

CURRICULUM VITAE

Jong Hee Chang, M.D., Ph.D.

CURRENT POSITION:

Professor, Department of Neurosurgery
Director, Brain Tumor Center
Gamma Knife Center
Severance Hospital, Yonsei University Health System
Seoul, Korea

EDUCATIONAL BACKGROUND:

- Medical College, Yonsei University College of Medicine, Seoul, Korea, March 1985 – February 1991 (M.D., March 1991)
- Master of Science, Medical Science, Graduate School, Ajou University College of Medicine, Suwon, Korea, March 1994 – February 1997 (Master's Degree, February 1997)
- Ph.D., Graduate School, Yonsei University College of Medicine, Seoul, Korea, March 1999 – February 2004
- Rotating Internship, Severance Hospital, Yonsei University College of Medicine, Seoul, Korea, March 1991 – February 1992
- Residency, Department of Neurosurgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Korea, March 1992 – February 1996

MILITARY SERVICE:

- Captain, Combat Neurosurgeon, Medical Battalion of Korean Army Corps, Euijeongbu, Korea, February 1996 – April 1998
- Captain, Combat Neurosurgeon, Seoul District Hospital, Seoul, Korea, May 1998 – April 1999

PROFESSIONAL BACKGROUND:

- Clinical Fellow, Stereotactic & Functional Neurosurgery, Department of Neurosurgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Korea, May 1999 – April 2001
- Research Assistant, Department of Neurosurgery, Yonsei University College of Medicine, Seoul, Korea, May 1999 – April 2001
- Research Associate & Clinical Fellow (P.I.: Prof. Rothman SM & Prof. Park TS), Epilepsy Center, Departments of Neurosurgery & Neurology, Washington University in St. Louis, St. Louis, Missouri, USA, September 2001 – February 2003
- Visiting Clinician, Epilepsy Center, Department of Neurosurgery, Cleveland Clinic Foundation, Cleveland, Ohio, USA, August 2002
- Assistant Professor, Department of Neurosurgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Korea, March 2003 – February 2006
- Associate Professor, Department of Neurosurgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Korea, March 2006 – February 2012
- Research Associate, Brain Research Institute, Yonsei University College of Medicine, Seoul, Korea, 2006 – present
- Research Fellow (P.I.: Prof. Rutka JT), The Arthur and Sonia Labatt Brain Tumour Research Centre, Department of Neurosurgery, The Hospital for Sick Children, The University of Toronto, Toronto, Ontario, Canada, February 2010 – June 2011
- Professor, Department of Neurosurgery, Severance Hospital, Yonsei University College of Medicine, Seoul, Korea, March 2012 – present
- Visiting Clinician (Prof. Hugues Duffau), Department of Neurosurgery, Gui de Chauliac Hospital, Institute for Neuroscience of Montpellier, Montpellier University Medical Center, Montpellier, France, September - October 2014
- Director, Brain Tumor Center, Severance Hospital, Yonsei University Health System, Seoul, Korea, March 2016 - present

MEDICAL LICENSE:

- Medical Doctor License (Korea), March 1991
- Korean Board of Neurosurgeon, March 1996
- Critical Care Medicine Specialist, January 2009

CLINICAL INTERESTS:

Brain mapping; Awake surgery; Image-guided surgery; Role of imaging in brain tumor; Clinical trial for malignant brain tumor; and Radiosurgery

RESEARCH INTERESTS:

Translational glioma research about gene, cell signaling, radiation therapy, and chemotherapy and experimental therapeutics; and Brain tumor imaging

BIBLIOGRAPHY:

Paper Publications

- 1) Chang JW, Chang JH, Park YG, Chung SS: *Microvascular decompression in trigeminal neuralgia: a correlation of 3D-TOF MRA and surgical findings*. Stereotact Funct Neurosurg 74:167-174, 2000
- 2) Chung SS, Chang JW, Kim SH, Chang JH, Park YG, Kim DI: *Microvascular decompression of the facial nerve for the treatment of hemifacial spasm: preoperative magnetic resonance imaging related to clinical outcomes*. Acta Neurochir (Wien) 142:901-907, 2000
- 3) Chang JW, Chang JH, Park YG, Chung SS: *Gamma Knife radiosurgery for idiopathic and secondary trigeminal neuralgia*. J Neurosurg 93 (suppl 3):147-151, 2000
- 4) Chang JH, Chang JW, Park YG, Chung SS: *Factors related to complete occlusion of arteriovenous malformations after Gamma Knife radiosurgery*. J Neurosurg 93 (suppl 3):96-101, 2000
- 5) Chang JW, Chang JH, Park YG, Chung SS: *Microvascular decompression of the facial nerve for hemifacial spasm in youth*. Child's Nerv Syst 17:309-312, 2001

- 6) Chang JW, Chang JH, Park SC, Kim TS, Park YG, Chung SS: *Radiologically confirmed de novo glioblastoma multiforme and hippocampal sclerosis associated with the first onset of nonconvulsive simple partial status epilepticus - case report -*. Acta Neurochir (Wien) 143:297-301, 2001
- 7) Chung SS, Chang JH, Choi JY, Chang JW, Park YG: *Microvascular decompression for hemifacial spasm: a long-term follow-up of 1169 consecutive cases*. Stereotact Funct Neurosurg 77:190-193, 2001
- 8) Chang JW, Chang JH, Choi JY, Kim DI, Park YG, Chung SS: *Role of postoperative magnetic resonance imaging of microvascular decompression of the facial nerve for the treatment of hemifacial spasm*. Neurosurgery 50:720-726, 2002
- 9) Yang XF, Chang JH, Rothman SM: *Intracerebral temperature alterations associated with focal seizures*. Epilepsy Res 52:97-105, 2002
- 10) Chang JH, Choi JY, Chang JW, Park YG, Kim TS, Chung SS: *Chronic epidural hematoma with rapid ossification*. Child's Nerv Syst 18:712-716, 2002
- 11) Chang JH, Chang JW, Choi JY, Park YG, Chung SS: *Complications after Gamma Knife radiosurgery for benign meningioma*. J Neurol Neurosurg Psychiatry 74:226-230, 2003
- 12) Choi JY, Chang JH, Chang JW, Ha Y, Park YG, Chung SS: *Radiological and hormonal responses of functioning pituitary adenomas after Gamma Knife radiosurgery*. Yonsei Med J 44(4):602-607, 2003
- 13) Chang JH, Chang JW, Park YG, Kim TS, Kim JA, Chung SS: *Simple bone cyst occurring in calvarium*. Acta Neurochir (Wien) 145(10):927-928, 2003
- 14) Yang XF, Chang JH, Rothman SM: *Long-lasting anticonvulsant effect of focal cooling on experimental neocortical seizures*. Epilepsia 44(12):1500-1505, 2003
- 15) Yamashita T, Lee JH, Tobias S, Kim CH, Chang JH, Kwon JT: *Surgical procedure "Simplified Retrosigmoid Approach" for C-P angle lesions*. J Clin Neurosci 11(2):168-171, 2004
- 16) Chang JH, Chang JW, Park YG, Kim TS: *Cysticercosis of cerebellopontine cistern: differential diagnosis using MRI*. Acta Neurochir (Wien) 146(4):325-328, 2004
- 17) Kim DS, Yang KH, Kim TG, Chang JH, Chang JW, Choi JU, Lee BI: *The surgical effect of callosotomy in the treatment of intractable seizure*. Yonsei Med J 45(2):233-240, 2004 Apr.

- 18) Choi JU, Yang KH, Kim TG, Chang JH, Chang JW, Lee BI, Kim DS: *Endoscopic disconnection for hypothalamic hamartoma with intractable seizure*. J Neurosurg (Pediatrics 5) 100:506-511, 2004
- 19) Chang JH, Yang XF, Zempel JM, Rothman SM: *The unilateral cobalt wire model of neocortical epilepsy: a method of producing subacute focal seizures in rodents*. Epilepsy Res 61(1-3):153-160, 2004
- 20) Park YS, Chang JH, Chang JW, Chung SS, Park YG: *Gamma Knife surgery for multiple hemangioblastomas*. J Neurosurg 102 (Supple):97-101, 2005 Jan.
- 21) Chang JH, Kim JA, Chang JW, Park YG, Kim TS: *Sylvian meningioma without dural attachment in an adult*. J Neuro-Oncol 74:43-45, 2005 Aug
- 22) Kim DS, Shim KW, Kim TG, Chang JH, Park YG, Choi JU: *Pineal cavernous malformations: report of two cases*. Yonsei Med J 46(6):851-858, 2005
- 23) Park YS, Chang JH, Cho J, Park YG, Chung SS, Chang JW: *Reoperation for persistent or recurrent hemifacial spasm after microvascular decompression*. Neurosurgery 58(6):1162-1167, 2006
- 24) Jung HH, Kim CH, Chang JH, Park YG, Chung SS, Chang JW: *Bilateral anterior cingulotomy for refractory obsessive-compulsive disorder: long-term follow-up results*. Stereotact Funct Neurosurg 84(4):184-189, 2006 Aug 14
- 25) Ahn JY, Chang JH, Kim SH, Lee KS: *Pleomorphic adenocarcinoma of the lacrimal gland with multiple intracranial and spinal metastases*. World J Surg Oncol 5:29, 2007.3.7
- 26) Ahn JY, Chang JH, Kim KS, Kim WJ: *Disseminated tuberculosis with multiple intracerebral tuberculomas in a patient with anorexia nervosa*. Int J Eat Disord 40(3):288-291, 2007 Apr
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- 33) Kim EH, Ahn JY, Chang JH, Kim SH: *Management strategies of intercavernous sinus bleeding during transsphenoidal surgery*. Acta Neurochir(Wien) 151(7):803-808, 2009
- 34) Hong SJ, Kim JS, Chang JH, Kim KM, Kim SJ, Lee HW, Cheong JW, Lee ST, Min YH: *A successful treatment of relapsed primary CNS lymphoma patient with intraventricular rituximab followed by high-dose chemotherapy with autologous stem cell rescue*. Yonsei Med J 50(2):280-283, 2009
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- 53) Park J, Kim J, Yoo E, Lee H, Chang JH, Kim EY: *Detection of small metastatic brain tumors: comparison of 3D contrast-enhanced whole-brain black-blood imaging and MP-RAGE imaging*. Invest Radiol 47(2): 136-141, 2012
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- 68) Ahn SJ, Chung TS, Chang JH, Lee SK: *The added value of double dose gadolinium enhanced 3D T2 fluid-attenuated inversion recovery for evaluating small brain metastases*. Yonsei Med J 55(5): 1231-1237, 2014 Sep
- 69) Cho JM, Kim EH, Kim J, Lee SK, Kim SH, Lee KS, Chang JH: *Clinical use of diffusion tensor image-merged functional neuronavigation for brain tumor surgeries: review of preoperative, intraoperative, and postoperative data for 123 cases*. Yonsei Med J 55(5): 1303-1309, 2014 Sep
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- 71) Moon JH, Chang WS, Jung HH, Lee KS, Park YG, Chang JH: *Gamma Knife radiosurgery for facial nerve schwannomas*. J Neurosurg 121 Suppl 2: 116-122, 2014 Dec
- 72) Kim JH, Jung HH, Chang JH, Chang JW, Park YG, Chang WS: *Gamma Knife radiosurgery for intracranial chordoma and chondrosarcoma: radiosurgical perspectives and treatment outcomes*. J Neurosurg 121 Suppl 2: 188-197, 2014 Dec
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- 81) Yoon SJ, Shim JK, Chang JH, Moon JH, Roh TH, Sung KS, Lee JH, Kim EH, Kim SH, Hong YK, Lee SJ, Huh YM, Kang SG: *Tumor mesenchymal stem-like cells as a prognostic marker in primary glioblastoma*. Stem Cells Int 2016: 6756983, 2016
- 82) Park HH, Hong CK, Jung HH, Chang WS, Kim CH, Lee WS, Lee SC, Park YG, Chang JH: *The role of radiosurgery in the management of benign head and neck tumors*. World Neurosurg 87: 116-123, 2016 Mar
- 83) Lee JS, Cho JH, Chang JH, Shu CO, (co-corresponding authors): *Re-irradiation for recurrent gliomas: treatment outcomes and prognostic factors*. Yonsei Med J 57(4): 824-830, 2016 Jul

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B) BOOK CHAPTERS

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I affirm that the above statement is true and correct in every respect.

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