

Chin-Hsien Wu, M.D.

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Dr. CH Wu obtained his medical degree from the University of Chang Gung in 1998. He got the Board of General Surgery and Orthopaedic Surgery in 2004 and 2005. Furthermore, he obtained the Board of Spine and Hand Surgery in 2006. In 2012, he was admitted as clinical fellow in Orthopaedics & Traumatology of Prince of Wales Hospital. Dr. Wu is currently the **Chief of Hand surgery** of E-DA Hospital, as well as the **OSCE and Orthopedic Resident Training Director**. He is appointed as **Associate Professor** of the Faculty of Medicine at the I-Shou University. He received the **“The Year Best Teacher of E-DA Hospital Award”** in 2009 and 2013.

His main research interest is on wrist arthroscopic surgery. Others include upper extremity trauma, rheumatoid hand, elbow stiffness and tendon surgery. He is a member of European Wrist Arthroscopy Society (EWAS) since 2009, committee member of Taiwan society for surgery of the hand since 2016 and Taiwan orthopedic trauma association since 2018.

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| Specialty: | Orthopedics |
| Clinical Interest: | Wrist arthroscopy, Trauma |
| Certification: | Orthopaedics |
| Qualification: | MBBS(TWN) |
| Experience: | Fellowship in Chang-Gung Memorial Hospital, Taiwan (2005~2006) Fellowship in Prince of Wales Hospital, Hong Kong (2010) Attending staff in Chang-Gung Memorial Hospital, Taiwan (2006) Attending staff in E-DA Hospital, Taiwan (2006 till now) Chief of hand surgery in in E-DA Hospital, Taiwan (2012 till now) Council member of Taiwan society of surgery of hand (2016-2018, and since 2020) Secretary-General of Taiwan society of surgery of hand (2018-2020) Council member of Taiwan orthopedic trauma association (since 2018) |

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| <p>Publication in Journals:</p> | <ol style="list-style-type: none"> 1. CH Ma, YH Hsueh, <u>CH Wu*</u>, CY Yen, YK Tu. Does an internal joint stabilizer and standardized protocol prevent recurrent instability in complex persistent elbow instability? Clin Orthop Relat Res. 2022 Jul 1;480(7):1354-1370. 2. WC Chou, KL Tsai, PL Hsieh, <u>CH Wu</u>, IM Jou, YK Tu, CH Ma. Galectin-3 facilitates inflammation and apoptosis in chondrocytes through upregulation of the TLR-4-mediated oxidative stress pathway in TC28a2 human chondrocyte cells. Environ Toxicol. 2022 Mar;27(3):478-488. 3. KP Chen, CH Ma, <u>CH Wu*</u>, I-M Jou, YK Tu. Arthroscopic Resection of Recurrent Wrist Ganglions – A Retrospective Study of 17 Patients. J Orthop Sci, 2022 Mar;27(2):389-394. 4. CH Ma, WC Chou, <u>CH Wu</u>, IM Jou, YK Tu, PL Hsieh, KL Tsai. Ginsenoside Rg3 Attenuates TNF-α-Induced Damage in Chondrocytes through Regulating SIRT1-Mediated Anti-Apoptotic and Anti-Inflammatory Mechanisms. Antioxidants 2021 Dec; 10(12):1972. 5. CH Ma, YC Chiu, <u>CH Wu*</u>, KL Tsai, TK Wen, YK Tu. Ipsilateral vascularised fibula with external locking plate for treatment of massive tibial bone defects. Injury. 2021 Jun;52(6):1629-1634. 6. Ting-Sheng Lin, Ching-Hou Ma, <u>Chin-Hsien Wu*</u>, Cheng-Yo Yen, I-Ming Jou, Yuan-Kun Tu. Biomechanical Comparison of Different Volar Screw Placements for Horizontal Oblique Scaphoid Fractures. Applied Sciences, 2020 Nov; 10(23), 8592. (SCI). 7. Cheng-Yo Yen, Ching-Hou Ma, <u>Chin-Hsien Wu*</u>, Shih-Chieh Yang, I-Ming Jou, Yuan-Kun Tu. A cost and efficacy analysis of performing arthroscopic excision of wrist ganglions under wide-awake anaesthesia versus general anaesthesia. BMC Musculoskeletal Disorders, 2020 Jul; 21(1), 1-8. (SCI). 8. Hui-Kuang Huang, <u>Chin-Hsien Wu</u>, Jung-Pan Wang, Yuan-Kun Tu. Combined Pedicled Vascularized and Wedge Nonvascularized Bone Graft for Treating Scaphoid Waist Nonunion with Humpback Deformity. Techniques in hand & upper extremity surgery, 2019 Dec; 23(4), 155-159. 9. Ching-Hou Ma, <u>Chin-Hsien Wu</u>, I-Ming Jou, Yuan-Kun Tu, Ching-Hsia Hung, Wan-Ching Chou, Hsin-Lun Yang, Yun-Ching Chang, Pei-Ling Hsieh*, Kun-Ling Tsai*. PKR promotes oxidative stress and apoptosis of human articular chondrocytes by causing mitochondrial dysfunction through p38 MAPK activation . Antioxidants, 2019 Sep; 8(9), 370. |
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10. Hui-Kuang Huang, Chin-Hsien Wu, Yuan-Kun Tu. Extensor carpi radialis longus tendon for extensor retinaculum reconstruction in dorsal plating of the wrist. *Journal of Hand Surgery-European Volume*, 2019 Jun; 44(5),542-543. (SCI).
11. Ching-Hou Ma, Yen-Chun Chiu, Chin-Hsien Wu, Kun-Ling Tsai, Tsung-Kai Wen, I-Ming Jou, Yuan-Kun Tu. Plate-on-plate technique for treating peri-implant fractures of distal femoral locking plate: a retrospective study of 11 patients. *Archives of Orthopaedic and Trauma Surgery*, 2019, Apr; 139(9),1245–1251. (SCI).
12. Chin-Hsien Wu, Yen-Chun Chiu, Shang-Won Yu, Feng-Chen Kao, Yuan-Kun Tu, Ching-Hou Ma. Arthroscopic excision of wrist ganglions: does trans-cystic or cystic-sparing portal technique affect clinical outcomes?. *Archives of orthopaedic and trauma surgery*, 2019 Mar; 139(3), 361-37. (SCI).
13. Y-C. Chiu, T-C. Chung, C-H. Wu, K-L. Tsai, I-M Jou, Y-K. Tu, C-H. Ma. Chopart amputation with tibiototalcalcaneal arthrodesis and free flap reconstruction for severe foot crush injury. *The Bone & Joint Journal* , 2018, Oct;100(10), 1359-1363. (SCI).
14. Shih-Chieh Yang, Chin-Hsien Wu, Yuan-Kun Tu, Shin-Yu Huang, Pai-Chien Chou. Exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin increases the activation of aryl hydrocarbon receptor and is associated with the aggressiveness of osteosarcoma MG-63 osteoblast-like cells. *Oncology Letters*. 2018 Jul; 16(3):3849-3857. (SCI).
15. Ching-Hou Ma, Yen Chun Chiu, Chin-Hsien Wu, I-Ming Jou, Yuan-Kun Tu, Ching-Hsia Hung, Pei-Ling Hsieh, Kun-Ling Tsai. Homocysteine causes dysfunction of chondrocytes and oxidative stress through repression of SIRT1/AMPK pathway: A possible link between hyperhomocysteinemia and osteoarthritis. *Redox Biology*. 2018 May; 15:504-512. (SCI).
16. Ching-Hou Ma, Chin-Hsien Wu, I-Ming Jou, Yuan-Kun Tu, Ching-Hsia Hung, Pei-Ling Hsieh, Kun-Ling Tsai. PKR activation causes inflammation and MMP-13 secretion in human degenerated articular chondrocytes. *Redox Biology*. 2018 Apr; 14:72-81. (SCI).
17. Ching-Hou Ma, Yen-Chun Chiu, Kun-Ling Tsai, Yuan-Kun Tu, Cheng-Yo Yen, Chin-Hsien Wu*. Masquelet technique with external locking plate for recalcitrant distal tibial nonunion. *Injury*. 2017 Dec; 48(12):2847-2852. (SCI).
18. Feng-Chen Kao, Yao-Chun Hsu, Chin-Hsien Wu, Chang-Bi Wang,

Yuan-Kun Tu, Pao-Hsin Liu. Use of corticosteroids is not associated with repeated vertebroplasty or kyphoplasty within one year after the surgery in patient older than 50 years. *Acta Orthopaedica et Traumatologica Turcica*, 2017 Dec; 51(6):459-465. (SCI).

19. Yen-Chun Chiu, Shih-Chieh Yang, Chin-Hsien Wu, Hao-Wen Chuang, Yuan-Kun Tu, Ching-Hou Ma. Mycobacterium abscessus Osteomyelitis of the Calcaneus Presenting as Tumor-Mimicking Lesions: A Case Report. *The Journal of Bone and Joint Surgery*. 2017 Aug; 7(3):e56. (SCI).
20. Yu SW, Wu CH, Jih-His Yeh J, Yen CY, Ma CH, Tu YK. Kirschner-wire and bone cement is a viable alternative to reconstruction of large iliac bone defects after strut bone graft harvesting, *Clin Spine Surg*. 2017 Aug; 30(7):308-313.
21. Ching-Hou Ma, YC Chiu, YK Tu, CY Yen, CH Wu*. Three-stage treatment protocol for recalcitrant distal femoral nonunion. *Arch Orthop Trauma Surg*. 2017 Apr;137(4):489-498.
22. Ching-Hou Ma, Ting-Sheng Lin, Chin-Hsien Wu*, Dong-Yi Li, Shih-Chieh Yang, and Yuan-Kun Tu. Biomechanical Comparison of Open and Arthroscopic Transosseous Repair of Triangular Fibrocartilage Complex Foveal Tears: A Cadaveric Study. *Arthroscopy* 2017 Feb;33(2):297-304
23. Ching-Hou Ma, Chin-Hsien Wu, Jiun-Ru Jiang, Yuan-Kun Tu, Ting-Sheng Lin. Metaphyseal locking plate as an external fixator for open tibial fracture: Clinical outcomes and biomechanical assessment. *Injury*. 2017 Feb;48(2):501-505.
24. Feng-Chen Kao, Yao-Chun Hsu, Cheng-Yo Yen, Chien-Fu J. Lin, Chin-Hsien Wu , Yuan-Kun Tu. Revision and Survival Rates After Total Knee Arthroplasty in Individuals Aged 70 and Older, *J Am Geriatr Soc*.2016 Sep;64(11):pp. e225-e227
25. Ching-Hou Ma, Chin-Hsien Wu, Yuan-Kun Tu, Ting-Sheng Lin. Metaphyseal locking plate as a definitive external fixator for treating open tibial fractures—clinical outcome and a finite element study *Injury*. 2013 Aug;44(8):1097-1101
26. Yu SW, Yen CY, Chin-Hsien Wu, Kao FC, Kao YH, Tu YK. Radiographic and clinical results of posterior dynamic stabilization for the treatment of multisegment degenerative disc disease with a minimum follow-up of 3 years. *Arch Orthop Trauma Surg* 2012 May;132(5):583-9. (SCI)

27. Yu SW, Yang SC, Ma CH, Chin-Hsien Wu, Yen CY, Tu YK. Comparison of Dynesys posterior stabilization and posterior lumbar interbody fusion for spinal stenosis L4L5. *Acta Orthop Belg* 2012 Apr;78(2):230-9. (SCI)
28. Chin-Hsien Wu, Ching-Hou Ma, James Jih-His Yeh, Cheng-Yo Yen, Shang-Won Yu, Yuan-Kun Tu. Locked Plating for Proximal Humeral Fractures: Differences between the deltopectoral and deltoid-splitting approaches. *Journal of Trauma*. 2011 Nov;71(5):1364-70 (SCI)
29. Ching-Hou Ma, Yuan-Kun Tu, Jih-Hsi Yeh, Shih-Chieh Yang, Chin-Hsien Wu*. Using external and internal locking plates in a two-stage protocol for treatment of segmental tibial fractures. *Journal of Trauma*. 2011 Sep;71(3):614-9 (SCI)
30. Ching-Hou Ma, Yuan-Kun Tu, Shang-Won Yu, Cheng-Yo Yen, James Jih-Hsi Yeh, Chin-Hsien Wu*. Reverse LISS Plates for Unstable Proximal Femoral Fractures. *Injury*. 2010 Aug;41(8):827-33 (SCI)
31. Feng Chen Kao, Yuan Kun Tu, Kuo Yao Hsu, Chin-Hsien Wu, Cheng-Yo Yen, Ming Chih Chou. Treatment of distal tibial fractures by minimally invasive percutaneous plate osteosynthesis of three different plates: Results and cost-effectiveness analysis. *Formosan Journal of Musculoskeletal Disorders*.2010;1(1):35-40.
32. Ching-Hou Ma, Shang-Won Yu, Yuan-Kun Tu, Cheng-Yo Yen, James Jih-Hsi Yeh, Chin-Hsien Wu*. Staged external and internal locked plating for open distal tibial fractures: A retrospective study of 16 patients. *Acta Orthop*.2010 Jun;81(3):382-6. (SCI)
33. Ching-Hou Ma, Chin-Hsien Wu, Shang-Won Yu, Cheng-Yo Yen, Yuan-Kun Tu. Staged external and internal less-invasive stabilization system plating for open proximal tibial fractures. *Injury*. 2010 Feb;41(2):190-6. (SCI)
34. Feng C. Kao, Yuan-Kun Tu, Juin Y Su, KuoY Hsu, Chin-Hsien Wu, Ming C Chou. Treatment of Distal Femoral Fracture by Minimally Invasive Percutaneous Plate Osteosynthesis: Comparison between the Dynamic Condylar Screw (DCS) and the Less Invasive Stabilization System (LISS). *Journal of Trauma*. 2009 Oct;67(4):719-26. (SCI)
35. Yuan-Kun Tu, G-On Tong, Chin-Hsien Wu, Kanit Sananpanich, Ryosuke Kakinoki. Soft tissue injuries in orthopedic trauma. *Injury* 2008 Oct;39 Suppl 4:3-17. (SCI)
36. Ching-Hou Ma, Yuan-Kun Tu, Chin-Hsien Wu, Cheng-Yo Yen, Shang-Won Yu, Feng-Chen Kao. Reconstruction of upper extremity large soft-tissue defects by using pedicled latissimus dorsi muscle

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| | <p>flaps-technique illustration and clinical outcomes. Injury. 2008 Oct;39 Suppl 4:67-74. (SCI)</p> <p>37. <u>Chin-Hsien Wu</u>, Chak-Bor Wong, Lih-Huei Chen, Chi-Chien Niu, Tung-Ting Tsai, Wen-Jer Chen. Instrumented Posterior Lumbar Interbody Fusion for Patients with Degenerative Lumbar Scoliosis. J Spinal Disord Tech. 2008 Jul;21(5):310-5 (SCI)</p> <p>38. <u>Chin-Hsien Wu</u>, Yu-Hsien Kao, Shih-Chieh Yang, Tsai-Sheng Fu, Po-Liang Lai, Wen-Jer Chen. Supplementary pedicle screw fixation in spinal fusion for degenerative spondylolisthesis in patients aged 65 and over: outcome after a minimum of 2 years follow-up in 82 patients. Acta Orthop. 2008 Feb;79(1):67-73. (SCI)</p> <p>39. Shih-Chieh Yang, Chi-Chien Niu, Wen-Jer Chen, <u>Chin-Hsien Wu</u>, Shang-Won Yu. Open-door laminoplasty for multilevel cervical spondylotic myelopathy: good outcome in 12 patients using suture anchor fixation. Acta Orthop. 2008 Feb;79(1):62-6. (SCI)</p> <p>40. <u>Chin-Hsien Wu</u>, Li-Jen Yuan, Yi-Sheng Chan, Alvin Chao-Yu Chen, MD; Mel S. Lee, MD, Steven Wen-Neng Ueng. Conditions affecting treatment of petrochanteric osteomyelitis. Chang Gung Med J. 2007 Sep-Oct;30(5):414-22.</p> <p>41. <u>Chin-Hsien Wu</u>, Alvin Chao-Yu Chen, Li-Jen Yuan, Chung-Hsun Chang, Yi-Sheng Chan, Kuo-Yao Hsu, Ching-Jen Wang, Wen-Jer Chen. Arthroscopic Reconstruction of the Posterior Cruciate Ligament Using Quadriceps Tendon Autograft: A Minimum 5 years Follow-Up. Arthroscopy 2007 Apr;23(4):420-7. (SCI)</p> |
| <p>Oral Presentation:</p> | <ol style="list-style-type: none"> 1. Arthroscopic radial styloidectomy with interpositional arthroplasty. FESSH 2012. 2. Arthroscopic excision of wrist ganglions: differences between the trans-cystic portal and the cyst-sparing technique. FESSH 2014 3. Stability of different approaches for triangular fibrocartilage complex foveal repair: A cadaveric biomechanical study. FESSH 2016 4. Arthroscopic excision of wrist ganglions: differences between the trans-cystic portal and the cyst-sparing portal techniques. APFSSH 2017 5. Arthroscopic treatment of scaphoid nonunions: Where we are? KSSH2018 |

6. Percutaneous Volar Approaches for Screw Fixation of Scaphoid Waist Fractures. KFS 2019

7. How I manage failed cases of elbow fracture-dislocations? JSFR 2019

8. Complex distal radius fractures. KOA 2021

9. Management of chronic complex persistent elbow instability using an internal joint stabilizer and a standardized protocol KFS 2022