Day 1: Friday, January 18  
Tachibana, 2F  
English Session

<table>
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<th>Time</th>
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<tr>
<td>13:00 ~ 13:10</td>
<td>Opening Ceremony</td>
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<td>13:10 ~ 14:55</td>
<td>ALGK Symposium 1: Evidence from Asia</td>
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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 Gamma House, 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
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<tr>
<td>GS1-1</td>
<td>Optimal timing for Gamma knife radiosurgery for arteriovenous malformation with hemorrhage</td>
<td>Chang Kyu Park, Department of Neurosurgery, Kyung-Hee University College of Medicine, Korea</td>
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<tr>
<td>GS1-2</td>
<td>Repeat radiosurgery for cerebral arteriovenous malformations</td>
<td>Hisae Mori, Department of Neurosurgery, National Cerebral and Cardiovascular Center, Japan</td>
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<tr>
<td>GS1-3</td>
<td>Role of Gammaknife radiosurgery for dural arteriovenous fistulas</td>
<td>Jun Kawagishi, Jiro Suzuki Memorial GammaHouse, Furukawa Seiryo Hospital, Japan</td>
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<td>GS1-4</td>
<td>A retrospective analysis of the outcomes of dural arteriovenous fistulas treated with gamma knife radiosurgery: A single institution’s experience</td>
<td>Yun-Sik Dho, Department of Neurosurgery, Seoul National University Hospital, Korea</td>
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<td>GS1-5</td>
<td>Radiation-induced changes after gamma knife for brain arteriovenous malformations</td>
<td>Toshiyuki Yamanaka, Department of Neurosurgery, National Cerebral and Cardiovascular Center, Japan</td>
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<tr>
<td>GS1-6</td>
<td>Recurrent arteriovenous malformation after Gamma Knife Radiosurgery: Recurrence or new nidus formation after complete obliteration</td>
<td>Hiroyuki Kenai, Department of Neurosurgery, Nagatomi Neurosurgical Hospital, Japan</td>
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<tr>
<td>GS1-7</td>
<td>Intervening nidal brain parenchyma and risk of radiation-induced changes after radiosurgery for brain arteriovenous malformation: a study using unsupervised machine learning algorithm</td>
<td>Cheng-Chia Lee, Department of Neurosurgery, Neurological Institute, Taipei Veterans General Hospital, Taiwan / School of Medicine, National Yang-Ming University, Taiwan</td>
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<td>GS2-1</td>
<td>Trigeminal nerve dysfunction after Gamma Knife surgery for trigeminal neuralgia focusing on long-term outcomes</td>
<td>Shinji Matsuda, Department of Neurology and Strokology, Chiba Central Medical Center, Japan</td>
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### 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.)
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