Novel Strategies For The Treatment Of Neurologic Disorders
May 9, 2020  |  8:30am - 4:30pm
Four Seasons Hotel, Hong Kong
Program

8:30 am  **Welcome and Introductions**

*Gary Steinberg, MD, PhD, Chair of Neurosurgery, Stanford University School of Medicine*
*Lloyd Minor, MD, Dean, Stanford University School of Medicine*
*Raymond Pao, Founder, Chi-Li Pao Foundation*
*Gilberto Ka-Kit Leung, MBBS, PhD, Vice President (Education and Examinations), Hong Kong Academy of Medicine*

**Cerebrovascular Disease/Virtual Reality**

*Chairperson: Gregory Albers, MD, Stanford University School of Medicine*

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*

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*
*Daniel Chua, MD, Hong Kong Sanatorium & Hospital*
*Gerald Grant, MD, Stanford University School of Medicine*
*Gordon Li, MD, Stanford University School of Medicine*
*Jenny Kan-Suen Pu, MBBS, The University of Hong Kong*
12:15 pm  **Lunch**

**Movement Disorders/Epilepsy/Neuromodulation**  
*Chairperson: Gerald Grant, MD, Stanford University School of Medicine*

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_

2:30 pm  **Tea Break**

**Spine Surgery /Stem Cell Therapy**  
*Chairperson: John Ratliff, MD, Stanford University School of Medicine*

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**  
_John Ratliff, MD, Stanford University School of Medicine_
_Gary Steinberg, MD, PhD, Stanford University School of Medicine_

4:15 pm  **Concluding Remarks**
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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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.
Daniel T.T. Chua, MD, FRCR  
Associate Director, Comprehensive Oncology Center, Hong Kong Sanatorium & Hospital  
Honorary Associate Professor of Chinese University of Hong Kong

Dr. Daniel Chua graduated from the Medical School of the Chinese University of Hong Kong in 1989. Shortly after obtaining his specialist qualification in Clinical Oncology in 1994, Dr. Chua joined the Department of Clinical Oncology at the University of Hong Kong where he established the radiosurgery service and conducted most of his research investigations.

While an honorary faculty member of University of Hong Kong, Dr. Chua also maintains an active private practice and continues with research. Dr. Chua’s primary interests are in the area of head and neck cancer, brain tumors, lung cancer, and precision radiotherapy. Dr. Chua has published over 200 peer-reviewed scientific papers 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.
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.

Kathleen Poston, MD
Associate Professor of Neurology & Neurological Sciences and, by courtesy of, Neurosurgery
Stanford University School of Medicine

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.

Jenny Kan-Suen Pu, MBBS
Honorary Clinical Associate Professor
Department of Surgery, Division of Neurosurgery
The University of Hong Kong

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.
John Ratliff, MD, FACS
Professor of Neurosurgery and, by courtesy, of Orthopaedic Surgery
Stanford University School of Medicine

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.

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.
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.

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.

Special Acknowledgments

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