

Shuang-Ho Hospital joined Taipei Medical University Hospital and Wan Fang Hospital as the 3rd TMU affiliated hospital, and the Department of Family Medicine is headed by Dr. Yin-Chin Lin.

Goal of Education

Curriculum Design

Full comprehension of the theory and teaching of Family Medicine

Principles and application of Family Medicine

Geriatric care and Travel medicine in family Medicine

Understanding the multi-aspects of global medicine

Teaching outline

The essence of Family Medicine

Family Medicine and Gerontology

Actual content of health maintenance and community medicine

Specific knowledge involved in global medicine

Distinctive Feature of Education

To provide medical students with early exposure to comprehensive and continuing patient care so that they may successfully apply textbook knowledge to real life settings in patient-centered care. Since Family Medicine is a specialty that emphasizes holistic care using the biopsychosocial model of treatment, training will focus on preventive medicine and community-oriented primary care. We aim to cultivate primary care physicians who are indoctrinated in medical ethics and the pursuit of patients' well-being. In keeping with the Taiwan Medical Accreditation Council in its accreditation requirements and consulting the original recommendation by the Accreditation Council for Graduate Medical Education, we have organized training curriculum for clerkship/internship as well as post-graduate year and residency training in Family Medicine by incorporating teaching of the 6 core skills with feedback and assessment.

Faculty

In order to keep pace with the fast changing age of information, the Department of Family Medicine has strived to maintain quality of its faculty by recruiting top instructors in various academic specialties as well as encouraging current staff to further their education and improve their teaching ability. As of August, 2009 our faculty is comprised of 6 full-time instructors: 1 full time associate professor, 2 full time lecturers, and 3 associate lecturers.

Distinctive Feature of Research

The Department of Family Medicine has collaborated with Harvard University, University of British Columbia (Canada) in various research projects. We shall look forward to expanding such international cooperative efforts to other parts of the world.

Prospect

Since the year 2000 the Department of Family Medicine has joined various domestic and international institutions, among which were University of California, Los Angeles, University of Japan, Polytechnic University of Macau, Bangkok Hospital, and University of British Columbia, in hosting academic seminars and publication of research papers.

We shall continue to work in close concert with Asian Society of Travel medicine and Taiwan Association of Community Medicine in conducting studies on behavioral modification in changing endemic health hazards of local citizens (such as cigarette smoking, alcoholism, and betel nut chewing)

(Yin-Hua Hsieh, Director/Associate Professor)

復健學科

簡史及概況

本學科教學目標為使學生對基本復健醫學有所認識，進而運用於實習及往後醫生生涯中對病人的臨床照顧，或作為日後對研究復健醫學的基礎。本學科目前有專任副教授一名，助理教授三名，兼任教授一名，副教授一名，講師六名，以及一名秘書協助執行行政作業。在任之老師皆認真研究及教學，每年都有多篇

論文發表於國際期刊，並獲國科會及學校研究計畫之補助。

教學目標與教學特色

課程內容介紹復健醫學之基本概念，並分別就身體各系統疾病之復健進行教學，包括截肢，義肢，神經系統，骨骼肌肉系統，心臟血管系統，呼吸系統等各系統疾病之復健(如腦中風、脊髓損傷、腦性麻痺、骨折或骨科手術後、關節炎等疾病)。除此並專就輪椅及神經肌電學檢查作介紹。教學方式以投影片於課堂講授，除單向講授外，並作雙向及多向之發表討論，以啟發學生之思考及研究能力。並配合往後之臨床見實習，培養臨床診療能力。

研究特色

截至 2009 年 10 月

陳適卿副教授研究主要領域為功能性電刺激、復健科技輔具與痙攣治療研究，發表多篇論文於國際期刊，並應邀於國際醫學會演講。

謝如蘭助理教授探討腦中風(J Rehabil Med, 2007)、筋肌膜炎(Arch Phys Med Rehabil, 2008)、洗腎病患(Am J; J Nephrol 2007, 2009, Arch Phys Med Rehabil, 2007)，顏面神經(Am J Phys Med Rehabil, 2009)。

曾頌惠助理教授 Prevention of hepatic oxidative injury by Xiao-Chen-Chi-Tang in mice. (J Ethnopharmacol, 2007)及 Effects of three purgative decoctions on inflammatory

mediators. (Journal Ethnopharmacology, 2006) 彭志維助理教授研究下泌尿道神經控制機轉、神經電刺激調控對於膀胱功能(Am J physiol, 2008; J Neural Engineering, 2008)，以及神經義肢(J neuroscience methods, 2004)。

康峻宏講師發表蹠骨下足底壓力參數與主觀治療感受之相關性 (BMC Musculo disorder, 2006)

師資

姓名	職稱	最高學歷	研究領域	電子郵件地址
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謝如蘭	專任助理教授	台灣大學醫學士	發展遲緩兒童、洗腎、腦中風、疼痛病患等之功能、復健療效及生活品質之探討	ruan1052@tmu.edu.tw M001052@ms.skh.org.tw
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(陳適卿 主任/副教授)

History and Overview

Our teaching goal is to educate medical students the basic knowledge of Physical Medicine and Rehabilitation (PMR). The education will be a basis for clerkship or internship to involve clinical practice, doctor to handle clinical patients and conduct advanced research in the field of PMR. The Department of PMR consists of three full-time faculty (1 associate and 3 assistant professors), eight part-time faculty (1 professor, 1 associate professor, 6 lecturer), and one secretary. All faculty in PMR are involved in research and teaching work and have got lots of research grants from NSC or school support. There are many articles published in international journals in each year.

Goal and Distinctive Feature of Education

The content of courses includes to instruct medical students the basic concept of rehabilitation medicine, and the rehabilitation approaches of various physical disabilities (such as stroke, spinal cord injury, cerebral palsy, bone fracture, arthritis and ...so on). Besides, wheelchair and electroneuromuscular diagnosis are also included in this course. The way of lecture includes slide presentation in the class and bi-directional question discussion for inspiring medical students' thinking and investigation abilities. Besides, students are

expected to develop the ability of clinical diagnosis from the courses of clinical practice

Distinctive Feature of Research

We have following researches till Oct 2009:

Shih-Ching Chen, Dr. Chen's major research fields are Functional electrical stimulation, Rehabilitation assistive technology and management of spasticity.

Ru-Lan Hsieh, Function, rehabilitation effects and quality of life in patients with developmental delays, dialysis, stroke and pain(J Rehabil Med, 2007; Arch Phys Med Rehabil, 2007, 2008; J Nephrol 2007, 2009).

Tseng Sung-Hui, Prevention of hepatic oxidative injury by Xiao-Chen-Chi-Tang in mice. (J Ethnopharmacol、2007)及 Effects of three purgative decoctions on inflammatory mediators. (Journal of Ethnopharmacology2006).

Chih-Wei Peng, study on the neural control mechanisms of the lower urinary tract and the effects of electrical neural stimulation on bladder functions (Am J physiol、2008; J Neural Engineering、2008).

Kang Jiunn-Horn, Correlations between subjective treatment responses and plantar pressure parameters of metatarsal pad treatment in metatarsalgia patients: a prospective study (BMC Musculo disorder、2006).

Faculty

Name	Title	Education	Research fields
Shih-Ching Chen	Associate professor	PhD, Tohoku University, Graduate School of Medicine	Rehabilitation medicine, functional electrical stimulation
Ru-Lan Hsieh	Assistant Professor	National Taiwan University, College of Medicine	Function, rehabilitation effects and quality of life in patients with developmental delays, dialysis, stroke and pain

Tseng Sung-Hui	Assistant Professor	PhD, Taipei Medical University	Pediatric Rehabilitation, Pharmacognosy and Traditional Chinese medicine
Chih-Wei Pen	Assistant Professor	PhD, National Cheng Kung University	Functional electrical stimulation, neural prostheses, electrophysiology of lower urinary tract
Lien I-Nan	Professor	National Taiwan University, College of Medicine	Rehabilitation medicine
Lieu Fu-Kong	Associate professor	Ph.D, University of Florida	Muscle plasticity, musculoskeletal rehabilitation
Chiu Chun-Chieh	Lecturer	China Medical University, School of Medicine	Low back pain, sport injury
Kang Jiunn-Horn	Lecturer	MS, National Taiwan University	Sleep disturbance in patients with chronic pain
Chang Kwang-hwa	Lecturer	MS, National Yang-Ming University	Rehabilitation medicine, aged medicine, musculoskeletal ultrasound
Hsu Ya-wen	Lecturer	MS, National Yang-Ming University	Obesity, Endocrinology, pediatric Rehabilitation, neuro-rehabilitation, musculoskeletal rehabilitation
Chen Chao-Jur	Lecturer	National Yang-Ming University, School of Medicine	Rehabilitation Medicine
Lai Chien-Hon	Lecturer	Kaohsiung Medical University, School of Medicine	The effects of electrical stimulation or ultrasound on skeletal system

(Shih-Ching Chen , Director/Associate Professor)

急診學科

簡史及概況

本學科之成立是由當時擔任萬芳醫院之急診重症醫學部主任蔡行瀚教授於 2004 年 10 月提出，經醫學系系務會議討論並由專案小組審查後，於 2004 年 11 月 13 日奉校長核准成立，並由蔡行瀚教授擔任首任急診學科主任。其成立之原因是有鑑於急診醫學已成為現代醫學的重要科目，而醫學教育是臨床服務及研究發展的基礎，本校及三所教學醫院均以成為醫學中心為目標，醫學中心不僅需具備隨時處理各種緊急醫療的能力，而且應有隨時接受其他醫院轉診急重症病人之準備，以邁向國際一流大學醫院。

教學目標

本學科之教學目標為教育訓練醫學系學生成為具有處理任何緊急醫療狀況的人文素養及專業能力。本科提供前瞻性的教學，期望能培養低年級醫學生對於急診醫學初步的認知及興趣；並且由三附屬醫院優秀急診醫學科主任及主治醫師針對醫學系五、六、七年級見實習學生，安排急診見實習課程，藉由充分的雙向溝通學習及臨床案例討論，使急診醫學之學習紮實穩健，技術成熟精良並有研究發展之方向與能力，培育師資

急診學科專兼任教師

姓名	職稱	研究領域
蔡行瀚	教授	急診醫學、重症醫學、航空醫學、神經外科學、災難醫學、外傷醫學
張珩	教授	急診醫學、災難醫學、醫務管理
王宗倫	教授	急診醫學、災難醫學、重症醫學、心臟內科醫學、基礎醫學研究
林宏榮	助理教授	急診醫學、毒物學
周志中	講師	急診醫學、醫務管理
林樹基	講師	急診醫學、災難醫學
劉永弘	講師	急診醫學、骨科醫學
馬漢平	講師	急診醫學、災難醫學、老人重症、空中救護、傷害防治學
謝屈平	講師	急診醫學、傷害防治學
游文瑜	講師	急診醫學

研究特色

蔡行瀚教授歷年研究計畫執行成果(至民國 98 年 12 月止)

補助機構	執行期限 (民國)	補助經費	計劃名稱
行政院衛生署	91.10.01 92.09.30	3,141,200	全國空中緊急醫療救護諮詢中心試辦研究計畫第一年第一階段
行政院衛生署	92.10.01 92.12.31	12,464,000	全國空中緊急醫療救護諮詢中心試辦研究計畫第一年第二階段
行政院衛生署	92.07.01 92.12.31	520,000	澎湖縣救護直昇機醫療後送之案例分析與效益評估研究
行政院災防會	92.03.18 92.12.10	1,105,000	國家緊急應變隊動員運作模式之研究案

出更多急診醫學優秀人才。

教學特色

本科的教學訓練，涵蓋醫學生對於急診醫學基本知識的建立以及臨床上的應用。針對醫學生提供由淺入深的課程。醫一有「緊急醫療照護概論」，藉由核心課程講解，動態影片及實例解說，傳遞緊急醫療照護的概念。提昇學生對學習醫療和緊急醫療的興趣。醫三有「緊急醫療救護體系概論」藉由到院前緊急醫療照護體系的概念，認識到院前陸上、海上及空中救護與轉送等特性，並接續到院後的緊急醫療。醫五有「急救醫學」讓學生了解各科急症之症狀、診斷及處置方法及技術。醫六有「急診醫學科見習」是結合理論與實際的急診核心課程教學，以急診常見病例流程處置為基礎，佐以臨床教師床邊教學，由指導醫師作病例回顧檢討及指導，達到互動式回饋教學學習，和學生終身學習的目標。醫七有「急診醫學科實習」主要目的在於讓醫學生於醫學院所學之廣泛知識運用於臨床工作上，建立謹慎思考、嚴謹的醫療態度及責任感。

行政院衛生署	93.01.01 93.12.31	13,469,616	全國空中緊急醫療救護諮詢中心試辦研究計劃第二年第二階段
行政院衛生署	93.01.01 93.12.31	684,000	離島偏遠地區直昇機緊急醫療轉診工作之成效檢視與經濟效益評估
金門縣衛生局	93.07.01 93.09.31	95,000	金門縣空中緊急醫療轉送之成效評估
行政院衛生署	94.01.01 94.12.31	13,916,246	全國空中緊急醫療救護諮詢中心試辦研究計劃第三年
行政院衛生署	95.01.01 95.12.31	11,166,611	行政院衛生署空中轉診審核中心研究計畫
行政院衛生署	96.01.01 96.12.31	11,078,527	行政院衛生署空中轉診審核中心研究計畫
台北醫學大學	96.01.01 96.12.31	600,000	壓力引起鼠胃黏膜傷害的保護作用機轉及角色研究計畫
台北醫學大學	97.01.01 98.08.31	600,000	冷壓並限制行動處理的鼠胃黏膜損害：血紅素氧的角色之研究
行政院衛生署	97.01.01 97.12.31	10,900,000	行政院衛生署空中轉診審核中心研究計畫
行政院衛生署	98.01.01 98.12.31	10,500,000	行政院衛生署空中轉診審核中心研究計畫
合計		90,240,200	

教師論文發表成果

本學科成立多方位研究團隊，已有良好成績，可參閱教師近 3 年重要研究成果一欄表可知。
<http://www.tmu.edu.tw/default.asp>。

展望

急診學科成立五年內已教育訓練許多優質的畢業學生，並在三所附屬醫院建立完善急診醫學教育訓練核心課程及臨床服務工作準則，急診醫學共有專任主治醫師二十五位，並定期召開聯合學術討論會。目前每月平均服務量合計已達一萬五千人次，為國內最大急診業務醫療體系之一，獲得多項政府之研究計畫及經費，並有多篇研究論文發表於國內外醫學期刊，未來將秉持創立之理念，積極發展急診學科並成為國內及國際知名之學術重鎮。

(蔡行瀚 主任/教授)

Department of Emergency Medicine

History and Overview

The Department of Emergency Medicine was proposed by professor Shin-Han Tsai when he was the chief of Department of Emergency Medicine, Wan Fang Hospital in October 2004.

The department was formally established by the approval of president in November 2004, and professor Shin-Han Tsai has been severed as the first chief of Department of Emergency Medicine.

Emergency Medicine has becoming the most important part of modern medicine. Medical education is the basic training for its clinical and research development. Taipei Medical University and three affiliated teaching hospitals are moving forward to the goal of academic medical center, however, to achieve this goal require not only the capacity of managing emergent medical condition, but also ready for receiving critical patients transferred from other hospitals. Thus, we can pursue the best international university hospital.

Goal of Education

The goal of our education is to make students to have the ability to deal with any emergent medical condition. We provide prospective classes to young medical students, with respect to develop primary acknowledgement and passion for Emergency Medicine. For internship and clerkship, classes are arranged by three affiliated teaching hospitals' attending physicians, by using two-way communication and clinical case discussion in order to make the study completed.

Distinctive Feature of Education

The department offers courses of various levels of emergency knowledge and skill, concept of Emergency Medicine (M1), teaches general concepts of Emergency Medicine designed as special topic lectures, video demonstration and case scenario practice. The purpose of this

program is to activate the learning motivation on medicine, specific on emergency medicine. Concept of Emergency Medical Service System (M3), gives general concepts of pre-hospital Emergency Medicine Service System and help medical student realizing the key point of ground, ferry, and aeromedical transportation, as well as the post-hospital emergent care. Emergency medicine (M5), provides the knowledge of emergent management in various fields. These include cardiopulmonary resuscitation (CPR), pediatric emergency, endocrine emergency and the differential diagnosis of various symptoms. ACLS and initial trauma assessment are included. The aim of this subject is to help medical students understanding the clinical manifestation, diagnosis and treatment of emergency medicine. These courses are also included Clerkship (M6) and Internship (M7).

Faculty

Teacher	Position	Field
Shin-Han Tsai	Professor	Emergency medicine, critical care medicine, Aviation medicine, neurosurgery, disaster medicine, trauma medicine,
Hang Chang	Professor	Emergency medicine, disaster medicine, hospital management
Tzong-Luen Wang	Professor	Emergency medicine, disaster medicine, critical care medicine.
<u>Hung-Jung Lin</u>	Assistant Professor	Emergency medicine, <u>Toxicology</u>
<u>Chu-Chung Chou</u>	Lecture	Emergency medicine, disaster medicine
<u>Carlos Lam</u>	Lecture	Emergency medicine, disaster medicine
Khoot-Peng Cheah	Lecture	Emergency medicine, injury prevention and control
Hon-Ping Ma	Lecture	Emergency medicine, disaster medicine, geriatric emergency medicine
Wen-Yu Yu	Lecture	Emergency medicine

Distinction Feature of Research

We recruited many researchers for the purpose of deliver outstanding researches. We organize many research teams. These research teams published many excellent papers shown on

<http://www.tmu.edu.tw/default.asp>

Prospect

Department of Emergency Medicine has educated many excellent students for the past 5

years, and has built complete core courses of emergency medical education and standard of clinical service. The total amount of patient in emergent medical service is up to 15,000 per month at present, and has become the biggest emergency medical service system in our nation. We also founded by many governmental and published papers in either national or international projects journals. We will continue our faith to in the Emergency Medicine and to develop it into the best institution for teaching and research.

(Shin-Han Tsai, Director/Professor)

一般醫學學科

簡史及概況

嚴重急性呼吸道症候群無預警地侵襲台灣，造成了醫療界的重大衝擊。目前，雖然 SARS 疫情暫獲控制，但仍有種種跡象顯示，未來仍有機會再面臨 SARS 等新興疾病的挑戰。值此各界開始進行所謂後 SARS 重建檢討工作之際，臨床醫療訓練體系的再造，更是改革基礎工程之一，惟有全面強化以全人為基礎的一般醫學嚴謹訓練，才能讓住院醫師們能以全人的觀點，敏感且具整體邏輯分析能力，提供優質的醫療服務。

師資

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劉玉華	講師	消化內科/一般醫學	

研究特色

一般醫學學科已陸續延攬各領域的研究師資，成立多方位研究團隊，已有良好成績，可參閱學科教師近 3 年重要研究成果一欄表可知。

<http://www.tmu.edu.tw/default.asp>。

展望

逐步規劃符合全人照護之基本性、一般性、整合性醫學訓練。讓我們每位成員都能朝宗旨「以病人為中心的醫療」、「跨領域的醫療團隊工作」、「基於實證醫學的專業執行」、「醫療品質促進」、「資訊技術利用」邁進，使之具備 ACGME 要求的六核心能力，提昇醫療品質。

(林時宜 主任/教授)

因此，為因應新世紀疾病型態改變的挑戰，美國、英國、日本等先進國家的醫學生在畢業後臨床教育均採一至二年的「一般醫學訓練」，讓畢業生獲得獨立行醫的能力；於疫情告急時，衛生署緊急規劃人力調度計畫，除藉由資深醫護人員支援抗煞醫療照護工作外，也計畫同時訓練剛出校門的住院醫師，能學習相關的醫療照護技能、協助資深醫師照顧病人，儲備對抗 SARS 的照顧人力。

教學目標

醫學教育一直以來為了因應醫療演進及病人需求而持續不斷的改革，「畢業後一般醫學訓練」計畫即是建立在以病人為中心的醫療精神下所推出的訓練計畫，讓每一受訓學員都能培養 ACGME 的六大核心能力，達成病患為中心的全人照護醫療體系

教學特色

我國的醫學系學生，接受傳統臨床醫師養成教育，基本醫療訓練並不足夠，而畢業後的臨床教育採取直接實施專科醫師訓練及細專科醫師訓練的方式，並無「一般醫學訓練」的設計，導致國內年輕醫師的學習偏重於以高科技醫療為主的專科醫療，普遍缺乏一般性醫療技能，因此，雖通過國家檢覈，取得醫師證書，但獨立行醫的態度和能力仍是不足，這樣的偏差，在 SARS 的衝擊下更是明顯，此一現象亟待改善。本科也因應此計畫成立，統籌計畫的進行及推廣，並做溝通與協調。

醫學檢驗暨生物技術學系

簡史及概況

學系前身 (1965 ~ 1975 年) 一九六五年秋天，本學院奉准設立附設醫事技術專修科招收五專生，當時檢驗技術人員十分缺乏，素質不一；為培養優秀的醫檢生技人才，創立初期，即購買第一代生化自動分析儀，但是其它設備與空間闕如，憶及當初上血液學實驗課，血球計算盤和吸管皆是自費購買。臨床科目的師資更端賴當年科主任陳定堯教授排除萬難，始能禮聘台大醫學院、國防醫學院、中興醫院等單位之學者與專家前來授課，這些人對北醫醫檢生技初期教學的貢獻，十分感謝。至一九七〇年第一屆校友潘芳蘭與徐莉莉兩位擔任助教工作，實驗教學才日漸踏實。此時校