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Main research areas:

Spinal Surgery, Epilepsy Surgery, Human *in vivo* Electrophysiology.

Department

Department of Neurosurgery

Department of Brain and Cognitive Science

Affiliation

Seoul National University College of Medicine

Seoul National University Hospital

Education

Feb, 1983. M.D., Seoul National University College of Medicine

Feb, 1993. Ph.D., Seoul National University Graduate School

Academic career and positions:

1983 - 1988	Internship and Residency, Department of Neurosurgery, Seoul National University Hospital
1988 - 1991	Army Surgeon, Armed Forces, Korea
1991 - 1993	Clinical Fellow, Department of Neurosurgery, Seoul National University Hospital
1993 - 1995	Instructor, Department of Neurosurgery, Seoul National University College of Medicine
1995 - 1997	Research Fellow, Department of Neurosurgery, Cleveland Clinic Foundation, OH, USA
1997 - 2000	Assistant Professor, Department of Neurosurgery, Seoul National University College of Medicine
2000 - 2006	Associate Professor, Department of Neurosurgery, Seoul National University College of Medicine
Since 2006	Professor, Department of Neurosurgery, Seoul National University College of Medicine
2010 - 2014	Professor and Chairman, Department of Neurosurgery, Seoul National University College of Medicine
Since 2013	Professor, Department of Brain and Cognitive Sciences, Seoul National University College of

Natural Sciences

Professional Career

- 2009-2014 President, Korean Research Society of Spinal Oncology
- 2010-2016 President, Korean Chapter of International Society for Minimally Invasive Spine Surgery
- 2012-2016 President, Korean Society of Bioelectromagnetism
- 2012 Congress President, Asian Epilepsy Surgery Society
- 2014-2016 President, Korean Society of Human Mapping
- 2014-2015 President, Korean Spinal Neurosurgery Society
- 2014 Congress President, Asia Spine
- 2016 Congress Chair, Bio-Mag
- 2012-present Member, National Academy of Medicine of Korea
- 2019-present Member, The Korean Academy of Science and Technology

Honours and awards:

- 2009 100 Excellent National Research and Development Achievements, "Measurement of the brain's magnetic signal and Distribution of its analysis method for studies on brain/cognitive science", Ministry of Education and Science Technology
- 2010 Award of Merit for Health Industry Technologies, Minister's Award by Ministry of Health and Welfare on Medical Appliances
- 2013 Global Creative and Convergence Researcher Award (글로벌 창의융합 연구자), Seoul National University
- 2015 "Shim Ho Seob" Academic Award, Seoul National University College of Medicine & Seoul National University Hospital

Selected funded research grants:

- 2006-2015 Investigation of the mechanism of chronic pain by identifying cortical neurophysiological levels of network characteristics of the sensory motor. Funded by National Research Foundation of Korea.
- 2009-2013 Cortical EEG (ECoG) based BMI system development and application of wireless BMI-chip on human. Funded by National Research Foundation of Korea.
- 2009-2014 The analysis of the brain function of sound perception with spatial and temporal complexity. Funded by National Research Foundation of Korea.
- 2014-2015 Using the measurements of evoked potentials and the development of standard surgical monitoring devices. Funded by Seoul Business Agency.

2014-2016 The analysis and control of brain network of pain with a spatial and temporal complexity Funded by National Research Foundation of Korea.

Publications

1. Chung CK, Jung HW, Han DH, Chang KH. Management of Aneurysm of the Petrous Portion of the Internal Carotid Artery by Balloon Technique: A Case Report. *J Korean Neurosurg Soc.* 1985 Mar;14(1):207-210.
2. Chung CK, Han DH. The Relationship Between CT Findings and Cerebral Vasospasm in Cerebral Aneurysms. *J Korean Neurosurg Soc.* 1986 Mar;15(1):85-96.
3. Chung CK, Wang KC, Lee SH, Kim DG, Jung HW, Kim JH, Cho BK, Chi JG, Choi KS. Diagnosed and Treatment of Sphenoid Sinus Mucoceles with Intracranial Extension. *J Korean Neurosurg Soc.* 1986 Dec;15(4):699-708.
4. Wang KC, Chung CK, Jung HW, Kim DG, Cho BK, Han DH, Choi KS, Sim BS. Neurocysticercosis-New Aspects of Diagnosis and Management after the Introduction of ELISA and Praziquantel. *J Korean Neurosurg Soc.* 1986 Dec;15(4):725-732.
5. Han DH, Chung CK. Superior Temporal Gyrus Approach to Middle Cerebral Artery Aneurysms. *J Korean Neurosurg Soc.* 1987 Dec;16(4):1083-1090.
6. Lee SH, Chung CK, Choi KS. Ependymal Cyst: A Case Report. *J Korean Neurosurg Soc.* 1988 Jun;17(3):597-602.
7. Kim JH, Chung CK, Wang KC, Seo YL, Chi JG, Cho BK. Ganglioglioma: A Case Report. *J Korean Neurosurg Soc.* 1989 Mar;18(3):472-476.
8. Han DH, Chung CK, Jung HW. The Therapeutic Effect of Nizofenone in the Acute Stage Following Subarachnoid Hemorrhage. *J Korean Neurosurg Soc.* 1992 Jan;21(1):30-35.
9. Chung CK, Jung JM, Lee SH, Han DH. Analysis of Mortality and Morbidity in Subarachnoid Hemorrhage. *J Korean Neurosurg Soc.* 1992 Mar;21(3):301-310
10. Lee JI, Chung CK, Han DH. Aneurysms of the Proximal Anterior Cerebral Artery. *J Korean Neurosurg Soc.* 1992 Apr;21(4):373-376.
11. Jung HW, Chung CK, Chi JG, Bang YJ, Heo DS, Ahn YO, Kim IH, Kim NK, Choi KS, Han DH. Phase III Randomized Trial of ACNU in Addition to Surgery and Radiotherapy for Patients with Malignant Glioma of the Brain: A Preliminary Report. *J Korean Neurosurg Soc.* 1992 Sep;21(9):1095-1101.
12. Shin HJ, Chung CK, Park IS, Chung YS, Jung HW, Han DH. Ultrastructural Study on Microtumor Spheroids from Human Malignant Glioma Specimens Maintained in Organotypic Culture. *J Korean Neurosurg Soc.*

- 1993 Mar;22(3):382-399.
13. DH Han, CK Chung: Clinical Experience of Recombinant Tissue-Type Plasminogen Activator in the Subarachnoid Hemorrhage following the Aneurysmal Rupture, in Findlay JM(ed): Developments in Neurology 8. Cerebral Vasospasm. Elsevier:Amsterdam, 1993, pp475-478
 14. Han DH, Gwak HS, Chung CK: Aneurysm at the origin of accessory middle cerebral artery associated with middle cerebral artery aplasia: case report. Surg Neurol 42:388-391, 1994
 15. Gwak HS, Chung CK, Kim HJ, Oh CW, Chung YS, Kim DG, Jung HW, Choi KS, Han DH. The Short-term Result of Micro-Vascular Decompression in Trigeminal Neuralgia and Hemifacial Spasm. J Korean Neurosurg Soc. 1994 Apr;23(4):393-401.
 16. Sim KB, Chung CK, Kim DG, Han DH. Risk Factors of Ventriculitis Following Ventriculostomy. J Korean Neurosurg Soc. 1994 May;23(5):553-560.
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 18. Kim HJ, Chung CK. Cervical Spondylotic Myelopathy: Postoperative Results and Prognostic Factors. J Korean Neurosurg Soc. 1994 Jun;23(6):685-691.
 19. Chung CK, Han DH. Outcome of Poor Grade Subarachnoid Hemorrhage Patients: Relationship to Timing of Surgery. J Korean Neurosurg Soc. 1994 Jul;23(7):801-808.
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 21. Chung CK: Surgery for lumbar spinal stenosis. J Neurosurg 82:912, 1995
 22. Chung CK, Cho BK, Kim HY, Chi JG, Kim JJ, Han DH. Chronological Relationships between the Irreversible Vasoconstriction by the Vasodilator and the Electron Microscopic Changes of the Arterial Wall in the Rabbit Chronic Vasospasm Model. J Korean Neurosurg Soc. 1995 Nov;24(11):1313-1319.
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- Days in Neurosurgical Patients. *J Korean Neurosurg Soc.* 1996 Jul;25(7):1407-1411.
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report. *J Korean Med Sci.* 1998 Aug;13(4):445-448. English. Case Report.

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- Fluorodeoxyglucose Positron Emission Tomography: Comparative Study with Magnetic Resonance Imaging in 113 Surgically and Pathologically Proven Patients. *Korean J Nucl Med.* 1999 Apr;33(2):111-119.
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62. Lee DY, Chung CK, Hwang YS, Choe G, Chi JG, Kim HJ, Cho BK. Dysembryoplastic Neuroepithelial Tumor: radiological findings (including PET, SPECT, and MRS) and surgical strategy. *J Neurooncol* 47:167-174, 2000
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67. Kim JY, Roh JK, Chung CK. Neuronal Cytoskeletal Abnormalities and Neurotrophin Receptor Immunoreactivity in Severe Cerebral Cortical Dysplasia. *J Korean Neurol Assoc.* 2000 Mar;18(2):199-210.
68. Oh CW, Han DH, Chung CK, Cho SS, Park KH, Kim YS, Park CW. Experimental Study on the Expression of

- Striatal Dopamine Receptors in the Rat Model of Parkinsonism. *J Korean Neurosurg Soc.* 2000 Feb;29(2):155-166.
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88. Im S-H, Chung CK, Cho B-K, Wang K-C, Yu I-K, Song IC, Cheon GJ, Lee DS, Kim N-R, Chi JG. Intracranial Ganglioglioma: Preoperative Characteristics and Oncologic Outcome after Surgery. *J Neurooncol*. 2002 Sep;59(2):173-183.
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95. Lee DK, Choe WJ, Chung CK, Kim HJ. Spinal cord hemangioblastoma: surgical strategy and clinical outcome. *J Neurooncol*. 2003 Jan;61(1):27-34.

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