



Asia-Pacific Musculoskeletal Infection Society



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June 2nd 2024

SUMMER MEETING 2024

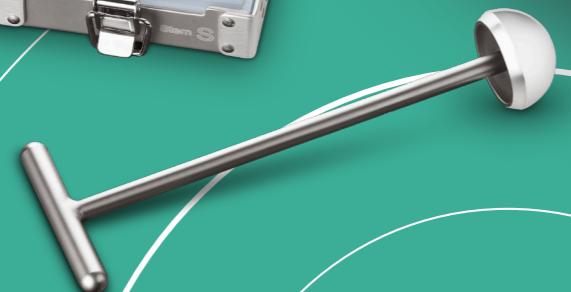
Fullon Hotel Taoyuan Airport MRT A8, 3rd Floor



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APMIS
Asia-Pacific Musculoskeletal Infection Society
SUMMER MEETING
June 2nd 2024

June 2 nd - FULLON HOTEL TAOYUAN AIRPORT MRT A8			
Time	Topic	Speaker	Moderator
08:30	Administration		
08:50~08:55	Opening	Prof. Steve WN Ueng 翁文能 President of APMSIS	
08:55~09:00	Introduction of Course	Yuhan Chang, MD, PhD 張毓翰 Secretary General of APMSIS	
Section I. Optimizing antibiotic therapy in PJI			
09:00~09:15	Gold standard of antibiotic therapy, does it exist?	Po-Yu Lui , MD, PhD 劉伯瑜	Chien-Hsien Huang, MD 黃建賢
09:15~09:30	Antibiotic therapy: parenteral or oral, or both?	Mingjui Tsai, MD 蔡明叡	Hung-Jen Tang, MD 湯宏仁
09:30~09:45	Antibiotic therapy: a matter of time.	Chung Ting Liu, MD, PhD 柳宗廷	Ting-Kuo Chang, MD, PhD 張定國
09:45~10:00	Local antibiotic: does it really work?	David, Ta-Wei Tai, MD, PhD 戴大為	
10:00~10:15	Discussion	Wang-Huei Sheng, MD, PhD 盛望徽 Ting-Kuo Chang , MD, PhD 張定國	
10:15~10:30	Coffee Break		

June 2 nd - FULLON HOTEL TAOYUAN AIRPORT MRT A8			
Time	Topic	Speaker	Moderator
Section II. Treatment strategies for Knee PJI			
10:30~10:45	How to do a DAIR and outcomes ?	Yu-Chih Lin, MD 林郁智	Chih-Chien Hu, MD 胡志堅
10:45~11:00	How to do a 1-stage exchange and outcomes?	Peter, Sheng-Hsun Lee, MD, PhD 李勝勛	
11:00~11:15	How to do a 1.5-stage exchange and outcomes?	Tsung-Li Lin, MD, PhD 林宗立	Yuhan Chang, MD, PhD 張毓翰
11:15~11:30	How to do a 2-stage exchange and outcomes?	Prof. Nilo Paner (Philippines)	
11:30~11:45	Discussion	Chih-Chien Hu, MD 胡志堅 Yuhan Chang, MD, PhD 張毓翰	
11:45~11:50	Close Remark	Prof. Steve WN Ueng 翁文能	



Steve Wen-Neng Ueng, MD 翁文能 醫師

- Taipei Medical College, MD (1970~1997)
- Chang Gung Memorial Hospital, Surgical Resident (1979.05 – 1981.06)
- Chang Gung Memorial Hospital, Orthopedics Resident (1981.07 – 1983.06)
- Chang Gung Memorial Hospital, Orthopedics Chief Resident (1983.07 – 1984.06)
- B.G. Trauma Clinic in Frankfurt, Germany (Osteomyelitis), Fellowship (1987.03 – 04)
- Philipps-University of Marburg, Germany (Traumatology), Fellowship (1987.05)
- Emory University, Atlanta, GA, U.S.A. (Musculoskeletal sepsis), Fellowship (1990.07 – 12)
- Chang Gung Memorial Hospital, Orthopedics, Attending Staff (1984.07 – Now)
- Chang Gung Memorial Hospital, Chief of Department of Orthopedic Surgery (1994.07 – 10/1997)
- Chang Gung Memorial Hospital-Keelung, Vice-Superintendent (1997.08 – 1999.05)
- Chang Gung Memorial Hospital-Keelung, Superintendent (1999.05 – 2003.10)
- Chang Gung University, Professor of Orthopedic Surgery (1999.08 – Now)
- Chang Gung Memorial Hospital-Linkou, Executive Vice Superintendent (2003.02 – 2012.01)
- Chang Gung Memorial Hospital-Linkou, Superintendent (2012.03 – 2016.06)

Now

- Chang Gung Memorial Hospital-Linkou Emeritus Superintendent (2016.07 – Now)
- Chang Gung Memorial Hospital Board of Directors (2016.11 – Now)
- Chang Gung University Professor of Orthopedic Surgery (1999.08 – Now)
- Chang Gung University Board of Directors (1998.10 – Now)

Experience

- Taiwan Hospital Association President (2017.08 – 2023.09)
- Association of Hyperbaric and Undersea Medicine, ROC President (2012.06 – 2014.06)
- Chang Gung Memorial Hospital Superintendent (2012.02 – 2016.06)
- Chang Gung Steering Committee Vice-Chairman (2015.01 – 2016.06)
- Taiwan Medical Center Association President (2012.06 – 2016.06)
- Taiwan Orthopaedic Association President (2014.10 – 2016.11)



Yuhan Chang, MD, PhD 張毓翰 醫師

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Current Position

- Director of Clinical Trial Center, Chang Gung Memorial Hospital, Linkou, Taiwan
- Chairman of Bio-Bank, Chang Gung Memorial Hospital, Linkou, Taiwan
- Vice Chairman of Institute Review Broad, Chang Gung Medical Foundation
- Professor of Division of Joint Reconstruction, Department of Orthopaedic Surgery, Chang Gung Memorial Hospital, Linkou, Taiwan

Research Field

- Bone and joint Infection
- Stem Cell-Based Therapy
- Hip/Knee Arthroplasty

Specialties

- Hip/Knee Arthroplasty
- Revision Hip/Knee Arthroplasty
- Stem Cell-Based Therapy

Periprosthetic Joint infection Related Publication

1. Chen YH, Lin YC, Chang CH, Lee SH, Chang YH. a, Risk factors for treatment failure in patients who have knee periprosthetic joint

- infection treated with two-stage exchange arthroplasty as well as their fate. *J Arthroplasty* 2023 Feb;38(2):355-360. (Corresponding author)
- 2. ui-Ping Chen, Chih-Hsiang Chang, Yu-Chih Lin, Sheng-Hsun Lee, Hsin-Nung Shih, Chang YH*. Two-stage exchange Arthroplasty for knee Periprosthetic joint infection exhibit high infection recurrence rate in patients with chronic viral hepatitis. *BMC Musculoskelet Disord.* 2021 Jun 12;22(1):538. (SCI, IF: 2.362, Orthopedics , Rank: 41/82) (Corresponding author)
- 3. Chang YH, Mel S. Lee, Jiann-Jong Liau, Yu-Liang Liu, Wen-Chuan Chen and Steve W. N. Ueng*. Polyethylene-Based Knee Spacer for Infection Control: Design Concept and Pre-Clinical In Vitro Validations. *Polymers (Basel)*. 2020 Oct 13;12(10):2334. (SCI, IF : 4.329, POLYMER SCIENCE, Rank : 18/88) (First author)
- 4. Chen MJ, Hung JF, Chang CH, Lee SH, Shih HN, Chang YH*. Periprosthetic knee infection reconstruction with a hinged prosthesis: Implant survival and risk factors for treatment failure. *Knee.* 2020 Jun; 27(3):1035-1042. (SCI, IF: 2.199, Orthopedics, Rank: 48/82) (Corresponding author)
- 5. Chen MF, Chang CH, Hu CC, Wu YY, Chang YH*, and S. W. N. Ueng * †. Periprosthetic Joint Infection Caused by Gram-Positive Versus Gram-Negative Bacteria: Lipopolysaccharide, but not Lipoteichoic Acid, Exerts Adverse Osteoclast-Mediated Effects on the Bone. *J Clin Med.* 2019 Sep; 8(9): 1289. (SCI, IF: 4.241,



Yuhan Chang, MD, PhD

Medicine, General & Internal, Rank: 39/169
(Corresponding author)

6. Tsai Y, Chang CH, Lin YC, Lee SH, Hsieh PH, Chang YH*. Different microbiological profiles between hip and knee prosthetic joint infections. *J Orthop Surg (Hong Kong)*. 2019 May-Aug; 27(2):2309499019847768. (SCI, IF: 1.118, Orthopedics, Rank: 70/82) (Corresponding author)
7. Chen MF, Chang CH, Chuan CN, Hsieh PH, Shih HN, S. W. N. Ueng and Chang YH*. Rapid analysis of bacterial composition in prosthetic joint infection by 16S rRNA metagenomic sequencing. *Bone Joint Res.* 2019 Aug; 8(8): 367–377. (SCI, IF: 5.853, Orthopedics, Rank: 4/82) (Corresponding author)
8. MF Chen, CH Chang, LY Yang, PH Hsieh, HN Shih, S. W. N. Ueng, and Chang YH*. Synovial fluid interleukin-16, interleukin-18, and CRELD2 as novel biomarkers of prosthetic joint infections. *Bone Joint Res.* 2019 Apr; 8(4): 179–188. (SCI, IF: 5.853, Orthopedics, Rank: 4/82) (Corresponding author)
9. Hsu YH, Hu CC, Ueng SW, Shih HN, Hsieh PH, Chang YH*. Vancomycin and ceftazidime in bone cement as a potentially effective treatment for knee periprosthetic joint infection. *J Bone Joint Surg Am.* 2017 Feb; 99(3): 223-231. (SCI, IF: 5.284, Orthopedics, Rank: 5/82) (Corresponding author)
10. Chang YH*, Tai CL. Hsieh PH, Ueng SW. Liquid antibiotic in bone cement: An effective way to increase the antibiotic release efficacy of antibiotic loaded bone cement. *Bone Joint Res.* 2014 Aug; 3(8): 246-51. (SCI, IF: 5.853, Orthopedics, Rank: 4/82) (First and Corresponding author)
11. Chang YH*, Tai CL. Hsieh PH, Ueng SW. Gentamicin in bone cement: A potentially more effective prophylactic measure of infection in joint arthroplasty. *Bone Joint Res.* 2013 Oct; 2(10): 220-6. (SCI, IF: 5.853, Orthopedics, Rank: 4/82)

(First and Corresponding author)

12. Ueng SW, Lee CY, Hu CC, Hsieh PH, Chang YH*. What Is the Success of Treatment of Hip and Knee Candidal Periprosthetic Joint Infection? *Clin Orthop Relat Res.* 2013 Sep; 471(9): 3002-9. (SCI, IF: 4.176, Orthopedics, Rank: 14/82) (Corresponding author)
13. Ueng SW, Hsieh PH, Shih HN, Chan YS, Lee MS, Chang YH*. Antibacterial activities of joint fluid in cemented total knee arthroplasty: an in vivo comparative study of polymethylmethacrylate with and without antibiotic loading. *Antimicrob Agents Chemother.* 2012 Nov; 56(11): 5541. (SCI, IF: 5.191, Microbiology, Rank: 56/257) (Corresponding author)
14. Chang YH*, Chen WC, Hsieh PH, Chen DW, Lee MS, Shih HN, Ueng SW. The In Vitro Activities of Daptomycin-, Vancomycin-, and Teicoplanin-loaded Polymethylmethacrylate against Methicillin-susceptible, Methicillin-Resistant and Vancomycin-Intermediate Strains of *Staphylococcus aureus*. *Antimicrob Agents Chemother.* 2011 Dec; 55(12): 5480-4. (SCI, IF: 5.191, Microbiology, Rank: 56/257) (First and Corresponding author)
15. Chang YH, Shih HN, Chen DW, Lee MS, Ueng SW, Hsieh PH*. The concentration in fresh frozen bone graft. *J Bone Joint Surg Br.* 2010 Oct; 92(10): 1471-4. (First author)



MODERATOR

Chien-Hsien Huang, MD
黃建賢 醫師

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Education

1986 - 1993 M.D. College of Medicine, Kaohsiung Medical University

Postgraduate training

1992 - 1993 Rotating Intern, Kaohsiung Medical University

1995 - 1998 Resident in Department of Internal Medicine, Shin Kong Wu Ho-Su Memorial Hospital

1998 - 2000 Chief Resident in Section of Infectious Diseases, Department of Internal Medicine, Taipei Veterans General Hospital Research Fellowship:

2000 - 2001 Section of Infectious Diseases, Department of Internal Medicine, Shin Kong Wu Ho-Su Memorial Hospital Attending Physician:

2001- present Section of Infectious Diseases, Department of Internal Medicine, Shin Kong Wu Ho-Su Memorial Hospital

Medical Credentials

- 1993 Medical Licensure
- 1998 Specialty, Internal Medicine
- 2000 Specialty, Infectious Diseases

Academic Appointments

- 2005 Lecturer of Medicine
(94 年 9 月講字第 083719 號)

Membership

- Taiwan Society of Internal Medicine
- Society of Immunology, Microbiology, and Infectious Diseases, Taiwan
- Taiwan Society of Hospital Infection control
- Taiwan Society of Tuberculosis
- Taiwan AIDS Society

Publications

1. Yu-Lin Zhao, Han-Pang Huang, Tse-Lun Chen, Pen-Chi Chiang, Yi-Hung Chen, Jiann-Horng Yeh, Chien-Hsien Huang, Ji-Fan Lin, and Wei-Ting Weng. A Smart Sterilization Robot System with Chlorine Dioxide for Spray Disinfection. July 2021 IEEE Sensors Journal PP(99):1-11
2. Viet Minh Trinh, Min-Hao Yuan, Yi-Hung Chen, Chen-Yang Wu, Shao-Chi Kang, Pen-Chi Chiang, Ta-Chih Hsiao, Han-Pang Huang, Yu-Lin Zhao, Ji-Fan Lin, Chien-Hsien Huang, Jiann-



Chien-Hsien Huang, MD

SECTION 1

SECTION 1

Horng Yeh, Der-Ming Lee. Chlorine dioxide gas generation using rotating packed bed for air disinfection in a hospital. *Journal of Cleaner Production* Volume 320, 20 October 2021, 128885

3. Rapid establishment of a COVID-19 biobank in NHRI by National Biobank Consortium of Taiwan. Shiu-Feng Huang, Yhu-Chering Huang, Feng-Yee Chang, Jung-Chung Lin, Chun-Hsiang Chiu, Chien-Wen Chen, Fu-Der Wang, Yen-Ling Chiu, Shu-Hsing Cheng, Chien-Yu Chengh, Yi-Chun Lin, Cheng-Pin Chen, Chien-Hsien Huang, Po-Yu Liu, Yuan-TiLee, Chen-Hsiang Lee, Yao-Shen Chen, Cheng-Len Syn... Huey-Kang Sytwur. *Biomedical Journal*. Volume 43, Issue 4, August 2020, Pages 314-317

4. Yu-Chiao Hung, Tsrang-Neng Jang, Chien-Shien Huang, Tai-Chin Hsieh, Shu-Hua Lee. Investigating outbreak of Klebsiella pneumoniae infection in a Neonatal Intensive Care Unit. *Formosan J Med* 2018;28:149-163

5. Chien-Hsien Huang, Tsrang-Neng Jang, Jie-Zhen Huang. Dengue Fever Epidemic Situation Processing, Preventing and Controlling. *Formosan J Med* 2017;21:621-625

6. Tai-Chin Hsieh, Chien-Hsien Huang, Tsrang-Neng Jang. Clinical presentation of unusual soft tissue infection. *International Journal of Antimicrobial Agents* 50 S2 (2017) S69-S278.

7. Chien-Hsien Huang, Wu-Ching Uen, Tsrang-Neng Jang. Middle East Respiratory Syndrome and Infection control. *Formosa J Med* 2016 Vol. 20 No 4, Pages406-10.

8. The reduction of medical adhesives related skin injuries in critical I patients. Shu-Pen Hsu, Chien-Hsien Huang, Bao-Ching Lai, *Formosan J Med* 2016 Vol.20 No.5

9. Yu-Hung Lin, Tsrang-Neng Jang, Jiann-Loung Hwang, Lee-Wen Huang, Kok-Min Seow, Bih-Chwen Hsieh, Chien-Hsien Huang. Bacterial colonization with balloon uterine stent placement in the uterus for 30 days: a randomized controlled clinical trial. *.Fertil Steril.* Volume 103, Issue 2, February 2015, Pages 513-518.e2.

10. Lao WF, Chien-Hsien Huang, Lin CH, Lu MJ, Hung CR. Endovascular stent graft repair for a *Salmonella*-infected aneurysm of thoracic aorta. *Ann Vasc Surg.* 2012 Jul;26(5):731,e5-8.

11. Chien-Hsien Huang, CC Lin, SH Lee, YJ Hsieh, KY Ho, CY Chung, TY Lee, WY Chen, TN Jan. Reducing the Central Line-associated Bloogstream Infection by Bundle Intervention. *Formosan J Med* 2012;16:4:410-5.

12. Ru-Lan Hsieh, Chien-Hsien Huang, Wu-Ching Uen,; Necrotizing Fasciitis After Acupuncture in a Patient with Aplastic Anemia. *journal of Alternative and Complementary Medicine* 2011, 17, 9, 871-4

13. Chien-Hsien Huang, Chia-Lin Lee, Aming Chor-Ming Lin, Wei-Yu Chen Pi-Chu Teng, Shu-Hua Lee, Yi-Jan Hsieh, Tsrang-Neng Jang. Different strains of *Acinetobacter baumannii* spreading in an intensive care unit. *Journal of Acute Medicine* 2011;1, 1-5

14. 鄧碧珠 , 張藏能 , 黃建賢 , 李淑華 , 李姿瑩 , 陳威宇 鮑氏不動桿菌台灣醫學 *Formosan J Med* 2011;15:407-12.

15. 鄧碧珠 , 張藏能 , 李淑華 , 李嘉凌 , 黃建賢 , 李姿瑩 , 謝怡然 . 某醫學中心內科加護病房多重抗藥性鮑氏不動桿菌群突發之調查處理 . *感控雜誌* 2011;21:12-24.

16. 謝怡然 , 李姿瑩 , 黃盈甄 , 李淑華 , 鄧碧珠 , 陳威宇 , 黃建賢 , 張藏能 . 北部某醫學中心 144 例 H1N1 新型流感病例分析 . *感控雜誌* 2011;21:25-37

17. Wei-Yu Chen, Tsrang-Neng Jang, Chien-Hsien Huang, Po-Ren Hsueh; In vitro susceptibilities of aerobic and facultative anaerobic Gram-negative bacilli isolated from patients with intra-abdominal infections at a medical center in Taiwan: results of the Study for Monitoring Antimicrobial Resistance Trends (SMART) 2002-200. *J Microbiol Immunol Infect.* 2009;42:317-323.

18. Jang TN, Lee SH, Chien-Hsien Huang, Lee CL, Chen WY Risk factors and impact of nosocomial *Acinetobacter baumannii* bloodstream infections in the adult intensive care unit: a case-control study *Journal of Hospital Infection* 2009;73,143-150

19. Aming Chor-Ming Lin , Diana Yuwung Yeh, Yi-Hsin Hsu, Chin-Chu Wu, Hang Chang, Tsrang-Neng Jang, Chien-Hsien Huang; Diagnosis of pyogenic liver abscess by abdominal ultrasonography in the emergency department, *Emerg. Med. J.* 2009;26:273-275.

20. Lin AC, Juang GD, Chien-Hsien Huang, Tso CY. An unusual cause of iatrogenic bladder rupture. *Am J Emerg Med.* 2006 Jul; 24(4):512-4.

21. Hung WC, Lin HC, Chien-Hsien Huang, Yang SY, Jeng CH. *Vibrio Vulnificus* Necrotizing Fasciitis of the Lower Limb: A Case Report and Literatures Review. *J Plastic Surg Ass R.O.C.* 2005; 14: 363-71.

22. Chien-Hsien Huang, Tsrang-Neng Jang. Cutaneous Abscess and Pneumonia due to *Nocardia asteroides* in a Healthy Man. *J Taiwan Emerg Med* 2005; 7: 2: 110-115.

23. Lin-Hui Wu, Wei-Huang Chen, Li-Ming Lien, Chien Hsien Huang, Hou-Chang Chiu. AIDS with Acute Cerebral Infarct: A case Report. *Acta Neurologica Taiwanica* 2005; 14:2; 74-78.

24. Hsu HT, Chien-Hsien Huang, Huang KM, Jang TN. Thoracic Actinomycosis mimicking Pulmonary Tuberculosis: A Case Report. *J Taiwan Emerg Med* 2005; 7:2; 138-43.

25. Pi-Chu Teng, Tsrang-Neng Jang, Chien-Hsien Huang, Shu-Hui Shen, Shu-Hua Lee, Ching-I Chiu. Association between Primary Bloodstream Infection and Central Venous Catheter in Intensive Care Units at a Medical Center in Taiwan. *Noso INF Control J* 2005; 15:273-285.

26. Jang TN, Yeh DY, Shen SH, Chien-Hsien Huang, Jiang JS, Kao SJ. Severe acute respiratory syndrome in Taiwan: analysis of epidemiological characteristics in 29 cases. *J Infect* 2004; 48:23-31.

27. Chien-Hsien Huang, Tsrang-Neng Jang, Jiunn-Song Jiang, Aming Chor-Ming Lin Successfully Treat Aspergillosis in a Patient with SARS Who Was Treated with Corticosteroids. *BMJ.com*, 9 Jan 2004. Rapid responses published. <http://bmj.bmjjournals.com/cgi/eletters/327/7428/1405>

28. Tzong-Luen Wang, Tsrang-Neng Jang, Chien-Hsien Huang, Shang-Jyh Kao, Chor-Ming Lin, Fang-Niarn Lee, Cheng-Yao Liu, Chee-Fah Chong, Chu-Mei Lin, Harnod Dorji, Hsueh-Ju Teng, Hang Chang, Establishing a clinical decision rule of severe acute respiratory syndrome at the emergency department. *Annals of Emergency Medicine* 2004; 43:1: 17-22

29. Aming Chor-Ming Lin, Jyh-Gang Leu, Chien-Hsien Huang, Edible grasshoppers with agricultural pesticide contamination. *BMJ.com*, 8 January 2004 <http://bmj.bmjjournals.com/cgi/eletters/328/7430/42#45503>

30. Jiang JS, Jang TN, Chien-Hsien Huang, Kao SJ. Prone Position Ventilation in a Spontaneous Breathing Patient with Severe Acute Respiratory Syndrome: A Case Report. *J Emerg Crit Care Med* 2003; 14: 169-73.

31. Teng PC, Jang TN, Chien-Hsien Huang, Shen SH, Lee SH. Analysis of nosocomial bloodstream infections in intensive care units at a medical center in Taiwan. *Noso INF Control J* 2002; 12:325-336.

32. Chien-Hsien Huang, Jang TN. Botulism in Bioterrorism. *Ann Disaster Med* Vol 1 Suppl 2002; 1:17-25.

33. Huang LY, Jang TN, Wang CH, Shen SH, Chien-Hsien Huang, et al: An Evaluation of Vancomycin Usage at Medical center. *Noso Inf Control J* 2002; 12:144-51

34. Chien-Hsien Huang,Jang TN, et al.



Chien-Hsien Huang, MD

SECTION 1

Characteristics of patients with *Burkholderia cepacia* bacteremia. *J Microbiol Immunol Infect* 2001; 34:215-219

35. Shen SH, Jang TN, Chien-Hsien Huang, Lee SH. Nosocomial fungemia in a medical center in northern Taiwan. *Noso Inf Control J* 2001; 11:355-64
36. Jang TN, Fung C P, Yang T L, Shen SH, Chien-Hsien Huang, et al: Use of Pulsed-Field Gel Electrophoresis to Investigate an Outbreak of *Serratia marcescens* in a Neonatal Intensive Care Unit. *J Hosp INF* 2001; 48:13-9.
37. Lee SH, Jang TN, Shen SH, Chien-Hsien Huang, Chang YH A five-year study of nosocomial infection at a regional hospital. *Noso Inf Control J* 2001; 11:159-168
38. Lee YH, Lue CY, Chien-Hsien Huang, Jang TN. Systemic Lupus Erythematosus Complicated with *Salmonella* Bacteremia. *Chin J FAM Med* 2000; 10:96-101.
39. Jang TN, Kuo BIT, Shen SH, Fung CP, Lee SH, Yang TL, Chien-Hsien Huang,: Nosocomial Gram-Negative Bacteremia in Critically Ill Patients: Epidemiologic Characteristics and Prognostic Factors in 147 Episodes *J Formos Med Assoc* 1999; 98:465-73.



Po-Yu Liu, MD, PhD
劉伯瑜 醫師

SECTION 1

Primary Appointment

- Chief, Division of Infectious Diseases, Department of Internal Medicine, Taichung Veterans General Hospital, Taichung, Taiwan
- Associate Professor, Rong Hsing Research Center for Translation Medicine, National Chung Hsing University, Taichung, Taiwan

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Education

2009 - 2013 National Chung Hsing University, Taichung, Taiwan. Ph.D.

1992 - 1999 Chung Shan Medical University, Taichung, Taiwan. M.D.

Visiting Scholar

2014 - 2015 Lawrence Berkeley National Laboratory, Berkeley, CA, USA

Board Certifications

2008 Board Certified in Infectious Diseases, Taiwan

2006 Board Certified in Emergency Medicine, Taiwan

2004	Board Certified in Internal Medicine, Taiwan
1999	Diplomat, National Board of Medical Examiners, Taiwan (1997 ~ 1999)

Professional Memberships

- Infectious Diseases Society of America
- European Society of Clinical Microbiology and Infectious Diseases
- The Microbiology Society
- Taiwan Society of Internal Medicine
- Taiwan Medical Association
- Infectious Diseases Society of Taiwan
- Taiwan Society of Emergency Medicine

Selected Publications

1. Tseng C-H, Huang Y-T, Mao Y-C, Lai C-H, Yeh T-K, Ho C-M, Liu P-Y: Insight into the Mechanisms of Carbapenem Resistance in *Klebsiella pneumoniae*: A Study on IS26 Integrons, Beta-Lactamases, Porin Modifications, and Plasmidome Analysis. *Antibiotics* 2023, 12(4):749.
2. Huang P-H, Huang Y-T, Lee P-H, Tseng C-H, Liu P-Y, Liu C-W: Diagnosis of Legionnaires' Disease Assisted by Next-Generation Sequencing in a Patient with COVID-19. *Infection and Drug Resistance* 2023:355-362.
3. Chuang Y-C, Lin K-P, Wang L-A, Yeh T-K, Liu P-Y: The Impact of the COVID-19 Pandemic on



Po-Yu Liu, MD, PhD

SECTION 1

Respiratory Syncytial Virus Infection: A Narrative Review. *Infection and Drug Resistance* 2023;661-675.

4. Yeh T-K, Lin H-J, Liu P-Y, Wang J-H, Hsueh P-R: Antibiotic resistance in *Enterobacter hormaechei*. *International Journal of Antimicrobial Agents* 2022;106650.

5. Yang W-T, Huang W-H, Liao T-L, Hsiao T-H, Chuang H-N, Liu P-Y: SARS-CoV-2 E484K Mutation Narrative Review: Epidemiology, Immune Escape, Clinical Implications, and Future Considerations. *Infection and Drug Resistance* 2022, 15:373.

6. Yang W-T, Chiu I-J, Huang Y-T, Liu P-Y: Comparative Genomics Revealed Fluoroquinolone Resistance Determinants and OmpF Deletion in Carbapenem-Resistant *Escherichia coli*. *Frontiers in microbiology* 2022, 13:886428.

7. Yang W-T, Chiang I, Tseng C-H, Cheng C, Lin J-H, Liu P-Y, Huang Y-T: Metagenomic Sequencing and Histology on a Chronic Wound Identified Epstein-Barr Virus-Associated Lymphoma. *Evolutionary Bioinformatics* 2022, 18:1176934322110663.

8. Wu H-Y, Chang P-H, Huang Y-S, Tsai C-S, Chen K-Y, Lin I-F, Hsieh W-H, Tsai W-L, Chen J-A, Yang T-L: Recommendations and Guidelines for the Diagnosis and Management of Coronavirus Disease-19 (COVID-19) Associated Bacterial and Fungal Infections in Taiwan. *Journal of Microbiology, Immunology and Infection* 2022.

9. Liu P-Y, Ko W-C, Lee W-S, Lu P-L, Chen Y-H, Cheng S-H, Lu M-C, Lin C-Y, Wu T-S, Yen M-Y: In vitro activity of cefiderocol, cefepime/enmetabactam, cefepime/zidebactam, eravacycline, omadacycline, and other comparative agents against carbapenem-non-susceptible *Pseudomonas aeruginosa* and *Acinetobacter baumannii* isolates associated

from bloodstream infection in Taiwan between 2018–2020. *Journal of Microbiology, Immunology and Infection* 2022, 55(5):888-895.

10. Huang Y-T, Yang M-Y, Mao Y-C, Lee D-Y, Kuo Y-L, Tseng C-H, Liu C-W, Fu Y-C, Liu P-Y: Identification of *Cutibacterium acnes* in spondylitis by metagenomics analysis. 2022.

11. Chuang Y-C, Tsai H-W, Liu S-A, Wu M-J, Liu P-Y: COVID-19 in Veterans: A Narrative Review. *Risk Management and Healthcare Policy* 2022, 15:805.

12. Chuang Y-C, Liu P-Y, Lai K-L, Tseng C-H: Bilateral Lower Limbs Cellulitis: A Narrative Review of an Overlooked Clinical Dilemma. *International Journal of General Medicine* 2022;5567-5578.

13. Yang W-T, Lai C-S, Lai K-L, Mao Y-C, Liu P-Y: Clinical metagenomics for complicated skin and soft tissue infections. *International Journal of Antimicrobial Agents* 2021, 58:21003435.

14. Tseng C-H, Cheng J-F, Chen S-Y, Chen W-H, Shi Z-Y, Lin Y-H, Tsai C-A, Lin S-P, Chen Y-C, Lin Y-C: Detection of S83V GyrA mutation in quinolone-resistant *Shewanella* algae using comparative genomics. *Journal of Microbiology, Immunology and Infection* 2021, 54(4):658-664.

15. Teng L-C, Wang J-M, Lu H-Y, Mao Y-C, Lai K-L, Tseng C-H, Huang Y-T, Liu P-Y: *Elizabethkingia* Intra-Abdominal Infection and Related Trimethoprim-Sulfamethoxazole Resistance: A Clinical-Genomic Study. *Antibiotics* 2021, 10(2):173.

16. Teng L, Wang J, Lu H, Mao Y, Lai K, Tseng C, Huang Y, Liu P: *Elizabethkingia* Intra-Abdominal Infection and Related Trimethoprim-Sulfamethoxazole Resistance: A Clinical-Genomic Study. *Antibiotics* 2021, 10, 173. In.: s Note: MDPI stays neutral with regard to jurisdictional claims in published ...; 2021.

17. Mao Y-C, Chuang H-N, Shih C-H, Hsieh H-H, Jiang Y-H, Chiang L-C, Lin W-L, Hsiao T-H, Liu P-Y: An investigation of conventional microbial culture for the *Naja atra* bite wound, and the comparison between culture-based 16S Sanger sequencing and 16S metagenomics of the snake oropharyngeal bacterial microbiota. *PLOS Neglected Tropical Diseases* 2021, 15(4):e0009331.

18. Liu P-Y, Wang K-C, Hong Y-P, Chen B-H, Shi Z-Y, Chiou C-S: The first imported case of extensively drug-resistant *Salmonella enterica* serotype Typhi infection in Taiwan and the antimicrobial therapy. *Journal of Microbiology, Immunology and Infection* 2021, 54(4):740-744.

19. Liu C-W, Cheng J-F, Tung K-C, Hong Y-K, Lin J-H, Lin Y-H, Tsai C-A, Lin S-P, Chen Y-C, Shi Z-Y: Evolution of trimethoprim/sulfamethoxazole resistance in *Shewanella* algae from the perspective of comparative genomics and global phylogenetic analysis. *Journal of Microbiology, Immunology and Infection* 2021.

20. Li S-Y, Kao C-C, Hu Y-C, Lai C-H, Jiang Y-P, Mao Y-C, Huang Y-T, Liu P-Y: *Arthrobacter woluwensis* Bacteremia: A Clinical and Genomic Report. *Pathogens* 2021, 10(4):443.

21. Li S-Y, Huang Y-E, Chen J-Y, Lai C-H, Mao Y-C, Huang Y-T, Liu P-Y: Genomics of *Ochrobactrum pseudogrigonense* (newly named *Brucella pseudogrigonensis*) reveals a new blaOXA subgroup. *Microbial Genomics* 2021, 7(8):000626.

22. Huang Y-T, Yeh T-K, Chen W-H, Shih P-W, Mao Y-C, Lu M-C, Chen C-M, Liu P-Y: Genome analysis of *Enterobacter hormaechei* identified ISEcP1 in association with bla CTX-M-236, a new bla CTX-M variant located in both chromosome and plasmid. *Journal of global antimicrobial resistance* 2021:S2213-7165 (2221) 00059-X.

23. Huang Y-T, Liu P-Y, Shih P-W: Homopolish: a method for the removal of systematic errors in nanopore sequencing by homologous polishing. *Genome biology* 2021, 22(1):1-17.

24. Huang W-H, Lai C-S, Lai K-L, Mao Y-C, Liu P-Y: Causative microorganisms, antibiotic resistance and empiric therapeutic choices in Cobra-bite wound infections. *International Journal of Antimicrobial Agents* 2021, 58:21003186.

25. Huang W-H, Kao C-C, Mao Y-C, Lai C-S, Lai K-L, Lai C-H, Tseng C-H, Huang Y-T, Liu P-Y: *Shewanella* algae and *Morganella morganii* Coinfection in Cobra-Bite Wounds: A Genomic Analysis. *Life* 2021, 11(4):329.

26. Huang W-H, Teng L-C, Yeh T-K, Chen Y-J, Lo W-J, Wu M-J, Chin C-S, Tsan Y-T, Lin T-C, Chai J-W: 2019 novel coronavirus disease (COVID-19) in Taiwan: Reports of two cases from Wuhan, China. *Journal of Microbiology, Immunology and Infection* 2020, 53(3):481-484.

27. Chen Y-J, He G-C, Cheng J-F, Lee Y-T, Hung Y-H, Chen W-H, Huang Y-T, Liu P-Y: Comparative genomics reveals insights into characterization and distribution of quorum sensing-related genes in *Shewanella* algae from marine environment and clinical sources. *Comparative Immunology, Microbiology and Infectious Diseases* 2020, 73:101545.

28. Wu Z-Y, Huang Y-T, Chao W-C, Ho S-P, Cheng J-F, Liu P-Y: Reversal of carbapenem-resistance in *Shewanella* algae by CRISPR/Cas9 genome editing. *Journal of advanced research* 2019, 18:61-69.

29. Lin J-H, Wu Z-Y, Gong L, Wong C-H, Chao W-C, Yen C-M, Wang C-P, Wei C-L, Huang Y-T, Liu P-Y: Complex Microbiome in Brain Abscess Revealed by Whole-Genome Culture-Independent and Culture-Based Sequencing. *Journal of clinical medicine* 2019, 8(3):351.

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MODERATOR

Hung-Jen Tang, MD
湯宏仁 醫師

Department of Internal Medicine, Chi Mei Medical Center
 No.901, Chung-Hwa Rd. Yung-Kang Dist. Tainan City, Taiwan, R.O.C
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Education

1987~1994 Chung Shan Medical University

College

• MD, Department of Medicine, Chung Shan Medical College

Current Position

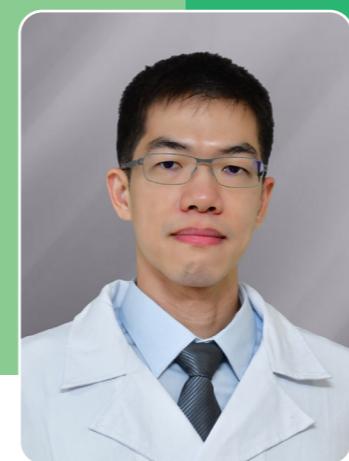
- 2018/08 - present Professor
- 2022/10 - present Head of Medicine Department Section of Infectious diseases, Department of Internal Medicine
- 2011/09 - present Chi Mei Medical Center
- 2016/01 - present Director of infectious disease control center

Professional Societies

- The Society of Internal Medicine, R.O.C.
- The Infectious Diseases Society of the Republic of China
- The Infection Control Society of the Republic of China

Award

- The Infectious Disease Society of Taiwan Article award of 2007 (Hung-Jen Tang, Yung-Ching Liu. Opportunistic infections in adults with acquired immunodeficiency syndrome: a comparison of clinical and autopsy finding. *J Microbiol Immunol Infect.* 2006;39(4):310-315)
- The Infectious Disease Society of Taiwan Article award of 2011 (In Vitro and In Vivo Intracellular Killing Effects of Tigecycline against Clinical Nontyphoid *Salmonella* Isolates Using Ceftriaxone as a Comparator. *Antimicrob Agents Chemother* 2011;55:2755-2759)
- The Infectious Disease Society of Taiwan Article award of 2018 (In vitro and in vivo antibacterial activity of tigecycline against *Vibrio vulnificus*. *J Microbiol Immunol Infect.* 2018 Feb;51(1):76-81)


Mingjui Tsai, MD
蔡明叡 醫師

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Current Position

- Infectious Diseases & Internal Medicine, National Taiwan University Hospital Yunlin Branch, Yunlin, Taiwan (R.O.C)
- Critical Care Medicine, National Taiwan University Hospital Yunlin Branch, Yunlin, Taiwan (R.O.C)

2020 - 2022 Critical Care Medicine, National Taiwan University Hospital Yunlin Branch, Yunlin, Taiwan (R.O.C)

University Hospital, Taipei, Taiwan (R.O.C)

Research Field

- Infectious Diseases
- Human Immunodeficiency Virus
- Critical Care Medicine

Specialties

- General Medicine
- Internal Medicine
- Infectious Diseases
- Infection Control
- Human Immunodeficiency Virus
- Critical Care Medicine

Training Background

2015 - 2018 Internal Medicine, Chimei Medical Center, Tainan, Taiwan (R.O.C)

2018 - 2020 Infectious Diseases & Internal Medicine, National Taiwan

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MODERATOR



Ting-Kuo Chang, MD, PhD
張定國 醫師

Contact Information

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• 2011/11

Medical service in Kiribati
(Taiwan ISCD)

Education

• MD, National Taiwan University, Taipei, Taiwan
• PhD, College of Biomedical Science and Engineering, National Yang Ming Chiao Tung University, Taipei, Taiwan

Professional Experiences

- 2021/07 - present Chief, Department of Orthopedics
Mackay Memorial Hospital, Taipei, Taiwan
- 2020 - present Associate Professor, Mackay Medical College, Taipei, Taiwan
- 2019 - present Chief, Spine section, Department of Orthopedics, Mackay Memorial Hospital, Taipei, Taiwan



Chung Ting Liu, MD, PhD
柳宗庭 醫師

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Current position

- Attending physician of orthopaedic department, Mackay Memorial Hospital, Taipei, Taiwan
- Assistant professor of medicine department, Mackay Medical Collage, Taipei, Taiwan

Research field

- orthopaedic

Specialties

- arthroplasty, sports, osteoporosis

Training Background

- 2009 - 2014 Resident of orthopaedic department, Mackay Memorial Hospital, Taipei, Taiwan
- 2014 - now Attending physician of orthopaedic department, Mackay Memorial Hospital, Taipei, Taiwan
- 2016 - 2021 Ph.D., department of biological science and technology, national Yang Ming Chiao Tung university, Taiwan

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David, Ta-Wei Tai, MD, PhD

戴大為 醫師

Orthopaedic Surgeon and Associate Professor
Department of Orthopaedics
National Cheng Kung University Hospital,
College of Medicine, National Cheng Kung
University, Tainan, Taiwan
Email : david0803@gmail.com

Clinical Interest

- Joint reconstruction (hip & knee arthroplasty)
- Joint preservation surgery
- Osteoporosis

Current Position

- Chief of Orthopaedics Ward, National Cheng Kung University Hospital
- Current Supervisor and Past Secretary General, Taiwan Osteoporosis Association

Academic and Clinical Career

1998 - 2005 M.D. degree.
College of Medicine, National Cheng Kung University, Tainan, Taiwan

2011 - 2016 Ph.D. degree.
Institute of Biomedical Engineering, National Cheng Kung University, Tainan, Taiwan

2006 - 2012 Resident & fellow training.

2012 - 2014 Consultant.
Department of Orthopaedics, Tainan Hospital Sinhua Branch, Tainan, Taiwan

2014 - Now Consultant.
Division of Joint Reconstruction, Department of Orthopaedics, National Cheng Kung University Hospital, Tainan, Taiwan

2016 – 2021 Assistant Professor
Department of Orthopaedics, College of Medicine, National Cheng Kung University, Tainan, Taiwan

2021 – Now Associate Professor
Department of Orthopaedics, College of Medicine, National Cheng Kung University, Tainan, Taiwan

Publication (2018 – 2023)

1. Y. L. Tsai, C. H. Wu, C. C. Li, C. A. Shih, Y. F. Chang, J. S. Hwang, T. W. Tai*. Drug adherence and treatment duration for denosumab and mortality risk among hip fracture patients. *Osteoporos Int.* 2023 Oct;34(10):1783-1791.

(corresponding author)

2. Y. H. Lin, T. H. Hung, C. W. Chang, Y. C. Chen, T. W. Tai*. Unplanned Emergency Department Visits Following Revision Total Joint Arthroplasty: Incidences, Risk Factors, and Mortalities. *J Arthroplasty.* 2023 Sep 29:S0883-5403(23)00990-7. (corresponding author)

3. B. Wang, T. W. Tai, K. W. Liang, C. K. Wang, Y. S. Liu, M. T. Huang, C. W. Chang (2023). Short-Term Effects of Genicular Artery Embolization on Symptoms and Bone Marrow Abnormalities in Patients with Refractory Knee Osteoarthritis. *J Vasc Interv Radiol* 34(7):1126-1134.e2.

4. T. W. Tai, C. F. Huang, H. K. Huang, R. S. Yang, J. F. Chen, T. T. Cheng, F. P. Chen, C. H. Chen, Y. F. Chang, W. C. Hung, D. S. Han, D. C. Chan, C. C. Tsai, I. W. Chen, W. P. Chan, H. J. Chang, J. S. Hwang, C. H. Wu (2023). "Clinical practice guidelines for the prevention and treatment of osteoporosis in Taiwan: 2022 update." *J Formos Med Assoc.* 2023;122 Suppl 1:S4-S13.

5. T. W. Tai, Y. L. Tsai, C. A. Shih, C. C. Li, Y. F. Chang, C. F. Huang, T. T. Cheng, J. S. Hwang, T. H. Lu, C. H. Wu (2023). Refracture risk and all-cause mortality after vertebral fragility fractures: Anti-osteoporotic medications matter. *J Formos Med Assoc.* 122 Suppl 1:S65-S73.

6. C. C. Hung, K. H. Chen, C. W. Chang, Y. C. Chen, T. W. Tai* (2023). "Salvage total hip arthroplasty after failed internal fixation for proximal femur and acetabular fractures" *J Orthop Surg Res*;18(1):45. (corresponding author)

7. T. W. Tai, J. S. Hwang, C. C. Li, J. C. Hsu, C. W. Chang and C. H. Wu (2022). "The Impact of Various Anti-Osteoporosis Drugs on All-Cause Mortality After Hip Fractures: A Nationwide Population Study." *J Bone Miner Res* 37(8): 1520-1526.

8. Lee, D. H., C. H. Chang, C. W. Chang, Y. C. Chen and T. W. Tai* (2023). "Postoperative Delirium in Patients Receiving Hip Bipolar Hemiarthroplasty for Displaced Femoral Neck Fractures: The Risk Factors and Further Clinical Outcomes." *J Arthroplasty* 38(4):737-742. (corresponding author)

9. Chen, T. R., C. W. Chang, T. W. Tai and B. Wang (2022). "Anterior Knee Pain Associated with Hoffa Disease Alleviated with Genicular Artery Embolization: A Case Study." *J Vasc Interv Radiol* 33(9): 1123-1126 e1124.

10. Chen, J. L., T. W. Tai, C. Y. Chou, C. K. Ku, L. N. Chien, T. W. Huang and C. H. Tang (2022). "Incidence of different types of subsequent fractures and related mortality in Taiwan." *Arch Osteoporos* 17(1): 55.

11. T. W. Tai, C. C. Li, C. F. Huang, W. P. Chan and C. H. Wu (2021). "Treatment of osteoporosis after hip fracture is associated with lower all-cause mortality: A nationwide population study." *Bone* 154: 116216.

12. Lin, Y. H., C. J. Chang, C. W. Chang, Y. C. Chen and T. W. Tai* (2021). "The reasons for and mortality of patients unable to receive reimplantation after resection arthroplasty for chronic hip periprosthetic infection." *Int Orthop.* (corresponding author)

13. Chang, C. J., Y. L. Chan, I. Pramukti, N. Y. Ko & T. W. Tai* (2021,2) People with HIV infection had lower bone mineral density and increased fracture risk: a meta-analysis. *Arch Osteoporos*, 16, 47. (corresponding author)

14. Pramukti, I., H. Y. Liu, C. C. Chen, Y. C. Chen, C. Y. Yeh, S. Fetzer, K. Ibrahim, T. W. Tai*, W. C. Ko & N. Y. Ko (2020,11) HCV co-infection among people living with HIV is associated with Higher fracture risk. *J Infect Public Health*, 13, 1724-1728. (corresponding author)

15. Pramukti, I., L. Lindayani, Y. C. Chen, C. Y. Yeh, T. W. Tai, S. Fetzer & N. Y. Ko (2020,6) Bone fracture among people living with HIV: A systematic review and meta-regression of prevalence, incidence, and risk factors. *PLoS*

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One, 15, e0233501.

16. Chang, C. J., I. M. Jou , T. T. Wu, F. C. Su, T. W. Tai*(2020,3)"Cigarette Smoke Inhalation Impairs Angiogenesis in Early Bone Healing Process and Delays Fracture Union." *Bone Joint Res.* 9(3):99–107. (corresponding author)

17. Hsieh, C. K., C. J. Chang, Z. W. Liu, T. W. Tai*(2020,1) "Extracorporeal shockwave therapy for the treatment of knee osteoarthritis: a meta-analysis. " *Int Orthop.* 44(5):877-884. (corresponding author)

18. Chang, H. M., C. K. Hong, W. R. Su, T. H. Wang, C. W. Chang and T. W. Tai* (2019,9). "Comparison of clavicular hook plate with and without coracoclavicular suture fixation for acute acromioclavicular joint dislocation." *Acta Orthop Traumatol Turc* 53(6):408-413. (corresponding author)

19. Shih, C. A., W. R. Su, W. C. Lin and T. W. Tai* (2019,2). "Parallel versus orthogonal plate osteosynthesis of adult distal humerus fractures: a meta-analysis of biomechanical studies." *Int Orthop* 43(2): 449-460. (corresponding author)

20. Li, C. Y., C. L. Chang and T. W. Tai* (2018,12). "Incidence and risk factors for hip fracture in elderly patients undergoing lumbar spine surgery: a nationwide database study with 11-year follow-up." *Osteoporos Int* 29(12): 2717-2723. (corresponding author)

21. Kao, J. T., C. L. Chang, W. R. Su, W. L. Chang and T. W. Tai*(2018,8). "Incidence of recurrence after shoulder dislocation: a nationwide database study." *J Shoulder Elbow Surg* 27(8): 1519-1525. (corresponding author)

22. Lin, Y. H., S. Y. Lee, W. R. Su, C. C. Kao, T. W. Tai and T. B. Chen (2018,5). "Effects of nurse-led lower extremity strength training on knee function recovery in patients who underwent total knee replacement." *J Clin Nurs* 27(9-10): 1836-1845.



Wang-Huei Sheng, MD, PhD
盛 望 徽 醫 師

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Current office address: Division of Infectious Diseases, Department of Internal Medicine, National Taiwan University Hospital, No. 7, Chung-Shan South Road, Taipei City, Taiwan 10016
Office phone: +886-2-23123456 Ext 262104
E-mail: whsheng@ntu.edu.tw

Current Position

- Chair, School of Medicine, College of Medicine, National Taiwan University
- Director, Department of Medical Education, National Taiwan University Hospital
- Professor, Division of Infectious Diseases, Department of Internal Medicine, National Taiwan University Hospital

Education

1985 - 1992 Medical doctor degree: Taipei Medical University

2000 - 2006 PhD degree: Institute of Clinical Research, College of Medicine, National Taiwan University

2014 - 2016 Master degree: College of Management, National Taiwan University

Research interests

- infection control
- antimicrobial resistant mechanism
- emerging infectious diseases
- HIV/viral hepatitis co-infections
- medical education

Academic research awards

- 1999 Best Resident Academic Award, Infectious Disease Society in Taiwan
- 2000 Best Attending Physician Academic Award, TaoYuan General Hospital, Ministry of Health, Taiwan
- 2004 Best Attending Physician Award, National Taiwan University Hospital, Taiwan
- 2006 Academic Excellence Award, National Taiwan University Hospital, Taiwan
- 2007 Albany Foundation Epidemic Prevention Paper Award, Taiwan
- 2007 Outstanding Doctoral Class Academic Award, National Taiwan University School of Medicine, Taiwan
- 2012 Excellent Attending Physician Paper Award, Infectious Disease Society in Taiwan

Biography

Dr Wang-Huei Sheng is a full-time Professor in the Department of Internal Medicine of National Taiwan



Wang-Huei Sheng, MD, PhD

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University Hospital. He is also previous Director of the Center for Infection Control, and Director of Division of Infectious Diseases at National Taiwan University Hospital, Taipei City, Taiwan.

Dr Sheng gained his medical degree at Taipei Medical University in 1992, after which he did his residency at National Taiwan University Hospital. He spent 3 years as Attending Physician at Provincial Taoyuan Hospital, followed by 2 years with the AIDS Research Center of the Department of Health, Taiwan. In 2007 he gained his Doctoral degree from National Taiwan University. Dr Sheng is currently a member of the Society of Emergency Medicine, the Society of Internal Medicine, the Society of Immunology, Microbiology and Infectious Diseases, the Society of AIDS Research, and the Society of Hospital Infection Control in Taiwan. Research interests include infection control of multiple drug resistant bacteria and HIV/viral hepatitis co-infections. He is deputy general secretary of Taiwan Society of Internal Medicine (TSIM) and promote the competency-based medical education (CBME) program in post-graduate residency training. Dr Sheng's publications include more than 150 SCI manuscripts during 1998-2022.



MODERATOR

Chih-Chien Hu, MD
胡志堅 醫師

Associate Professor & Chief of Joint Reconstruction, Department of Orthopedic Surgery, Chang Gung Medical Center, Linkou, Taiwan
Email: r52906154@cgmh.org.tw
chihchienhu@hotmail.com

Dr. Hu obtained his MD degree in year 2000 from the Chung-Shan Medical University in Taiwan, then completed his Orthopaedic training at the Chang Gung Memorial Hospital (CGMH), Linkou, Taiwan in 2007, who received his abroad fellowship training at the Dorr Arthritis Institute, GoodSanmaritan Hospital, Los Angeles, California, USA and the Rothman Institute, Thomas Jefferson University Hospital, Philadelphia, Pennsylvania, USA from 2009 to 2010. He is currently the chief of Joint Reconstruction Division, Department of Orthopaedic Surgery, CGMH Linkou, Taiwan. The training background & interests of Dr. Hu is Adult Hip/Knee Reconstruction, both primary and complex revision surgery. Besides, he is also emphasis on different minimally invasive approaches of hip arthroplasty. Orthopedic associate infection treatment & related issues are also his major specialty.

Academic Appointments

1. 2021 July until now, Chief of Joint reconstruction department, Attending Physician & Associate Professor, Orthopedic Surgery, Chang Gung Memorial Hospital, Linkou Medical Center. Chang Gung University College of Medicine.

2. 2023 July-01 to 02, Chairman of United Advanced Interactive Live Surgery (UAILS) International Conference, LinKou, Taiwan.
3. 2023 May-06 to 07, Chairperson of AO Recon Course—Principles of Total Hip and Knee Arthroplasty, Taipei, Taiwan.
4. 2022 December until now, Director of 16th Joint Reconstruction Society, Republic of China, Taiwan.
5. 2020 December to 2022 November, Executive Supervisor of 15th Joint Reconstruction Society, Republic of China, Taiwan.
6. 2018 July to 2021 June, Attending Physician & Assistant Professor, Department of Joint reconstruction, Orthopedic Surgery, Chang Gung Memorial Hospital.

Representative publications

1. Lin YC, Wang HY, Tang YC, Lin WR, Tseng CL, Hu CC (co-corresponding), Chung RJ. Enhancing wound healing and adhesion through dopamine-assisted gelatin-silica hybrid dressings. *Int J Biol Macromol.* 2024 Feb;258(Pt 2):128845. doi: 10.1016/j.ijbiomac.2023.128845.
2. Chen MF, Hu CC, Hsu YH, Lin YC, Chen KL, Ueng SWN, Chang Y. The role of EDIL3 in maintaining cartilage extracellular matrix and inhibiting osteoarthritis development. *Bone Joint Res.* 2023 Dec 12;12(12):734-746. doi: 10.1302/2046-3758.1212.BJR-2023-0087.R1.
3. Chia-Hung Liu, Chih-Hsiang Chang, Yu-



Chih-Chien Hu, MD

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Han Chang, Hsin-Nung Shih, and Chih-Chien Hu (corresponding). Topical Fibrin Sealant (Tisseel®) Does Not Provide a Synergic Blood-Conservation Effect with Tranexamic Acid in Total Knee Arthroplasty—A Prospective Randomized Controlled Trial. *Medicina* 2023, 59, 2078. <https://doi.org/10.3390/medicina59122078>

4. sai YL, Tsai SHL, Lin CH, Lin CR, Hu CC (corresponding). The Effect of Congruent Tibial Inserts in Total Knee Arthroplasty: A Network Meta-Analysis of Randomized Controlled Trials. *Life (Basel)*. 2023 Sep 21;13(9):1942. doi: 10.3390/life13091942.

5. Chen MF, Hu CC, Hsu YH, Chiu YT, Chen KL, Ueng SWN, Chang Y. Characterization and Advancement of an Evaluation Method for the Treatment of Spontaneous Osteoarthritis in STR/ort Mice: GRGDS Peptides as a Potential Treatment for Osteoarthritis. *Biomedicines*. 2023 Apr 6;11(4):1111. doi: 10.3390/biomedicines11041111.

6. Jang-Hsing Hsieh, Chuan Li, Weite Wu, Yi-Hwa Lai, Shu-Chuan Liao, Chih-Chien Hu, Yu-Han Chang. Mechanical Properties, Biocompatibility and Antibacterial Behaviors of TaO0.2N0.8 and TaO0.2N0.8-Ag Nanocomposite Thin Coatings. *Coatings* 2023, 13, 88. <https://doi.org/10.3390/coatings13010088>

7. Hsu CH, Hu CC, Chang CH, Chang YH, Shih HN, Chen CC. Acetabular Revision Surgery with Tantalum Trabecular Metal Acetabular Cup for Failed Acetabular Cage Reconstruction with Bone Allografts: A Retrospective Study with Mid-to Long-Term Follow-Up. *J Clin Med.* 2022 Jun 15;11(12):3428. doi: 10.3390/jcm11123428.

8. Tsung-Hsien Wu, Yi-Cheng Tsai, Feng-Chih Kuo, Mel S. Lee, Chih-Chien Hu (co-corresponding), Gwo-Bin Lee. A microfluidic platform for detection and quantification of two biomarkers for rheumatoid arthritis. *Sensors and Actuators B: Chemical*, Volume 383, 15 May 2023,

133587. <https://doi.org/10.1016/j.snb.2023.133587>

9. Nguyen TT, Hu CC (co-first), Sakthivel R, Nabilla SC, Huang YW, Yu J, Cheng NC, Kuo YJ, Chung RJ. Preparation of gamma poly-glutamic acid/hydroxyapatite/collagen composite as the 3D-printing scaffold for bone tissue engineering. *Biomater Res.* 2022 May 31;26(1):21. doi: 10.1186/s40824-022-00265-7.

10. Nguyen TT, Hu CC (co-first), Chou BY, Chou CY, Lin GY, Hu YC, Chen YL, Hsu WT, Lin ZS, Lee YL, Chen CH, Yen HW, Chung RJ. Evaluating hydrogenated nickel-titanium alloy for orthopedic implant. *Journal of Materials Research and Technology*, volume 18, May–June 2022, Pages 1115-1123. doi.org/10.1016/j.jmrt.2022.03.025

11. Truong TTV, Chen CC, Kumar SR, Hu CC, Chen DW, Liu YK, Lue SJ. Prismatic Silver Nanoparticles Decorated on Graphene Oxide Sheets for Superior Antibacterial Activity. *Pharmaceutics.* 2022 Apr 24;14(5):924. doi: 10.3390/pharmaceutics14050924.

12. Lee SH, Chu CT, Chang CH, Hu CC, Chen SY, Lu TW, Lin YC. Do Serum C-Reactive Protein Trends Predict Treatment Outcome in Patients with Knee Periprosthetic Joint Infection Undergoing Two-Stage Exchange Arthroplasty? *Diagnostics (Basel)*. 2022 Apr 20;12(5):1030. doi: 10.3390/diagnostics12051030.

13. Chuang CA, Lee SH, Chang CH, Hu CC, Shih HN, Ueng SWN, Chang Y. Application of structural allogenous bone graft in two-stage exchange arthroplasty for knee periprosthetic joint infection: a case control study. *BMC Musculoskelet Disord.* 2022 Apr 5;23(1):325. doi: 10.1186/s12891-022-05228-6.

14. Tsai MH, Chen CC, Chang CH, Chang Y, Hsieh PH, Hu CC (corresponding). Revision Total Hip Arthroplasty with Primary Stem or Full-Porous-Coated Long Stem for Aseptic Femoral

Component Loosening: A Matched-Pair Study. *Orthop Res Rev.* 2022 Feb 15;14:25-33. doi:10.2147/ORR.S346891.

15. Hu CC, Kumar SR, Vi TTT, Huang YT, Chen DW, Lue SJ. Facilitating GL13K Peptide Grafting on Polyetheretherketone via 1-Ethyl-3-(3-dimethylaminopropyl) carbodiimide: Surface Properties and Antibacterial Activity. *Int J Mol Sci.* 2021 Dec 29;23(1):359. doi: 10.3390/ijms23010359.

16. Lee SH, Chang CH, Hu CC, Chang Y, Hsieh PH, Lin YC. The Risk Factor and Outcome of Metachronous Periprosthetic Joint Infections: A Retrospective Analysis with a Minimum Ten-Year Follow-Up. *J Arthroplasty.* 2021 Nov;36(11):3734-3740. doi: 10.1016/j.arth.2021.07.019.

17. Chen CF, Hu CC (co-first), Wu CT, Wu HH, Chang CS, Hung YP, Tsai CC, Chang Y. Treatment of knee osteoarthritis with intra-articular injection of allogeneic adipose-derived stem cells (ADSCs) ELIXCYTE®: a phase I/II, randomized, active-control, single-blind, multiple-center clinical trial. *Stem Cell Res Ther.* 2021 Oct 30;12(1):562. doi: 10.1186/s13287-021-02631-z.

18. Hsiao YM, Hu CC, Chen MF, Chang CH, Chiu YT, Chang Y. Serum Insufficiency Induces RANKL-Independent Osteoclast Formation during Developing Ischemic ONFH. *Biomedicines.* 2021 Jun 17;9(6):685. doi: 10.3390/biomedicines9060685

19. Chang Y, Hu CC (co-first), Wu YY, Ueng SWN, Chang CH, Chen MF. Ibudilast Mitigates Delayed Bone Healing Caused by Lipopolysaccharide by Altering Osteoblast and Osteoclast Activity. *Int J Mol Sci.* 2021 Jan 25;22(3):1169. doi: 10.3390/ijms22031169.

20. Hu CC, Chang CH, Chang Y, Hsieh JH, Ueng SWN. Beneficial Effect of TaON-Ag Nanocomposite Titanium on Antibacterial Capacity in Orthopedic Application. *International Journal of Nanomedicine.* 13 October 2020 Volume 2020:15 Pages 7889—7900.

21. Hu CC, Chang CH, Hsiao YM, Chang Y, Wu YY, Ueng SWN, Chen M. Lipoteichoic Acid Accelerates Bone Healing by Enhancing Osteoblast Differentiation and Inhibiting Osteoclast Activation in a Mouse Model of Femoral Defects. *Int J Mol Sci.* 2020 Aug 3;21(15):E5550. doi: 10.3390/ijms21155550.

22. Chih-Hsiang Chang, Chih-Chien Hu, Yuhan Chang, Kee-Chin Sia, Steve W. N. Ueng, Mei-Feng Chen. Optimizing the Fracture Repair Mouse Model by Using Different Sizes of Femoral Defects. First published: 20 April 2020. The FASEB Journal. <https://doi.org/10.1096/fasebj.2020.34.s1.09144>

23. Chang Y1,2, Hsiao YM1,2, Hu CC1,2, Chang CH1,2,3,4, Li CY1, Ueng SWN1,2,3, Chen MF1 . Synovial Fluid Interleukin-16 Contributes to Osteoclast Activation and Bone Loss through the JNK/NFATc1 Signaling Cascade in Patients with Periprosthetic Joint Infection. *Int J Mol Sci.* 2020 Apr 21;21(8). pii: E2904. doi: 10.3390/ijms21082904.

24. Liu, W.-C., Chih-Chien Hu(co-first), Tseng, Y.-Y., Sakthivel, R., Fan, K.-S., Wang, A.-N., Chung, R.-J. Study on strontium doped tricalcium silicate synthesized through sol-gel process. *Materials Science and Engineering: C*, vol 108, March 2020. doi:10.1016/j.msec.2019.110431

25. Tsai MH, Hu CC(corresponding). Teriparatide as nonoperative treatment for femoral shaft atrophic nonunion: A case report. *World J Clin Cases.* 2019 Sep 26;7(18): 2838-2842.

26. Chen MF, Chang CH, Hu CC, Wu YY, Chang Y, Ueng SWN. Periprosthetic Joint Infection Caused by Gram-Positive Versus Gram-Negative Bacteria: Lipopolysaccharide, but not Lipoteichoic Acid, Exerts Adverse



Chih-Chien Hu, MD

SECTION 2

Osteoclast-Mediated Effects on the Bone. ¹
J Clin Med. 2019 Aug 23;8(9). pii: E1289. doi:
10.3390/jcm8091289.

27. Chang CH, Hu CC, Chen CC, Mahajan J, Chang Y, Shih HN, Kwon YM. Revision Total Hip Arthroplasty for Paprosky Type III Acetabular Defect With Structural Allograft and Tantalum Trabecular Metal Acetabular Cup. *Orthopedics*. 2018 Nov 1;41(6):e861-e867. doi: 10.3928/01477447-20181023-02. Epub 2018 Oct 29.

28. Chang CH, Hu CC, Chang Y, Hsieh PH, Shih HN, Ueng SW. Two-stage revision arthroplasty for Mycobacterium Tuberculosis periprosthetic joint infection: An outcome analysis. *PLoS One*. 2018 Sep 7;13(9)

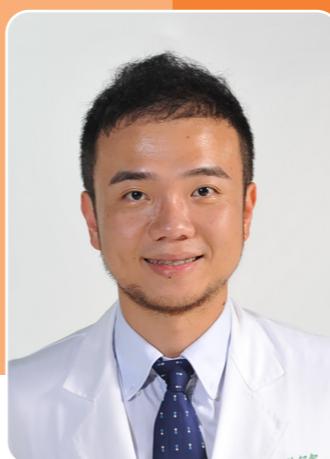
29. u-Ching Yu, Chih-Chien Hu(co-first), Wen-Hsin Chang, Pei-Chun Chen, Mel S. Lee, Kuo-Ti Peng, Gwo-Bin Lee. An integrated microfluidic system using mannose-binding lectin for bacteria isolation and biofilm-related gene detection. *Microfluidics and Nanofluidics*. January 2018, 22:13

30. Chih-Chien Hu, Tsan-Wen Huang, Shih-Jie Lin, Po-Chun Lin, Feng-Chih Kuo, Kuo-Ti Peng, Kuo-Chin Huang, Hsin-Nung Shih, and Mel S. Lee. Surgical Approach May Influence Survival of Large-Diameter Head Metal-on-Metal Total Hip Arthroplasty: A 6- to 10-Year Follow-Up Study. *BioMed Research International*. 2017;2017:4209634. doi: 10.1155/2017/4209634. Epub 2017 Jul 24.

31. Hsu YH, Hu CC, Hsieh PH, Shih HN, Ueng SW, Chang Y. Vancomycin and Ceftazidime in Bone Cement as a Potentially Effective Treatment for Knee Periprosthetic Joint Infection. *J Bone Joint Surg Am*. 2017 Feb 1;99(3):223-231.

32. Hu CC, Chen SY, Chen CC, Chang YH, Ueng SW, Shih HN. Superior Survivorship of Cementless vs Cemented Diaphyseal Fixed Modular Rotating-Hinged Knee Megaprosthesis

at 7 Years' Follow-Up. *J Arthroplasty*. 2017 Jun;32(6):1940-1945.



Yu-Chih Lin, MD
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SECTION 2

Education

2003 - 2010 Taipei Medical University School of Medicine, Taipei, Taiwan

- periprosthetic joint infection
- joint conserving procedures
- Artificial intelligence in orthopaedics

Post-Graduate Education

國立陽明交通大學，生醫科學與工程博士學程
Academic Appointment (Include Teaching Experience) : (As Above)

Employment Record

ch

Research Project

- The outcome of autoimmune patients underwent THR and TKR in Taiwan: clinical results based on a Nationwide Health Insurance Research Database (NHIRD), NMRP, 2021/08~2023/08

- To establish a nanocarrier for insulin growth factor-1 (IGF-1) with improving delivery and efficacy in penetrating cartilage: Application for osteoarthritis treatment, CMRP, 2022/09~2024/09

Professional Activities

• 2020/12 :
國家新創獎：學研新創獎：
電腦深度學習建立脊椎骨盆 X 光自動辨識模組及手術決策輔助系統

• 2022/01:
中華民國專利：I753412 號：
產生用於自動定位出定位點的模型的方法、骨骼狀態分析方法及電子系統

2020/10~2022/10: The editor of *Formosan Journal of Musculoskeletal Disorders*

Research Interest

- Adult joint reconstruction

SECTION 2



Peter, Sheng-Hsun Lee, MD, PhD

李勝勛 醫師

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R.O.C.
Tel: 03-3281200 Ext 2420

Education

- Ph.D. candidate, Department of Biomedical Engineering, National Taiwan University
- M.D., 2008, Chang Gung University, Taoyuan, Taiwan, R.O.C.

Academic Appointments

- 2016-07-01 up to now, Attending Physician and Assistant Professor, Division of Joint Reconstruction, Department of Orthopaedic Surgery, Chang Gung Memorial Hospital, Linkou Medical Center.
- 2015-07-01 to 2016-06-30, Attending Physician, Department of Orthopedic Surgery, Chang Gung Memorial Hospital, Taoyuan
- 2014-07-01 to 2015-06-30, Fellowship, Division of Joint Reconstruction, Department of Orthopaedic Surgery, Chang Gung Memorial Hospital, Linkou Medical Center.
- 2013-07-01 to 2014-06-30, Chief Resident, Department of Orthopaedic Surgery, Chang Gung Memorial Hospital, Linkou Medical Center.
- 2009-07-01 to 2013-06-30, Resident, Department of Orthopaedic Surgery, Chang Gung Memorial Hospital, Linkou Medical Center.

Professional Affiliations

1. Taiwan Orthopaedic Association
2. Joint Reconstruction Society, R.O.C.
3. Asia Pacific Bone and Joint Infection Society
4. Taiwanese Society of Movement Science and Technology
5. European Bone and Joint Infection Society
6. American Association of Hip and Knee Surgeons
7. American Academy of Orthopaedic Surgeons

Training background & Interests

1. Orthopaedic Infection Treatment & Related Issues
2. Adult Joint Reconstruction, Knee joint, Primary and Revision
3. Adult Joint Reconstruction, Hip joint, Primary and Revision
4. Hip preservation Surgery
5. Orthopaedic Trauma

Publications

1. Sheng-Hsun Lee, Diego Alarcon Perico, Mario Hevesi, Rafael J. Sierra*. A New Arthroscopic Classification for Chondrolabral Disease in Patients Undergoing Surgery for Developmental Dysplasia of the Hip. American Journal of Sports Medicine. 2024, 52: 3. Doi: 10.1177/03635465231221507.
2. Sheng-Hsun Lee , Chun-Ting Chu, Chih-Hsiang Chang, Chih-Chien Hu, Szu-Yuan Chen,

Tung-Wu Lu, Yu-Chih Lin*. Do Serum C-Reactive Protein Trends Predict Treatment Outcome in Patients with Knee Periprosthetic Joint Infection Undergoing Two-Stage Exchange Arthroplasty? Diagnostics. 2022, 12, 1030. <https://doi.org/10.3390/diagnostics12051030>
(SCI, IF= 3.6, Medicine, general & internal 63/167)

3. Sheng-Hsun Lee, Chih-Hsiang Chang, Chih-Chien Hu, Yuhan Chang, Pang-Hsin Hsieh, Yu-Chih Lin*. The risk factor and outcome of metachronous periprosthetic joint infections: a retrospective analysis with a minimum ten-year follow-up. The Journal of Arthroplasty. 2021. doi: 10.1016/j.arth.2021.07.019.
(SCI, IF= 3.5, Orthopedics 16/86)

4. An-Jhii Luo, Fu-Cheng Kao, An-Shun Tai, Shih-Chen Fu, Yu-Han Chang , Pang-Hsin Hsieh, Sheng-Hsuan Lin, Sheng-Hsun Lee*. Infective spondylitis after periprosthetic joint infections: A case series report. Formosan Journal of Musculoskeletal Disorders 12 (2021) 109-116. DOI: 10.6492/FJMD.202108_12(3).0003

5. Sheng-Hsun Lee, Hsin-Nung Shih, Chih-Hsiang Chang, Tung-Wu Lu, Yuhan Chang, Yu-Chih Lin*. Influence of extension stem length and diameter on clinical and radiographic outcomes of revision total knee arthroplasty. BMC Musculoskeletal Disorders. 2020, 21:15. doi: 10.1186/s12891-019-3030-1.(SCI, IF= 2.3, Orthopedics 42/86)

6. Sheng-Hsun Lee, Yu-Chi Lin, Chee-Jen Chang, Chih-Yun Fang Chiang, Szu-Yuan Chen, Yuhang Chang, Pang-Hsin Hsieh, Chih-Hsiang Chang*. Outcome and cost analysis of primary total knee arthroplasty in end-stage renal disease patients: A nationwide population-based study. Biomedical Journal. 2020. doi: 10.1016/j.bj.2020.04.010.
(SCI, IF= 5.5, Medicine, Research, and Experimental 38/136)

7. Zhong-Yan Li, Yu-Chih Lin, Chih-Hsiang Chang, Szu-Yuan Chen, Tung-Wu Lu, Sheng-Hsun Lee*. Trend of serum C-reactive protein is associated with treatment outcome of hip Periprosthetic joint infection undergoing two-stage exchange arthroplasty: a case control study. BMC Musculoskeletal Disorders 22, 1007 (2021). <https://doi.org/10.1186/s12891-021-04893-3>
(SCI, IF= 2.3, Orthopedics 42/86)

8. Yi-Chen Chen, Yu-Chih Lin, Chih-Hsiang Chang, Sheng-Hsun Lee, Yuhan Chang*. Risk Factors for Treatment Failure in Patients Who Have Knee Periprosthetic Joint Infection Treated With Two-Stage Exchange Arthroplasty as Well as Their Fate. Journal of Arthroplasty 38 (2023) 355e360. <https://doi.org/10.1016/j.arth.2022.08.033>
(SCI, IF= 3.5, Orthopedics 16/86)

9. Joshua R. Labott, Samuel W. Carlson, Sheng-Hsun Lee, Rafael J. Sierra*, Femur-First Technique for Mobile Bearing Unicompartmental Knee Arthroplasty Results in Decreased Implant Variability and Early Improvements in Function and Survivorship. Journal of Arthroplasty, 2023 Jun;38(6S):S60-S65. doi: 10.1016/j.arth.2023.02.012. Epub 2023 Feb 15. PMID: 36796707.
(SCI, IF= 3.5, Orthopedics 16/86)

10. Shih-Hui Peng, Chun-Chieh Chen, Sheng-Hsun Lee, Yu-Chih Lin, Jui-Fan Chiang, Szu-Yuan Chen, Chih-Chien Hu, Yuhan Chang, Pang-Hsin Hsieh, Hsin-Nung Shih, Chih-Hsiang Chang*. Clinical outcomes of various types of revision surgeries after unicompartmental knee arthroplasty failure. BMC Musculoskeletal Disorders (2023) 24:302 <https://doi.org/10.1186/s12891-023-06413-x>
(SCI, IF= 2.3, Orthopedics 42/86)

11. Yu - Chih Lin, Yi - Hsuan Lin, Jian - Hong Chou, Yu - Tai Lo, Chih - Hsiang Chang, Sheng - Hsun Lee, Sheng - Hsuan Lin. Higher reinfection rate after two-stage revision arthroplasty in patients with refractory diabetes mellitus: a retrospective analysis with a minimum ten-year follow up. BMC Musculoskeletal Disorders (2022)

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Peter, Sheng-Hsun Lee, MD, PhD

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23:990. <https://doi.org/10.1186/s12891-022-05964-9> (SCI, IF= 2.3, Orthopedics 42/86)

12. Chih-Hsiang Chang, Sheng-Hsun Lee, Yu-Chi Lin, Yi-Chun Wang, Chee-Jen Chang, Pang-Hsin Hsieh*. Increased periprosthetic hip and knee infection projected from 2014 to 2035 in Taiwan. *Journal of Infection and Public Health*, 2020 Nov; 13(11): 1769-1773. doi: 10.1016/j.jiph.2020.04.014. (SCI, IF= 6.7, Public, environmental & occupational health 28/207)

13. Chieh An Chuang, Sheng-Hsun Lee, Chih-Hsiang Chang, Chih-Chien Hu, Hsin-Nung Shih, Steve W.N. Ueng, Yuhan Chang*. Application of structural allogenic bone graft in two-stage exchange arthroplasty for knee periprosthetic joint infection: a case control study. *BMC Musculoskeletal Disorders*. (2022) 23:325 <https://doi.org/10.1186/s12891-022-05228-6> (SCI, IF= 2.3, Orthopedics 42/86)

14. Michael Jian-Wen Chen, Jui-Fu Hung, Chih-Hsiang Chang, Sheng-Hsun Lee, Hsin-Nung Shih, Yu-Han Chang*. Periprosthetic knee infection reconstruction with a hinged prosthesis: Implant survival and risk factors for treatment failure. *The Knee*, 2020, 27:3: 1035-1042. doi: 10.1016/j.knee.2020.03.004 (SCI, IF= 1.9, Orthopedics 50/86)

15. Shih Hui Peng, Sheng-Hsun Lee, Chun Chieh Chen, Yu-Chih Lin, Yuhan Chang, Pang-Hsin Hsieh, Hsin Nung Shih, Steve W.N. Ueng, Chih-Hsiang Chang*. Nontuberculous mycobacteria Peri-prosthetic Joint Infection: An Outcome Analysis for Two Stage Revision Arthroplasty. *J Orthop Surg (Hong Kong)*. 2022 Sep-Dec;30(3):10225536221140610. doi: 10.1177/10225536221140610. (SCI, IF= 1.6, Orthopedics 59/86)

16. Diego Alarcon Perico, Christopher N. Warne, Sheng-Hsun Lee, Heather J. Roberts, Rafael J. Sierra*, Combined Anteversion Technique for

Total Hip Arthroplasty With Handheld Accelerometer-Based Navigation System. *Arthroplasty Today*, Volume 23, 101193

17. Yifang Tsai, Chih-Hsiang Chang, Yu-Chih Lin, Sheng-Hsun Lee, Pang-Hsin Hsieh, Yuhan Chang*. Different microbiological profiles between hip and knee prosthetic joint infections. *Journal of Orthopaedic Surgery (Hong Kong)*. 2019 May-Aug;27(2):2309499019847768. doi: 10.1177/2309499019847768. (SCI, IF= 1.6, Orthopedics 59/86)

18. Chun-Yu Hung, Chih-Hsiang Chang, Yu-Chih Lin, Sheng-Hsun, Lee, Szu-Yuan Chen, Pang-Hsin Hsieh*. Predictors for Unfavorable Early Outcomes in Elective Total Hip Arthroplasty: Does Extreme Body Mass Index Matter? *Biomed Research International*. 2019 Oct 7;2019:4370382. doi: 10.1155/2019/4370382. eCollection 2019. (SCI, IF= 3.246, Biotechnology & applied microbiology 90/159)

19. Yu-Chih Lin, Sheng-Hsun Lee, I-Jung Chen, Chih-Hsiang Chang, Chee-Jen Chang, Yi-Chun Wang, Yuhan Chang, Pang-Hsin Hsieh*. Symptomatic pulmonary embolism after hip fracture: a nationwide study. *Thrombosis Research*. 2018 Dec;172:120-127. doi: 10.1016/j.thromres.2018.10.014. (SCI, IF= 7.5, Peripheral vascular disease 9/68)

20. Sheng-Hsun Lee, I-Jung Chen, Ya-Hsin Li, Chih-Yun Fan Chiang, Chih-Hsiang Chang, Pang-Hsin Hsieh*. Incidence of second hip fractures and associated mortality in Taiwan: A nationwide population-based study of 95,484 patients during 2006-2010. *Acta Orthop Traumatol Turc*. 2016, 50: 437-442. (SCI, IF= 1.0, Orthopedics 90/130)

21. Sheng-Hsun Lee, Ching-Lung Tai, Szu-Yuan Chen, Chih-Hsiang Chang, Yu-Han Chang, Pang-Hsin Hsieh*. Elution and mechanical

strength of vancomycin-loaded bone cement: in vitro study of the influence of brand combination. *PLoS One*. 2016. DOI:10.1371/journal.pone.0166545. (SCI, IF= 3.7, Multidisciplinary sciences 26/37)

22. Tsung-Ting Tsai*, Sheng-Hsun Lee, Chi-Chien Niu, Po-Liang Lai, Lih-Huei Chen, Wen-Jer Chen. Unplanned revision spinal surgery within a week: a retrospective analysis of surgical causes. *BMC Musculoskeletal Disorders*. 2016, 17:28. DOI 10.1186/s12891-016-0891-4. (SCI, IF= 2.3, Orthopedics 42/86)

23. Sheng-Hsun Lee, Shih-Sheng Chang, I-Jung Chen, Chun-Ying Cheng, Chih-Hao Chiu, Min-Chien Tsai, Kuo-Yao Hsu, Yi-Sheng Chan*. Clinical outcomes of medial patellofemoral ligament reconstruction using semitendinosus autograft for recurrent patellar dislocation. *Formosan Journal of Musculoskeletal Disorders*. 2014, 5: 107-116.

24. Sheng-Hsun Lee, Jian-Ming Chen, Tsung-Ting Tsai*, Chi-Chien Niu, Lih-Huei Chen, Wen-Jer Chen. Anti-adhesive Effect of Hyaluronate in a Rabbit Laminectomy Model. *Biomedical Journal*. 2014, 37: 218-224. (SCI, IF= 5.5, Medicine, Research, and Experimental 38/136)

Presentations

1. Percutaneous endoscopic debridement and drainage in immunocompromised patients with complicated infective spondylitis. The combined academic conference of 16th triennial congress of the Asia Pacific Orthopaedic Association and 59th Annual meeting of Taiwan Orthopaedic Association, 2010-11-05.
2. Treatment of AO-OTA type C distal humeral fractures. 61st annual meeting of Taiwan Orthopaedic Association, 2011-10-30.
3. Unexpected repeated spinal surgery within one week: Analysis of Cause and Risk Factors. 62nd annual meeting of Taiwan Orthopaedic Association, 2012-04-21.
4. Finite element analysis of stress from hip implants with different head sizes. 63rd annual meeting of Taiwan Orthopaedic Association, 2012-10-28.
5. Clinical outcomes of medial patellofemoral ligament reconstruction using semitendinosus autograft for recurrent patellar dislocation. 65th annual meeting of Taiwan Orthopaedic Association, 2013-10-26.
6. Case discussion, Chang Gung Hip and Knee Course, 2014-09-27.
7. Case discussion, Chang Gung Hip and Knee Course, 2015-03-21.
8. Liquid antibiotic in bone cement—an effective way to improve the efficiency of antibiotic release in antibiotic loaded bone cement, 34th annual meeting of the European Bone & Joint Infection Society, 2015-09-10.
9. Surgical approaches to the knee, Chang Gung Hip and Knee Course, 2015-10-02.
10. Must-read papers in total hip arthroplasty, Hip Instructional Workshop, 2016-10-01.
11. Preliminary biomechanical study of a novel acetabular reinforcement device, 71st annual meeting of Taiwan Orthopaedic Association, 2016-10-22.
12. Surgical treatment of hip periprosthetic joint infection, Cross National Orthopaedic Expertise Meeting, 2017-12-09.
13. Anterolateral approach to hip joint, Hip Instructional Workshop, 2017-09-16.
14. Aseptic loosening of revision total knee arthroplasty, Chang Gung Hip and Knee Course, 2018-06-08.
15. Difficult primary TKA and THA in CGMH, Chang Gung Hip and Knee Course, 2015-11-20.
16. Current concept of PJI diagnosis, Chang Gung Hip and Knee Course, 2019-06-21.



Peter, Sheng-Hsun Lee, MD, PhD

SECTION 2

17. Difficult primary TKA, Master Knee Symposium, 2019-11-23.
18. Medical consideration and patient expectation in THA, Hip Instructional Course, 2019-12-28.
19. THA in ankylosing hips, Annual Meeting of Joint Reconstruction Society, ROC, 2020-02-15.
20. Evaluation & management of extra-articular anterior hip pain, 4th annual congress of ASHA, 2023-09-09.



Tsung-Li Lin, MD, PhD
林宗立 醫師

Education

- MD School of Medicine, Fu Jen Catholic University
- PhD Graduate Institute of Biomedical Sciences, China Medical University

Academic appointments

- Assistant professor, Department of Sports Medicine, College of Health Care, China Medical University, Taichung, Taiwan

Service

- Attending physician, Department of Orthopedic Surgery, China Medical University Hospital, Taichung

姓名：林宗立

學歷：輔仁大學醫學士

中國醫藥大學生物醫學研究所博士

部定教職：中國醫藥大學運動醫學系助理教授

服務：中國醫藥大學附設醫院骨科部主治醫師

SECTION 2

SECTION 2



Prof. Nilo Paner

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npaner@up.edu.ph

Fellow, Philippine Orthopedic Association
Diplomate, Philippine Board of Orthopedics
Joint Replacement and Arthroscopy
Bone and Joint Infections
Clinical Associate Professor of Orthopedics,
University of the Philippines – Manila
College of Medicine and Philippine General Hospital

Interests / Expertise

- Degenerative Joint Disease
- Hip and Knee Arthroplasty (primary/revision) Arthroscopy (hip and knee)
- unicompartmental knee replacement, ACL reconstruction• hip resurfacing
- Bone & Joint Infections
- periprosthetic joint infection
- fracture/orthopedic device related infections
- Diabetic Foot Infections

Academic Appointment

2009-present Clinical Associate Professor,
University of the Philippines-
Manila College of Medicine and
Department of Orthopedics,

Current Position

2018-present	Country Delegate Committee member, European Bone and Joint Infection Society
2019-present	Consultant, Trauma Division, Department of Orthopedics, Philippine General Hospital
2014-present	Head, Musculoskeletal Infection Unit, Department of Orthopedics, UP-PGH
2014-present	Drug Committee, Philippine General Hospital

Research / Publication

- 2018
Delayed onset bioabsorbable screw reaction, extrusion and *Pseudomonas aeruginosa* tibial tunnel osteomyelitis, years after arthroscopic Anterior Cruciate Ligament reconstruction: a report of 2 cases
Patricia E. Dumla III, MD, Bryan Albert T. Lim, MD, Lyndon L. Bathan, MD, FPOA, Nilo Paner, MD, FPOA
Poster Presentation, 37th Meeting of European Bone and Joint Infection Society, Helsinki, Finland
BMJ Case Reports, Vol 12, Issue 9, 2019

- 2014
Outcomes of adult patients (>18 yrs old) who underwent debridement curettage and sequestrectomy and application of antibiotic beads for chronic osteomyelitis of long bones at Philippine General Hospital from 2004-2014
Jasson Louie Arcinue, MD and Nilo Paner, MD, FPOA
- 2012
Retrospective Study Comparing Acetabular Component Sizes of Total Hip Arthroplasty Based on Templates Done on AP and Lateral Radiographs and the Actual Component Size Used Among PGH Patients Who Underwent Total Hip Arthroplasty
Dante Valenzuela, MD and Nilo Paner, MD, FPOA
•3rd place, 30th Residents Research Forum
- 2008
Midterm Results of a Minimally Invasive Technique for Patellofemoral Arthroplasty
Nilo Paner, MD – Michael J. Neil, MBBS, FRACS
•Sydney, Australia
- 2007
Health Education Reform Order (HERO) www.hero.org.ph
Health Module : Accidents and Injuries in School
Edward HM Wang, MD, MSc, FPOA, Nilo Paner, MD
•A project of the Philippine College of Physicians
- 2006
A Profile of the Filipino Diabetic Foot Patient
Nilo Paner, MD, Reynaldo Ang, MD, FPOA
- 2004
Infections in Open Type I Fractures of Long Bones
Nilo Paner, MD, Edward HM Wang, MD, MSc, FPOA
•Accepted for Free Paper Presentation at Philippine Orthopedic Association Annual Convention
- 2003
Correction of Neglected Elbow Dislocations Using the Ilizarov Fixator
Nilo Paner, MD, Juanito Javier, MD, MSc, FPOA
•3rd place Resident's Research Forum



U2 MBC

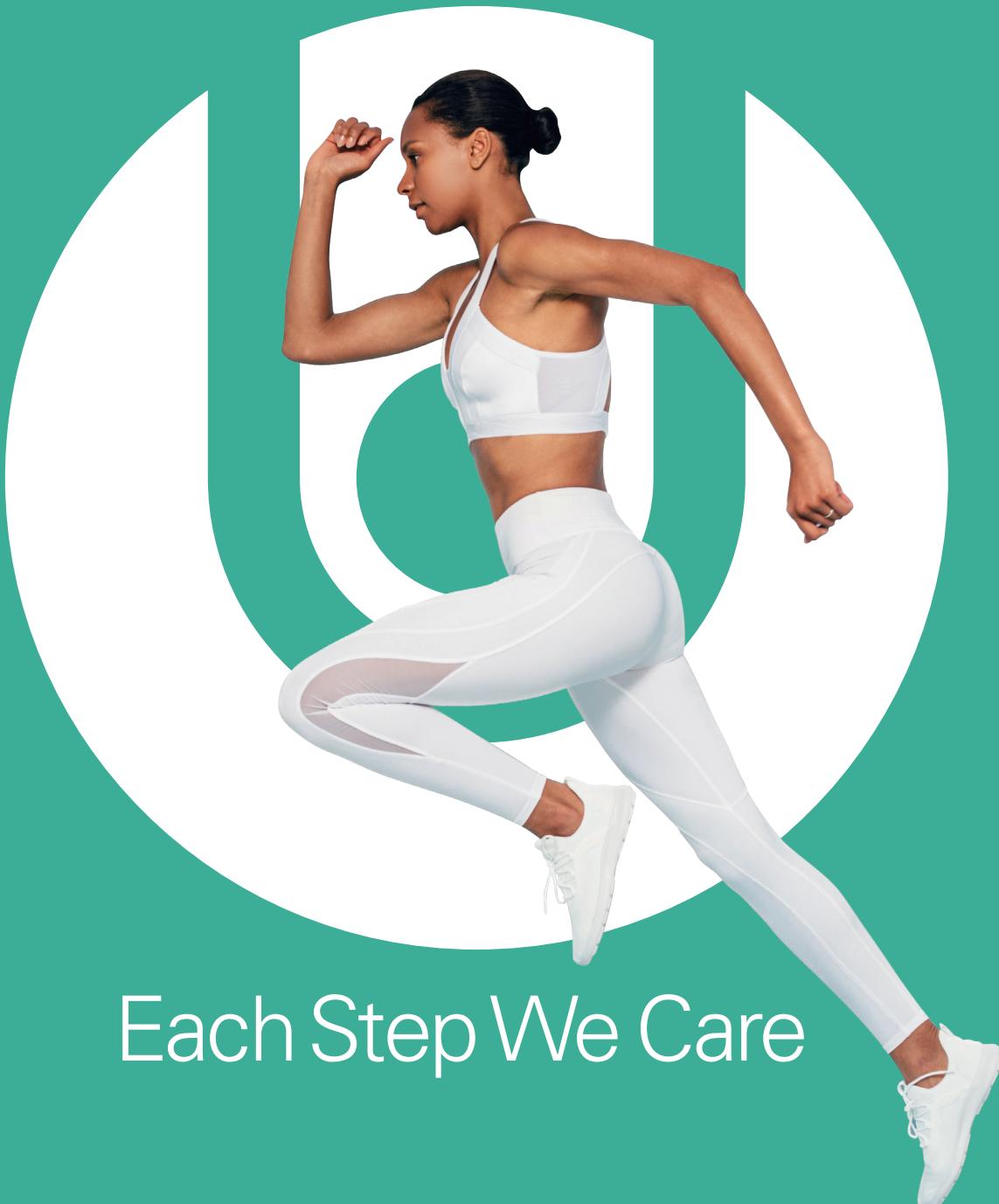
Mobile Bearing Congruent

- Use with the U2 CR femoral component
- PCL can be either retained or sacrificed
- Femoral components are offered in 2mm A/P and M/L increments
- Baseplate allows additional augments and extension stems



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我們致力聆聽醫師需求，是業界少數能垂直整合產品製程的國際企業。垂直整合讓產品的每一步關鍵製程，皆能精準掌控，妥善把關品質。逾25年來，聯合用心設計，製造出安全可信賴的產品，用多樣化產品組合，關懷世界各地的病患與照護者。

