

Personal Information:

Chien-Min Chen, MD, PhD.

Present Position: Director of minimally invasive spine center, Changhua Christian Hospital  
Assistant professor, School of Medicine, Kaohsiung Medical University



Education:

M.D., Chung-Shan Medical University (1982/9 ~ 1993/6)

PhD candidate in National Taiwan University  
Neurosurgery department of Changhua Christian Hospital (2005/4~2006/12)

Clinical Fellow in Neurosurgery, Chang Gung Memorial Hospital (2007/ 1~ 2007/1)

Clinical Fellow in Neurosurgery, National Taiwan University (2007/3~ 2007/4)

Clinical Fellow in Neurosurgery, Taipei Veterans General Hospital (2007/6~ 2007/7)

Board Certification:

Board of Surgery, Taiwan Surgical Association.

Board of Surgery, Taiwan Surgical Association.

Board of Neurosurgery, Taiwan Neurosurgical Society.

Board of Taiwan Surgical intensive care

Board of Taiwan neurological intensive care

Professional Affiliations: (Medical Organizations or Societies).

Member, Taiwan Surgical Association.

Member, Taiwan Neurosurgical Society.

Member, Taiwan Society of Critical Care Medicine.

Member, Taiwan Society of pediatric neurosurgery

Member, Taiwan Neurospinal Society

Board member, Taiwan Society of skull base

Supervisor, Taiwan Society of Minimally Invasive Spine Surgery.

Executive presidium, International Society of Endoscopic Spine Surgery

Board member, World Congress on Minimally Invasive Spine Surgery and Techniques

Association (WCMISST association)

Professional specialty:

Full endoscopic discectomy  
Minimally invasive spine surgery  
Total navigation in spine surgery  
Endoscopic removal of ICH  
Ventricular endoscopic surgery  
Neuro Oncology  
Vascular Neurosurgery  
Endoscopic transnasal pituitary surgery  
Skull base surgery  
Neurotraumatology

Publication:

1. Chien-Min Chen, Chii-Wen Chou, Mu-Tai Liu, Tong-Hao Chang, Kun-Tu Yeh  
Oculomotor schwannoma inside the cavernous sinus: A case report. *Changhua J Med*  
2005. Vol. No2
2. Chih-Chuan Yang, M.D., Hung-Chang Chen, M.D., Chien-Min Chen, M.D.  
Endoscopic resection of a presacral schwannoma-Case report *J. Neurosurg: Spine /*  
Volume 7 / July, 2007 SCI
3. Yu-Ray Shen MD, Hwa-Jeng Yan MD, Chien –Min Chen, MD Inflammatory  
demyelinating disease mimicking an intra-medullary cervical cord tumor: a case  
report *Annals of Neurosurgery* 2009; 9(1):1-4
4. Chien-Chih Huang, MD, Shao-Lun Tsao, MD, Chan-Yuan Cheng, MD, Ming-Tai Hsin,  
MD, Chien-Ming Chen, MD\* Treating Frozen Shoulder with Ultrasound-Guided  
Pulsed Mode Radiofrequency Lesioning of the Suprascapular Nerve: Two Casesp  
*Pain Medicine* 2010; 11: 1837–1840 SCI Corresponding author\*
5. Chien-Min Chen, Ying-Chih Chen, Pei-Yi Chu, Lu-Ting Kuo A cystic lesion in the  
fourth ventricle *Journal of Clinical Neuroscience* 18 (2011) 1229 SCI
6. Chien-Min Chen, Abel Po-Hao Huang, Lu-Ting Kuo, Yong-Kwang Tu Contemporary  
surgical outcome for skull base meningiomas *Neurosurg Rev* (2011) 34:281–296  
SCI
7. Lu-Ting Kuo, M.D., Ph.D., Chien-Min Chen\*, M.D., Chien-Hsun Li, Early  
endoscope-assisted hematoma evacuation in patients with supratentorial

intracerebral hemorrhage: case selection, surgical technique, and long-term results  
Neurosurg Focus 30 (4):E9, 2011 SCI \* Drs. Kuo and Chen contributed equally to  
this work.

8. Chia-Chen Hsu, Yu-Wei Leu, Min-Jen Tseng, Kuan-Der Lee, Tzen-Yu Kuo, Jia-Yi Yen,  
Yen-Ling Lai, Yi-Chen Hung, Wei-Sheng Sun, Chien-Min Chen Functional  
characterization of Trip10 in cancer cell growth and survival Journal of  
Biomedical Science 2011, 18:12 SCI

9. Ming-Tai Hsing MD, Chien-Min Chen MD\* IgG4 related hypophysitis presenting  
as a pituitary adenoma with systemic disease-report a case Asian Journal of  
Surgery 9 Apr 2012 Corresponding author\* SCI

10. Abel Po-Hao Huang, Sheng-Jean Hong, Wei-Chen , Chien-Min Chen Minimally  
invasive surgery for acute noncomplicated epidural hematoma: an innovative  
endoscopic-assisted method 2012-09 The Journal of trauma and acute care surgery  
SCI

11. Yu-Jen Yang, Shang-Wun Jhang, Chien-Min Chen, Functional preservation of  
deep brain stimulation electrodes after brain shift induced by traumatic subdural  
haematoma - case report. Br J Neurosurg. 2012 Nov 2 . SCI

12. Hueng DY, Ma HI, Chen CM. Letter to the Editor: Cushing's disease and dural  
invasion. J Neurosurg. 2012 May 11 SCI

13. Huang AP, Chen CM, Lai HS Posterior Transthecal Approach for Repair of  
Cauda Equina Fibers and Ventral Dural Laceration in Lumbar Burst Fracture: A Novel  
Surgical Technique. Spine (Phila Pa 1976). 2013 Aug 15;38(18):E1156-E1161 SCI \*  
Drs. Huang and Chen contributed equally to this work.

14. Yen-Po Cheng, Chien-Min Chen, Dueng-Yuan Hueng "Letter to the editor.  
Complex regional pain syndrome" Spine / Volume 20 / April 2014

15. Shang-Wun Jhang, Chien-Min Chen Spontaneous Spinal Epidural Hematoma  
Due to Rupture of a Spinal Epidural Arteriovenous Fistula Journal of medical  
science

16. Chien-Min Chen, Ya-Pei Chang, Lih-Seng Yeh    Minimally Invasive Cannula Approach for Lumbar Decompression: An Innovative Technique in a Canine Model  
Journal of Neuroscience and Neuroengineering Vol. 2, pp. 1–5, 2013
17. Abel Po-Hao Huang, Jui-Chang Tsai, Lu-Ting Kuo, Chung-Wei Lee, Hong-Shiee Lai, Li-Kai Tsai, Sheng-Jean Huang, Chien-Min Chen, Clinical Application of Perfusion Computed Tomography in Neurosurgery  
Journal of Neurosurgery 2014 Feb;120(2):473-488.
18. Chun-Yuan Cheng, Ming-Tai Hsing, Yung-Hsiang Chen, Sey-Lin Wu, Hiu Ngar Sy, Chien-Min Chen Deep brain stimulation for Parkinson's disease using frameless technology  
June 2014, Vol. 28, No. 3 , Pages 383-386 SCI
19. Meng-Yin Yang, Hsu-Tung Lee, Chien-Min Chen    Celecoxib Suppresses the Phosphorylation of STAT3 Protein and Can Enhance the Radiosensitivity of Medulloblastoma-Derived Cancer Stem-Like Cells    Int. J. Mol. Sci. 2014, 15, 11013-11029 SCI
20. Meng-Yin Yang, Ming-Tsang Chiao, Hsu-Tung Lee, Chien-Min Chen    An innovative three-dimensional gelatin foam culture system for improved study of glioblastoma stem cell behavior    Journal of Biomedical    26 JUN 2014 SCI
21. Chien-Min Chen, Ping-Yi Lin, Ying-Chieh Chen    Effects of teriparatide on lung function and pain relief in women with multiple osteoporotic vertebral compression fractures    Surgical Neurology International : Spine 2014, Vol 5, Suppl 7
22. Yen-Po Cheng, Ping-Yi Lin, Abel Po-Hao Huang, Chun-Yuan Cheng, Chien-Min Chen\* Durotomy repair in minimally invasive transforaminal lumbar interbody fusion by nonpenetrating clips    Surgical Neurology International 2014 / Vol 5 / ISSUE 1 Corresponding author\*
23. Yen-Po Cheng, Kwo-Whei Lee, Ping-Yi Lin, Abel Po-Hao Huang, Chun-Yuan Cheng, Hsin-I Ma, Chien-Min Chen\* Full-endoscopic interlaminar removal of chronic lumbar epidural hematoma after spinal manipulation    Surgical Neurology International 2014 / Vol 5 / ISSUE 1 Corresponding author\*
24. Yen-Po Cheng, Chin Lin, Ping-Yi Lin, Chun-Yuan Cheng, Hsin-I Ma, Chien-Min Chen\* Midkine expression in high grade gliomas: Correlation of this novel marker

with proliferation and survival in human gliomas *Surgical Neurology International* 2014 / Vol 5 / ISSUE 1 Corresponding author\*

25. Yu-Wei Leua, Pei-Yi Chub, Chien-Min Chen Early Life Ethanol Exposure Causes Long-Lasting Disturbances in Rat Mesenchymal Stem Cells via Epigenetic Modifications *Biochemical and Biophysical Research Communications (BBRC)* 2014 Sep 25 SCI

26. Yen-Po Cheng, M.D, Chien-Ming Chen, M.D \*, Ping-Yi Lin, Ph.D Osteoid osteoma on the way of pedicle screw insertion for spinal fusion. *The Spine Journal* 6 September 2014 Corresponding author\* SCI

27. Cheng YP, Lee KW, Lin PY, Huang AP, Cheng CY, Ma HI, Chen CM, Hueng DY. Full-endoscopic interlaminar removal of chronic lumbar epidural hematoma after spinal manipulation. *Surg Neurol Int.* 2014 Apr 19;5:55.

28. Liao CL, Chien-Ming Chen, Chang YZ, Pine (*Pinus morrissonicola* Hayata) Needle Extracts Sensitize GBM8901 Human Glioblastoma Cells to Temozolomide by Downregulating Autophagy and O6-Methylguanine-DNA Methyltransferase Expression. *J Agric Food Chem.* 2014 Oct 7. SCI

29. Chen CM, Hsieh YH, Hwang JM, Jan HJ, Hsieh SC, Lin SH, Lai CY. Fisetin suppresses ADAM9 expression and inhibits invasion of glioma cancer cells through increased phosphorylation of ERK1/2. *Tumour Biol.* 2015 May;36(5):3407-15. SCI

30. Chen CM, Syu JP, Way TD, Huang LJ, Kuo SC, Lin CT, Lin CL. BC3EE2,9B, a synthetic carbazole derivative, upregulates autophagy and synergistically sensitizes human GBM8901 glioblastoma cells to temozolomide. *Int J Mol Med.* 2015 Nov;36(5):1244-52.

31. Chen CM, Chiu L, Chen HC, Cheng CY, Shyu WC, Chou CW, Lu CY, Lin CT. Glucose Transporter Type 4 Redistribution on the Membrane Induced by Insulin through Akt in Hydrocortisone Treatment in Rat Skeletal Muscles. *Chin J Physiol.* 2015 Oct 31;58(5):294-301.

32. Cheng YP, Lee KW, Lin PY, Huang AP, Cheng CY, Ma HI, Chen CM, Hueng DY. Full-endoscopic interlaminar removal of chronic lumbar epidural hematoma after spinal manipulation. *Surg Neurol Int.* 2014 Apr 19;5:55.

33. Wang C, Chen CM, Shen F, Fang XD, Ying GY, Ren YC, Yu DF, Zhu LL, Zhu YJ, Zhang JM. Microscope-assisted endoscopic interlaminar ligation of spinal arteriovenous fistulas: technical note. *J Neurosurg Spine*. 2016 Sep; 25(3):394-7.
34. Wu ZY, Zhu YJ, Chu L, Cheng CY, Chen CM, Hui-Ting H. Full-Endoscopic Transforaminal Approach for Removal of a Spontaneous Spinal Epidural Hematoma. *World Neurosurg*. 2017 Feb;98:883.
35. Ying GY, Yao Y, Shen F, Ren YC, Chen CM, Zhu YJ. Percutaneous Endoscopic Removal of a Lumbar Epidural Angiolipoma via Interlaminar Approach: A Technical Report. *World Neurosurg*. 2017 Mar;99:59-62.
36. Chen CM, Lin CL, Chiou HL, Hsieh SC, Lin CL, Cheng CW, Hung CH, Tsai JP, Hsieh YH. Loss of endothelial cell-specific molecule 1 promotes the tumorigenicity and metastasis of prostate cancer cells through regulation of the TIMP-1/MMP-9 expression. *Oncotarget*. 2017 Feb 21;8(8):13886-13897.
37. Lin KY, Chen CM, Lu CY, Cheng CY, Wu YH. Regulation of miR-21 expression in human melanoma via UV-ray-induced melanin pigmentation. *Environ Toxicol*. 2017 Aug;32(8):2064-2069.
38. Lai CY, Chen CM, Hsu WH, Hsieh YH, Liu CJ. Overexpression of Endothelial Cell-Specific Molecule 1 Correlates with Gleason Score and Expression of Androgen Receptor in Prostate Carcinoma. *Int J Med Sci*. 2017 Sep 30;14(12):1263-1267.
39. Lin CL, Chen CM, Lin CL, Cheng CW, Lee CH, Hsieh YH. Norcantharidin induces mitochondrial-dependent apoptosis through Mcl-1 inhibition in human prostate cancer cells. *Biochim Biophys Acta*. 2017 Oct;1864(10):1867-1876.
40. Chen CM, Hsieh SC, Lin CL, Lin YS, Tsai JP, Hsieh YH. Alpha-Mangostin Suppresses the Metastasis of Human Renal Carcinoma Cells by Targeting MEK/ERK Expression and MMP-9 Transcription Activity. *Cell Physiol Biochem*. 2017 Dec; 44(4):1460-1470.
41. Ying GY, Yao Y, Shen F, Wu ZY, Chen CM, Zhu YJ. Percutaneous Endoscopic Removal of Cervical Foraminal Schwannoma via Interlaminar Approach: A Case Report. *Oper Neurosurg (Hagerstown)*. 2018 Jan 1;14(1):1-5.

42. Tsai SH, Wu HH, Cheng CY, Chen CM. Full Endoscopic Interlaminar Approach for Nerve Root Decompression of Sacral Metastatic Tumor. *World Neurosurg.* 2018 Apr;112:57-63.
43. Chin JP, Chen CM\*, Lee TH, Chou CW, Lu CY. Angiostrongylus Cantonensis-Conditioned Culture Medium Induces Myelin Basic Protein Alterations via Erk1/2 and NF- $\kappa$ B Activation in Rat RSC 96 Schwann Cells. *Chin J Physiol.* 2018 May 10;61.
44. Lin CL, Lee CH, Chen CM, Cheng CW, Chen PN, Ying TH, Hsieh YH. Protodioscin Induces Apoptosis Through ROS-Mediated Endoplasmic Reticulum Stress via the JNK/p38 Activation Pathways in Human Cervical Cancer Cells. *Cell Physiol Biochem.* 2018;46(1):322-334.
45. Wu HH, Chu L, Zhu YJ, Cheng CY, Chen CM. Percutaneous Endoscopic Lumbar Surgery via Transfacet Approach for Lumbar Synovial Cyst. *World Neurosurg.* 2018 May 11. pii: S1878-8750(18)30971-9.
46. Chu L, Yang JS, Yu KX, Chen CM, Hao DJ, Deng ZL. Usage of bone wax to facilitate percutaneous endoscopic cervical discectomy via anterior transcorporeal approach for cervical intervertebral disc herniation. *World Neurosurg.* 2018 Jul 16.
47. Chu L, Yang JS, Yu KX, Chen CM, Hao DJ, Deng ZL. Percutaneous endoscopic retrieval of intraspinal cement leakage: a technical note. *World Neurosurg.* 2018 Jul 16. pii: S1878-8750(18)31522-5.
48. Yang JS, Chu L, Deng R, Chen CM, Wang XF, Xie PG, Yu KX, Rong LM, Hao DJ, Wei JM, Deng ZL. Treatment of Single-Level Thoracic Tuberculosis by Percutaneous Endoscopic Debridement and Allograft via the Transforaminal Approach Combined with Percutaneous Pedicle Screw Fixation: A Multicenter Study with a Median Follow-Up of 36 Months. *World Neurosurg.* 2018 Nov 19. pii: S1878-8750(18)32637-8. \*Lei Chu, Jun-Song Yang, Rui Deng, Chien-Min Chen, Xiang-Fu Wang, and Jian-Min Wei are co-first authors.
49. Yang JS, Chu L, Chen CM, Wang XF, Xie PG, Deng R, Yu KX, Shi L, Zhang ZX, Rong LM, Hao DJ, Deng ZL. Foraminoplasty at the Tip or Base of the Superior Articular Process for Lateral Recess Stenosis in Percutaneous Endoscopic Lumbar

Discectomy: A Multicenter, Retrospective, Controlled Study with 2-Year Follow-Up. Biomed Res Int. 2018 Dec.

50. Ying GY, Chang KS, Tang YJ, Cheng CY, Zhu YJ, Chen CM\*. Utilizing real-time contrast medium to detect the fistula of giant spinal arachnoid cyst and treat with minimal invasive surgery. BMC Surg. 2019 Jan 21;19(1):11.