Stanford Medicine Symposium

Novel Strategies For The Treatment Of Neurologic Disorders
November 16, 2019 | 8:30am - 4:30pm
Four Seasons Hotel, Hong Kong

Event Sponsors

Chi-Li Pao Foundation
Hong Kong Academy of Medicine
8:30 am  **Welcome and Introductions**  
Lloyd Minor, MD, Dean, Stanford University School of Medicine 
Raymond Pao, Founder, Chi-Li Pao Foundation  
Gary Steinberg, MD, PhD, Chair of Neurosurgery, Stanford University School of Medicine

**Cerebrovascular Disease/Virtual Reality**  
Chairperson: Lawrence Wong, MD, The Chinese University of Hong Kong

9:00 am  **Acute Stroke Intervention**  
Gregory Albers, MD, Stanford University School of Medicine

9:30 am  **Aneurysm Treatment; Virtual Reality**  
Gary Steinberg, MD, PhD, Stanford University School of Medicine

10:00 am  **Case Discussion with Panel**  
Gregory Albers, MD, Stanford University School of Medicine  
Anderson Chung-On Tsang, MBBS, The University of Hong Kong  
Gary Steinberg, MD, PhD, Stanford University School of Medicine  
Lawrence Wong, MD, The Chinese University of Hong Kong

10:30 am  **Tea break**

**Brain Tumors/Pediatric Neurosurgery**  
Chairperson: Jenny Kan-Suen Pu, MBBS, The University of Hong Kong

10:45 am  **Treatment of Primary Brain Tumors**  
Gordon Li, MD, Stanford University School of Medicine

11:05 am  **Cyberknife Radiosurgery**  
Steven Chang, MD, Stanford University School of Medicine

11:25 am  **Innovative Surgical Management of Brain Tumors in Children**  
Gerald Grant, MD, Stanford University School of Medicine

11:45 am  **Case Discussion with Panel**  
Steven Chang, MD, Stanford University School of Medicine  
Gerald Grant, MD, Stanford University School of Medicine  
Robert Ho, MBBS, Canossa Hospital  
Gordon Li, MD, Stanford University School of Medicine  
Rico King Yin Liu, MBBS, Hong Kong Sanatorium & Hospital  
Jenny Kan-Suen Pu, MBBS, The University of Hong Kong
12:15 pm  **Lunch**

**Movement Disorders/Epilepsy/Neuromodulation**

*Chairperson: Lijuan Wang, MD, PhD, Guangdong Provincial People's Hospital and Guangdong Academy of Medical Sciences*

1:00 pm  **Medical Treatment of Movement Disorders**

*Kathleen Poston, MD, Stanford University School of Medicine*

1:20 pm  **Neuromodulation for Movement Disorders, Epilepsy, and Other Conditions**

*Casey Halpern, MD, Stanford University School of Medicine*

1:40 pm  **Neurosurgery for Pediatric Epilepsy**

*Gerald Grant, MD, Stanford University School of Medicine*

2:00 pm  **Case Discussion with Panel**

*Gerald Grant, MD, Stanford University School of Medicine*
*Casey Halpern, MD, Stanford University School of Medicine*
*Kathleen Poston, MD, Stanford University School of Medicine*
*Wa Hou Tai, MD, PhD, Macau Neuromedical Society*
*Lijuan Wang, MD, PhD, Guangdong Provincial People's Hospital and Guangdong Academy of Medical Sciences*

2:30 pm  **Tea Break**

**Spine Surgery /Stem Cell Therapy**

*Chairperson: Wai Sang Poon, MBChB, The Chinese University of Hong Kong*

2:45 pm  **Spine Surgery**

*John Ratliff, MD, Stanford University School of Medicine*

3:15 pm  **Stem Cell Therapy for Stroke and Spinal Cord Injury**

*Gary Steinberg, MD, PhD, Stanford University School of Medicine*

3:45 pm  **Case Discussion with Panel**

*Wai Sang Poon, MBChB, The Chinese University of Hong Kong*
*John Ratliff, MD, Stanford University School of Medicine*
*Gary Steinberg, MD, PhD, Stanford University School of Medicine*

4:15 pm  **Concluding Remarks**
**Gregory W. Albers, MD**  
The Coyote Foundation Professor of Neurology and Professor, by courtesy, of Neurosurgery  
Stanford University School of Medicine

Professor Gregory W. Albers is the Director of the Stanford Stroke Center, a position he has held since co-founding the center in 1992.

Professor Albers’ primary research focus is the diagnosis, management, and prevention of ischemic stroke. Professor Albers and his team use advanced imaging technology to expand the treatment window for ischemic stroke. He has been the principal investigator of all 3 NIH-funded DEFUSE studies, which clarified the evolution of brain ischemia and led to extending the treatment window for stroke to 24 hours in 2018.

Professor Albers was instrumental in the development of RAPID, a software platform that interprets brain scans and helps clinicians decide on appropriate treatments for ischemic stroke. Professor Albers is the Chairman of the Stroke Treatment Academic Industry Roundtable (STAIR).

A prolific and distinguished researcher, Professor Albers has authored more than 400 articles on topics related to cerebrovascular disease in peer-reviewed journals.

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**Steven D. Chang, MD**  
Robert C. and Jennette Powell Professor of Neurosurgery and the Neurosciences and, by courtesy, of Neurology and Otolaryngology - Head and Neck Surgery  
Stanford University School of Medicine

After completing his Medical Degree and his Neurosurgery residency training at Stanford, Professor Chang joined Stanford’s Department of Neurosurgery where he is now Professor and Vice-Chairman of Strategic Development and Innovation. Professor Chang has a worldwide reputation as an expert in microsurgery and radiosurgery for treatment of brain, spine, and skull base tumors; of arteriovenous malformations and cavernous malformations of the brain and spine; and of intracranial aneurysms. His radiosurgery practice focuses on the use of the Cyberknife. He is currently Co-Director of both the Stanford Cyberknife Radiosurgery and Surgical Neuro-Oncology Programs.

Professor Chang’s research interests include the genetic analysis of arteriovenous malformation patients and the clinical outcomes for radiosurgery of brain and spine tumors. He is the Director of the Stanford Neurogenetics Oncology Program and the Director of the Stanford Neuromolecular Innovations Program. He has authored or co-authored more than 300 peer-reviewed publications and book chapters.
Gerald Grant, MD, FACS
Endowed Professor in Pediatric Neurosurgery and Professor, by courtesy, of Neurology
Stanford University School of Medicine

Professor Gerald Grant received his M.D. from Stanford University. Board-certified in neurosurgery and pediatric neurosurgery, Professor Grant specializes in the treatment of children and is Chief of Neurosurgery at Lucile Packard Children’s Hospital. His clinical areas of interest include minimally invasive endoscopy, brain tumors, medically refractory epilepsy, and concussion. As program director for the resident training program in neurosurgery at Stanford, he is passionate about teaching and education. His translational research laboratory focuses on the blood-brain barrier with the goal of improving drug delivery to improve the survival in children from brain tumors. Professor Grant recently served as Vice President of the Congress of Neurological Surgeons, and has served on the Executive Committees of the AANS/CNS Joint Section of Pediatric Neurosurgery, and the American Society of Pediatric Neurosurgeons. He is currently Annual Meeting Chair for the AANS and is a national leader in developing quality metrics for pediatric neurosciences.

Casey H. Halpern, MD
Assistant Professor of Neurosurgery and, by courtesy, of Neurology and Neurological Sciences, and Psychiatry and Behavioral Sciences
Stanford University Medical Center

Dr. Halpern received his medical degree from the University of Pennsylvania School of Medicine. He completed his residency in Neurosurgery and a fellowship in Stereotactic and Functional Neurosurgery at the University of Pennsylvania. Dr. Halpern’s practice focuses on the surgical treatment of movement disorders, epilepsy, and severe psychiatric disease. He has particular interest in minimally invasive surgical approaches, as well as neurostimulation procedures. Dr. Halpern’s research is involved in investigating the effects of deep brain stimulation in obesity using mouse models of human behavior.

Robert Ho, MBBS
Medical Director
The Brain Centre, Canossa Hospital

Dr. Ho received his medical degree from the University of Hong Kong and completed his post graduate training in neurology at the National Hospital for Nervous Diseases and the Middlesex Hospital in London, England. He is presently the Medical Director of the Brain Centre and Gamma Knife Centre at the Canossa Hospital. Dr. Ho was responsible for bringing in the first MRI scanner to Hong Kong in 1987 and the first Leksell Gamma Knife to Hong Kong and Southeast Asia in 1994. He is the joint author of over 40 publications and congress presentations in the field of Gamma Knife Radiosurgery and is a proponent of the latter in the treatment of refractory Trigeminal Neuralgia.
Gordon Li, MD
Associate Professor of Neurosurgery and, by courtesy, of Neurology and of Head and Neck Surgery
Stanford University School of Medicine

After completing his medical degree at University of California Davis and his residency training at Stanford University, Dr Li joined the faculty in the Department of Neurosurgery at Stanford University School of Medicine where he is now an Associate Professor. His active clinical practice is focused on the treatment of brain tumors, including the use of improved surgical techniques, immunotherapy, and novel applications of stereotactic radiosurgery. His research lab studies the biology of brain tumors with the goal of developing novel therapeutics for the treatment of malignant brain tumors and translating that research into clinical trials.

Rico King Yin Liu, MBBS, FRCR
Associate Director, Comprehensive Oncology Centre, Hong Kong Sanatorium & Hospital
Honorary Clinical Associate Professor Department of Clinical Oncology
Hong Kong University

Dr. Liu received his medical degree at University of Sydney. After training in palliative medicine in Sydney, Australia, he obtained further qualification in oncology in Hong Kong. While an honorary clinical faculty member of both Hong Kong University and Chinese University of Hong Kong, Dr. Liu has an active private practice, treating a wide range of cancers, including brain, gastrointestinal tumors, lymphomas, and inoperable hepatocellular cancer. He also plays a leadership role in the Radiotherapy department of the Hong Kong Sanatorium & Hospital, utilizing tomotherapy, linac and cyberknife treatment modalities. In the area of palliative medicine, he has been implemental in expanding services to acute oncology management and is the team leader of a comprehensive palliative care center.

Wai Sang Poon, MBChB, FRCS
Chair Professor and Chief of Division of Neurosurgery
The Chinese University of Hong Kong

Professor Poon received his undergraduate medical education at Glasgow University, general surgical training at the City and University Hospitals in Nottingham, and his neurosurgical training at Glasgow’s Institute of Neurological Sciences. He gained further research experience in cerebral ischemia at Glasgow University’s Wellcome Surgical Institute and neuro-oncology at Harvard and Massachusetts General Hospital. His clinical interests include the surgical management of Parkinson’s disease, epilepsy and diseases of the pituitary and spinal cord. His research interests include head injury, neurorehabilitation, neuro-oncology and cell therapy for intracerebral hemorrhage. As Chairman of the Specialty Board in Neurosurgery, he is active in undergraduate and postgraduate surgical education, as well as specialist training in neurosurgery. Recognized nationally and internationally for his clinical and research activities, he serves on the editorial board of several international peer-reviewed journals in neurosurgery.
Dr. Kathleen Poston received her Bachelor’s of Science in Bioengineering at the University of Pennsylvania, her Master’s Degree in Biomedical Engineering and her MD at Vanderbilt University. She completed her Neurology residency training at UCSF, completed a fellowship in clinical Movement Disorders at Columbia University and post-doctoral research training in Functional Neuroimaging at the Feinstein Institute.

Dr. Poston’s research and clinical emphasis is to understand the motor and non-motor impairments that develop in patients with alpha-synuclein pathology, such as Parkinson’s disease, Lewy body dementia, and Multiple System Atrophy. Her lab uses functional and structural imaging biomarkers, along with biological biomarkers, to understand the underlying pathophysiology associated these symptoms. She holds joint appointments in Movement Disorders and Memory Disorders and is a founding member of the Stanford Alzheimer’s Disease Research Center. She leads the Clinical Core for the Pacific Udall Center, which is an NIH-funded Parkinson’s disease Research Center of Excellence.

Dr. Pu received a Bachelor of Science Degree from McGill University. She earned a MBBS and a Masters of Surgery from the University of Hong Kong. She was awarded the Douglas Miller Medal from the Royal College of Surgeons in Edinburgh, and now serves as a consultant in the division of neurosurgery at University of Hong Kong. She is the author of many articles published in peer reviewed journals and book chapters. Recognized for her expertise and leadership, she was elected and serves as President of the Hong Kong Society of Neuro-oncology.

Professor Ratliff’s clinical practice focuses upon complex spinal reconstructive surgery and adult deformity surgery. He is presently a professor of Neurosurgery and Orthopedic Surgery (by courtesy) at Stanford University, where he acts as Vice Chair for Operations and Development, Department Quality Officer, Associate Program Director, and Co-Director of Division of Spine and Peripheral Nerve Surgery. He is President-elect for the California Association of Neurological Surgeons. Professor Ratliff’s research focuses upon use of “big data” in health care and upon improving outcomes assessment in spine surgery patients. His research is supported by research grants from the Agency for Healthcare Research and Quality, the Orthopedic Research and Education Foundation, and from private foundations. He has published over 130 peer reviewed articles, recently completed his first textbook, and has been faculty for over 50 AANS and CNS courses.
**Anderson Chung-On Tsang, MBBS, FRCS**  
Clinical Assistant Professor, Division of Neurosurgery, Department of Surgery  
The University of Hong Kong

Dr. Tsang obtained his medical degree with honors at the University of Hong Kong in 2010, after which he joined the faculty as Clinical Assistant Professor in the Department of Surgery. He completed neurosurgery training in Queen Mary Hospital, Hong Kong, specializing in endovascular neurosurgery and stroke treatment. He was awarded a Health and Medical Research Fund Research Fellowship to pursue a Fellowship in Interventional Neuroradiology at Toronto Western Hospital in 2018.

Dr. Tsang’s research and publications are focused on acute stroke treatment, endovascular interventions for aneurysms, AVMs, and large vessel occlusion, and clinical neurosurgery. He is also committed to improve the systems of care for hyperacute stroke in Hong Kong, and initiated cross-specialty projects with ambulance services, statisticians and computer scientists in pre-hospital stroke diagnosis. His ongoing research projects include clinical studies on large vessel occlusion thrombectomy in Asia, intracranial atherosclerosis, cerebral aneurysm, and intracranial hemorrhage.

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**Gary K. Steinberg, MD, PhD**  
Bernard and Ronni Lacroute-William Randolph Hearst Professor in Neurosurgery and Neurosciences, and Professor, by courtesy, of Neurology  
Stanford University School of Medicine

Professor Steinberg specializes in cerebrovascular surgery. Chair of the Department of Neurosurgery since 1996, he has expanded the department from 5 faculty to 63, and has trained more than 170 residents, fellows, graduate students. Professor Steinberg’s research focuses on developing innovative surgical, endovascular and radiosurgical treatments for patients with intracranial aneurysms, vascular malformations and occlusive cerebrovascular disorders. He is also studying the pathophysiology of stroke and methods to restore function after stroke. The California Institute of Regenerative Medicine awarded him a $20 million grant to investigate neural stem cell transplant for chronic stroke and translate this into a clinical trial. He is also leading clinical trials of stem cell transplantation for spinal cord injury, and traumatic brain injury.

Professor Steinberg has received the Congress of Neurological Surgeons Charles Drake Lecturer, Stanford University Medicine Alumni Lifetime Achievement Award, American Heart Association Stroke Progress and Innovation Award, Global Genes RARE Champion of Hope Honoree, Smithsonian American Ingenuity Award, and Society of Neurological Surgeons H. Richard Winn, MD Prize.

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**Wa Hou Tai, MD, PhD**  
Consultant Neurosurgeon  
President, Macau Neuromedical Society  
Director, Macau Children Assessment & Early Intervention Center

Dr. Wa Hou Tai graduated from Sun Yat-sen University of Medical Sciences. He subsequently obtained a master's degree in neuropsychology and a doctorate in neurosurgery. He is currently actively engaged in clinical work and research in neurosurgery in Macau. His main interests are cerebrovascular diseases, epilepsy and congenital disorders. Dr Tai is also involved in healthcare administration and medical education, and is a board member of Macau Medical Academy, focusing on physician's training.

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**Andersone Chung-On Tsang, MBBS, FRCS**  
Clinical Assistant Professor, Division of Neurosurgery, Department of Surgery  
The University of Hong Kong

Dr. Tsang obtained his medical degree with honors at the University of Hong Kong in 2010, after which he joined the faculty as Clinical Assistant Professor in the Department of Surgery. He completed neurosurgery training in Queen Mary Hospital, Hong Kong, specializing in endovascular neurosurgery and stroke treatment. He was awarded a Health and Medical Research Fund Research Fellowship to pursue a Fellowship in Interventional Neuroradiology at Toronto Western Hospital in 2018.

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**Lijuan Wang, MD, PhD**  
**Professor of Neurology**  
**Director of Neurology Department, and Director of Guangdong Neuroscience Institute**  
**Guangdong Provincial People’s Hospital**

Professor Wang obtained a bachelor’s degree in medicine from Shanghai Medical University and a master’s degree in clinical neurology from Guiyang Medical College. She completed a PhD in neurology from Sun Yat-sen University of Medical Sciences. She is recognized as a gifted clinician, researcher and teacher.

Professor Wang’s areas of interest in neurology include Parkinson’s disease, cerebrovascular disease, Alzheimer’s and memory disorders. Actively involved in research, her work has won many prizes and acclaim.

In addition to having served at Guangdong Provincial People’s Hospital as Chief Physician, Department Director and Director of the Neuroscience Institute, Professor Wang is chairman of the Guangdong Medical Doctor Association’s section on neurology and movement disorders and chairman of Guangdong-Hong Kong-Macao Greater Bay Area Neurology Alliance. She is also the vice-chairman of neurology section of Chinese Medical Doctor Association and is the lead principal investigator of a National Key Research & Development Program of China.

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**Lawrence Wong, MD, MRCP**  
**Emeritus Professor**  
**Division of Neurology, Department of Medicine and Therapeutics**  
**The Chinese University of Hong Kong**

After receiving his undergraduate and medical training at the University of New South Wales in Sydney, Professor Wong was awarded a postdoctoral fellowship by the Croucher Foundation to work at the Prince of Wales Hospital in Australia in 1992. He joined the faculty of the Chinese University of Hong Kong in 1993, where he was appointed the Mok Hing Yiu Professor in 2007 and served as Head of the Division of Neurology 2000-2017. He is currently an Associate Editor of the journal Stroke and Deputy Editor of the Journal of Neurology, Neurosurgery and Psychiatry. Professor Wong is recognized internationally as an expert in stroke and first to establish that intracranial atherosclerosis is the major cause of stroke in Chinese patients. The FISS-TRIS and CLAIR studies which he led provided the scientific basis for the early aggressive use of antithrombotic treatment for ischemic stroke and TIA. His break-through discoveries in stroke research in the Asian population earned him the World Stroke Organization

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