

# Day 1 : Friday, January 18

## Tachibana, 2F

### English Session

13:00 ~ 13:10      **Opening Ceremony**

13:10 ~ 14:55      **ALGK Symposium 1 : Evidence from Asia**

Moderators : David Hung-Chi Pan (Shuang Ho Hospital, Taiwan Medical University, Taiwan)  
Toru Serizawa (Tokyo Gamma Unit Center, Tsukiji Neurological Clinic, Japan)

**SY1-1      Key Note Lecture : How Has the JLGK0901 Study Impacted the Management of Brain Metastasis Patients?**

Masaaki Yamamoto  
Katsuta Hospital Mito GammaHouse, Japan

**SY1-2      Multicenter retrospective study for brain metastases from breast cancer:  
Impact of molecular subtype on clinical outcomes (JLGK1702)**

Kyoko Aoyagi  
Gamma Knife House, Chiba Cerebral and Cardiovascular Center, Japan

**SY1-3      Gamma Knife radiosurgery for 1-10 uncontrolled brain metastases of small-cell lung carcinoma after whole brain radiation therapy in JLGK0901 study protocol:  
a Japanese multi-institutional cooperative study (JLGK1701)**

Kiyoshi Nakazaki  
Department of Neurosurgery, Brain Attack Center Ota Memorial Hospital, Japan

**SY1-4      Results of Gamma Knife surgery for benign intracranial schwannomas in Japan**

Toshinori Hasegawa  
Department of Neurosurgery, Komaki City Hospital, Japan

**SY1-5      Factors associated with hearing preservation after Gamma knife radiosurgery for vestibular schwannoma in patients with serviceable hearing: Experience from a tertiary center in India**

Arivazhagan Arimappamagan  
Department of Neurosurgery, National Institute of Mental Health and Neurosciences, India

**SY1-6      Progress of Gamma Knife Surgery for Cerebral Arteriovenous Malformation:  
The University of Tokyo experience**

Masahiro Shin  
Department of Neurosurgery, The University of Tokyo Hospital, Japan

**SY1-7      Gamma Knife surgery of trigeminal neuralgia in the Philippines**

Theodor S. Vesagas  
Philippine Gamma Knife Center, Philippines

**15:05 ~ 16:15      ALGK General Session 1 : Vascular Disorders**

Moderators : Wen-Yuh Chung (Taipei Veterans General Hospital, Taiwan)  
Masahiro Shin (Department of Neurosurgery, The University of Tokyo Hospital, Japan)

**GS1-1      Optimal timing for Gamma knife radiosurgery for arteriovenous malformation with hemorrhage**

Chang Kyu Park  
Department of Neurosurgery, Kyung-Hee University College of Medicine, Korea

**GS1-2      Repeat radiosurgery for cerebral arteriovenous malformations**

Hisae Mori  
Department of Neurosurgery, National Cerebral and Cardiovascular Center, Japan

**GS1-3      Role of Gammaknife radiosurgery for dural arteriovenous fistulas**

Jun Kawagishi  
Jiro Suzuki Memorial GammaHouse, Furukawa Seiryō Hospital, Japan

**GS1-4      A retrospective analysis of the outcomes of dural arteriovenous fistulas treated with gamma knife radiosurgery: A single institution's experience**

Yun-Sik Dho  
Department of Neurosurgery, Seoul National University Hospital, Korea

**GS1-5      Radiation-induced changes after gamma knife for brain arteriovenous malformations**

Toshiyuki Yamanaka  
Department of Neurosurgery, National Cerebral and Cardiovascular Center, Japan

**GS1-6      Recurrent arteriovenous malformation after Gamma Knife Radiosurgery: Recurrence or new nidus formation after complete obliteration**

Hiroyuki Kenai  
Department of Neurosurgery, Nagatomi Neurosurgical Hospital, Japan

**GS1-7      Intervening nidal brain parenchyma and risk of radiation-induced changes after radiosurgery for brain arteriovenous malformation: a study using unsupervised machine learning algorithm**

Cheng-Chia Lee  
Department of Neurosurgery, Neurological Institute, Taipei Veterans General Hospital, Taiwan /  
School of Medicine, National Yang-Ming University, Taiwan

**16:15 ~ 16:45      ALGK General Session 2 : Functional Disorders**

Moderators : Motohiro Hayashi (Department of Neurosurgery, Gamma Knife Unit & FATS,  
Tokyo Women's Medical University, Japan)  
Maheep Singh Gaur (Rancan Gamma Knife Centre, Vimhans Hospital, India)

**GS2-1      Trigeminal nerve dysfunction after Gamma Knife surgery for trigeminal neuralgia focusing on long-term outcomes**

Shinji Matsuda  
Department of Neurology and Stroke, Chiba Central Medical Center, Japan

**GS2-2    Posterioventral Gamma Pallidotomy for Parkinson's Disease with Levodopa Induced Dyskinesia**

Maheep Singh Gaur

Rancan Gamma Knife Centre, Vimhans Hospital, India

**GS2-3    Neuromodulation in Gamma knife surgery for functional disorders**

Motohiro Hayashi

Department of Neurosurgery, Tokyo Women's Medical University, Japan / Faculty of Advance Technosurgery, Tokyo Women's Medical University, Japan

**17:15 ~ 18:15    ALGK/JLGK Special Lecture**

Moderator : Dong Gyu Kim (Department of Neurosurgery, Seoul National University, Korea)

**The Privileged Gamma Knife Radiosurgery in Enriching Medical Service with Imaging AI**

Wan-Yuo Guo

Department of Radiology, Taipei Veterans General Hospital, Taiwan

**Hagi, 2F**

**16:15 ~ 17:05    ALGK General Session 3 : Imaging, Dose Planning and Physics**

Moderators : Hyun-Tai Chung (Department of Neurosurgery, Seoul National University, Korea)

Kazutaka Yatsushiro (Fujimoto General Hospital, Japan)

**GS3-1    The Superiority and inferiority of GKRS to other RS modalities following the 2018 brain SRS plan competitions**

Weon-Seop Seo

Department of Neurosurgery, Kyunghee University Hospital, Korea

**GS3-2    Past and present reference dosimetry of Gamma knife in Korea**

Weon-Seop Seo

Department of Neurosurgery, Kyunghee University Hospital, Korea

**GS3-3    GEANT4-based Monte Carlo Simulation of Beam Quality Correction Factors for the Leksell Gamma Knife® Perfexion™**

Hyun-Tai Chung

Department of Neurosurgery, Seoul National University, Korea

**GS3-4    Evaluation of Dose-planning Techniques and Treatment Results in Gamma Knife Radiosurgery for Large Vestibular Schwannomas**

Wei-Lun Lo

Gamma Knife Center, Shuang-Ho Hospital – Taipei Medical University, Taiwan (R.O.C.) /  
Department of Neurosurgery, Shuang-Ho Hospital – Taipei Medical University, Taiwan (R.O.C.)  
/ Taipei Neuroscience Institute, Taipei Medical University, Taiwan (R.O.C.)

**GS3-5 Comparison of Treatment Plans and Deliveries between Perfexion and Model B  
(Specifically For Functional Pituitary Adenoma)**

Pendse Anil M.

Gamma Knife Center, P.D.Hinduja National Hospital and MRC, India