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Specialized in:
Cervical spondylosis/cervical spondylotic myelopathy
Degenerative lumbar disease
Spine infection

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Member of:
Taiwan Orthopaedic Association, TOA
Taiwan Spine Society, TWSS
Taiwan Orthopaedic Trauma Association, TOTA
Taiwan Society of Minimally Invasive Spine Surgery, TSMISS
Taiwan Bone Muscle Joint Total Care Association, TBMJ

Reviewer of:
1. BMC musculoskeletal disorders
2. SPINE

Publications:

1. Chao, H., Tsai, T. T., Yeh, Y. C., **Chiu, P. Y.**, Kao, F. C., Hsieh, M. K., ... & Niu, C. C. (2022). Latest Advances in Minimally Invasive Spine Surgery for Treatment of Infectious Spondylitis. *Journal of Musculoskeletal Research*.
2. Luo, C. A., Lim, A. S., Lu, M. L., **Chiu, P. Y.**, Lai, P. L., & Niu, C. C. (2022). The surgical outcome of multilevel anterior cervical discectomy and fusion in myelopathic elderly and younger patients. *Scientific Reports*, 12(1), 1-9.
3. Kao, F. C., Ho, H. H., **Chiu, P. Y.**, Hsieh, M. K., Liao, J. C., Lai, P. L., ... & Lin, Z. H. (2022). Self-assisted wound healing using piezoelectric and triboelectric nanogenerators. *Science and Technology of Advanced Materials*, 23(1), 1-16.
4. Wang, S. F., Hung, S. F., Tsai, T. T., Li, Y. D., **Chiu, P. Y.**, Hsieh, M. K., & Kao, F. C. (2021). Better Functional Outcome and Pain Relief in the Far-Lateral-Outside-in Percutaneous Endoscopic Transforaminal Discectomy. *Journal of pain research*, 14, 3927-3934. <https://lib3.cgmh.org.tw:30072/10.2147/JPR.S342928>
5. Lai, P. J., Wang, S. F., Tsai, T. T., Li, Y. D., **Chiu, P. Y.**, Hsieh, M. K., & Kao, F. C. (2021). Percutaneous Endoscopic Interbody Debridement and Fusion for Pyogenic Lumbar Spondylodiskitis: Surgical Technique and the Comparison With Percutaneous Endoscopic Drainage and Debridement. *Neurospine*, 18(4), 891.
6. Wang, S. F., Lai, P. L., Liu, H. F., Tsai, T. T., Lin, Y. C., Li, Y. D., **Chiu, P. Y.**, Hsieh, M. K., & Kao, F. C. (2021). Risk Factors of Coexisting Septic Spondylitis and Arthritis: A Case-Control Study in a Tertiary Referral Hospital. *Journal of clinical medicine*, 10(22), 5345.

7. Chi, J. E., Ho, C. Y., **Chiu, P. Y.**, Kao, F. C., Tsai, T. T., Lai, P. L., & Niu, C. C. (2021). Minimal invasive fixation following with radiotherapy for radiosensitive unstable metastatic spine. *Biomedical Journal*.
8. Yuan, H., **Chiu, P. Y.**, & Chen, C. F. (2021). Paper-based analytical devices for point-of-care blood tests. *Biomicrofluidics*, 15(4), 041303.
9. Hung, S. F., Liao, J. C., Tsai, T. T., Li, Y. D., **Chiu, P. Y.**, Hsieh, M. K., & Kao, F. C. (2021). Comparison of outcomes between indirect decompression of oblique lumbar interbody fusion and MIS-TLIF in one single-level lumbar spondylosis. *Scientific reports*, 11(1), 12783.
10. Li, Y. D., Chi, J. E., **Chiu, P. Y.**, Kao, F. C., Lai, P. L., & Tsai, T. T. (2021). The comparison between anterior and posterior approaches for removal of infected lumbar interbody cages and a proposal regarding the use of endoscope-assisted technique. *Journal of orthopaedic surgery and research*, 16(1), 386.
11. Lin, T. Y., Chuang, Y. C., Kao, F. C., **Chiu, P. Y.**, Tsai, T. T., Fu, T. S., & Lai, P. L. (2021). Early detection and intervention for acute perforated peptic ulcer after elective spine surgeries: a review of 13 cases from 24,026 patients. *BMC musculoskeletal disorders*, 22(1), 548.
12. **Chiu, P. Y.**, Kao, F. C., Hsieh, M. K., Tsai, T. T., Chen, W. J., Niu, C. C., & Lai, P. L. (2021). In Reply: A Retrospective Analysis in 1347 Patients Undergoing Cement Augmentation for Osteoporotic Vertebral Compression Fracture: Is the Sandwich Vertebra at a Higher Risk of Further Fracture?. *Neurosurgery*, 89(1), E74–E75.
13. **Chiu, P. Y.**, Kao, F. C., Hsieh, M. K., Tsai, T. T., Chen, W. J., Niu, C. C., & Lai, P. L. (2021). In Reply: A Retrospective Analysis in 1347 Patients Undergoing Cement Augmentation for Osteoporotic Vertebral Compression Fracture: Is the Sandwich Vertebra at a Higher Risk of Further Fracture?. *Neurosurgery*, 88(6), E564–E565.
14. **Chiu, P. Y.**, Kao, F. C., Hsieh, M. K., Tsai, T. T., Chen, W. J., Niu, C. C., & Lai, P. L. (2021). A Retrospective Analysis in 1347 Patients Undergoing Cement Augmentation for Osteoporotic Vertebral Compression Fracture: Is the Sandwich Vertebra at a Higher Risk of Further Fracture?. *Neurosurgery*, 88(2), 342–348.
15. **Chiu, P. Y.**, Chi, J. E., Kao, F. C., Hsieh, M. K., & Tsai, T. T. (2020). Minimally Invasive Surgery Combining Cortical Bone Trajectory Screws and Pedicle Screws to Treat Spondylodiskitis: Technical Notes and Preliminary Results. *World neurosurgery*, 135, e333–e338.
16. Hsieh, M. K., Kao, F. C., **Chiu, P. Y.**, Chen, L. H., Yu, C. W., Niu, C. C., Lai, P. L., & Tsai, T. T. (2019). Risk factors of neurological deficit and pulmonary cement embolism after percutaneous vertebroplasty. *Journal of orthopaedic surgery and research*, 14(1), 406.
17. Kao, F. C., **Chiu, P. Y.**, Tsai, T. T., & Lin, Z. H. (2019). The application of nanogenerators and piezoelectricity in osteogenesis. *Science and technology of advanced materials*, 20(1), 1103–1117.
18. Chang, C. W., Fu, T. S., Lin, D. Y., Lai, P. L., **Chiu, P. Y.**, Kao, F. C., Tsai, T. T., & Hsieh, M. K. (2019). Percutaneous Balloon Kyphoplasty and Short Instrumentation Compared with Traditional Long Instrumentation for Thoracolumbar Metastatic Spinal Cord Compression. *World neurosurgery*, 130
19. **Chiu, P. Y.**, & Liao, J. C. (2019). Surgical outcomes in thoracolumbar fractures with pure conus medullaris syndrome. *Biomedical journal*, 42(4), 277–284.
20. Kao, F. C., Huang, Y. J., **Chiu, P. Y.**, Hsieh, M. K., & Tsai, T. T. (2019). Factors Predicting the Surgical Risk of Osteoporotic Vertebral Compression Fractures. *Journal of clinical medicine*, 8(4), 501.

21. Liao, J. C., ***Chiu, P. Y.***, Chen, W. J., Chen, L. H., & Niu, C. C. (2016). Surgical outcomes after instrumented lumbar surgery in patients of eighty years of age and older. *BMC musculoskeletal disorders*, 17(1), 402.