

CURRICULUM VITAE

NAME: Fu-Cheng Kao

SEX: Male

BIRTH DATE: Jan. 24, 1984

BIRTH PLACE: Tainan, Taiwan, Republic of China

CITIZENSHIP: Taiwan, R.O.C.

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LANGUAGE: Chinese, Taiwanese, English

MEDICAL SCHOOL EDUCATION:

Chang Gung University, graduated in June, 2003

ACADEMIC APPOINTMENT:

Fellow of Orthopedics Department of Chang Gung Memorial Hospital

POSTDOCTORAL TRAINING:

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|-----------------|---|------------------------|
| 8/2010 - 6/2014 | Chang Gung Memorial Hospital Orthopedics | Resident |
| 7/2014 - 6/2015 | Chang Gung Memorial Hospital Orthopedics | Chief Resident |
| 7/2015 - 7/2016 | Chang Gung Memorial Hospital Spinal section of Orthopedics | Fellow |
| 7/2016 - 7/2017 | Chang Gung Memorial Hospital Spinal section of Orthopedics | Attending Staff |
| 7/2017 - 7/2019 | Chang Gung Memorial Hospital Spinal section of Orthopedics | Lecturer |
| 7/2019 - now | Chang Gung Memorial Hospital Spinal section of Orthopedics | Assistant Professor |

BOARD CERTIFICATION:

LICENSE RS:

1. Chinese Medical License: No 044459, Sep.30, 2009
2. 執業執照：桃衛醫執第D08988號 Aug. 13, 2010
3. Chinese Orthopedic Asso. License: 骨專醫字第001979號

- RESEARCH INTEREST:**
- 1). Spinal Surgery
 - 2). Spinal MIS surgery
 - 3.) Spine infection surgery
 - 4.) Traumatology

PROFESSIONAL AFFILIATIONS:

1. Active Member of Formosa Medical Association
2. Active Member of Orthopedic Association of R.O.C.
3. Active Member of Taiwan Society of Minimally Invasive Spine Surgery

PRESENTATIONS:

1. Symptomatic epidural hematoma after lumbar decompression surgery.

Annual Meeting of Orthopedic Association, 2011

2. Graft-Bone Revascularization after Double Bundle Anterior Cruciate

Ligament Reconstruction: A Biomechanical Model and Dynamic MRI Study

Annual Meeting of Orthopedic Association, R.O.C., 2012

3. Percutaneous Endoscopic Debridement and Irrigation for Treating of Pyogenic Spondylodiskitis in Patients with Sepsis

The Annual Spring Meeting of Orthopaedic Association, ROC., 2013.

4. Antibiotic-Impregnated-Cement Cystolithiasis in a Recurrent Periprosthetic Hip Infection

Annual Meeting of Orthopedic Association, R.O.C., 2014

5. Acute Perforated Peptic Ulcer after Elective Spine Surgeries

Annual Meeting of Orthopedic Association, R.O.C., 2016

6. Additional Vertebral Augmentation with Posterior Instrumentation for Unstable Thoracolumbar Burst Fractures

Annual Meeting of Orthopedic Association, R.O.C., 2017

7. Secure spinal fixation for osteoporotic patients with the innovative dual-trajectory technique: a surgical technique and case series

Annual Meeting of Orthopedic Association, R.O.C., 2017

8. Secure spinal fixation for osteoporotic patients with the innovative dual-trajectory technique: a surgical technique and case series

14th annual meeting of department of orthopedic surgery, graduate school of medicine, Chiba University, Japan. 2017

RESEARCH PROJECTS:

1. **CMRPG3H1211** Bone fusion assisted with self-powered Triboelectric nanogenerator
2. **MOST 108 - 2314 - B - 182A - 011** The application of plantar pressure in idiopathic scoliosis and thoracolumbar compression fracture: diagnosis, preoperative classification, surgical indication and prognosis

PUBLICATIONS:

1. **Fu-Cheng Kao**, Suresh Bahadur Thapa, Meng-Ling Lu, Tsung-Ting Tsai*, Po-Liang Lai, Chi-Chien Niu, Lih-Huei Chen, Wen-Jer Chen.: Costotransversectomy Approach for Treatment of Thoracic Spine Infection. *Formosan Journal of Musculoskeletal Disorders*, Vol.5(2): P59–67. 2014/03/01. DOI: 10.6492/FJMD.2014.0502.002
2. **Fu-Cheng Kao**, Tsung-Ting Tsai*, Lih-Huei Chen, Po-Liang Lai, Tsai-Sheng Fu, Chi-Chien Niu, Natalie Yi-Ju Ho, Wen-Jer Chen, Chee-Jen Chang.: Symptomatic epidural hematoma after lumbar decompression surgery. *Eur Spine J*. Vol.24(2):348-57. 2015 Feb; doi: 10.1007/s00586-014-3297-8. Epub 2014 Apr 24. **(SCI) (SCI ; IF=2.634 ; Orthopedics 20/77)**
3. **Fu-Cheng Kao**, Ming-Kai Hsieh *, Chia-Wei Yu, Tsung-Ting Tsai, Po-Liang Lai, Chi-Chien Niu, Lih-Huei Chen, Wen-Jer Chen: Additional vertebral augmentation with posterior instrumentation for unstable thoracolumbar burst fractures. *Injury, Int. J. Care Injured*. Vol.48:1806–1812. 2017. **(SCI) (SCI ; IF: 2.199 ; Orthopedics 31/77)**
4. **Kao Fu-Cheng**, Tsung-Ting Tsai*, Chi-Chien Niu, Po-Liang Lai, Lih-Huei Chen, Wen-Jer Chen.: One-stage posterior approaches for treatment of thoracic spinal infection: Transforaminal and costotransversectomy, compared with anterior approach with posterior instrumentation. *Medicine (Baltimore)*. Vol.96(42):e8352. 2017 **(SCI) (SCI ; IF: 2.028 ; Medicine, General & Internal 56/154)**
5. Arun-Kumar Kaliya-Perumal, Meng-Ling Lu, **Fu-Cheng Kao**, Chi-Chien Niu*: Delayed extensive lumbar sub-dural effusion following discectomy - Clinical imaging and case report. (case report) *BioMedicine*. Vol.7(1):35-38, Mar. 2017.
6. Ming-Kai Hsieh, **Fu-Cheng Kao***, Wen-Jer Chen, I-Jung Chen, Sheng-Fen Wang: The influence of spinopelvic parameters on adjacent-segment degeneration after

short spinal fusion for degenerative spondylolisthesis. *J Neurosurgery Spine*.

Vol.29:407-413, Oct. 2018. (SCI ; IF: 2.761 ; Surgery 51/200)

7. **Kao, F.-C.**; Huang, Y.-J.; Chiu, P.-Y.; Hsieh, M.-K.; Tsai, T.-T. Factors Predicting the Surgical Risk of Osteoporotic Vertebral Compression Fractures. *J. Clin. Med.* **2019**, *8*, 501. (SCI)
8. **Fu-Cheng Kao**, Ping-Yeh Chiu, Tsung-Ting Tsai & Zong-Hong Lin. The application of nanogenerators and piezoelectricity in osteogenesis. *Science and Technology of Advanced Materials*, 2019, 20:1, 1103-1117 (SCI)
9. Chiu, Ping-Yeh, Jia-En Chi, **Fu-Cheng Kao**, Ming-Kei Hsieh, and Tsung-Ting Tsai. "Minimally Invasive Surgery Combining Cortical Bone Trajectory Screws and Pedicle Screws to Treat Spondylodiskitis: Technical Notes and Preliminary Results." *World Neurosurgery* 135 (2020/03/01/ 2020): e333-e38.
10. Hsieh, Ming-Kai, **Fu-Cheng Kao**, Ping-Yeh Chiu, Lih-Huei Chen, Chia-Wei Yu, Chi-Chien Niu, Po-Liang Lai, and Tsung-Ting Tsai. "Risk Factors of Neurological Deficit and Pulmonary Cement Embolism after Percutaneous Vertebroplasty." [In eng]. *Journal of orthopaedic surgery and research* 14, no. 1 (2019): 406-06.
11. Chang, Chia-Wei, Tsai-Sheng Fu, Dong-Yi Lin, Po-Liang Lai, Ping-Yeh Chiu, **Fu-Cheng Kao**, Tsung-Ting Tsai, and Ming-Kai Hsieh. "Percutaneous Balloon Kyphoplasty and Short Instrumentation Compared with Traditional Long Instrumentation for Thoracolumbar Metastatic Spinal Cord Compression." *World Neurosurgery* 130 (2019/10/01/ 2019): e640-e47.
12. Tseng, Yu-Wen, **Fu-Cheng Kao**, Chao-Yaug Liao, and Tsung-Ting Tsai. "Development of a Dual-Trajectory Guide Plate Using Additive Manufacturing for Patients with Osteoporosis." *International Journal of Automation and Smart Technology* 8 (11/30 2018): 167-72.

Signature: _____

Date: _____