

Curriculum Vitae

- Name Takashi Shuto, M.D.
- Affiliated institution Department of Neurosurgery, Yokohama Rosai Hospital, Yokohama, Japan
Fax (Office): +81-45-474-8323
- Specialty Stereotactic radiation therapy, Neurosurgery (skull base surgery, vascular surgery)
- Credentials Medical License, Japan, 1989
Certified neurosurgeon (The Japan Neurological Society) 1995
Certified stroke doctor (The Japan Stroke Society) 2005
Certified vascular neurosurgeon (The Japanese Society on Surgery for Cerebral Stroke) 2017
- Experience Staff of Neurosurgery 2001 - 2008
Yokohama Rosai Hospital, Yokohama, Japan
Chief of Neurosurgery 2008 - Present
Yokohama Rosai Hospital, Yokohama, Japan
Director of stereotactic radiotherapy center 2016 – Present
Yokohama Rosai Hospital, Yokohama, Japan
- Training Yokohama City University Hospital
Department of Neurosurgery 1989 –1991
Kanagawa Children’s Hospital 1991 –1992
Yokohama Rosai Hospital 1992 –1994
Odawara Municipal Hospital 1994 –1995
Yokohama City University Hospital 1995 –2001
- Education M.D., Medicine 1989
Saga Medical college, Saga, Japan
- Publications Total: 19 first author publications in English
22 co-author publications in English
31 other articles (Review article etc)
- 01 Shuto T, Sekido K, Ohtsubo Y, Tanaka Y, Hara M, Yamaguchi K, Yamamoto I :
Choroid Plexus Papilloma of the Third Ventricle in an Infant. Child’s Nervous
System 11:664-666, 1995
- 02 Shuto T, Ohtsubo Y, Sekido K, Iwamoto H, Yamamoto I : Rapidly Growing
Calcified Cerebellar Astrocytoma in an Infant. Childs Nervous System 12:107- 109,
1996
- 03 Shuto T, Ohtsubo Y, Sekido K, Yamamoto I : Dandy-Walker Syndrome Associated

- with Occipital Meningocele and Spinal Lipoma. *Neurologia medico-chirurgica* (Tokyo) 39:544-547, 1999
- 04 Shuto T, Yamamoto I : Ocular Ischaemia with Hypoplasia of the Internal Carotid Artery Associated with Neurofibromatosis Type 1. *Acta Neurochirurgica* (Wien) 142: 353-354, 2000
- 05 Shuto T, Horie H, Hikawa N, Sango K, Tokashiki A, Murata H, Yamamoto I, Ishikawa Y : IL-6 upregulates CNTF mRNA expression and enhances neurite regeneration. *NeuroReport* 12 : 1081-1085, 2001
- 06 Shuto T, Fujino H, Asada H, Inomori S, Nagano H : Gamma Knife Radiosurgery for Metastatic Tumours in the Brain Stem. *Acta Neurochir* (Wien) 145:755-760, 2003
- 07 Shuto T, Fujino H, Inomori S and Nagano H : Repeated gamma knife radiosurgery for multiple metastatic brain tumours. *Acta Neurochir* (Wien) 146:989-993, 2004
- 08 Shuto T, Inomori S, Fujino H, Nagano H, Hasegawa N, and Kakuta Y : Cyst formation following gamma knife surgery for intracranial meningioma. *J Neurosurg Suppl*:134-139, 2005
- 09 Shuto T, Inomori S, Fujino H, Nagano H : Gamma knife radiosurgery for metastatic brain tumors from renal cell carcinoma. *J Neurosurg* 105:555-560, 2006
- 10 Shuto T, Inomori S, Fujino H : Microsurgery for Vestibular Schwannoma after Gamma Knife Radiosurgery. *Acta Neurochir* (Wien) 150:229-234, 2008
- 11 Shuto T, Inomori S, Matsunaga S, Inomori S, Fujino H : Efficacy of gamma knife surgery for control of peritumoral edema associated with metastatic brain tumors. *J Neurol Neurosurg Psychiatry* 79:1061-1065, 2008
- 12 Shuto T, Matsunaga S, Suenaga J, Inomori S, Fujino H. : Treatment strategy for metastatic brain tumors from renal cell carcinoma: Selection of gamma knife surgery or craniotomy for control of growth and peritumoral edema. *J Neurooncol* 98:169-175, 2010.
- 13 Shuto T, Matsunaga S, Suenaga J, Inomori S, Fujino H : Surgical treatment for late complications following gamma knife surgery for arteriovenous malformations. *Stereotactic and Functional Neurosurgery* 89: 96-102, 2011
- 14 Shuto T, Matsunaga S, Suenaga J : Contralateral hearing disturbance following posterior fossa surgery. Case report and review of the literature. *Neurol Med Chir* (Tokyo) 51:434-437, 2011.
- 15 Shuto T, Ohtake M, Matsunaga S, Hasegawa N : Primary medulla oblongata germinoma in a male patient. *J Clin Neurosci* 19:769-771, 2012
- 16 Shuto T, Ohtake M, Matsunaga S : Proposed mechanism for cyst formation and enlargement following gamma knife surgery for arteriovenous malformation. Clinical article. *J Neurosurg* 117 Suppl: 135-143, 2012
- 17 Shuto T, Yagishita S, Matsunaga S : Pathological characteristics of cyst formation following gamma knife surgery for arteriovenous malformation. *Acta Neurochir* (Wien) 157: 293-298, 2015.
- 18 Shuto T : Authors' reply to "Pathogenesis of radiosurgery-induced cyst formation in

- patients with arteriovenous malformation". *Acta Neurochir (Wien)* 157:779-780, 2015.
- 19 Shuto T, Matsunaga S : Two cases of cystic enlargement of vestibular schwannoma as a late complication following gamma knife surgery. *J Clin Neurosci* 33:239-241, 2016
- 20 Nagano N, Nakayama S, Asada H, Shuto T, Tanohata K, Inomori S : Tumor control probability predicts the fate of multiple metastatic brain tumors. *Radiosurgery* 5:66-76, 2004.
- 21 Yamanaka Y, Shuto T, Kato Y, Okada T, Inomori S, Fujino H, Nagano H : Ommaya reservoir placement followed by Gamma Knife surgery for large cystic metastatic brain tumors. *J Neurosurg (suppl)* 105:79-81, 2006
- 22 Nagano H, Nakayama S, Shuto T, Asada H, Inomori S : Dose Selection for Optimal Treatment Results and Avoidance of Complications. Yamamoto M (ed): *Japanese Experience with Gamma Knife Radiosurgery*. Prog Neurol Surg. Basel, Karger, vol 22, pp 11-19, 2008
- 23 Matsumoto K, Ando M, Yamauchi C, Egawa C, Hamamoto Y, Kataoka M, Shuto T, Karasawa K, Kurosumi M, Kan N, Mitsumori M : Questionnaire survey of treatment choice for breast cancer patients with brain metastasis in Japan: results of a nationwide survey by the task force of the Japanese Breast Cancer Society. *Jpn J Clin Oncol* 39:22-26, 2009
- 24 Matsunaga S, Shuto T, Inomori S, Fujino H, Yamamoto I : Gamma knife radiosurgery for intracranial haemangioblastomas. *Acta Neurochir (Wien)* 149:1007-1013, 2007
- 25 Matsunaga S, Shuto T, Suenaga J, Inomori S, Fujino H. : Gamma knife radiosurgery for central neurocytoma. *Neurol Med Chir (Tokyo)* 50:107-113, 2010
- 26 Matsunaga S, Shuto T, Kawahara N, Suenaga J, Inomori S, Fujino H : Gamma Knife surgery for metastatic brain tumors from primary breast cancer: treatment indication based on number of tumors and breast cancer phenotype. Clinical article.. *J Neurosurg* 113 Suppl:65-72 113 Suppl:65-72, 2010.
- 27 Matsunaga S, Shuto T, Kawahara N, Suenaga J, Inomori S, Fujino H : Gamma Knife surgery for brain metastases from colorectal cancer.. *J Neurosurg* 114: 782-789, 2011.
- 28 Matsunaga S, Shuto T, Takase H, Ohtake M, Tomura N, Tanaka T, Sonoda M : Semiquantitative analysis using thallium-201 SPECT for differential diagnosis between tumor recurrence and radiation necrosis after gamma knife surgery for malignant brain tumors. *Int J Radiat Oncol Biol Phys* 85:47-52, 2013
- 29 Yamamoto M, Serizawa T, Shuto T, Akabane A, Higuchi Y, Kawagishi J, Yamanaka K, Sato Y, Jokura H, Yomo S, Nagano O, Kenai H, Moriki A, Suzuki S, Kida Y, Iwai Y, Hayashi M, Onishi H, Gondo M, Sato M, Akimitsu T, et al. : Stereotactic radiosurgery for patients with multiple brain metastases (JLGK0901): a multi-institutional prospective observational study. *Lancet Oncol* 15 : 387-395, 2014
- 30 Yamamoto M, Serizawa T, Shuto T, Akabane A, Higuchi Y, Kawagishi J, Yamanaka

- K, Sato Y, Jokura H. : Stereotactic radiosurgery for patients with brain metastases - Authors' reply.. *Lancet Oncol* 15:e248, 2014
- 31 Matsunaga S, Shuto T : Long-term outcomes of gamma knife surgery for posterior fossa arteriovenous malformations. *Neurol Med Chir (Tokyo)* 54:799-805, 2014
- 32 Kano H, Shuto T, Iwai Y, Sheehan J, Yamamoto M, McBride HL, Sato M, Serizawa T, Yomo S, Moriki A, Kohda Y, Young B, Suzuki S, Kenai H, Duma C, Kikuchi Y, Mathieu D, Akabane A, Nagano O, Kondziolka D, Lunsford LD : Stereotactic radiosurgery for intracranial hemangioblastomas: a retrospective international outcome study. *J Neurosurg* 122:1469-1478, 2015
- 33 Kida Y, Hasegawa T, Iwai Y, Shuto T, Satoh M, Kondoh T, Hayashi M : Radiosurgery for symptomatic cavernous malformations: A multi-institutional retrospective study in Japan. *Surg Neurol Int* 6:S249-257, 2015
- 34 Ito H, Onodera H, Sase T, Uchida M, Morishima H, Oshio K, Shuto T, Tanaka Y. : Percutaneous transluminal angioplasty in a patient with internal carotid artery stenosis following gamma knife radiosurgery for recurrent pituitary adenoma. *Surg Neurol Int* 28;6(Suppl 7):S279-83, 2015
- 35 Minamimoto R, Saginoya T, Kondo C, Tomura N, Ito K, Matsuo Y, Matsunaga S, Shuto T, Akabane A, Miyata Y, Sakai S, Kubota K : Differentiation of brain tumor recurrence from post-radiotherapy necrosis with 11C-Methionine PET: visual assessment versus quantitative assessment . *PLOS ONE* 10:e0132515, 2015.
- 36 Nakamura T, Tateishi K, Niwa T, Matsushita Y, Tamura K, Kinoshita M, Tanaka K, Fukushima S, Takami H, Arita H, Kubo A, Shuto T, Ohno M, Miyakita Y, Kocialkowski S, Sasayama T, Hashimoto N, Maehara T, Shibui S, Ushijima T, Kawahara N, Narita Y, Ichimura K. : Recurrent mutations of CD79B and MYD88 are the hallmark of primary central nervous system lymphomas. *Neuropathol Appl Neurobiol* 42:279-290, 2016
- 37 Matsunaga S, Shuto T, Sato M. : Gamma Knife Surgery for Metastatic Brain Tumors from Gynecologic Cancer. *World Neurosurg* 89:455-463, 2016.
- 38 Nakamura T, Yamashita S, Fukumura K, Nakabayashi J, Tanaka K, Tamura K, Tateishi K, Kinoshita M, Fukushima S, Takami H, Fukuoka K, Yamazaki K, Matsushita Y, Ohno M, Miyakita Y, Shibui S, Kubo A, Shuto T, Kocialkowski S, Yamanaka S, Mukasa A, Sasayama T, Mishima K, Maehara T, Kawahara N, Nagane M, Narita Y, Mano H, Ushijima T, Ichimura K. : Genome-wide DNA methylation profiling identifies primary central nervous system lymphoma as a distinct entity different from systemic diffuse large B-cell lymphoma. *Acta Neuropathol* 133:321-324, 2017
- 39 Yamanaka K, Iwai Y, Shuto T, Kida Y, Sato M, Hayashi M, Kondo T, Hirai H, Hori R, Kubo K, Mori H, Nagano O, Serizawa T. : Treatment results of gamma knife radiosurgery for central neurocytoma: report of a Japanese multi-institutional co-operative study. *World Neurosurg* 90:300-305, 2016
- 40 Kawabe T, Yamamoto M, Sato Y, Yomo S, Kondoh T, Nagano O, Serizawa T, Tsugawa T, Okamoto H, Akabane A, Aita K, Sato M, Jokura H, Kawagishi J, Shuto T, Kawai H, Moriki A, Kenai H, Iwai Y, Gondo M, Hasegawa T, Yasuda S, Kikuchi Y, Nagatomo Y, Watanabe S, Hashimoto N : Gamma knife radiosurgery for brain

- metastases from pulmonary large cell neuroendocrine carcinoma (LCNEC): a Japanese institutional co-operative study (JLGK1401). J Neurosurg 125(Suppl 1):11-17, 2016
- 41 Yamamoto M, Serizawa T, Higuchi Y, Sato Y, Kawagishi J, Yamanaka K, Shuto T, Akabane A, Jokura H, Yomo S, Nagano O, Aoyama H. : A Multi-institutional Prospective Observational Study of Stereotactic Radiosurgery for Patients With Multiple Brain Metastases (JLGK0901 Study Update): Irradiation-related Complications and Long-term Maintenance of Mini-Mental State Examination Scores. Int J Radiat Oncol Biol Phys 99:31-40, 2017

Professional Affiliations

- The Japan Leksell Gamma Knife Society (board member and Chairman of the 16th biennial congress)
- The Asian Leksell Gamma Knife Society (board member and co-Chairman of the 4th biennial congress)
- The Japanese Society of Stereotactic Radiosurgery (board member)
- The Japan Neurosurgical Society (delegate)
- The Japan Radiosurgical Society (board member)
- The Japanese Society on Surgery for Cerebral Stroke
- The Japanese Congress of Neurological Surgeons
- The Japanese Society for Radiation Oncology
- The Japanese Society for Skull Base Surgery
- The Japan Stroke Society
- The Japanese Congress for Brain Tumor Surgery
- The Japanese Society of Occupational Medicine and Traumatology (delegate)