversified field learning and care experiences

- ◆善盡社會責任，關懷弱勢族群
- ◆透過體驗學習，同理特殊需求
- ◆面對不同對象，精進照護技能
- ◆透過不同對象的關懷、照護學習，使成為獨當一面之口腔衛生個案管理專員
- ◆本系與校內12個科系，中山大學20個科系可進行輔系、雙主修多元學習
- ◆Fulfill social responsibility and care for vulnerable populations
- ◆Develop sympathy for special needs through experiential learning
- ◆Improve care skills for diverse targets
- ◆Become a capable oral health case management specialist who can work independently with different targets through sympathy and care learning
- ◆Students can enroll for minors or double majors from 12 departments in KMU and 20 departments in NSYSU for diverse learning.



本系與校內外各系、輔系、雙主修資訊詳洽
教務處網頁<https://academic.kmu.edu.tw>

For details about the Department's policy on minors and double majors with various departments in the University and out of the University, please refer to the Office of Academic Affairs website <https://academic.kmu.edu.tw>

03 全人口腔健康促進與照護 Holistic Oral Health Promotion and Care

- ◆從出生、成長到老化
- ◆從健康、衰弱到失能
- ◆從教導、自主到照護
- ◆培養跨領域口腔健康促進及照護人才，發展全人全程之口腔健康促進與照護
- ◆From birth, growth, to aging
- ◆From health, weakness, to disability
- ◆From instruction, autonomy, to caregiving
- ◆Cultivate interdisciplinary talents for oral health promotion and care; develop holistic and total oral health promotion and care



04 口腔健康服務走出去 Oral Healthcare Outreach Service

學校 | 到博愛及金潭國小衛教將專業學以致用，貢獻所長。

School | Offer health education at Boai and Jintan Elementary Schools to apply what they have learned and serve the community.



社區 | 到長照機構及社區大學實施衛教活動

Community | Conduct health education at long-term care institutions and community colleges



偏鄉離島 | 口衛系研究生到台東及澎湖支援衛教服務

Desolate areas and islands | Graduate students of the Department of Oral Hygiene assist in health education activities in Taitung and Penghu



專業學習 · 接軌社會

Professional Learning, Connecting with Society

掌握未來研究趨勢 · 關懷民衆健康需求

Grasping future research trends
Caring for health needs of the public

01 口腔健康促進及照護研究室

Oral Health Promotion and Care Laboratory



02 特殊需求者口腔照護研究室

Special Needs Oral Care Laboratory



重點課程	長照機構口腔健康照護 Oral health care for long-term care institutions	口腔衛生學 Oral hygiene	牙科器械 Dental instruments
	社區口腔衛生實務 Community oral health practices	口腔解剖學 Oral anatomy	牙科材料臨床應用 Clinical application of dental materials
	衛生教育與健康促進 Health education and health promotion	牙體形態學 Dental morphology	牙科醫療輔助 Dental auxiliaries

03 研究能力養成

Development of research ability

- 口腔預防保健能力 Preventive oral health care ability
- 口腔健康促進能力 Oral health promotion ability
- 臨床口腔照護能力 Clinical oral care capabilities
- 專業創新能力 Professional innovation ability
- 社區參與能力 Community participation
- 專業倫理與人文關懷能力 Professional Ethics and Humanistic Care
- 數位化與資訊管理能力 Digitalization and Information Management

04 研究人才養成

Researcher training

- 牙科醫療照護工作 Dental care activities
- 特殊照護機構相關單位 Special care-related institutions
- 健康促進產業 Health promotion industry
- 衛生政策相關工作 Health policy-related activities
- 學術研究工作 Academic research activities

05 本系研究計畫推動

Research Projects

1. 學幼童口腔保健計畫
Early Childhood Oral Health Care Program
2. 永續菁農人才培育與健康發展計畫
Sustainable Talent Cultivation and Health Development Program for the Laonong Community
3. 牙周病預防計畫
Periodontal Disease Prevention Program
4. 高齡者咀嚼吞嚥預防計畫
Prevention Program for Elderly Dysphagia
5. 特殊需求者口腔照護計畫
Oral Care Program for Individuals with Special Needs
6. 新科技創新口腔照護計畫
Innovative Oral Care Program with New Technologies

非選不可的理由

Why Is It a Must-Pick Option?

18個高薪但被忽視的超棒工作，美國網友強烈推薦！

18 High paying dream jobs that go unnoticed, highly recommended by netizens in the US!

於大多數學生而言，大學的高等教育一定程度上決定了他們畢業之後的職業，比如醫生、教師或記者。但也有一部分學生，對於未來的職業規劃沒有很清晰的藍圖。也許你想念醫學院，卻不一定要成為一名醫生；也許你對地圖方面感興趣，但不知道如何將之與就業結合在一起；也許你只是還沒找到你想要做的而已。而嚴峻的就業市場和負擔過重的學貸，讓許多人開始質疑自己所選的大學專業，根據數據顯示將近一半的大學畢業生對於所選學校及其科系感到後悔。最近美國極受歡迎的網上討論區 Reddit 公布了「大多數人不知道卻存在這世上的高薪超棒工作」，許多網友都根據自身的經驗貢獻了一批名單，讓我們一起來看看這些被忽視的超棒職業吧（以下內容均為國外信息，僅供參考）！

For most students, higher education in the university to some extent determines their career after graduation, such as doctor, teacher or journalist. However, some students do not have a clear career plan for the future. Maybe you want to go to a medical school, but you don't have to be a doctor; maybe you are interested in maps, but don't know how it may relate to employment; maybe you just haven't figured out what you want to do. The harsh job market and overburdened student loans have made many people dubious about the majors they've chosen in the university. According to the data, nearly half of the college graduates regret their choice of school and department. Recently, Reddit, a very popular online discussion forum in the US, announced the "high paying dream jobs that exist in the world but most people don't know." Many netizens have contributed to the list based on their own experience. Let us take a look at these awesome jobs that are usually ignored! (The following contents are from a foreign source and are for reference only.)

| 職場最令人滿意的20個科系 | 20 Most Satisfying Majors in the Job Market

- ◆空中交通管理員(Air Traffic Controller)平均年薪：118,780美元
- ◆法庭速記員(Court stenographer)平均年薪：55,000美元
- ◆牙科保健員(Dental hygienist)平均年薪：71,970美元
- ◆工業設計師(Industrial design)平均年薪：67,030美元
- ◆麻醉科助理(Anesthesiology assistant)平均年薪：97,280美元
- ◆空間信息工程師/土地勘測測量員(Geomatic engineering/Land surveying)
平均年薪：60,310美元
- ◆包裝設計工程師(Packaging engineering)平均年薪：85,110美元
- ◆助聽協助醫生/聽力學家(Hearing-aid practitioner/Audiologist)
平均年薪：76,790美元
- ◆醫療設備維修人員(Hospital technology repair)平均年薪：48,540美元

- ◆Air traffic controller, average annual salary: USD 118,780
- ◆Court stenographer, average annual salary: USD 55,000
- ◆Dental hygienist, average annual salary: USD 71,970
- ◆Industrial design, average annual salary: USD 67,030
- ◆Anesthesiology assistant, average annual salary: USD 97,280
- ◆Geomatic engineering/Land surveying, average annual salary: USD 60,310
- ◆Packaging engineering, average annual salary: USD 85,110
- ◆Hearing-aid practitioner/Audiologist, average annual salary: USD 76,790
- ◆Hospital technology repair, average annual salary: USD 48,540

◎資料來源：新足跡遊學 日期：2016.05.09
原文網址：<https://read01.com/ky43oM.html>

◎Source: XinZuJi.com, Date: 2016.05.09,
Original Link : <https://read01.com/ky43oM.html>

美國人力網站PayScale做了一份大規模的調查，找出20個年薪成長不一定最優、但能擁有滿意職涯的大學主修科目(連結請見文末)。美國的薪資和職別不見得適用於台灣，有些工作我們甚至沒聽過，比方休閒治療師。但這份名單，對於判斷職場趨勢，還是具有參考性。

A large-scale survey conducted by the American human resource website PayScale identified 20 college majors that do not necessarily have the best increase in annual salary but provide the most satisfying career (link at the end of this article). The salary and occupational structures of the US may not apply to Taiwan and some job titles may never be heard of here, for example the recreational therapist. However, this list still makes a good reference for the future trend of the job market.

- ◆醫事檢驗
- ◆神職課程
- ◆社群健康教育
- ◆臨床檢驗
- ◆呼吸照護
- ◆照護
- ◆口腔衛生

82%的人認為自己工作相當有意義最常見的工作：潔牙師、牙醫診所管理者、口腔衛生指導員

職涯初期年薪中位數：65,800美元(217.14萬台幣)

職涯中段年薪中位數：72,800美元(240.24萬台幣)

- ◆Medical Laboratory Sciences
- ◆Pastoral Ministry
- ◆Community Health Education
- ◆Clinical Laboratory Sciences
- ◆Respiratory Care
- ◆Health Care
- ◆Dental Hygiene

82% consider their job very meaningful Common job title: Dental Hygienist, Dental Clinic Manager, Dental Hygiene Instructor

Median annual salary for starter: USD \$65,800 (NTD 2,171,400)

Median annual salary for mid-level practitioner : USD \$72,800 (NTD 2,402,400)



- | | |
|-----------|-----------------------------------|
| ◆學齡前及小學教育 | ◆Preschool & Elementary Education |
| ◆醫療超音波 | ◆Diagnostic Medical Ultrasound |
| ◆諮商 | ◆Counseling |
| ◆運動訓練 | ◆Athletic Training |
| ◆呼吸治療 | ◆Respiratory Therapy |
| ◆休閒治療 | ◆Recreational Therapy |
| ◆放射線科技 | ◆Radiologic Technology |
| ◆採礦工程 | ◆Mining Engineering |
| ◆安全管理 | ◆Safety Management |
| ◆健康服務 | ◆Health Service |
| ◆公眾服務 | ◆Public Service |
| ◆醫療管理 | ◆Health Care Management |
| ◆學齡前教育 | ◆Preschool Education |

◎出處：天下雜誌

作者：黃維德

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原文網址：<https://www.cw.com.tw/article/article.action?id=5072574#>

◎Source：

CommonWealth Magazine, by Wei-De Huang,

date：2015.11.21

Original Link：<https://www.cw.com.tw/article/article.action?id=5072574#>

校友職場分享

Sharing of Outstanding Alumni



汪硯雲 Yan-Yun Wang

- 第1屆校友
- 高雄醫學大學牙醫學系 教授
- 雲林國立斗六高中
- Alumna of Class 2001
- Professor, Department of Dentistry, KMU
- National Tou-Liu Senior High School

「口腔衛生」四個字，看似淺顯易懂，實則有許多學問值得、也必須被探究及傳承。從事教師一職是我早就訂定好的志向。求學時期學系提供完整的專業知識及技能培訓，加上研究所的邏輯和獨立思考能力的養成，讓我有機會一步一步建構自己在口腔醫學上的價值。口腔衛生學系畢業的我，在口腔醫學的環境中教學，使我更能與學生貼近，而在研究上也擁有基礎實力，更易朝明確目標前進。

Dental Hygiene seems simple and easy to understand, but actually contains lots of knowledge worthy of exploring and must be explored and passed down. Being a teacher has always been an ambition of mine. The complete professional knowledge and skill training provided by the university and the development of logical and independent thinking ability in the graduate program allows me to build up my self-worth step by step. Being an alumna of the Department of Oral Hygiene who teaches in the dental hygiene environment, I am close to the students. I have also developed fundamental research capability that makes it easier to approach my defined goal.



郭念愉 Nian-Yu Guo

- 第2屆校友
- 維欣牙醫醫美聯合診所口腔衛生師
- 國立台南女中
- Alumna of Class 2003
- Dental Hygienist, Wesing Dental and Aesthetic Medicine United Clinic
- National Tainan Girl's Senior High School

我的工作主要是醫師與病患之間的溝通橋樑，大學所學讓我有完整的知識及技能，在與病人諮詢的過程能給予清楚而完整的說明，並在術後給予衛教指導，讓服務過的患者還帶著家人一起來學習照顧口腔衛生的知識呢！

My job is mainly to serve as a communication bridge between the dentist and patient. What I learned in the university provides me with sufficient knowledge and skills to clearly and comprehensively communicate with patients during the consultation process and give healthcare instructions after operation. Some patients I served before even came with their families to learn how to take care of dental health!



林盈諄 Ying-Zhun Lin

- 第2屆校友
- 高雄私立明誠中學
- 育英醫護管理專科學校 老人健康服務事業管理科科长主任
- Alumna of Class 2003
- Kaohsiung St. Paul's High School
- Chair, Yuh-Ing Junior College of Health Care and Management, Department of Elder Health Service and Management

大學學習口腔預防保健、研究所學習口腔健康促進，畢業後從事社區調查與民眾口腔衛教宣導。融合口腔保健知識與研究發現的口腔疾病影響因素，對民眾進行衛教更具說服性，提升口腔健康是口腔衛生師的責任，我以此為榮。

Majored in Preventive Dental Health Care in college and Dental Health Promotion in graduate program, I am engaged in community survey work and promotion of dental hygiene instruction to the public after graduation. I've combined dental health care knowledge with knowledge about factors affecting dental diseases as identified by research to make health instruction more convincing. Promoting dental health is the responsibility of a dental hygienist and I am proud of it.



黃正銘 Zheng-Ming Huang

- 第2屆校友
- 美商登士柏西諾德公司 資深業務主任
- 新竹國立竹北高中
- Alumnus of Class 2003
- Senior Sales Director, Dentsply Sirona Taiwan Branch
- National Chupei Senior High School

因相關科系的關係，讓我對於產品的特性、應用與客戶(牙醫師)的溝通並不陌生，讓我可以發揮所長並學以致用，做好產品的推廣、銷售及售後服務，幫助牙醫師提供更優質、更安全、更快捷的牙齒保健服務。

Having graduated from a relevant department, I am familiar with the product features and applications, and have no problem communicating with the customers (dentists). I can practice what I have learned, as well as successfully promote and sell the products, and provide after-sale services which help the dentists provide better, safer and faster dental healthcare services.



林慧婷 Hui-Ting Lin

- 第2屆校友
- 美商登士柏西諾德股份有限公司 台灣分公司 業務部業務經理
- 國立台南女中
- Alumna of Class 2003
- Business Manager, Dentsply Sirona Taiwan Branch
- National Tainan Girl's Senior High School

在學校的四年學習許多牙科基礎知識，了解不同專科牙科的運作，讓我們進入職場得以無縫接軌，不僅完全吸收產品特性與知識，更能將之傳遞給客戶(醫師)協助在臨床做到最好的發揮。

During the 4 years of my university study, I've learned a lot of basic knowledge of dentistry and understood how the different specialist dentists operate. This helps us smoothly transition into the workplace. I can not only totally absorb the knowhow and the product features, but also convey it to the customers (dentists) so they can make the best of the products in clinical setting.

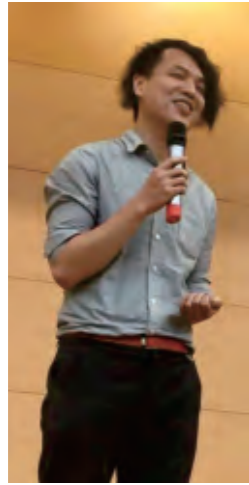


柯嘉玲 Jia-Ling Ke

- 第2屆校友
- 睿谷科技股份有限公司 總經理
- 國立台南女中
- Alumna of Class 2003
- General Director, Realbone Technology Co., Inc.
- National Tainan Girl's Senior High School

大學期間，主要學習口腔醫學知識與臨床實務，亦啟發對於研究的興趣，而後選擇攻讀研究所，結合研究與應用實務，研發口腔醫學領域使用之生醫材料。畢業後曾在學界擔任博士後研究員，現於醫療器材製造業擔任研發經理。

I mainly focused on studying the stomatological knowledge and clinical practice in college, which inspired my interest in research and further study. In the graduate program, I combined research and application practice to develop biomedical materials for stomatology. I worked as a post-doctoral researcher in the academia after graduation. Now I am an R&D Director in medical devices production industry.



馬晨峰 Chen-Feng Ma

- 第3屆校友
- 萊森馬汀顧問有限公司 經理
- 基隆市立基隆中學

- Alumnus of Class 2004
- Manager LicenMarketing Consultant CO., LTD.
- National Keelung Senior High School

記得當年成績總是吊車尾，讀書不行、臨床也沒有很厲害，對未來也沒有特別的想法，但我知道如果技不如人又照著別人的路線走，那未來肯定很難有一片立足之地。因此本著硬頸精神，多方嘗試、不輕易拒絕任何可能性，雖然研究所也比同學多花一年才畢業，但相對也多累積一些技能。剛出社會時，也跟大家一樣迷惘，不過也是本著多方嘗試、不輕易拒絕任何可能性的想法，所以也經歷到一些還不錯的特殊經驗。有時候不知道什麼時候會用上經驗、經歷往往會在不知不覺中得到回饋，例如牙科的知識、研發的經驗、創業的經驗、食藥署的審查經驗，竟然不約而同一起回饋在我現在的顧問工作上。因為顧問這行就是放在那邊給人問，所以醫療器材產業從上游到下游、乃至法規都需要了解並提供經驗以及解決方式給客戶。尤其當公司的客戶半數以上都是牙科產業時，過去的牙科專業知識就變成了與同行競爭的一大武器。因此我認為能學習的時候就盡量學習並且把握每一個機會，有朝一日能夠派上用場當然很好，如果沒有機會，偶爾也可以拿出來吹噓一番也是蠻有趣的，說不定哪天都要靠這些知識跟經驗混口飯吃呢！

In my memory, my grades were always among the lowest. I was not good at studying nor clinical practice. But I knew that with my inferior skills, walking a common path as others do would not promise a fortune. Therefore, I just stiffened my neck, tried everything and never gave up any possibility easily. Although I spent one more year in the graduate program than other students, I learned more skills. As everyone else does, I was confused when I just graduated. Again, I tried as much as I could and did not give up any possibility easily. Eventually I had some unique experiences. Some experiences turn out to be useful in time unexpectedly. For example, the knowledge of dentistry and the experiences in R&D, start-up, and TFDA review process all contribute to my current consultant work. Because a consultant's job is to answer all kinds of questions, I have to know everything from the upstream to downstream processes of medical devices industry, understand the regulations and provide experiences and solutions to customers. Since most customers are in the dental industry, the professional knowledge of dentistry I learned in the past becomes a competitive edge against my peers. So I recommend that you learn all you can whenever you have the opportunity. It will be great if you can apply it in the future. If not, it will also be fun to just brag about. You never know when you will rely on these knowledge or experiences to get a job!



吳蕙妤 Hui-Yu Wu

- 第5屆校友
- 睿谷科技股份有限公司 創辦人
- 高雄私立道明中學

- Alumna of Class 200
- Founder, Realbone Technology Co., Inc.
- St. Dominic Catholic High School

於就學過程中進行了跨領域材料研究，奠定了醫材開發研發基礎。後續則於學校擔任研究助理，持續研發牙科及骨科醫器產品，並於這當中參加政府FITI的創業競賽取得創業傑出獎，繼而能和實驗室團隊新創醫材公司。

I participated in cross-discipline material research when I was in the university, which provided a foundation in medical devices R&D. Subsequently, I worked as a research assistant in the university to continue developing products for dental and orthopedic medicine; meanwhile I won the Outstanding Start-Up prize in FITI Start-Up Competition and later founded an innovative medical devices company with the research team of the lab.



謝曉宜 Xiao-Yi Xie

- 第5屆校友
- ABC牙醫聯盟 行政專員
- 台南私立興國中學

- Alumna of Class 2006
- Administration Specialist, ABC Dental Group
- Private Hsing Kuo Senior High School

ABC牙醫聯盟工作已10年多，從工讀生開始至今做到診所管理人員，仍然覺得大學時學到的東西，不論是牙科臨床協助醫師看診，至後來的助理教育訓練工作，都有很大的幫助，也因於這樣的學歷及經驗，後續開始協助診所的牙醫PGY訓練工作、對岸的口腔護士教育訓練，這幾年也開始協助新診所的籌辦及管理。

I have been working in ABC Dental Group for more than 10 years. I started as a work-study student and now am the clinic manager. Even now, what I've learned in the university are still useful, no matter when I'm offering clinical help to dentists or training assistants. Because of my educational background and experiences, I've later started assisting in the PGY training of dentists in the clinic, training dental nurses in China. I've even helped in establishing and managing new clinics in recent years.



陳志章 Chih Chang Chen

- 第5屆校友
- 高雄醫學大學牙醫學系博士候選人
- 高雄醫學大學口腔衛生學系兼任講師
- 曾任：樹人醫專口腔衛生學科講師 / 嘉義市國立嘉義高中
- Alumni of Class 2006
- PhD Candidate, School of Dentistry, Kaohsiung Medical University
- Adjunct Lecturer, Department of Oral Hygiene, Kaohsiung Medical University
- Former Lecturer, Department of Oral Hygiene, Shu-Zen Junior College of Medicine and Management / National Chiayi Senior High School

從大學開始累積六年臨床牙醫輔助經驗，碩士畢業後跨域至勞動部勞安所擔任助理研究員，從事職業醫學及勞工健康相關研究。退伍後再跨域至嘉義基督教醫院復健科擔任研究助理，協助醫師撰寫口腔癌病人復健相關計畫。後回歸本業協助牙醫師籌辦牙醫診所並擔任口腔衛生諮詢師，並應聘至樹人醫專籌備口腔衛生科，現回到高醫進修，為高醫牙醫系博士候選人。

I have accumulated six years of clinical experience as a dental assistant since my undergraduate studies. After completing my master's degree, I worked as an Assistant Researcher at the Institute of Occupational Safety and Health, Ministry of Labor, conducting research in occupational medicine and workers' health. Following military service, I served as a Research Assistant in the Department of Rehabilitation at Chiayi Christian Hospital, supporting physicians in rehabilitation-related projects for patients with oral cancer. I later returned to the dental field, assisting in dental clinic establishment, providing oral health consultation, and contributing to the development of the Department of Oral Hygiene at Shu-Zen Junior College of Medicine and Management. I am currently pursuing advanced training as a PhD candidate in the School of Dentistry at Kaohsiung Medical University.



林怡婷 Yi-Ting Lin

- 第6屆校友
- 本校附設醫院特殊需求者牙科 口腔衛生師
- 高雄市中正高中
- Alumna of Class 2007
- Dental Hygienist for special needs, KMHU
- Kaohsiung Municipal Zhongjheng Senior High School

擔任口腔衛生師的工作，深覺跨領域團隊合作的重要性，與患者及家屬的互動關係，溝通的技巧等歷練與自身於大學求學期間的知識、技能為基礎，結合大四一整年的臨床實習經驗有關。

As a dental hygienist, I deeply appreciate the importance of interdisciplinary team cooperation. The interaction with patients and their family and the communication skills draw on my own experience combined with the skills and knowledge acquired during the university study, as well as the clinical experience during internship at the senior year.



莊立瑜 Li-Yu Chuang

- 第6屆校友
- 紐約州立口腔衛生師
- 台南家齊女中
- Alumna of Class 2007
- Licensed Dental Hygienist in the State of New York
- National Tainan Chia-Chi Senior High School

因從小矯正關係，對牙科相關工作產生興趣，在高中畢業後進入高雄醫學大學口腔衛生學系就讀，實習時萌發了想出國去了解口腔衛生師的真實面貌，畢業後隻身前往美國，全世界第一間口腔衛生師學校 Fones School of Dental Hygiene就讀，順利取得學位及美國口腔衛生師執照。

Due to undergoing orthodontic treatment from a young age, I developed a strong interest in dentistry. After graduating from high school, I enrolled in the Department of Oral Hygiene at Kaohsiung Medical University. During her clinical internship, I was inspired to explore the true role of dental hygienists abroad.

After graduation, I moved to the United States on her own to study at the Fones School of Dental Hygiene—the world's first dental hygiene school. I successfully earned my degree and obtained my U.S. dental hygienist license.



李 恆 Heng Li

- 第6屆校友
- 慈惠醫護管理專科學校 口腔衛生科 助理教授
- 高雄市中立高中
- Alumnus of Class 2007
- Tzu Hui Institute of Technology, Department of Oral Hygiene, Assistant Professor
- Kaohsiung Municipal Chungshan Senior High School

大學時期習得口腔保健的相關知識與技術，並且認知到口腔保健的重要性；研究所階段獲得進行研究與執行計畫之經驗；退伍後分別在高醫特殊需求者牙科、黃曉靈教授研究團隊累積實務經驗，提供口腔保健相關服務與計畫執行；目前於慈惠醫護管理專科學校口腔衛生科任教，負責口腔照護與牙科醫療相關課程授課、規劃與實習。

I learned the knowledge and skills related to dental healthcare and knew its importance in college. I gained experiences in research and project execution in the graduate program. After retiring from military service, I gained more practical experiences from the Department of Dentistry for special needs in KMHU and from Professor Xiao-Ling Huang's research team, where I'd provided dental healthcare-related services and executed projects. Now I am teaching in Tzu Hui Institute of Technology Department of Oral Hygiene, responsible for giving lectures, planning, and organizing internship for Dental Healthcare and Dental Medicine-related courses.



江典澄 Dian-Cheng Jiang

- 第6屆校友
- 高雄醫學大學牙醫系博士
- 仁德醫護管理專科學校 口腔衛生學科助理教授
- Alumna of Class 2007
- Ph.D, School of Dentistry, Kaohsiung Medical University
- Assistant Professor, Department of Oral Hygiene, Jen-Teh Junior College of Medicine, Nursing and Management

目前任教於仁德醫專口腔衛生學科，結合臨床實務與創新教學，帶領學生從基礎操作到實際臨床應用，並參與社區口腔健康推廣，讓專業不只在課堂，更走進真實世界，口腔衛生學系提供完整的專業訓練與臨床實習機會，讓我在畢業後能無縫接軌職場，不論是臨床、教學或產業領域，都具備競爭力。選對科系很重要！口腔衛生不僅專業性高、就業穩定，發展多元（臨床、教學、醫療產業皆可）。只要願意投入，你的未來會比想像更寬廣！

I am currently studying in the Department of Oral Hygiene at Jen-Teh Junior College of Medicine, Nursing and Management, where I integrate clinical practice with innovative teaching methods. I guide students in applying theoretical knowledge to real-world clinical settings and actively participate in community oral health promotion. I believe learning should not be limited to the classroom, and I am dedicated to helping students develop both practical skills and critical thinking.

After graduation, career opportunities are not limited to hospitals or clinics; they also extend to teaching and the healthcare industry. Choosing the right field is important. Oral hygiene offers not only professional expertise and stable employment, but also diverse career paths, including clinical practice, education, and healthcare-related industries. With commitment and dedication, your future can be broader and more promising than you imagine.

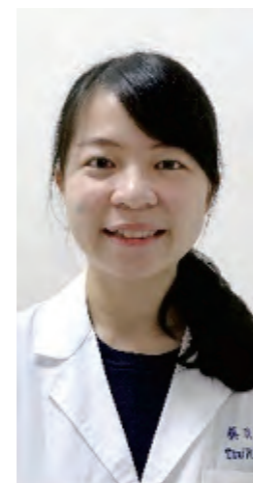


李孟哲 Meng-Zhe Li

- 第8屆校友
- 德韓口腔醫院(武漢誠嘉醫療控股集團)
- VIP台灣口腔諮詢醫師
- 台中市立大里高中
- Alumnus of Class 2009
- Dehan Dental Clinic (Wuhan Changer Healthcare Group)
- Taiwan VIP Consultant Dentist
- Taichung Municipal Dali Senior High School

畢業以來，一直從事著臨床工作，從診所到醫院，從基層助理到管理職務，從國內走到國際。我以大學四年的知識與技巧作為基礎，實習及多年就業的歷練，慢慢累積了溝通和管理能力。六年的職場生涯，不斷的學習新知與自我價值提升。幸運如我，因緣際會下，體驗了中國大陸口腔醫療的發展，開闢了有別於台灣的新視野。

Since my graduation, I have been working in the clinical setting, from clinic to hospital, from junior assistant to the management, from domestic to international environment. Based on the knowledge and skills I learned in the 4 years of college and from the internship and work experiences, I slowly but surely accumulate my communication and management capabilities. I never stop learning and elevating my self-worth in the 6 years of my career. I am fortunate to have the chance to experience the development of dental healthcare in China and have a new horizon different from that of Taiwan.



蔡法慈 Fa-Tzu Tsai

- 第9屆校友
- 美和科技大學口腔衛生學科助理教授
- 國立台南女中畢
- Ph.D. student at Institute of Oral Biology, National Yang Ming University
- Assistant Professor, Department of Oral Hygiene, Meiho University
- National Tainan Girl's Senior High School

目前擔任美和科技大學口腔衛生學科助理教授，專研長期照護需求者口腔衛生領域。研究重心聚焦於長期照護族群，致力於改善長輩及長期照護需求者的口腔健康環境。除了教學工作外，亦長期投入社區衛教推廣、高齡口腔照護與高齡口腔健康計畫，期盼將專業研究落實於基層照護，提升長者的口腔健康及生活品質。

I am currently serving as an Assistant Professor in the Department of Oral Hygiene at Meiho University. My academic focus is on oral hygiene for individuals with long-term care needs. My research centers on long-term care populations, with a commitment to improving the oral health environment of older adults and those requiring long-term care.

In addition to my teaching responsibilities, I have long been actively involved in community health education, geriatric oral care, and oral health programs for older adults. I strive to translate professional research into frontline care practices, with the goal of enhancing the oral health and overall quality of life of the elderly.



林宜靜 YI-CHING LIN

- 第9屆校友
- 高雄醫學大學牙醫學系博士
- 樹人醫護管理專科學校口腔衛生學科副教授兼科主任

- Alumna of Class 2010
- PhD, School of Dentistry, Kaohsiung Medical University
- Assistant Professor and Chair, Department of Oral Hygiene, Shu-Zen Junior College of Medicine and Management

在口腔衛生學系畢業後，我選擇攻讀碩士與牙醫學系博士學位。研究所期間，進行不同族群的口腔健康促進與照護研究，體會口腔衛生專業在提升健康與生活品質中的重要性，也更加認同其專業價值。此外，我曾參與尼泊爾國際口腔義診與衛教推廣，這段跨文化服務經驗讓我更確立投身教育的方向，期望透過教學培育更多口腔衛生專業人才，共同推動口腔健康促進與照護。

After graduating from the Department of Oral Hygiene, I pursued a master's degree and a Ph.D. in dentistry. During my studies, I researched oral health promotion and care across different populations, gaining a deeper understanding of its importance in improving health and quality of life. I also participated in oral health volunteer services in Nepal. This experience strengthened my commitment to education, and I hope to train more oral hygiene professionals and contribute to advancing oral health promotion and care.



黃子芸 Tzu-Yun Huang

- 第11屆校友
- 耕莘健康管理專科學校 口腔衛生與健康照護科講師
- 高雄市高雄女中畢

- Alumnus of Class 2012
- Lecturer at Department of Oral Hygiene and Health Care, Cardinal Tien Junior College of Healthcare and Management
- Kaohsiung Municipal Kaohsiung Girls' Senior High School

在進入教職之前，原以為老師就是備課、講課，替學生解惑在課堂上沒能了解的內容，其實基本授課以外，更多時間花在輔導學生管理生活與規劃職涯，和業界合作安排實習與產業探索、社區溝通尋求社會服務的機會。現在回頭看，只覺得好慶幸在服務學習、實習等實務課程中，進一步將課堂上的學理知識融入規劃、執行的每個任務，成為現在的實力底氣！

Before entering the teaching profession, I thought being a teacher mainly meant preparing lessons, lecturing, and helping students understand what they couldn't grasp in class. In reality, beyond teaching, much of the time is spent guiding students in managing their lives and planning their careers, collaborating with industry to arrange internships and career exploration, and engaging with communities to create service opportunities. Looking back, I feel grateful for the experiences in service learning and internships, where I was able to integrate theoretical knowledge into planning and executing real tasks—forming the foundation of my professional strength today.



郭靖怡 Ora Kuo

- 第16屆校友
- 美商登士柏股份有限公司台灣分公司 業務專員
- 台北市立內湖高級中學

- Alumna of class 2021
- Implants Sales Specialist, Dentsply Sirona Taiwan Branch
- Taipei Municipal Neihu Senior High School

畢業於口腔衛生學系後，我選擇從臨床第一線開始累積實力，擔任牙科臨床助理，深入參與日常診療流程與患者溝通，建立紮實的實務基礎。

隨著經驗累積，我進一步投入植牙領域，擔任植牙跟刀手（Clinical Specialist），專責手術支援與臨床應用協助。在手術現場的高壓環境中，我學會以更全面的視角理解醫師的決策邏輯與治療規劃，也更加熟悉植體系統的臨床應用與細節管理。

目前於 Dentsply Sirona 擔任 Implants Sales Specialist，將過去的臨床經驗轉化為產業價值。我的角色不僅是產品推廣，更是協助醫師在臨床決策中找到合適解決方案，建立長期合作關係，並以專業背景作為溝通橋樑。

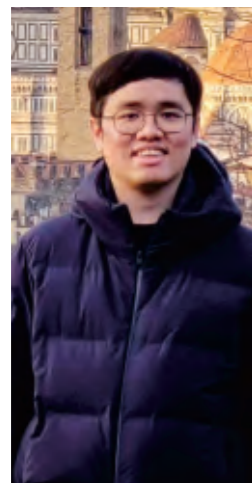
從第一線助理到手術支援，再到產業端業務專員，這段歷程讓我深刻體會臨床與產業之間的連結，也讓我更加確信：口腔衛生學所培養的專業能力，是我持續突破與成長的重要根基。

After graduating from the Department of Oral Hygiene, I began my career on the clinical front line as a dental assistant, building a solid foundation in daily treatment coordination and patient communication.

With growing experience, I advanced into the implant field as a Clinical Specialist, providing chairside surgical support and clinical application assistance during implant procedures. Working in high-pressure surgical settings strengthened my understanding of clinical decision-making, treatment planning, and implant system management.

Currently, I serve as an Implants Sales Specialist at Dentsply Sirona. In this role, I integrate my clinical background with strategic business development. Beyond product promotion, I act as a professional bridge between clinicians and solutions, supporting treatment planning discussions and fostering long-term partnerships.

Progressing from frontline assistant to surgical support specialist and now to industry sales professional has given me a comprehensive perspective of both clinical practice and dental industry development. My training in oral hygiene remains the cornerstone of this journey.



程柏翰 PO-HAN CHENG

- 第17屆校友
- 仁德醫護管理專科學校 口腔衛生學科講師

- Alumna of Class 2022
- Lecturer, Department of Oral Hygiene, Jen-Teh Junior College of Medicine, Nursing and Management

擔任專科學校講師的職責在於培育具備臨床實務技能的口腔衛生人員。在教學方面，負責臨床相關課程，並帶領學生進行技術操作練習。也積極與牙醫診所或相關產業進行產學合作，持續參與學術研究或專業精進，以確保教學內容能與最新臨床趨勢無縫接軌。在學期間學系擁有豐富理論與實務課程，加上紮實的實習規劃，使臨床技術與應用方面無須擔憂，也在就學期間奠定學術研究實務基礎。口腔衛生人員是一個新興職種，牙科產業正在蓬勃發展，對於不同個性的你/妳，都有屬於自己的職場位置並適性發展，歡迎加入口衛～

The role of a lecturer at a junior college is to cultivate oral health professionals who possess strong clinical practical skills. In teaching, the lecturer is responsible for clinical-related courses and guides students in hands-on technical training. They also actively collaborate with dental clinics and related industries through industry—academia partnerships, while continuously engaging in academic research and professional development to ensure that the teaching content stays aligned with the latest clinical trends.

During their studies, the department provides a rich combination of theoretical and practical courses, along with well-structured internship programs. This ensures that students can develop solid clinical techniques and practical applications without concern, while also building a strong foundation in academic research and practice throughout their education.

Oral health professionals represent an emerging profession, and the dental industry is rapidly growing. Regardless of your personality, there is a place for you in this field where you can develop according to your strengths. We warmly welcome you to join the field of oral health!

碩士班

Master Program

- ◆ 全國唯一專門培育牙科公共衛生與口腔健康照護與管理人才的研究所
- ◆ 採課程分流，依照您的職涯選擇，給您不同的課程安排
- ◆ The only graduate school in Taiwan that specializes in training public health dental professionals and oral healthcare and management talent.
- ◆ The program streaming design allows different course combinations to suit your career plan.

	學術型 Research-oriented	實務型 Practical-oriented
教育目標 Goal	培養牙科公共衛生人才 Training public health dental professionals	提升口腔健康照護與管理實務能力 Improving practical skills in oral healthcare and management
共同 必修科目 Required courses	<ul style="list-style-type: none"> • 研究方法特論 • 衛生教育與健康促進方案規劃 • 流行病學特論(I) • 進階生物統計學特論 • 進階生物統計學特論實習 • Special Topics on Research Methodology • Program Planning for Health Education and Promotion • Special Topics on Epidemiology I • Intermediate topics in Biostatistics • Practice in intermediate Biostatistics 	<ul style="list-style-type: none"> • 社區口腔健康發展學特論(含實習) • 研究倫理 • 專題討論 • 專題討論 (EMI) • Dentistry Special Topics in Community Dental Health Development (including practice) • Research Bioethics • Seminar • Seminar (EMI)
選修科目 Elective courses	<ul style="list-style-type: none"> • 牙科行為科學特論 • 口腔預防醫學特論(含見習) • 衛生教育介入理論與應用 • 衛生計畫偵測與評價 • 分子生物流行病學特論 • 流行病學特論(II) • 醫學資料庫整理分析特論 • 英文文獻導讀特論 • 基礎生物統計學特論(EMI) • 基礎生物統計學實習(EMI) • 現代實驗的步驟與概念 • 生醫材料性質分析 • Special Topics in Dental Behavioral Sciences • Special Topics in Primary Preventive Dentistry (including Practice) • Theory and Application of Oral Health Behavior and Health Education • Monitoring and Evaluation of Health Education and Communication Program • Advanced Molecular Epidemiology • Special Topic in Epidemiology II • Special Topics in Data Management of Medical Data-Base • Readings in English Literature • Fundamental Topics on Biostatistics (EMI) • Practice in Fundamental Biostatistics(EMI) • Modern Experiment Protocols and Concepts • Characterization of Biomaterials 	<ul style="list-style-type: none"> • 口腔預防醫學特論(含見習) • 跨領域整合性長期照護學特論 • 牙科醫療服務管理議題 • 牙科醫療機構財務管理(含基本會計) • 進階口腔衛生實習 • 醫療機構人力資源管理特論 • Special Topics in Primary Preventive Dentistry (including Practice) • Special Topics on Multidisciplinary Long-term Care • Issues of medical management in dental field • Financial management of dental institutions (including basic accounting) • Advanced Clinical Practice in Oral Hygiene • Special Topics on Human Resources Management for Health Care Organizations

碩士在職專班 In-service Master Program

課程特色除了牙科公共衛生與口腔預防醫學，另加入長期照護與口腔照護，咀嚼吞嚥障礙等跨領域課程，整合醫學、牙醫、護理、復健等科系，朝全人照護方向培育口腔衛生專業人才。110學年度開設兼顧牙科經營管理理論及實務面的牙科經理人相關課程。

牙科公共衛生和口腔預防醫學主要在培育具有口腔健康促進與政策的口腔公共衛生研究人才，長期照護與口腔照護課程則在培育與長期照護產業結合之臨床與社區口腔照護人才，牙科經理人相關課程在培育具有牙科診所的經營、管理及行銷專業人才。

On top of Public Health Dentistry and Preventive Oral Medicine, the Program also features interdisciplinary courses such as Long-term Care and Oral Care, Masticatory and Swallowing Disorders, etc. The Program integrates medicine, dentistry, nursing, rehabilitation, etc. and aims to train all-round oral health professionals for total care. In the 110th academic year, a dental management course that encompasses dental business management theory and practical aspects will be offered to cultivate dental managers.

Public Health Dentistry and Preventive Oral Medicine aim mainly at training public oral health research professionals in the field of oral health promotion and policy. Long-term Care and Oral Care courses train clinical and community oral healthcare professionals that work in collaboration with the long-term care industry. The dental management courses are designed to cultivate professionals with specialized skills in the operation, administration, and marketing of dental clinics.

特色 Features	牙科公共衛生 與口腔預防醫學 public dental health and preventative oral medicine	口腔預防醫學 Preventive Oral Medicine	牙科經理人 Dental Manager
課程 Courses	<ul style="list-style-type: none"> 公共衛生學特論(含口腔公共衛生學) 研究方法特論 流行病學特論 生物統計學特論 口腔預防醫學特論(含見習) 社區口腔健康發展學特論(含實習) 英文文獻導讀特論(左) Public Health (including Dentistry Public Health) Special Topics in Research Methodology Special Topic in Epidemiology Special Topics in Biostatistics Special Topics in Primary Preventive Dentistry (including Practice) Special Topics in Community Dental Health Development (including Practice) Readings in English Literature 	<ul style="list-style-type: none"> 特殊需求者口腔照護學特論 長期照護與口腔照護特論 咀嚼吞嚥障礙跨領域整合照護學特論 跨領域整合性長期照護學特論(中) Oral Health Care and People with Special Needs Long Term Care and Oral Health Care Special topics on multidisciplinary care of dysphagia Special topics on multidisciplinary long-term care 	<ul style="list-style-type: none"> 口腔衛生教育特論(含見習) 牙科醫療服務管理議題 牙科醫療服務行銷與策略管理 牙科醫療機構財務管理(含基本會計) Special Topics in Oral Health Education (including Practice) Issues of medical management in dental field Dental service marketing and strategy management Financial management of dental institutions (including basic accounting)

研究室 Lab

口腔健康促進及照護研究室 Oral Health Promotion and Care Lab

01 發展方向與特色 Research Direction and Characters

- ◆學幼童口腔健康促進
- ◆系統性疾病與口腔健康
- ◆口腔健康行銷與推廣
- ◆高齡者口腔照護
- ◆口腔健康政策研擬
- ◆AI應用研究
- ◆VR/AR應用研究
- ◆Oral health promotion for children
- ◆Systematic disease and oral health
- ◆Oral health care for elderly
- ◆Oral health promotion and communication
- ◆Development for oral health policy
- ◆AI research in oral healthcare
- ◆VR/AR research in oral healthcare



02 研究計畫 Research Project

- ◆ 高齡者及需求者口腔機能促進保健計畫(衛福部)
 - ◆ 學童口腔保健計畫 (教育部)
 - ◆ 銀髮族口腔衛生照護相關研究之推動計畫(國衛院)
 - ◆ 我國六歲以下兒童口腔健康調查工作計畫(衛福部)
 - ◆ LHAs介入策略模式對台灣外籍配偶學齡前兒童口腔健康影響成效之實驗性與追蹤型研究(科技部)
 - ◆ 應用Lay Health Advisor (LHA)策略模式於第二型糖尿病患者牙周照護介入之追蹤評價研究:需求評估、LHA培訓與成效(科技部)
 - ◆ 口腔衛生行為、細胞激素與口腔環境於牙周病治療成效之探討(科技部)
-
- ◆ Oral function promotion program for elderly and special care needs people (founded by Ministry of Health and Welfare)
 - ◆ Schoolchildren caries prevention program (founded by Ministry of Education)
 - ◆ Elderly oral health care program (Founded by National Health Research Institute)
 - ◆ Oral health survey for children under 6 (founded by Ministry of Health and Welfare)
 - ◆ An experimental and cohort study by training Lay Health Advisors (LHAs) intervention approaches on promoting oral health of pre-school children among women in transnational marriage in Taiwan(founded by Ministry of Science and Technology)
 - ◆ Follow-up evaluation study by the Lay Health Advisor (LHA) approach of periodontal care intervention for type II diabetes patients: assessment, LHA training, and effects (founded by Ministry of Science and Technology)
 - ◆ The association among oral health behaviors, salivary cytokines and oral environment in treatment effectiveness of periodontitis patients(founded by Ministry of Science and Technology)



Impact Objectives

- Investigate a means of improving oral health care in Type 2 diabetes patients
- Develop an approach to help change behaviours and improve teaching methods



國際
No.1

Oral health promotion

Professor Hsiao-Ling Huang heads a team investigating the positive impacts of providing periodontal care intervention for patients with Type 2 diabetes



Prof. Hsiao-Ling Huang

Can you begin by introducing yourself and telling us a little about your background?

I am a professor who has done research, teaching and service in the area of health promotion in academia and the wider community. After securing a PhD from the Department of Global Community Health and Behavioral Science, School of Public Health and Tropical Medicine, Tulane University in 2007, I taught at the Department of Oral Hygiene, Kaohsiung Medical University in Taiwan. My research background mainly focuses on interdisciplinary research in oral health and the disparities between native and new immigrant children in Taiwan. I am also well respected in the area of mother's psychosocial and behavioural determinants on pre-school children's oral health. I have directed my oral health research to the assessment, design, implementation and evaluation of community-based educational interventions employing lay health advisors - an interpersonal and socio-structural/ environmental approaches to health promotion behaviour modification.

What type of research is carried out at the Department of Oral Hygiene?

We are committed to research relating to oral health promotion. There are two laboratories: Special Needs People Oral Health Laboratory, and the Oral Health Promotion and Care Laboratory. We conduct research on life cycle oral health promotion and care, adult periodontal care, oral health policy, epidemiological study of oral mucosal lesions, oral health education intervention, tobacco and betel nut chewing research.

Can you tell us about the tools and methods you are using in your work?

Our team provide a periodontal care model for patients with diabetes. The diabetic patients in the experimental group will receive one-on-one oral health education by using the electronic teaching materials retrieved from the well-developed learning manual. Oral health education will be administered for 30 minutes, once a week for four weeks. The teaching contents include knowledge regarding the correlation between diabetes and periodontal disease, tooth-brushing technique, periodontal disease prevention and self-care. Patients will also receive a tooth-brushing kit including soft-tuft toothbrush, toothpaste, two packs of interdental brushes and fluoride mouth rinse.

What types of challenges have you been faced with in this research?

Our biggest challenge is to find patients who meet the inclusion criteria of our current study and are willing to participate in it. We overcame this by expanding the location of the case collection and increasing the incentives of participating.

How can your research overcome the current barriers to the uptake of appropriate periodontal care in diabetes patients?

Our research team received very positive feedback from diabetic patients in the experimental group. We will suggest that dental departments consider using similar teaching method in patients' oral hygiene instruction. However, we know that it is difficult to change the current clinical instructions of periodontal care in diabetic patients in just a few years. Still, it is a step in the right direction. ●



Toothbrushing techniques delivered by a Vietnamese lay health advisor

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Improving periodontal care in Type 2 diabetes patients

A team of researchers based at the Department of Oral Hygiene at Kaohsiung Medical University, Taiwan is investigating a means of improving oral health care in Type 2 diabetes patients. Their initial findings suggest an approach that helps change behaviours and could improve teaching methods in the future

Type 2 diabetes is a common condition that causes the level of glucose in the blood to become high. There are many complications associated with the condition, including heart disease, nerve damage, vision loss and kidney problems. There is also a clear relationship between diabetes and periodontal health. Patients with diabetes often have some oral complications, including periodontal diseases, mucosal infections, salivary gland dysfunction and neurological disorders.

Indeed, periodontal disease is the most common oral disease among diabetes patients, with many studies finding a relationship between the two. It is this which a team of researchers based at the Department of Oral Hygiene at Kaohsiung Medical University in Taiwan is trying to address. Professor Hsiao-Ling Huang leads the team and is acutely aware of the potential her studies have. 'People with diabetes are at greater risk for incident and prevalent chronic periodontitis and have more severe chronic periodontitis than individuals without diabetes,' explains Huang. 'Some clinical research has indicated that the appropriate medical treatment of periodontitis positively affects blood-sugar control in diabetes patients.'

THE BENEFITS OF LAY HEALTH ADVISORS

With that in mind, the team is conducting investigations in periodontal care intervention for Type 2 diabetes patients. It is the first intervention study to test the effect of a periodontal care plan using a strategy employing Lay Health Advisors (LHAs). LHAs can be broadly defined as lay personnel employed to serve as a link between professional health care staff and the community. Because LHAs are often members chosen from the community, they share similar values, ethnic background and socioeconomic status, and they often speak the same language as the people they serve.

Thus, Huang and her team are combining conventional periodontal therapy with one-on-one oral health education provided by LHAs. 'We used a randomised experimental design, where 100 participants were randomly assigned to the LHA intervention group or to a brochure-only control group,' says Huang. 'A LHA periodontal care intervention was used for the experimental group, in which the participants received the conventional periodontal therapy combined with 30 minutes of oral health education and instruction once a week for five weeks by a certified LHA.'

'Patients in the experimental group were shown to be more likely to change their behaviour in using modified bass technique after one month, and were more likely to replace their toothbrush and use a soft toothbrush after three months.' They also had a significantly higher improvement in periodontal pocket depth and clinical attachment level than the control group after one month.

NEXT STEPS

Although there is still more work to be done, Huang and her team hope that their findings will be able to provide reference material and periodontal care model for diabetes patients to the medical and healthcare agencies for policy making; reduce periodontal-related complications in Type 2 diabetes patients; and further improve their quality of life and reduce healthcare costs.

Population ageing is a problem for Taiwan, and oral diseases affect general health, so Huang hopes to also implement an oral health care programme for the elderly in 2019 to promote oral function of the elderly, reduce dry mouth and improve oral hygiene. Ultimately, the goal is to improve oral health-related quality of life of the elderly. ●

Project Insights

FUNDING

- Follow-up Evaluation Study by the Lay Health Advisor (LHA) Approach of Periodontal Care Intervention for Type II Diabetes Patients: Assessment, LHA Training, and Effects, Ministry of Science and Technology (MOST 104-2314-B-037-013-MY3), Taiwan
- An Experimental and Cohort Study by Training Lay Health Advisors (LHAs) Intervention Approaches on Promoting Oral Health of Pre-school Children among Women in Transnational Marriage in Taiwan, National Science Council (NSC 101-2314-B-037-039-MY3), Taiwan
- Evaluation of Lay Health Advisor (LHA) Community-level Intervention Model to Promote Utilization of Oral Health Care among Aborigines in Mountainous Community, Department of Health, Executive Yuan, R.O.C. (Taiwan)

TEAM MEMBERS/COLLABORATORS

- Professor Pei-Shan Ho, Associate professor, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan
- Dr Ying-Chun Lin, Postdoctoral researcher, Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan

CONTACT

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| 特殊需求者口腔健康研究室 | Oral Health of People with Special Needs Lab

01 發展方向與特色 Research Direction and Characters

- ◆ 特殊需求者口腔健康
- ◆ 特殊需求者口腔機能
- ◆ 跨領域咀嚼吞嚥障礙
- ◆ 口腔醫材開發
- ◆ 口腔癌患者口腔照護
- ◆ Oral health of people with special needs
- ◆ Oral functions of people with special needs
- ◆ Inter-professional collaborative of dysphagia
- ◆ Development of dental device
- ◆ Oral care of patients with oral cancer



02 研究計畫 Research Project

- ◆預防及延緩失能照護方案研發與人才培訓計畫(衛福部)
- ◆應用Cariogram模型於身心障礙者塗氟介入之追蹤評價研究：菌量變化追蹤、齲齒風險預測與齲齒預防成效(科技部)
- ◆在健康逆境中成功老化：精神障礙者之人口老化對口腔機能、營養與身體功能之影響與促進(科技部)
- ◆智能舌壓訓練器開發-台灣高齡族群常模舌壓指標建構與吞嚥障礙復健成效評估(科技部)
- ◆建置口腔衛生與咀嚼吞嚥實證模式：口腔癌術後口腔機能、營養及生理機能之復健成效(科技部)

- ◆Research development and talent training program of prevent and delay care (founded by Ministry of Health and Welfare)
- ◆Cariogram modeling of fluoride varnish intervention in people with disabilities: tracing of bacteria amount, risk of caries development, and effectiveness of caries prevention (founded by Ministry of Science and Technology)
- ◆Successful aging in health adversity : the impact of oral functions, nutrition and physical functions to population aging of people with mental disability (founded by Ministry of Science and Technology)
- ◆Development of intelligent tongue pressure trainer—establishing the model and indicator of tongue pressure and evaluation the effectiveness of dysphagia rehabilitation for the elderly people in Taiwan (founded by Ministry of Science and Technology)
- ◆Establishing evidence-based model of the oral hygiene, chewing and swallowing: the effects on promoting oral function, nutrition and physical function for oral cancer patients after the operation (founded by Ministry of Science and Technology)

