



Asia-Pacific Musculoskeletal Infection Society



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June 8th 2025

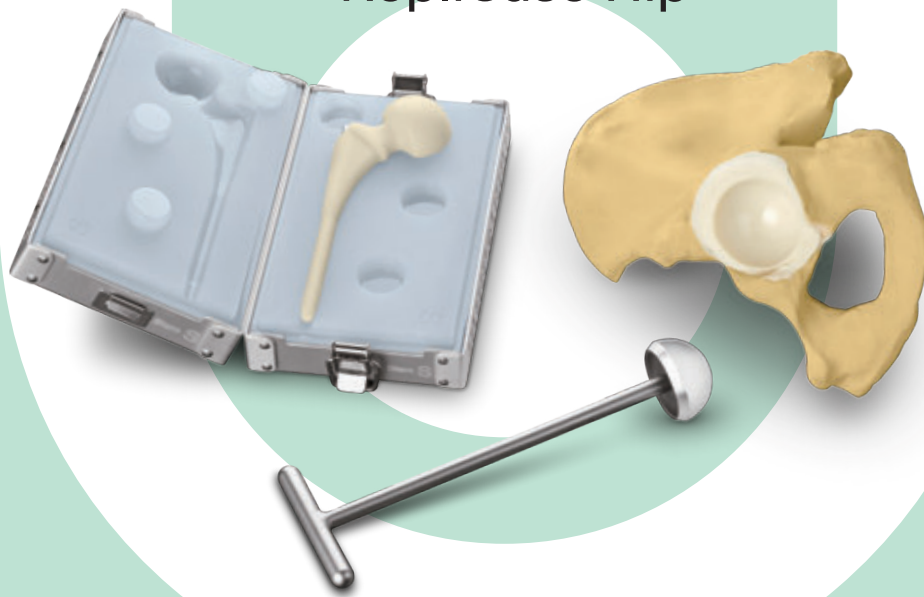
SUMMER MEETING 2025

Fullon Hotel Taoyuan Airport MRT A8



PJI SOLUTION

RepliCase Hip



Cellbrick Knee Spacer



Each Step We Care



AGENDA

08:00	Administration		
08:25 08:30	Opening	Steve WN Ueng, MD 翁文能 President of APMSIS	
08:30 08:35	Introduction of Course	Yuhan Chang, MD, PhD 張毓翰 Secretary General of APMSIS	
SESSION I			
Time	Topic	Speaker	Moderator
08:35 08:55	Long term suppression of antibiotic therapy, does it really work in bone and joint infection?	Po-Yu Liu, MD, PhD 劉伯瑜 Taichung Veterans General Hospital, Taiwan	Wang-Huei Sheng, MD, PhD 盛望徽 National Taiwan University Hospital, Taiwan
08:55 09:15	The concerns of bone and joint surgery in patients with HIV(+)	Nan-Yu Chen, MD, PhD 陳南鈺 Chang Gung Memorial Hospital, Taiwan	Chien-Hsien Huang, MD 黃建賢 Shin Kong Wu Ho-Su Memorial Hospital, Taiwan
09:15 09:45	Continuous Local Antibiotic Perfusion Therapy for bone and joint infection	Akihiro Maruo, MD, PhD 圓尾明弘 Harima-Himeji General Medical Center, Japan	Yung-Heng Hsu, MD, PhD 徐永衡 Chang Gung Memorial Hospital, Taiwan
09:45 10:05	Arthroplasty for Tuberculous Arthritis of Hip and Knee	Nilo Paner, MD, FPOA Department of Orthopedics, Philippine General Hospital, Philippines	Cheng-Fong Chen, MD 陳正豐 Taipei Veterans General Hospital, Taiwan
10:05 10:25	Discussion	Wang-Huei Sheng / Chien-Hsien Huang / Yung-Heng Hsu / Cheng-Fong Chen	
10:25 – 10:40 Coffee Break			

SESSION II. Surgical Treatment for Hip PJI

Time	Topic	Speaker	Moderator
10:40 10:55	How to do a DAIR and outcomes?	Pei-Lun Ni, MD 倪培倫 Kaohsiung Veterans General Hospital, Taiwan	Shan-Wei Yang, MD, PhD 楊善為 Kaohsiung Veterans General Hospital, Taiwan
10:55 11:10	How to do exchange arthroplasty and outcomes?	Tsung-Li Lin, MD, PhD 林宗立 China Medical University Hospital, Taiwan	Chih-Hung Hung, MD 洪誌鴻 China Medical University Hospital, Taiwan
11:10 11:25	How to reconstruct the massive femoral bone defect after hip PJI	Sung-Yen Lin, MD, PhD 林松彥 Kaohsiung Medical University Chung-Ho Memorial Hospital, Taiwan	Chung-Hwan Chen, MD, PhD 陳崇桓 Kaohsiung Medical University Chung-Ho Memorial Hospital, Taiwan
11:25 11:40	How to reconstruct the massive acetabular bone defect after hip PJI	Chih-Hsiang Chang, MD, PhD 張智翔 Chang Gung Memorial Hospital, Taiwan	Chih-Chien Hu, MD 胡志堅 Chang Gung Memorial Hospital, Taiwan
11:40 12:00	Discussion	Cheng-Fong Chen / Shan-Wei Yang / Chih-Hung Hung / Chung-Hwan Chen / Chih-Chien Hu	
12:00 –12:05 Close Remark		Steve WN Ueng, MD	

President of APMSIS



翁文能
**Steve Wen-Neng
Ueng, M.D.**

- 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

- | | |
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| • Asia Pacific Musculoskeletal Infection Society | President (2023.10 – Now) |
| • Chang Gung Memorial Hospital-Linkou | Emeritus Superintendent
(2016.07 – 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) |
| • Chang Gung Memorial Hospital | Board of Directors
(2016.11 – 2024.11) |
| • Chang Gung Steering Committee | Vice-Chairman (2015.01 – 2016.06) |
| • Taiwan Orthopaedic Association | President (2014.10 – 2016.11) |
| • Chang Gung Memorial Hospital | Superintendent (2012.02 – 2016.06) |
| • Taiwan Medical Center Association | President (2012.06 – 2016.06) |
| • Association of Hyperbaric and Undersea Medicine, ROC | President (2012.06 – 2014.06) |

Secretary General of APMSIS



張毓翰
Yuhan Chang
M.D, Ph.D.

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Current Position

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

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

Training Background

- M.D., Medical School of Chung-Shan Medical University, Taichung, Taiwan (1986~1993)
- Ph.D., Graduate Institute of Clinical Medical Sciences, Chang Gung University, Taoyuan, Taiwan (2002~2008)
- Resident of Department of Surgery, Chang Gung Memorial Hospital, Linkou, Taiwan (1995 ~ 1999)
- Visiting Staff of Department of Orthopaedic Surgery, Chang Gung Memorial Hospital, Linkou, Taiwan (2000 ~ till now)
- Research Associate, Skeletal Research Center, Case Western Reserve University, Cleveland, Ohio, USA (2004 ~ 2006)
- Clinical Fellow, Department of Orthopaedic Surgery, University Hospitals of Cleveland, Ohio, USA (2004 ~ 2006)



劉伯瑜
**Po-Yu Liu, M.D,
Ph.D.**

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Title and Affiliation

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Education

- Ph.D., National Chung Hsing University, Taichung, Taiwan (2009-2013)
- M.D., Chung Shan Medical University, Taichung, Taiwan (1992-1999)
- Visiting Scholar, Lawrence Berkeley National Laboratory, Berkeley, CA, USA (2014-2015)

Board Certifications

- Infectious Diseases, Taiwan (2008)
- Emergency Medicine, Taiwan (2006)
- Internal Medicine, Taiwan (2004)
- Diplomat, National Board of Medical Examiners, Taiwan (1999)

Professional Memberships

- American Society for Microbiology
- European Society of Clinical Microbiology and Infectious Diseases
- Taiwan Society of Internal Medicine
- Taiwan Medical Association
- Infectious Diseases Society of Taiwan
- Taiwan Society of Emergency Medicine

Selected Publications

1. Chen, Yung-Chun, Yu-Chieh Liao, Y. Mao, Ting-Kuang Yeh and Po-Yu Liu, "Tracing the footprints of MPXV in Asia: phylogenetic insights and lineage dynamics", *Sex Transm Infect* 2024;100:384–7.
2. Huang, Yao-Ting and Po-Yu Liu, "Emergence of carbapenem resistance in persistent *Shewanella* algae bacteremia: the role of pdsS G547W mutation in adaptive subpopulation dynamics", *Ann Clin Microbiol Antimicrob* 2024;23:102.
3. Liu, Po-Yu, Han-Chieh Wu, Ying-Lan Li, Hung-Wei Cheng, Ci-Hong Liou, Feng-Jui Chen and Yu-Chieh Liao, "Comprehensive pathogen identification and antimicrobial resistance prediction from positive blood cultures using nanopore sequencing technology", *Genome Med* 2024;16.
4. Huang, Yao-Ting, Yan-Chiao Mao, Chien-Hao Tseng, Chia-Wei Liu and Po-Yu Liu, "Identification of combinatorial mutations associated with colistin resistance in *Shewanella* algae", *Microbes Infect* 2023;25:105143.
5. Liu, Po-Yu, Wen-Chien Ko, Wen-Sen Lee, Po-Liang Lu, Yen-Hsu Chen, Shu-Hsing Cheng, Min-Chi Lu, Chi-Ying Lin, Ting-Shu Wu, Muh-Yong Yen, Lih-Shinn Wang, Chang-Pan Liu, Pei-Lan Shao, Yu-Lin Lee, Zhi-Yuan Shi, Yao-Shen Chen, Fu-Der Wang, Shu-Hui Tseng, Chao-Nan Lin, Yu-Hui Chen, Wang-Huei Sheng, Chun-Ming Lee, Hung-Jen Tang and Po-Ren Hsueh, "In vitro activity of cefiderocol, cefepime/enmetazobactam, 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", *J Microbiol Immunol Infect* 2022;55:888–95.
6. Huang, Yao-Ting, Po-Yu Liu and Pei-Wen Shih, "Homopolish: a method for the removal of systematic errors in nanopore sequencing by homologous polishing", *Genome Biol* 2021;22:95. <https://doi.org/10.1186/s13059-021-02282-6>.
7. Li, Shu-Yuan, Yin-En Huang, Jhih-Yang Chen, Chung-Hsu Lai, Yan-Chiao Mao, Yao-Ting Huang and Po-Yu Liu, "Genomics of *Ochrobactrum pseudogrignonense* (newly named *Brucella pseudogrignonensis*) reveals a new blaOXA subgroup", *Microb Genom* 2021;7:000626.
8. Liu, Po-Yu, Yu-Lin Lee, Min-Chi Lu, Pei-Lan Shao, Po-Liang Lu, Yen-Hsu Chen, Shu-Hsing Cheng, Wen-Chien Ko, Chi-Ying Lin, Ting-Shu Wu, Muh-Yong Yen, Lih-Shinn Wang, Chang-Pan Liu, Wen-Sen Lee, Yao-Shen Chen, Fu-Der Wang, Shu-Hui Tseng, Chao-Nan Lin, Hung-Jen Tang, Yu-Hui Chen, Wang-Huei Sheng, Chun-Ming Lee, Ming-Huei Liao and Po-Ren Hsueh, "National surveillance of antimicrobial susceptibility of bacteremic gram-negative bacteria with emphasis on community-acquired resistant isolates: Report from the 2019 surveillance of multicenter antimicrobial resistance in Taiwan (SMART)", *Antimicrob Agents Chemother* 2020;64:10.1128/aac.01089-20.
9. Huang, Yao-Ting, Jan-Fang Cheng, Zong-Yen Wu, Kwong-Chung Tung, Ying-Ju Chen, Yu-Kai Hong, Shi-Yu Chen and Po-Yu Liu, "Genomic and phylogenetic characterization of *Shewanella xiamenensis* isolated from giant grouper (*Epinephelus lanceolatus*) in Taiwan", *Zoonoses Public Health* 2019;66:679–85.
10. Wu, Zong-Yen, Yao-Ting Huang, Wen-Cheng Chao, Shu-Peng Ho, Jan-Fang Cheng and Po-Yu Liu, "Reversal of carbapenem-resistance in *Shewanella* algae by CRISPR/Cas9 genome editing", *J Adv Res* 2019;18:61–9.

MODERATOR



盛望徽
Sheng Wang-
Huei, M.D., Ph.D.

Current Position

- Chairperson, School of Medicine, National Taiwan University College of Medicine
- Professor, Department of Medicine, National Taiwan University College of Medicine
- Vice Superintendent, National Taiwan University Hospital Hsin-Chu Branch

EDUCATION (MOST RECENT DEGREE FIRST)

- 2000-2007 Ph.D., Institute of Medicine, National Taiwan University
- 1985-1992 M.D., School of Medicine, Taipei Medical University

PROFESSIONAL EXPERIENCE (MOST RECENT POSITION FIRST)

- 2024-Present Vice Superintendent, National Taiwan University Hospital Hsin-Chu Branch
- 2024-Present Member, Taiwan Medical Accreditation Council
- 2020-Present Chairperson, School of Medicine, National Taiwan University
- 2018-2024 Director, Department of Medical Education, National Taiwan University Hospital
- 2001-Present Attending Physician, Internal Medicine, National Taiwan University Hospital
- 2001-2002 AIDS Research Center, Department of Health, Executive Yuan, Taiwan

PUBLICATION

1. Huang CF, Yang JL, Chuang YC, Sheng WH. Evaluating Risk Factors for Clinical Failure Among Tigecycline-Treated Patients. *Infect Drug Resist.* 2024 Dec 4;17:5387-5393.
2. Chen KH, Sun HY, Chen CH, Chuang YC, Huang YS, Liu WD, Hsieh SM, Sheng WH, Cheng A, Wu TY, Lin KY, Hung CC. Higher Serologic Responses of Early Syphilis to Single-dose Benzathine Penicillin G Plus Doxycycline Versus Single-dose Benzathine Penicillin G Alone Among People With HIV. *Clin Infect Dis.* 2024 Nov 22;79(5):1308-1315.
3. Wang CH, Porta L, Yang TK, Wang YH, Wu TH, Qian F, Han YY, Sheng WH, Chen SC, Lee CC, Chang SC. Optimal methods of vitamin D supplementation to prevent acute respiratory infections: a systematic review, dose-response and pairwise meta-analysis of randomized controlled trials. *Nutr J.* 2024 Aug 14;23(1):92.
4. Liu WD, Lin MS, Sun HY, Shih MC, Chuang YC, Huang YS, Lin KY, Li GC, Wu PY, Chen LY, Liu WC, Su YC, He PC, Chen YT, Lin CY, Cheng YC, Yao Y, Yeh YC, Liu CC, Pan MY, Luo YZ, Chang HY, Wang JT, Sheng WH, Hsieh SM, Chang SY, Hung CC. Effectiveness and evolution of anti-SARS-CoV-2 spike protein titers after three doses of COVID-19 vaccination in people with HIV. *J Microbiol Immunol Infect.* 2024 Aug;57(4):554-563.
5. Liu WD, Feng PH, Cheng CY, Chou CL, Lee CH, Lu MC, Liu PY, Lee MH, Liao CH, Chen MC, Chen CP, Hsu SF, Tzeng YT, Lin YC, Ou TY, Qin A, Tsai CY, Shih WJ, Lee KY, Sheng WH*. A Phase 3, Randomized, Controlled Trial Evaluating the Efficacy and Safety of Roppeginterferon Alfa-2b in Patients with Moderate COVID-19. *Infect Dis Ther.* 2024 Jul;13(7):1575-1588.

6. Chang HH, Lee YH, Huang KC, Chan DC, Lin YC, Sheng WH, Lee LT, Huang LM. Implication of genotypes for prognosis of *Candida glabrata* bloodstream infections. *J Formos Med Assoc.* 2024 Jul 10:S0929-6646(24)00303-6.
7. Liu WD, Wang JT, Shih MC, Chen KH, Huang ST, Huang CF, Chang TH, Tsai MJ, Kuo PH, Yeh YC, Tsai WC, Pan MY, Li GC, Chen YJ, Lin KY, Huang YS, Cheng A, Chen PY, Pan SC, Sun HY, Ku SC, Chang SY, Sheng WH, Fang CT, Hung CC, Chen YC, Ho YL, Wu MS, Chang SC. Effect of early dexamethasone on outcomes of COVID-19: A quasi-experimental study using propensity score matching. *J Microbiol Immunol Infect.* 2024 Jun;57(3):414-425.
8. Wu TY, Tsai WT, Chen KH, Huang ST, Huang CF, Kuo PH, Tsai MJ, Liu WD, Lin KY, Huang YS, Cheng A, Chen PY, Sun HY, Huang HH, Huang TC, Wu SJ, Yao M, Wang JT, Sheng WH, Hung CC, Chen YC, Chang SC. Clinical manifestations and risk factors for COVID-19 and its severity in patients with hematological malignancies. *J Microbiol Immunol Infect.* 2024 Jun;57(3):403-413.
9. Ma WL, Liu WD, Sun HY, Sheng WH, Hsieh SM, Wu SJ, Hung CC. Complete response to front-line therapies is associated with long-term survival in HIV-related lymphomas in Taiwan. *J Microbiol Immunol Infect.* 2024 Jun;57(3):426-436.
10. Huang YS, Yang JL, Wang JT, Sheng WH, Yang CJ, Chuang YC, Chang SC. Evaluation of the synergistic effect of eravacycline and tigecycline against carbapenemase-producing carbapenem-resistant *Klebsiella pneumoniae*. *J Infect Public Health.* 2024 May;17(5):929-937.
11. Chen RT, Liu CY, Lin SY, Shu CC, Sheng WH. The prevalence, clinical reasoning and impact of non-standard anti-tuberculosis regimens at the initial prescription. *Sci Rep.* 2024 Mar 7;14(1):5631.
12. Kang VJ, Huang YS, Chen MC, Chiang PY, Sheng WH, Wang HC, Wang TC, Chang YC. CT findings of 144 in-hospital patients with influenza pneumonia: A retrospective analysis. *J Formos Med Assoc.* 2024 Mar;123(3):381-389.
13. Chen KL, Huang YM, Huang CF, Sheng WH, Chen YK, Shen LJ, Wang CC. Impact of an integrated medication management model on the collaborative working relationship among healthcare professionals in a hospital: an explanatory mixed methods study. *J Interprof Care.* 2024 Mar-Apr;38(2):220-233.
14. Sheng WH, Lin PH, Cheng YC, Wu YY, Hsieh MJ, Yang HC, Chang SY, Chang SC. Immunogenicity and safety of heterologous booster with protein-based COVID-19 vaccine (NVX-CoV2373) in healthy adults: A comparative analysis with mRNA vaccines. *J Formos Med Assoc.* 2024 Mar;123(3):340-346.
15. Liu WD, Hou HA, Li KJ, Qin A, Tsai CY, Sheng WH*. Study Protocol of a Randomized Controlled Clinical Trial to Evaluate the Efficacy and Safety of Ropeginterferon Alfa-2b in COVID-19 Patients with Comorbidities. *Adv Ther.* 2024 Feb;41(2):847-856.
16. Chang HC, Su TH, Huang YT, Hong CM, Sheng WH, Hsueh PR, Kao JH. Liver dysfunction and clinical outcomes of unvaccinated COVID-19 patients with and without chronic hepatitis B. *J Microbiol Immunol Infect.* 2024 Feb;57(1):55-63.
17. Sheng WH, Hsieh SM, Chang SC. Achievements of COVID-19 vaccination programs: Taiwanese perspective. *J Formos Med Assoc.* 2024 Jan;123 Suppl 1:S70-S76.
18. Chang HC, Chang CH, Tien KL, Tai CH, Lin LM, Lee TF, Ku SC, Fang CT, Chen YC, Sheng WH*. Impact of coronavirus disease 2019 (COVID-19) on antimicrobial resistance among major pathogens causing healthcare-associated infection. *J Formos Med Assoc.* 2024 Jan;123(1):123-132.
19. Yuan CT, Huang WT, Hsu CL, Wang H, Pan YH, Wu UI, Wang JT, Sheng WH, Chen YC, Chang SC. CXCL9 as a Reliable Biomarker for Discriminating Anti-IFN- γ -Autoantibody-Associated Lymphadenopathy that Mimics Lymphoma. *J Clin Immunol.* 2023 Dec 28;44(1):35. doi: 10.1007/s10875-023-01643-z.
20. Lui GC, Wong GL, Yang HC, Sheng WH, Lee SH. Current practice and recommendations for management of hepatitis B virus in people living with HIV in Asia. *HIV Med.* 2023 Oct;24(10):1035-1044.

21. Chen GJ, Sun HY, Chang SY, Hsieh SM, Sheng WH, Chuang YC, Huang YS, Lin KY, Liu WC, Su YC, Hung CC. Effectiveness of second-generation integrase strand-transfer inhibitor-based regimens for antiretroviral-experienced people with HIV who had viral rebound. *J Microbiol Immunol Infect.* 2023 Oct;56(5):988-995.
22. Chang TH, Wu CH, Chen PY, Ho SY, Chung MY, Sheng WH, Lu CY, Yen TY, Chen JM, Lee PI, Tang HJ, Ho CH, Chang LY, Chen YC, Huang LM. Viral dynamics of SARS CoV-2 Omicron infections in a previously low COVID-19 prevalence region: Effect of vaccination status, antiviral agents, and age. *J Formos Med Assoc.* 2023 Sep;122(9):872-879.
23. Kang VJ, Huang YS, Chen MC, Chiang PY, Sheng WH, Wang HC, Wang TC, Chang YC. CT findings of 144 in-hospital patients with influenza pneumonia: A retrospective analysis. *J Formos Med Assoc.* 2023 Aug 26:S0929-6646(23)00336-4.
24. Chen KH, Sun HY, Chen CH, Chuang YC, Huang YS, Liu WD, Hsieh SM, Sheng WH, Cheng A, Wu TY, Lin KY, Hung CC. Higher serologic responses of early syphilis to single-dose benzathine penicillin G plus doxycycline versus single-dose benzathine penicillin G alone among people with HIV. *Clin Infect Dis.* 2023 Aug
25. Hsu NC, Huang CC, Hsu CH, Wang TD, Sheng WH. Does Hospitalist Care Enhance Palliative Care and Reduce Aggressive Treatments for Terminally Ill Patients? A Propensity Score-Matched Study. *Cancers (Basel).* 2023 Aug 4;15(15):3976.
26. Chen PY, Wang JT, Chang SY, Hung CC, Fang CT, Cheng A, Liu WD, Huang YS, Lin KY, Sun HY, Pan SC, Cheng YC, Wang HY, Sheng WH, Chen YC, Ho YL, Wu MS, Chang SC. Factors associated with viral rebound among COVID-19 patients receiving oral antivirals. *J Formos Med Assoc.* 2023 Aug;122(8):766-775.
27. Sheng WH*, Chang HC, Chang SY, Hsieh MJ, Chen YC, Wu YY, Pan SC, Wang JT, Chen YC. SARS-CoV-2 infection among healthcare workers whom already received booster vaccination during epidemic outbreak of omicron variant in Taiwan. *J Formos Med Assoc.* 2023 May;122(5):376-383.
28. Cheng A, Hsieh MJ, Chang SY, Ieong SM, Cheng CY, Sheng WH*, Chang SC. Correlation of adverse effects and antibody responses following homologous and heterologous COVID19 prime-boost vaccinations. *J Formos Med Assoc.* 2023 May;122(5):384-392.
29. Cheng A, Sheng WH*, Chang SC. Correlation of adverse effects and antibody responses following homologous and heterologous COVID-19 prime-boost vaccinations. *J Formos Med Assoc.* 2023 May;122(5):434-435.
30. Huang CF, Wang JT, Chuang YC, Sheng WH, Chen YC. In vitro susceptibility of common Enterobacteriales to eravacycline in Taiwan. *J Microbiol Immunol Infect.* 2023 Apr;56(2):358-366.
31. Huang SP, Chen CB, Wei TZ, Tsai WT, Liou CY, Mao YM, Sheng WH, Mao SG. Range-Extension Algorithms and Strategies for TDOA Ultra-Wideband Positioning System. *Sensors (Basel).* 2023 Mar 13;23(6):3088.
32. Pu YC, Chou HC, Huang CT, Sheng WH. Readmission outcomes following infectious hospitalization: same-care unit performed better than different-care unit. *BMC Health Serv Res.* 2023 Mar 10;23(1):236.
33. Chen KH, Liu WD, Sun HY, Lin KY, Hsieh SM, Sheng WH, Chuang YC, Huang YS, Cheng A, Hung CC. Immune Reconstitution Inflammatory Syndrome in People Living with HIV Who Presented with Interstitial Pneumonitis: an Emerging Challenge in the Era of Rapid Initiation of Antiretroviral Therapy. *Microbiol Spectr.* 2023 Mar 6;11(2):e0498522.
34. Sheng WH, Ieong SM, Lin PH, Hsieh MJ, Yang HC, Pan CF, Chao TL, Chang SY, Chang SC. Immunogenicity and safety of third-dose mRNA COVID-19 vaccines in healthy adults previously vaccinated with two doses of the ChAdOx1 vaccine. *J Formos Med Assoc.* 2023 Feb;122(2):121-131.
35. Sheng WH, Chang SY, Hsieh MJ, Ieong SM, Chang SC. Serological response and safety of heterologous ChAdOx1-nCoV-19/mRNA-1273 prime-boost vaccination with a twelve-week interval. *J Formos Med Assoc.* 2023 Feb;122(2):187-191.
36. Sheng WH, Wang CC, Chu CC, Lin YJ, Chang SY, Ieong SM, Chang SC. Safety and antibody response of

- recipients who unexpectedly received undiluted prime dose of BNT162b2 COVID-19 vaccine in Taiwan. *J Formos Med Assoc.* 2023 Jan;122(1):78-81.
37. Sheng WH, Chang SC. Response to comments on "Serological response and safety of heterologous ChAdOx1-nCoV-19/mRNA-1273 prime-boost vaccination". *J Formos Med Assoc.* 2023 Jan;122(1):83.
 38. Liu WD, Pang MW, Wang JT, Sun HY, Huang YS, Lin KY, Wu UI, Li GC, Liu WC, Su YC, He PC, Lin CY, Yeh CY, Cheng YC, Yao Y, Chen YT, Wu PY, Chen LY, Luo YZ, Chang HY, Sheng WH, Hsieh SM, Chang SY, Hung CC, Chang SC. Evolution of anti-SARS-CoV-2 spike protein titers after two-dose of COVID-19 vaccination among people living with HIV. *J Virus Erad.* 2022 Dec;8(4):100308.
 39. Chou YC, Lin YJ, Shie SS, Tsai HB, Sheng WH. A major outbreak of the COVID-19 on the Diamond Princess cruise ship: Estimation of the basic reproduction number. *J Chin Med Assoc.* 2022 Dec 1;85(12):1145-1153.
 40. Lin KY, Hsieh MJ, Chang SY, leong SM, Cheng CY, Sheng WH, Chang SC. Serological response after COVID-19 mRNA-1273 booster dose in immunocompromised patients, Taiwan, July to August 2021. *J Formos Med Assoc.* 2022 Dec;121(12):2438-2445.
 41. Chen GJ, Sun HY, Chang SY, Su LH, Chen YT, Hsieh SM, Liu WD, Sheng WH, Huang YS, Lin KY, Su YC, Liu WC, Hung CC. Sexually-transmitted hepatitis C virus reinfections among people living with HIV in Taiwan: the emerging role of genotype 6. *Emerg Microbes Infect.* 2022 Dec;11(1):1227-1235.
 42. Chen GJ, Ho SY, Su LH, Chang SY, Hsieh SM, Sheng WH, Liu WD, Huang YS, Lin KY, Chen YT, Su YC, Liu WC, Sun HY, Hung CC. Hepatitis C microelimination among people living with HIV in Taiwan. *Emerg Microbes Infect.* 2022 Dec;11(1):1664-1671.
 43. Yang JL, Yang CJ, Chuang YC, Sheng WH, Chen YC, Chang SC. Association of capsular polysaccharide locus 2 with prognosis of *Acinetobacter baumannii* bacteraemia. *Emerg Microbes Infect.* 2022 Dec;11(1):83-90.
 44. Wang JT, Yang CJ, Yang JL, Lin SW, Chuang YC, Sheng WH, Chen YC, Chang SC. A High Daptomycin Dose Is Associated with Better Bacterial Clearance in Infections Caused by Vancomycin-Resistant *Enterococcus faecium* Regardless of Daptomycin Minimum Inhibitory Concentration in a Rat Infective Endocarditis Model. *Microbiol Spectr.* 2022 Oct 26;10(5):e0255122.
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 46. Wang CC, Li HJ, Shao CH, Sheng WH. Potential or contraindicated drug-drug interactions with antiretroviral therapy in real-world settings in Taiwan. *J Formos Med Assoc.* 2022 Sep;121(9):1714-1720.
 47. Huang YC, Sun HY, Sheng WH, Hsieh SM, Huang SH, Chen GJ, Liu WD, Chang SY, Su YC, Su LH, Liu WC, Hung CC. Evolution of Hepatitis B Virus (HBV) Serologic Markers Among Antiretroviral-Naive Young People Living With Human Immunodeficiency Virus Who Had Undergone Neonatal HBV Vaccination and Initiated Antiretroviral Therapy. *Clin Infect Dis.* 2022 Sep 14;75(5):882-889.
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- Novel treatment strategies for HIV/AIDS

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- HIV/AIDS Treatment

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Attending Physician

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Medical Credentials

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Medical training

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- April 1998 – May 1999: Resident, Department of Orthopedic Surgery Meiwa Hospital Nishinomiya, Japan
- April 1999 – April 2001: Research Fellow, Department of Orthopedic research, Mayo Clinic, Rochester Minnesota, USA

Working activities

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Education and professional experience

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- Diplomat Taiwan Orthopaedic Association
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- Diplomat Taiwan Orthopaedic Trauma Association
- 2002~2007 Resident, Orthopedic Department Chang Gung Memorial Hospital
- 2011~2018 Ph.D. program, Graduate Institute of Mechanical Engineering, Chang Gung University
- 1992~1999 Medical Degree (MD), School of Medicine, Department of Medicine, China Medical Collage, Taichung

Present Specialty

- Orthopedic traumatology, Joint reconstruction, Periprosthetic joint infection, Chronic osteomyelitis.

Publication

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44. Yu YH, Hsu YH, Chou YC, Tseng IC, Su CY, Wu CC (2017, Jan). Surgical treatment for Pipkin type IV femoral head fracture. *J Orthop Surg (Hong Kong)*.
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47. Ying-Chao Chou, Yung-Heng Hsu, Yi-Hsun Yu, Chi-Chuan Wu (2016, Jun). Triceps-reflecting anconeus pedicle approach with double precontoured locking plate fixation is efficient in the treatment of orthopaedic trauma association type C distal humerus fracture. *Injury*, 47 (2016) 2240-2246.
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52. Ying-Chao Chou, Yi-Shiun Chen, Yung-Heng Hsu, Yi-Hsun Yu, Shih-Jung Liu (2016, Jan). Biodegradable nanofiber-membrane for sustainable release of lidocaine at the femoral fracture site as a periosteal block: In vitro and in vivo studies in a rabbit model. *Colloids and Surfaces B: Biointerfaces*, 140 (2016) 332-341.
53. Yung-Heng Hsu, Dave Wei-Chih Chen, Chun-Der Tai, Ying-Chao Chou, Shih-Jung Liu, Steve Wen-Neng Ueng, Err-Cheng Chan (2014, Sep). Biodegradable drug-eluting nanofiber-enveloped implants for sustained release of high bactericidal concentrations of vancomycin and ceftazidime: in vitro and in vivo studies. *International Journal of Nanomedicine*, 2014:9 4347-4355.
54. Chen Dave W., Hsu YH, Liao JY, Liu SJ, Chen JK, Ueng S WN (2012, Apr). Sustainable Release of Vancomycin, Gentamicin and Lidocaine from Novel Electrospun Sandwich-structured PLGA/collagen Nanofibrous Membranes.. *Int J Pharmaceutics*, 430: 335-341, 2012.
55. Chou YC, Hsu YH, Cheng CY, Wu CC (2012, Apr). Percutaneous Screw and Axial Kirschner Wire Fixation for Acute Transscaphoid Perilunate Fracture Dislocation. *J Hand Surg*, 37-A:715-720.
56. Ying-Chao Chou, Alvin Chao-Yu Chen, Chun-Ying Chen, Yung-Heng Hsu, Chi-Chuan Wu. (2011, Feb). Dorsal and volar 2.4-mm titanium locking plate fixation for AO Type C3 dorsally comminuted distal radius fractures. *J Hand Surg. (SCI)*.
57. Chi-Lung Chen, Yung-Heng Hsu, Chi-Chuan Wu, Kuo-Fun Fan, I-Chuan Tseng, Po-Cheng Lee (2010, Mar). Surgical treatment of metastatic lesions with or without pathologic fractures in proximal femurs. *J. Orthop Surg Taiwan*.
58. Chou YC, Wu CC, Chan YS, Chang CH, Hsu YH, Huang YC (2010, Jan). Medial Gastrocnemius Muscle Flap for Treating Wound Complications after Double-plate Fixation via Two-incision Approach for Complex Tibial Plateau Fractures. *J Trauma*, 68: 138-145, Jan. 2010.
59. Yung-Heng Hsu, Chi-Chuan Wu, MD, Kuo-Fun Feng, I-Chuan Tseng, Po-Cheng Lee, Ying-Chao Chou (2007, Jun). Comparison of Intracapsular Femoral Neck and Intertrochanteric Fractures: Surgical Outcomes and Comparison of intracapsular femoral neck and intertrochanteric fractures: surgical outcomes and quality of life in elderly patients. *J. Orthop Surg Taiwan*.



**Nilo Paner, M.D,
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Academic/Professional Status

- Clinical Associate Professor of Orthopedics, University of the Philippines - College of Medicine
- Fellow, Philippine Orthopaedic Association

Current Position

- Lead Consultant, Arthroplasty and Lower Limb Reconstruction Service, UP-PGH Department Orthopedics
- Lead Consultant, Musculoskeletal Infection Unit, UP-PGH Department Orthopedics
- Immediate Past President, Philippine Hip and Knee Society (PHKS)
- Country delegate (Philippines), European Bone & Joint Infection Society (EBJIS)

Medical College/University

University of Sto Tomas, Faculty of Medicine and Surgery, Manila

Residency training

University of the Philippines-Philippine General Hospital, Department of Orthopedics

Fellowship Training

- St Vincent's Clinic, Sydney, Australia (Joint Replacement Surgery)
- Bone Infection Unit, Nuffield Orthopaedic Centre, Oxford, UK (Bone and Joint Infections)

Subspecialties/ Special Interests

- Bone and Joint Infections
- Hip and Knee Arthroplasty

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Current Position

- Surgeon, Division of Joint Reconstruction, Department of Orthopaedics and Traumatology, Taipei Veterans General Hospital
- Associate Professor, Department of Surgery, School of Medicine, National Yang Ming Chiao Tung University

Education

- 1990/9-1997/6 School of Medicine, National Yang-Ming University, Taipei, Taiwan

Certification and Licensure

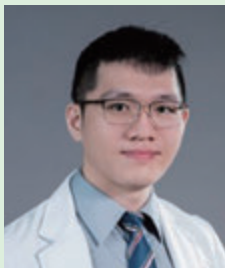
- 1997- Medical license, Taiwan,
- 2004- Board certification, Taiwan Orthopaedic Association

Post-Graduate Training

- 1996/06-1997/06 Internship, Taipei Veterans General Hospital
- 1997/09-1999/09 Residency, Department of Surgery, Yuan-Shan Veterans Hospital, I-Lan, Taiwan.
- 1999/09-2004/09 Residency, Department of Orthopaedics and Traumatology, Taipei Veterans General Hospital, Taipei, Taiwan
- 2004/09-2005/09 Fellow, Department of Orthopaedics and Traumatology, Taipei Veterans General Hospital, Taipei, Taiwan
- 2012/12~2013/12 Research fellow, Department of Orthopaedic Surgery, University of California at Irvine Medical Center, Orange, CA92868, USA
- 2014/12~2014/12 Clinical Fellow, NYU Hospital for Joint Disease, NY, USA

Professional Experiences

- 2012/10 Executive Director, Joint Reconstruction Society, ROC
- 2015/05 Chief, Division of Joint Reconstruction, Department of Orthopaedics and Traumatology, Taipei Veterans General Hospital
- 2017/07 Executive Director, Taiwan Insall Club
- 2018/10 Secretary General, Taiwan Orthopaedic Association
- 2020/10 Executive Director, Taiwan Orthopaedic Association
- 2020/10 Chairman, Joint Reconstruction Society, ROC
- 2020/10 Chairman, Taiwan Arthroplasty Education Society, TAES
- 2021/09 Chief, Surgical Management Committee of Taipei Veterans General Hospital
- 2022/02 Associate Professor, Department of Surgery, School of Medicine, National Yang Ming Chiao Tung University



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Current Position

Attending physician of Department of Orthopedics, Division of Joint Reconstruction and Pediatric Orthopedics, Kaohsiung Veterans General Hospital, Taiwan

Research Field

- Bone and joint Infection
- Hip/Knee Arthroplasty
- Pediatric Orthopedics

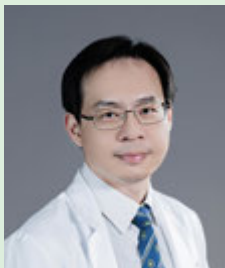
Specialties

Hip/Knee Arthroplasty
Revision Hip/Knee Arthroplasty
Cerebral palsy treatment

Training Background

- M.D., Faculty of Medicine, School of Medicine, National Yang-Ming University (1998~2005)
- PHD program: Institute of biomechanical sciences, National Sun Yat-sen University, expect 2029
- Resident of Department of Orthopedic, Kaohsiung Veterans General Hospital, Taiwan (2017 ~ 2022)
- Clinical Fellow, Department of Orthopedic, Division of Pediatric orthopedic, National Taiwan University Hospital, Taiwan (2022 ~ 2023)
- Attending physician of Department of Orthopedic, Ministry of Health and Welfare Hengchun Tourism Hospital, Taiwan (2023-2024)
- Attending physician of Department of Orthopedic, Kaohsiung Veterans General Hospital, Taiwan (2024 ~ till now)

MODERATOR



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Current Position

- Associated Professor Doctor, Department of Orthopaedic Surgery, Kaohsiung General Veterans Hospital, Taiwan
- Medical Director, Bone tissue bank, Kaohsiung General Veterans Hospital, Taiwan
- Associated Professor, School of Nursing, Fooyin University, Kaohsiung, Taiwan

Research Field

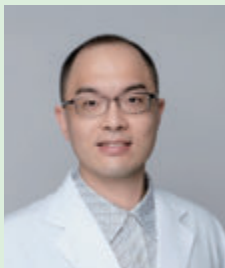
Joint Arthroplasty, Musculoskeletal tumor surgery, Biomedical Materials Engineering

Specialties

- Joint Arthroplasty,
- Musculoskeletal tumor surgery,
- Biomedical Materials Engineering

Training Background

- M.D., Medical School of National Yang Ming Chiao Tung University, Taipei, Taiwan (1992~1999)
- Ph.D., Medical tissue engineering, I-Shou University, Kaohsiung, Taiwan (2008~2012)
- Resident of Department of Orthopedics, Kaohsiung General Veterans Hospital, Taiwan (1999 ~ 2004)
- Visiting Staff of Department of Orthopedics, Kaohsiung General Veterans Hospital, Taiwan (2004 ~ till now)
- Clinical Fellow, Department of Orthopaedic Surgery, Kanazawa University Hospital, Kanazawa, Japan (2019)



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**Tsung-Li Lin, M.D,
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Current Position

- Assistant Professor, Department of Sports Medicine, College of Health Care, China Medical University, Taichung, Taiwan
- Visiting Staff, Department of Orthopedic Surgery, China Medical University Hospital, Taiwan

Research Field

Bone and joint Infection, Hip/Knee Arthroplasty, Tissue engineering

Specialties

- Hip/Knee Arthroplasty
- Revision Hip/Knee Arthroplasty
- 1.5-stage and 2-stage exchange

Training Background

- M.D., School of Medicine, Fu Jen Catholic University, Taiwan (2001-2008)
- Ph.D., Graduate Institute of Biomedical Sciences, China Medical University, Taiwan (2020-2024)
- Resident, Department of Orthopedic Surgery, China Medical University Hospital, Taiwan (2009-2014)
- Fellow, Department of Orthopedic Surgery, China Medical University Hospital, Taiwan (2014-2015)
- Visiting Staff, Department of Orthopedic Surgery, China Medical University Hospital, Taiwan (2015-till now)

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Current position

- Director of arthroplasty department of Orthopedic Surgery, China medical university Hospital .
- Director of Computer assisted orthopedic surgery society (CAOS), Taiwan

Professional experience

- Residency: Dept. of Orthopedics, China Medical University Hospital, 2005~2010
- Chief Residency: Dept. of Orthopedics, China Medical University Hospital, 2010~2011
- Consultant: Dept. of Orthopedics, China Medical University Hospital, 2011~2015
- Consultant: Dept. of Orthopedics, An Nan Hospital, Tainan 2015~2017

Memberships

- Taiwan Orthopedic Surgery Association
- Computer assisted orthopedic surgery society (CAOS), Taiwan
- Joint Reconstruction Society, Republic of China



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Current Position

- Associate professor, School of Post-Baccalaureate Medicine, College of Medicine, Kaohsiung Medical University
- Director, Department of Orthopedics, Kaohsiung Medical University Gangshan
- Kaohsiung Medical University Gangshan Hospital Medical Secretary

Research Field

Osteoarthritis, Osteoporosis, Bone regenerative medicine, Hip arthroplasty and traumatology

Specialties

- Hip/Knee Arthroplasty
- Revision Hip Arthroplasty
- Osteoporosis

Academic training

- 8/1996-7/2003 Medical Doctor Kaohsiung Medical University, Kaohsiung City, Taiwan
- 1999/8-2021/2 PhD, Graduate Institute of Medicine, College of Medicine, Kaohsiung Medical University, Taiwan

Professional Experience

- 2/2023 to present Associate professor, Kaohsiung Medical University, Taiwan
- 10/2023 to present Secretary-general, Taiwanese Osteoporosis Association
- 2/2019-1/2023 Assistant professor, Kaohsiung Medical University, Taiwan
- 11/2019-10/2023 The supervisor, Taiwanese Osteoporosis Association
- 10/2020-10/2022 The secretary-general, Taiwan Orthopedic Research Society
- 10/2017-10/2019 The deputy secretary general, Taiwanese Osteoporosis Association
- 8/2009-7/2016 Attending Doctor, Department of Orthopaedics, Kaohsiung Municipal Ta-Tung Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan
- 8/2007-7/2009 Attending Doctor, Saint Cosmas Hospital, Kaohsiung, Taiwan
- 8/2003-7/2007 Resident Doctor, Department of Orthopaedics, Kaohsiung Medical University Hospital

MODERATOR



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Education

- 9/2004-6/2013 Doctor of Philosophy
Kaohsiung Medical University, Kaohsiung City, Taiwan R.O.C.
- 9/1987-6/1994 Doctor of Medicine
Kaohsiung Medical University, Kaohsiung City, Taiwan R.O.C.

Awards

- 12/2024 The 21th national Innovation award: Prevention or treatment of osteoarthritis with thrombomodulin and miRNA I
Institute for Biotechnology and Medicine Industry
- 12/2020 The 17th national Innovation award: Innovative additive manufacturing for bioceramic
Institute for Biotechnology and Medicine Industry
- 10/2018 1st Prize of Award of the best abstract
The Acelity Surgical Wound Forum
- 12/2017 The 14th national Innovation award: Fast isolator for adipose-derived stem cells
- 05/2014 Merit Award (Best paper session)
- 2nd AO Trauma Asia Pacific Scientific Congress& TK Expert's Symposium
- 12/2012 The 8th national Innovation award: Treatment of early-stage arthritis
Institute for Biotechnology and Medicine Industry

Professional Experience

- 10/2023-present President
The Taiwanese Osteoporosis Association
- 8/2023-present Deputy CEO
Regenerative Medicine and Cell Therapy Research Centre, Kaohsiung Medical University
- 8/2019-present Jointly Appointed Professor
National Sun Yat-sen University
- 8/2019-present Director
Orthopaedic Research Center, Kaohsiung Medical University
- 2/2019-present Professor
Kaohsiung Medical University
- 8/2003-present Attending Physician
Orthopaedic Dept., Kaohsiung Medical University Hospital
- 8/2015-12/24 Director, Department of Orthopaedics
Kaohsiung Municipal Ta-Tung Hospital, Kaohsiung Medical University
- 11/2020-10/2022 President
Taiwan Orthopedic Research Society
- 10/2017-09/2019 General Secretary
Taiwan Osteoporosis Association
- 08/2017-07/2018 General Secretary
Pacific and Asian Society of the Minimally Invasive Spine Surgery

Research Field

Osteoarthritis, Osteoporosis, Regenerative medicine, Hip arthroplasty and traumatology

Specialties

- Hip/Knee Arthroplasty
- Revision Hip Arthroplasty
- Osteoporosis

Paper publication

More than 200 SCI paper published.



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Education and Training

- Graduate school: Medical school of Chang Gung university, 2006
- Internship: Chang Gung Memorial Hospital, 2005~2006
- Post-graduate first year training: 2006/9~2007/8
- Residency : Department of Orthopaedic Surgery, Chang Gung Memorial Hospital, 2007/9~2011/6
- Chief residency : Department of Orthopaedic Surgery, Chang Gung Memorial Hospital, 2011/7~2012/6
- Fellowship : Division of Joint Reconstruction, Department of Orthopaedic Surgery, Chang Gung Memorial Hospital, 2012/7~2013/6
- Attending doctor: Division of Joint Reconstruction, Department of Orthopaedic Surgery, Chang Gung Memorial Hospital, 2013/7~
- Visiting scholar: Department of Orthopaedic Surgery, Kanazawa University Hospital, 2013/12
- Visiting scholar: Department of Orthopaedic Surgery, Tokyo University Hospital, 2015/08
- Visiting scholar: Department of Orthopaedic Surgery, Massachusetts General Hospital, 2016/6~2016/12

Publication

1. Chang CH, CHEN CH*, Su CY, Liu HT, Yu CM. Rotator cuff repair with periosteum for enhancing tendon-bone healing: A biomechanical and histological study in rabbits. *Knee Surg Sports Traumatol Arthrosc* (2009), 17(12):1447-1453 (SCI)
2. Chen CH*, Chang CH, Su CI, Wang KC, Liu HT, Yu CM MD, Wong CB, Wang IC. Arthroscopic Single-Bundle Anterior Cruciate Ligament Reconstruction With Periosteum-Enveloping Hamstring Tendon Graft, clinical outcome in 2 to 7 years. *Arthroscopy* (2010), 26(7):907-917 (SCI)
3. Chen CH*, Chang CH, Su CI, Wang KC, Liu HT, Yu CM MD, Wong CB, Wang IC. Enhancement of rotator cuff tendon-bone healing with injectable periosteum progenitor cells-BMP-2 hydrogel in vivo. *Knee Surg Sports Traumatol Arthrosc* (2011), 19(9):1597-1607 (SCI)
4. Chen CH*, Chang CH, Su CI, Whu SW. The gene and protein expressions of auto-bone marrow mesenchymal stem cells in a bone tunnel for tendon-bone healing. *Formos J Muscul Dis* (2011), 2(3): 85-93.
5. Chang CH, Chen CH*, Liu HW, Whu SW. Bioengineered Periosteal Progenitor Cell Sheets to Enhance Tendon-Bone Healing in A Bone Tunnel. *Biomed J* (2012), 35:473-80
6. Chen CH, CHEN CH*, Chang CH, Su CI, Wang KC, Kiu HT, Yu CM, Hsu KY. Classification and analysis of long head of biceps tendon pathology in complete rotator cuff tear. *Chang Gung Med J* (2012), 35(3):263-270.
7. Chen LY, Whu SW, CHEN CH*, Liu HW, Liu HT, Chang CH, Tsai CL, Chen SH, Hsiue GH. Single-layer periosteum progenitor cell sheet significantly promotes tendonebone healing in comparison with acellular collagen sheet in anterior cruciate ligament reconstruction. *Formos J Muscul Dis* (2012), 3(1):1-8.

8. Chih-Hsiang Chang, Yuhan Chang, Dave W. Chen, PhD, Steve W. N. Ueng, Mel S. Lee*. Topical Tranexamic Acid Reduces Blood Loss and Transfusion Rates Associated With Primary Total Hip Arthroplasty. *Clin Orthop Relat Res* (2014) 472(5): 1552-1557 (SCI)
9. I.-J. Chen, C.-Y. F. Chiang, Y.-H. Li, C.-H. Chang, C.-C. Hu, D. W. Chen, Y. Chang, W.-E. Yang, H.-N. Shih, S. W.-N. Ueng, P.-H. Hsieh*. Nationwide cohort study of hip fractures: time trends in the incidence rates and projections up to 2035. *Osteoporos Int* (2015) 26:681–688. (SCI)
10. Y-C Lin, Y-H Li, C-H Chang, C-C Hu, D.W. Chen, P-H. Hsieh & M. S. Lee & S. W.-N. Ueng, Y. Chang*. Rheumatoid arthritis patients with hip fracture: a nationwide study. *Osteoporos Int* (2015) 26:811-817. (SCI)
11. Chen SY, Chang CH, Hu CC, Chen CC, Chang YH, Hsieh PH*. Metal ion concentrations and semen quality in patients undergoing hip arthroplasty: A prospective comparison between metal-on-metal and metal-on-polyethylene implants. *J Orthop Res*, 34:544–551, 2016
12. Chen CC, Liao CT, Chang CH, Hsu YH, Shih HN*. Giant Cell Tumors of the Bone With Pulmonary Metastasis. *Orthopedics* 2016; 39(1): e68-73.
13. 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* 11(11): e0166545. doi:10.1371/journal.pone.0166545
14. 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 Orthopaedica et Traumatologica Turcica*, Volume 50, Issue 4, August 2016, Pages 437–442
15. Chih-Hsiang Chang, Szu-Yuan Chen, Jang-Jih Lu, Chee-Jen Chang, Yuhan Chang, Pang-Hsin Hsieh*. Nasal colonization and bacterial contamination of mobile phones carried by medical staff in the operating room. *PLoS ONE*, 2017 May 31;12(5): e017581. <https://doi.org/10.1371/journal.pone.0175811>
16. Chih-Hsiang Chang, Po-Chun Lin, Cheng-Min Shih, Chun-Chieh Chen, Pang-Hsin Hsieh, Hsin-Nung Shih*. Fracture of cobalt chrome, fully-coat beaded femoral revision long stem, a clinical outcomes study. *Biomed J*. 2018 Feb;41(1):46-51. doi: 10.1016/j.bj.2018.02.001.
17. Kuo-Ti Peng, Meng-Hsueh Tsai¹, Chiang-Wen Lee, Yao-Chang Chiang, Pei-Chun Chen, Chun-Chieh Chen, Chih-Hsiang Chang, Hsin-Nung Shih*, Pey-Jium Chang*. Dysregulated expression of antioxidant enzymes in polyethylene particle-induced periprosthetic inflammation and osteolysis. *PLoS One*. 2018 Aug 20;13(8):e0202501. doi:10.1371/journal.pone.0202501. eCollection 2018.
18. Yu-Chih Lin, Shen-Hsun Lee, I-Jung Chen, Chih-Hsiang Chang, Chee-Jen Chang, Yi-Chun Wang, Yuhan Chang, Pang-Hsin Hsieh*. Symptomatic pulmonary embolism following hip fracture: A nationwide study. *Thrombosis Research* 172 (2018) 120–127
19. Chih-Hsiang Chang, Chih-Chien Hu, Yuhan Chang, Pang-Hsin Hsieh, Hsin-Nung Shih, Steve Wen-Neng Ueng*. Two-stage revision arthroplasty for Mycobacterium Tuberculosis periprosthetic joint infection: An outcome analysis. *PLoS One*. 2018 Sep 7;13(9):e0203585. doi: 10.1371/journal.pone.0203585. eCollection 2018.
20. Yu-Chih Lin, Chih-Hsiang Chang, Chee-Jen Chang, Yi-Chun Wang, Pang-Hsin Hsieh, Yuhan Chang*. Vascular injury during primary total knee arthroplasty: A nationwide study. *J Formos Med Assoc*. 2019 Jan;118(1 Pt 2):305-310.
21. Chih-Hsiang Chang, Chih-chien Hu, Chun-Chieh Chen, John Mahajan, Yuhan Chang, Hsin-Nung Shih, Young-Min Kwon*. 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.
22. Chen MF, Chang CH, Yang LY, Hsieh PH, Shih HN, Ueng SWN, Chang Y*. Synovial fluid interleukin-16, interleukin-18, and CRELD2 as novel biomarkers of prosthetic joint infections. *Bone Joint Res*. 2019 May

- 3;8(4):179-188.
23. Tsai Y, Chang CH, Lin YC, Lee SH, Hsieh PH, Chang Y*. Different microbiological profiles between hip and knee prosthetic joint infections. *J Orthop Surg (Hong Kong)*. 2019 May-Aug;27(2)
 24. Huang TW, Chang CH, Chang FC, Chen CC, Huang KC, Lee MS, Shih HN*. Results of Conversion from Failed Austin-Moore Hemiarthroplasty to Cementless Total Hip Arthroplasty in Octogenarian Patients with Advanced Acetabular Erosion: A Minimum of 5 Years of Follow-Up. *Biomed Res Int*. 2019 Apr 2;2019:7814602.
 25. Mei-Feng Chen, Chih-Hsiang Chang, Chuan Chiang-Ni, Pang-Hsin Hsieh, Hsin-Nung Shih, Steve W. N. Ueng, Yuhan Chang*. Rapid analysis of bacterial composition in prosthetic joint infection by 16S rRNA metagenomic sequencing. *Bone Joint Res* 2019;8:367–377
 26. Mei-Feng Chen, Chih-Hsiang Chang, Chih-Chien Hu, Ying-Yu Wu, Yuhan Chang and Steve 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, 8, 1289
 27. Chun-Yu Hung, Chih-Hsiang Chang, Yu-Chih Lin, Shen-Hsun Lee, Szu-Yuan Chen and Pang-Hsin Hsieh*. Predictors for Unfavorable Early Outcomes in Elective Total Hip Arthroplasty: Does Extreme Body Mass Index Matter? *Biomed Res Int*. 2019 Oct 7;2019:4370382.
 28. Chih-Hsiang Chang, Chih-Chien Hu, Kee-Chin Sia, Steve W. N. Ueng, Mei-Feng Chen. Optimizing the Fracture Repair Mouse Model by Using Different Sizes of Femoral Defects. *The FASEB Journal* 34(S1):1-1. April 2020
 29. Chih-Hsiang Chang, Chee-Jen Chang, Yi-Chun Wang, Chih-Chien Hu, Yu-Han Chang, Pang-Hsin Hsieh, Dave W. Chen. Increased incidence, morbidity, and mortality in cirrhotic patients with surgical treated hip fractures: A nationwide population-based study. *Journal of Orthopaedic Surgery*, 2020, 28(3) 1–8
 30. Sheng-Hsun Lee, Hsin-Nung Shih, Chih-Hsiang Chang, Tung-Wu Lu, Yu-Han Chang, and 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
 31. Yuhan Chang, Yi-min Hsiao, Chih-Chien Hu, Chih-Hsiang Chang, Cai-Yan Li, Steve W. N. Ueng and Mei-Feng Chen. 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, 21, 2904
 32. Chih-Chien Hu , Chih-Hsiang Chang, Yi-min Hsiao , Yuhan Chang, Ying-Yu Wu, Steve W. N. Ueng, Mei-Feng Chen. 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, 21(15), 5550-5562.
 33. 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*: 27 (2020), 1035–1042
 34. Chih-Hsiang Chang, Sheng-Hsun Lee, Yu-Chih 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* 13 (2020) 1768–1773.
 35. Sheng-Hsun Lee, Yu-Chih Lin, Chee-Jen Chang, Chih-Yun Fan Chiang, Szu-Yuan Chen, Yu-Han 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*, 2021: 44 620-626
 36. Chih-Chien Hu, Chih-Hsiang Chang, Yuhan Chang, Jang-Hsing Hsieh, Steve Wen-Neng Ueng. Beneficial Effect of TaON-Ag Nanocomposite Titanium on Antibacterial Capacity in Orthopedic Application. *International Journal of Nanomedicine* 2020;15 7889–7900
 37. Yuhan Chang, Chih-Chien Hu, Ying-Yu Wu, Steve W. N. Ueng, Chih-Hsiang Chang, Mei-Feng Chen. Ibuprofen Mitigates Delayed Bone Healing Caused by Lipopolysaccharide by Altering Osteoblast and Osteoclast Activity. *Int. J. Mol. Sci*. 2021, 22, 1169

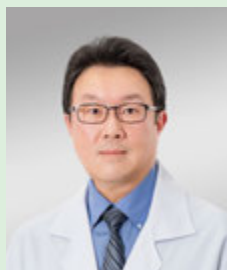
38. Yi-min Hsiao, Chih-Chien Hu, Mei-Feng Chen, Chih-Hsiang Chang, Yu-Tien Chiu, Yuhan Chang. Serum Insufficiency Induces RANKL-Independent Osteoclast Formation during Developing Ischemic ONFH. *Biomedicines* 2021; 9, 685.
39. Zhong-Yan Li, Yu-Chih Lin, Chih-Hsiang Chang, Szu-Yuan Chen, Tung-Wu Lu, Sheng-Hsun Lee. Trend of serum C-reactive protein is associated with treatment outcome of hip Periprosthetic joint infection undergoing twostage exchange arthroplasty: a case control Study. *BMC Musculoskeletal Disorders* 2021; 22 1007
40. Jui-ping Chen, Chih-hsiang Chang, Yu-chih Lin, Sheng-hsun Lee, Hsin-nung Shih, Yuhan Chang. Two-stage exchange Arthroplasty for knee Periprosthetic joint infection exhibit high infection recurrence rate in patients with chronic viral hepatitis. *BMC Musculoskeletal Disorders* 2021; 22 538
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MODERATOR



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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.

Current Position

Associate Professor & Director of Joint Reconstruction, Department of Orthopedic Surgery, Chang Gung Medical Center, Linkou, Taiwan

Academic Appointments

1. 2021 July until now, Director of Joint reconstruction department, Attending Physician & Associate Professor, Orthopedic department, Chang Gung Memorial Hospital, Linkou Medical Center. Chang Gung University, College of Medicine.
2. 2024 June 01, 2023 July-01, 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:

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Long term suppression of antibiotic therapy, does it really work in bone and joint infection?

劉伯瑜 **Po-Yu Liu, M.D, Ph.D.**

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Bone and joint infections (BJIs), particularly those involving prosthetic material, often require prolonged antibiotic courses. Long-term suppressive antibiotic therapy (LTSAT) is sometimes employed after initial treatment to prevent relapse, especially in cases with retained hardware or difficult-to-eradicate pathogens. This presentation will review the current evidence regarding the efficacy and safety of LTSAT for BJIs. We will examine success rates, risk factors for failure, adverse effects associated with prolonged antibiotic use, and patient selection criteria for LTSAT. The presentation will conclude with a discussion of optimal monitoring strategies and when discontinuation of LTSAT can be considered.

The concerns of bone and joint surgery in patients with HIV(+)

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In this session, we will provide an overview of current public health strategies and targets for HIV prevention and control, both globally and in Taiwan. The presentation will cover available early screening services, including community-based testing, self-testing kits, and integration with other healthcare services. We will also review current antiretroviral therapy (ART) options, highlighting treatment guidelines, accessibility, and strategies to improve adherence and viral suppression. Additionally, we will present epidemiological statistics that reflect patient outcomes under contemporary therapeutic regimens, including life expectancy, viral suppression rates, and quality of life indicators. Lastly, we will provide an update on HIV prophylaxis, with an emphasis on both pre-exposure prophylaxis (PrEP) and post-exposure prophylaxis (PEP). This section will include recent developments, implementation strategies, eligibility criteria, and real-world effectiveness. Special consideration will be given to occupational exposures, such as needle-stick injuries among healthcare workers, and the protocols in place to ensure timely and effective PEP administration.

Continuous Local Antibiotic Perfusion for bone and joint infection

圓尾明弘 **AKIHIRO MARUO. M.D, Ph.D.**

Harima-Himeji General Medical Center Himeji, Japan.

Director of Orthoplastic trauma center

Bone and joint infections are challenging to treat. Intravenous antibiotics do not effectively reach the infection site due to poor vascularity and the presence of dead space. Moreover, a higher antibiotic concentration is required to eradicate biofilm.

Continuous Local Antibiotic Perfusion (CLAP) is a novel drug delivery system that directly administers antibiotics to the bone marrow through intra-medullary antibiotic perfusion (iMAP) and to the surrounding soft tissue via intra-soft tissue antibiotic perfusion (iSAP). When combined with a negative pressure wound therapy system, a consistent negative pressure is applied, allowing the antibiotic solution to be drawn into the infected area.

Gentamicin, a dose-dependent antibiotic, is well-suited for local administration regardless of susceptibility. Theoretically, high-dose gentamicin does not induce resistant microbes and may effectively eradicate them. A concentration of 1.2 µg/mL gentamicin is continuously infused via iMAP or iSAP at a rate of 2 mL/h until signs of infection subside and laboratory parameters improve.

CLAP is applied in the treatment of orthopedic infections, including fracture-related infections (FRI), open fractures, periprosthetic joint infections (PJI), and osteomyelitis. The key advantage of CLAP is its ability to eradicate infections while preserving implants. Stable implants can be retained, whereas unstable implants are exchanged in a one-stage or two-stage procedure. Unlike conventional approaches requiring radical debridement of all infected tissues, CLAP only necessitates the removal of biologically inactive tissues. Non-vascularized or synthetic bone grafts can be used for small bone defects.

By incorporating CLAP into surgical protocols, orthopedic infection management may undergo a paradigm shift, revolutionizing treatment strategies.

Arthroplasty for Tuberculous Arthritis of the Hip and Knee

Nilo Paner, M.D, FPOA

Clinical Associate Professor of Orthopedics,
University of the Philippines - College of Medicine

The Philippines is still a country with a high tuberculous (TB) infection burden. Musculoskeletal tuberculosis comprises around 1-3% of all TB infections. The hip is the most common joint involved. Treatment for musculoskeletal TB infection remains to be medical. Prognosis is good for early stages of TB arthritis. Late stages of TB arthritis may lead to significant deformity and disability.

Arthroplasty is a good option for late stages of TB arthritis of the hip and knee, where there is already destruction of the joint and compromised function. Joint mobility and deformity correction may be achieved. Arthroplasty for the hip and knee may be done even in the presence active TB arthritis. It is necessary though to treat with anti-TB medications for at least 12 months.

How to do a DAIR and outcomes ?

倪培倫 **Pei-Lun Ni, M.D.**

Kaohsiung Veterans General Hospital, Taiwan

Prosthetic joint infection (PJI) is a severe complication of hip and knee arthroplasty, leading to significant morbidity. While two-stage revision arthroplasty remains the standard treatment, it poses challenges such as prolonged immobilization, high economic burden, and technical difficulties during re-implantation.

For patients with early infection but without implant loosening, debridement, antibiotics, and implant retention (DAIR) is an appealing alternative due to its advantages, including better patient outcomes, cost-effectiveness, shorter hospitalization, and reduced immobilization time. However, the success of DAIR varies widely, and its indications remain a topic of debate among orthopedic surgeons. Several factors influence its outcome, including patient immune status, infection timing, microbiology, procedural details, and antibiotic selection/duration. Recently, negative pressure wound therapy (NPWT) has been combined with DAIR to enhance drainage, improve blood supply, and boost local immunity. Some studies have further integrated NPWT with continuous local antibiotic perfusion (CLAP) to enhance infection control. This session will explore key factors affecting DAIR outcomes and strategies to improve its success rate.

How to do two-stage exchange arthroplasty and outcomes?

林宗立 Tsung-Li Lin, M.D, Ph.D.

Department of Orthopedic Surgery, China Medical University Hospital, Taiwan

A two-stage exchange arthroplasty is a widely used approach for managing chronic periprosthetic joint infection (PJI) of the hip. However, mechanical complications related to cement spacers occur at rates as high as 26%. The 1.5-stage functional prosthetic spacer, consisting of an antibiotic-laden cemented femoral stem and a cemented acetabular liner, is designed to eradicate infection while preserving joint function for an extended period.

In this report, I share my experience with prosthetic spacers in two-stage exchange arthroplasty, including surgical techniques, infection control rates, and clinical outcomes. All patients were followed for at least 12 months after the final surgical procedure.

During surgery, an appropriately sized polyethylene liner is selected. The backside of the liner is scored using a saw or burr to enhance cement fixation. In cases of significant acetabular bone loss, screws may be placed in the acetabular columns to reinforce the cement mantle. The femur is sequentially broached until an adequate fit is achieved, followed by implantation of a cemented femoral stem. Postoperatively, the antibiotic regimen consists of four weeks of intravenous antibiotics followed by eight weeks of oral antibiotics.

Our outcomes demonstrate that prosthetic spacers in two-stage revision for hip PJI provide improved function, a longer interval between stages, and infection control rates comparable to conventional methods.

How to reconstruct the massive femoral bone defect after hip PJI

林松彦 Sung-Yen Lin, M.D, Ph.D.

Kaohsiung Medical University Chung-Ho Memorial Hospital, Taiwan

The treatment of large femoral defects following an infectious disease presents considerable challenges, necessitating a comprehensive and multifaceted approach to ensure the eradication of infection, restoration of bone integrity, and recovery of limb function. Reconstruction of the femoral defect typically proceeds once infection control has been achieved. Prior to revision surgery, it is crucial to assess both the pattern of bone loss and the degree of residual fixation of the femoral stem to guide the selection of the most appropriate surgical approach. Extensively porous-coated stems and modular fluted tapered stems have been specifically developed for the management of Paprosky III and IV femoral bone defects. The modular tapered fluted stem, in particular, has gained prominence due to its flexibility, offering independent sizing, stem-to-neck length adjustments, and enhanced bone integration, with demonstrated high survival rates. Alternative techniques, including femoral impaction bone grafting, allograft prosthesis composite (APC), and proximal femoral replacement (PFR) megaprotheses, are often utilized, especially for types IIIB and IV defects, although further investigation is needed to establish their long-term efficacy. The management of femoral bone loss in revision total hip arthroplasty (THA) remains challenging, and accurate preoperative evaluation of the extent of bone defect is essential to select the optimal femoral stem, thereby ensuring clinical success.

How to reconstruct the massive acetabular bone defect after hip PJI

張智翔 **Chih-Hsiang Chang, M.D, Ph.D.**

Chang Gung Memorial Hospital, Taiwan

Background

There are several surgical options to address the Paprosky type III uncontained acetabular defects during revision total hip arthroplasty (THA). In physiologically young and active patients, using structural bone graft to restore bone defects and provide adequate initial support for the revision acetabular component is one such option. However, revision surgery is more difficult facing post-periprosthetic joint infection (PJI) with massive bone defect. The purpose of this study was to report the initial and mid-term results of using structural allograft over massive acetabular bone defect accompanied with previous periprosthetic joint infection.

Methods

A retrospective analysis on the collected data of patients with structural allograft over massive acetabular bone defect at second stage exchange arthroplasty.

Results

The relapse rate of PJI in these patients was similar to aseptic group. If infection under control, follow-up x-ray showed good incorporation with trabecular bridging over the graft and host bone. However, if infection relapse, repeated debridement or exchange arthroplasty were needed to eradicate infection.

Conclusions

The use of structural allograft in acetabular revision in patients with massive acetabular defects after PJI under control has a satisfactory mid-term clinical result. Structural allograft adds to the armamentarium of a revision surgeon as a viable option in treating patients with large acetabular shelf defects after PJI.

Keywords: revision acetabular surgery, Shelf defect, structural allograft, high porosity metal cup



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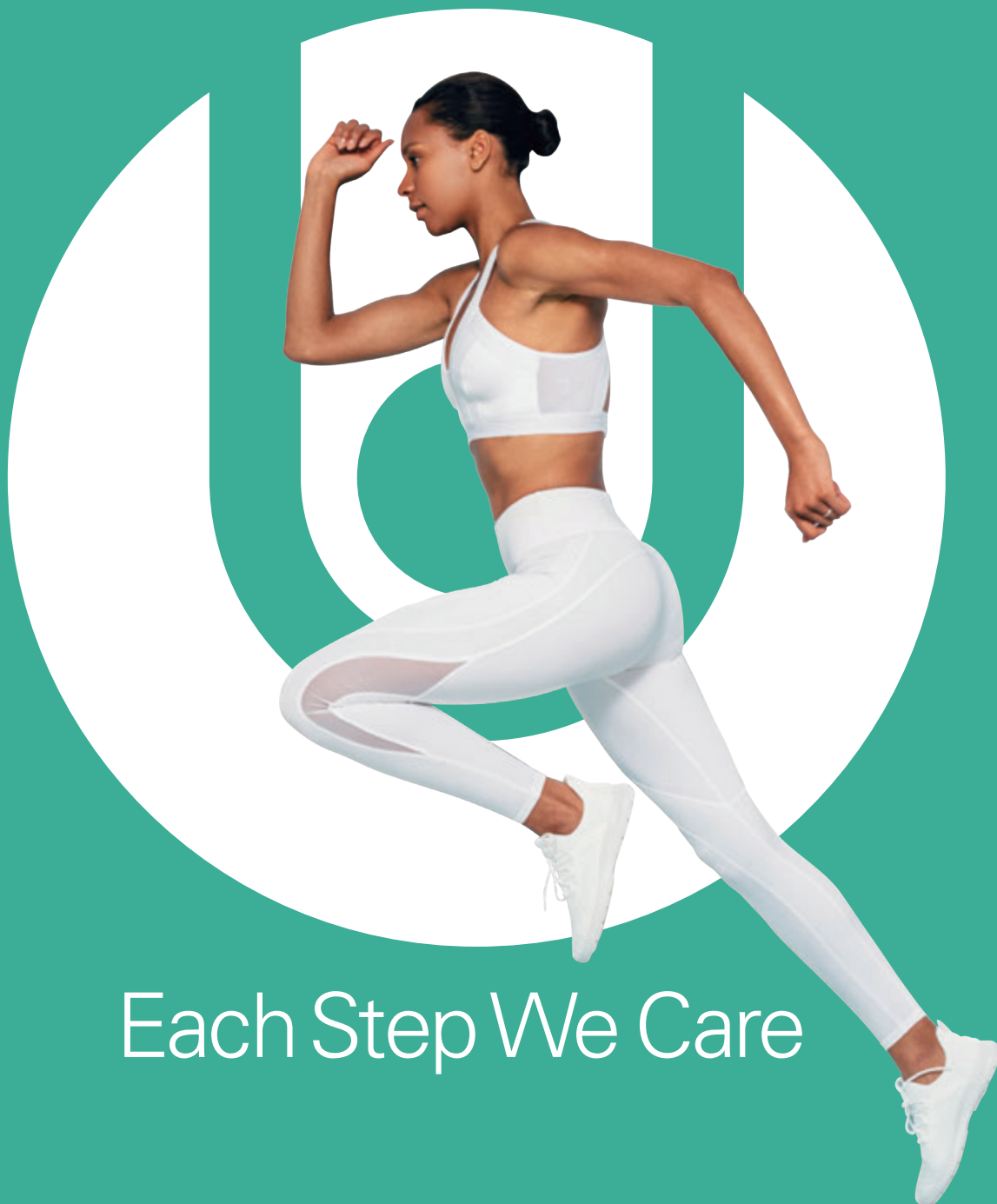
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