

花蓮慈濟醫院研究部

骨科手術及骨質疏鬆研究室

主持人：吳文田教授

葉光庭副教授

研究成員：骨科部醫師群、張嘉倩、林羿辰

研究簡介

本研究室的主題為骨科手術及骨質疏鬆治療相關之臨床及基礎研究，目前重點有：

1. 頸椎各種手術相關臨床研究及創新
2. 正常人脊椎矢狀排列資料庫建立脊椎手術後
3. 脊椎長節融合術後矢狀排列與病患生活功能相關分析及併發症避免研究
4. 各種微創脊椎手術之研究及創新
5. 骨折手術及術後病患功能恢復相關分析及資料庫建立
6. 重置換髖及膝關節手術資料庫的建立及與健保資料庫之連結關節手術
7. 骨質疏鬆症藥物相關研究及臨床使用成效分析
8. 骨質疏鬆症對於骨科及脊椎病變之影響及手術相關議題分析
9. 骨折術後止痛藥對於急性期及骨癒合期之影響及動物模式建立

計畫與經費來源

| 姓名 | 計畫名稱 | 計畫內擔任之工作 | 起迄年月 | 補助機構 |
|------------|--|----------|---------------------|-----------------|
| 吳文田 | 淨斯本草飲對頸椎術後吞嚥、疼痛表現、及交感神經症候群之調節 | 主持人 | 112/01/01~112/12/31 | 佛教慈濟醫療財團法人 |
| 林昱誠 吳文田 | 手機使用對於老年人頸部肌肉骨骼的影響 | 主持人 | 112/01/01~112/12/31 | 學生與臨床醫師合作研究補助計畫 |
| 吳文田 | 比較微創側開融合器及微創後開融合器於第四五腰椎推節及第五腰椎第一薦椎推節滑脫病人融合手術後生活功能及影像變化比較 | 主持人 | 111/01/01~111/12/31 | 花蓮慈濟醫院院內計畫 |
| 吳文田 | 長節脊椎融合合併腰腿固定病人術後生活功能及影像變化的影響 | 主持人 | 110/01/01~110/12/31 | 花蓮慈濟醫院院內計畫 |
| 吳文田 | 65歲以上長者經常性背痛與骨質疏鬆症及全身脊椎矢狀排列參數變化相關性分析 | 主持人 | 108/08/01~111/01/31 | 科技部 |
| 吳文田 | 人工膝關節置換手術三種術前止痛策略的成效比較分析及相關風險因子分析:前瞻性研究 | 主持人 | 109/01/01~109/12/31 | 花蓮慈濟醫院院內計畫 |
| 吳文田 | 接受頸椎長節前融合或後融合手術後發生吞嚥困難併發症之相關風險研究 | 主持人 | 108/01/01~108/12/31 | 花蓮慈濟醫院院內計畫 |

| 姓名 | 計畫名稱 | 計畫內擔任之工作 | 起迄年月 | 補助機構 |
|------------|---|----------|---------------------|-----------------|
| 張雅筑 葉光庭 | 針對遠端橈骨骨折之年長病人術後恢復中物理治療的角色 | 主持人 | 112/01/01~112/12/31 | 學生與臨床醫師合作研究補助計畫 |
| 葉光庭 | 膝關節及膝關節遠端骨折手術後病人接受針灸治療對於併發症之改善 | 主持人 | 111/01/01~111/12/31 | 花蓮慈濟醫院院內計畫 |
| 王維鴻 葉光庭 | 從醫院資料庫回溯研究糖尿病的嚴重度和控制情形對下肢骨折固定手術、骨矯正手術或關節置換手術預後的影響 | 主持人 | 111/01/01~111/12/31 | 學生與臨床醫師合作研究補助計畫 |
| 葉光庭 | 不健康的飲食對大鼠骨折癒合的影響 | 主持人 | 110/01/01~110/12/31 | 花蓮慈濟醫院院內計畫 |
| 鄒昀敏 葉光庭 | 使用骨力強或保骼麗的骨質疏鬆症病人生活品質及功能變化分析-回溯研究 | 主持人 | 110/01/01~110/12/31 | 學生與臨床醫師合作研究補助計畫 |
| 葉光庭 | 接受全人工膝關節或髖關節術後對胸腰椎影像及功能的影響 | 主持人 | 108/01/01~108/12/31 | 花蓮慈濟醫院院內計畫 |
| 盧馮軒 葉光庭 | 遠端橈骨骨折或近端肱骨骨折能否作為骨質疏鬆性脆弱性骨折之先驅治療指標 | 主持人 | 108/01/01~108/12/31 | 學生與臨床醫師合作研究補助計畫 |

研究成果

1. Kuang-Ting Yeh, Ru-Ping Lee, Tzai-Chiu Yu, Jen-Hung Wang, Kuan-Lin Liu, Cheng-Huan Peng, Hao-Wen Chen, Ing-Ho Chen, Chung-Yi Hsu, Cheng-Li Lin, Wen-Tien Wu*. (2020 Jan). Risk factors for carpal tunnel syndrome or trigger finger following distal radius fracture: a nationwide study. *Scientific Reports*. 10(1):469. (SCI)
2. Kuang-Ting Yeh, Ing-Ho Chen, Ru-Ping Lee, Tzai-Chiu Yu, Cheng-Huan Peng, Kuan-Lin Liu, Jen-Hung Wang, Wen-Tien Wu*. (2020 Feb). Two surgical strategies for treating multilevel cervical spondylotic myelopathy combined with kyphotic deformity. *Medicine (Baltimore)*, 99(7):e19215. (SCI)
3. Kuang-Ting Yeh, Tzai-Chiu Yu, Ru-Ping Lee, Jen-Hung Wang, Kuan-Lin Liu, Cheng-Huan Peng, Hao-Wen Chen, Ing-Ho Chen, Chung-Yi Hsu, Wen-Tien Wu*. (2020 Nov). Hepatic encephalopathy increases the risk of hip fracture: a nationwide cohort study. *BMC Musculoskeletal Disorders*, 21(1):779. (SCI)
4. Wen-Tien Wu, Yi-Ru Chen, Dai-Hua Lu, Fedor Svyatoslavovich Senatov, Kai-Chiang Yang*, Chen-Chie Wang*. (2021 Feb). Silymarin modulates catabolic cytokine expression through Sirt1 and SOX9 in human articular chondrocytes. *Journal of Orthopaedic Surgery and Research*. 16(1):147. (SCI)
5. Kuang-Ting Yeh, Wen-Tien Wu, Ru-Ping Lee, Chen-Chie Wang, Jen-Hung Wang, Ing-Ho Chen*. (2021 Dec). Long-Term Incidence of Total Knee Arthroplasty after Open Reduction and Internal Fixation of Proximal Tibial and Distal Femoral Fractures: A Nationwide Cohort Study. *Journal of Clinical Medicine*. 10(23):5685. (SCI)
6. Wen-Chin Su, Wen-Tien Wu, Cheng-Huan Peng, Tzai-Chiu Yu, Ru-Ping Lee, Jen-Hung Wang, Kuang-Ting Yeh*. (2022 May). The Short-Term Changes of the Sagittal Spinal Alignments after Acute Vertebral Compression Fracture Receiving Vertebroplasty and Their Relationship With the Change of Bathel Index in the Elderly. *Geriatric Orthopaedic Surgery & Rehabilitation*. 13:21514593221100238. (SCI)
7. Kuang-Ting Yeh, Wen-Tien Wu, Jen-Hung Wang, Jui-Tien Shih*. (2022 Jul). Arthroscopic foveal repair with suture anchors for traumatic tears of the triangular fibrocartilage complex. *BMC Musculoskeletal Disorders*. 23(1):634. (SCI)
8. Cheng-Wei Huang, Wen-Tien Wu, Tsai-Chiu Yu, Ing-Ho Chen, Jen-Hung Wang, Kuang-Ting Yeh*. (2022 Jul). Retrograde Intramedullary KirschnerWire Fixation as an Alternative for Treating Distal Fibular Shaft Fractures Combined with Distal Tibial Pilon Fractures. *Journal of Personalized Medicine*. 12(7):1124. (SCI)
9. Wei-Hung Wang, Tsung-Cheng Hsieh, Wen-Tien Wu, Ru-Ping lee, Jen-Hung Wang, Kuang-Ting Yeh*. (2022 Sep.) Correlation between the Control of Blood Glucose Level and HbA1C and the Incidence of Surgical Site Infection after Emergent Surgery for the Lower Limb Fracture among Type II DM Patients Aged More Than 50 Years Old. *Journal of Clinical Medicine*. 11(19):5552. (SCI)
10. Hsin-Han Hsieh, Wen-Tien Wu, Jui-Tien Shih, Jen-Hung Wang, Kuang-Ting Yeh*. (2022 Sep). Incidence of Carpal Tunnel Syndrome Requiring Surgery May Increase in Patients Treated with Trigger Finger Release: A Retrospective Cohort Study. *Clinical Epidemiology*. 14:1079-1086. (SCI)
11. Jie-Ren Mi Le, Kuang-Ting Yeh, Chih-Wei Chen, Fu-Shan Jaw, Shu-Hua Yang*, Wen-Tien Wu*. (2022 Nov). Quantitative evaluation of correlation between lumbosacral lordosis and pelvic incidence in standing position among asymptomatic Asian adults: a prospective study. *Scientific Reports*. 12(1):18965. *Contributed equally. (SCI)
12. Hao-Wen Chen, Wen-Tien Wu, Jen-Hung Wang, Cheng-Li Lin, Chung-Yi Hsu, Kuang-Ting Yeh*. (2023 Jan). The Risk of Venous Thromboembolism after Thoracolumbar Spine Surgery: A Population-Based Cohort Study. *Journal of Clinical Medicine*. 12(2):613. (SCI)
13. Ting-Yu Wu, Wen-Tien Wu, Ru-Ping Lee, Ing-Ho Chen, Tzai-Chiu Yu, Jen-Hung Wang, Kuang-Ting Yeh*. (2023 Mar). Tramadol May Increase Risk of Hip Fracture in Older Adults with Post-Traumatic Osteoarthritis. *Journal of Personalized Medicine*. 13(4):580. (SCI)
14. Hao-Wen Chen, Wen-Tien Wu, Jen-Hung Wang, Chung-Yi Hsu, Kuang-Ting Yeh*. (2023 May). Epidural Analgesic Injections and the Risk of Osteoporosis in spondylosis patients: A Nationwide Population-Based Cohort Study. *Pain Physician*. 26(3):307-316. (SCI)
15. Hua-Yong Tay, Wen-Tien Wu, Cheng-Huan Peng, Kuan-Lin Liu, Tzai-Chiu Yu, Ing-Ho Chen, Ting-Kuo Yao, Chia-Ming Chang, Jian-Yuan Chua, Jen-Hung Wang, Kuang-Ting Yeh*. (2023 Sep). COVID-19 Infection Was Associated with the Functional Outcomes of Hip Fracture among Older Adults during the COVID-19 Pandemic Apex. *Medicina-Lithuania* 59(9):1640. (SCI)
16. Guan-Yu Chen, Wen-Tien Wu, Ru-Ping Lee, Ing-Ho Chen, Tzai-Chiu Yu, Jen-Hung Wang, Kuang-Ting Yeh*. (2023 Oct). Incidence of Acute Upper Gastrointestinal Bleeding and Related Risk Factors among Elderly Patients Undergoing Surgery for Major Limb Fractures: An Analytical Cohort Study. *Healthcare*. 11(21):2853. (SCI)