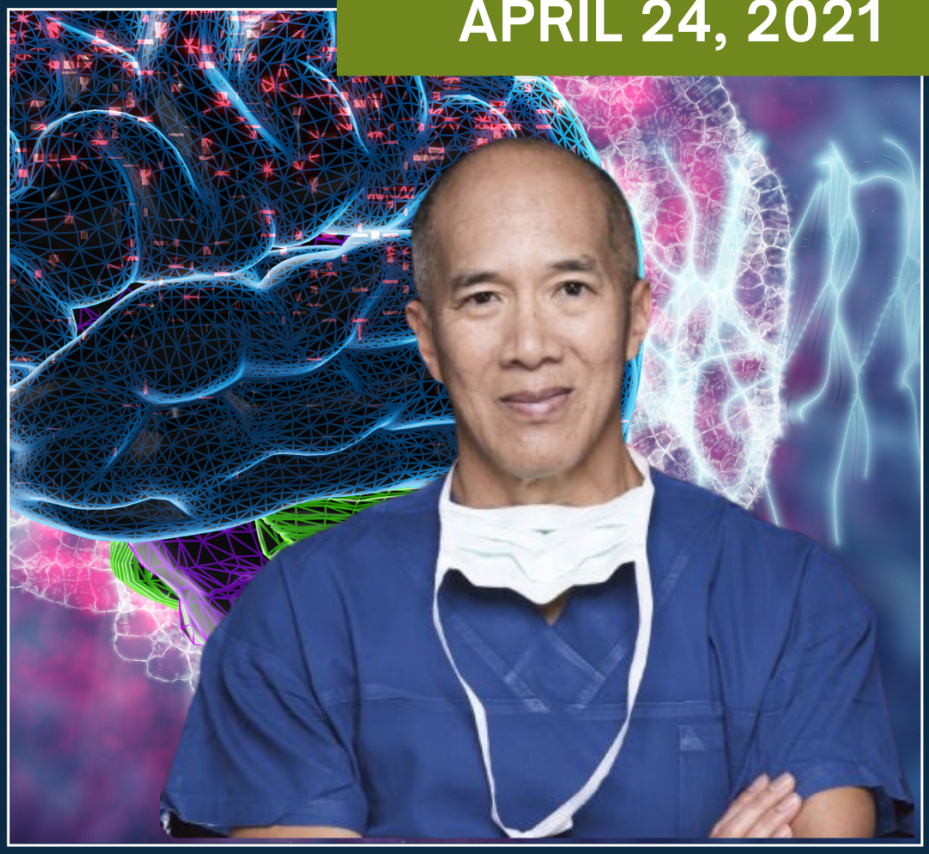
SEATTLE SCIENCE FOUNDATION TV

FIRST ANNUAL

KEYHOLE APPROACHES TO BRAIN TUMORS WEBINAR

Seattle Science Foundation

APRIL 24, 2021



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ESTEEMED FACULTY

Charles Teo, AM, MBBS, FRACS
Course Chairman
Conjoint Professor of Neurosurgery, UNSW
Consulting Professor of Neurosurgery, Duke Medical College, USA
Visiting Professor of Neurosurgery, NUH, Singapore
Professor Honoris Causa, Hanoi Medical University, Vietnam
Director; Centre for Minimally Invasive Neurosurgery, Sydney
Founder; Charlie Teo Foundation for Brain Cancer Research
Co-Founder; CINGULUM Health Clinic
Co-Founder; Omniscient-Neuro
Sydney, Australia

Paul A. Gardner, M.D.
Peter J. Jannetta Professor
Director, Center for Skull Base Surgery
University of Pittsburgh Medical Center
Pittsburgh, Pennsylvania

Nikolai J. Hopf, M.D., Ph.D.
Director
Endomin, Center for Endoscopic &
Minimally Invasive Neurosurgery
Zurich, Switzerland

Daniel F. Kelly, M.D.
Director, Pacific Neuroscience Institute
Director Pacific Brain Tumor Center
Director, Pacific Pituitary Disorders Center
Professor of Neurosurgery,
Saint John's Cancer Institute
Santa Monica, California

Michael E. Sughure, M.D.
Neurosurgeon
Prince of Wales Hospital
Sydney, Australia

AGENDA

9 a.m. **Welcome & Introduction to the Keyhole Concept**
Charles Teo, AM, MBBS, FRACS
Objectives:
- Outline the concept of keyhole approaches
- Discuss the concepts of choosing the size and location of the "entrance" and determining the most ergonomic "corridor"
- Define the difference in the size of the craniotomy required when the lesion is deep to the surface or superficial

9:15 a.m. **Keyhole Surgery for Gliomas**
Charles Teo, AM, MBBS, FRACS
Objectives:
- Appreciate the importance of a complete resection of all grades of gliomas
- Identify the various standard keyhole approaches
- Outline the concept of operating along the long axis of the glioma and down a "perpendicular" corridor

9:45 a.m. **Q&A**

9:50 a.m. **Reducing the Cognitive Footprint of Brain Surgery**
Michael E. Sughrue, M.D.
Objectives:
- Outline and define the anatomy of human brain networks
- Illustrate the applications of connectomics to brain surgery

10:20 a.m. **Q&A**

10:25 a.m. **Keyhole Anterior Skull Base Approaches (Eyebrow Approach)**
Daniel F. Kelly, M.D.
Objectives:
- Outline indications for use of the supraorbital eyebrow approach in treating extra-axial and intra-axal brain tumors
- Discuss technical nuances of approach to optimize exposure, maximize tumor resection and achieve optimal cosmesis
- Describe complication avoidance protocols

10:55 a.m. **Q&A**

11 a.m. **Endoscopic Endonasal Resection Approaches to the Anterior Cranial Fossa**
Paul A. Gardner, M.D.
Objectives:
- Outline the anatomic and technical limitations of the endoscopic endonasal approach to the anterior fossa
- Discuss advantages and disadvantages of the endoscopic endonasal approach
- Recognize the impact of the individual and team learning curve on endoscopic surgery

11:30 a.m. **Q&A**

11:35 a.m. **Break** *(not for CME credit)*

12 p.m. **Keyhole Approaches to the Skull Base: Mini Pterional Approaches**
Nikolai J. Hopf, M.D., Ph.D.
Objectives:
- Describe the differences between the mini pterional and standard pterional approach in the treatment of intracranial tumors
- Outline technique and pitfalls of the mini pterional approach to different areas of the skull

base

12:30 p.m. **Q&A**

12:35 p.m. **Keyhole Approaches to the Posterior Fossa**
Charles Teo, AM, MBBS, FRACS
Objectives:
- Identify the various standard approaches to the posterior fossa
- Describe the steps by which one minimizes collateral damage performing the retrosigmoid approach
- Appreciate the importance and the technique of endoscopic-assisted surgery

1:05 p.m. **Q&A**

1:10 p.m. **The New Workhorses: Transclival and Transodontoid Approaches**
Paul A. Gardner, M.D.
Objectives:
- Define the role of lumbar drainage in posterior fossa endoscopic endonasal surgery
- List the novel complications that can occur following endoscopic endonasal surgery to the posterior fossa
- Define the anatomic limitation of the endoscopic endonasal approach to the posterior fossa

1:40 p.m. **Q&A**

1:45 p.m. **Final Discussion and Course Wrap Up**
Charles Teo, AM, MBBS, FRACS
Objectives:
- Summarize key concepts of keyhole approaches
- Discuss concepts learned and ask any unanswered questions

2 p.m. **Adjourn**

Acknowledgements

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Course Planning Committee

Charles Teo, AM, MBBS, FRACS
Prince of Wales Hospital
Neurosurgery, Sydney

Cristian Gragnaniello, M.D., Ph.D.
Swedish Neuroscience Institute
Seattle, Washington

Linda Sahlin
Seattle Science Foundation
Seattle, Washington

Ashley Martin
Seattle Science Foundation
Seattle, Washington

Faculty Disclosure Summary

The following planners and presenters (or their spouses/domestic partners) have/had a financial relationship with a commercial interest: *(S = Speaker; P = Planner)*

Paul A. Gardner, M.D. (S): Royalties: Peter Lazic Instruments; Ownership Interest: SPIWay Instruments
Daniel F. Kelly, M.D. (S): Consultant: Mizuho
Mike Sughrue, M.D. (S): Founder & CMO: Omniscient Neurotechnology
Charles Teo, AM, MBBS, FRACS (S, P): Consultant: Aesculap

The following planners and presenters (or their spouses/domestic partners) have/had no financial relationship with a commercial interest *(S = Speaker; P = Planner)*

Cristian Gragnaniello, M.D., Ph.D. (P); **Nikolai J. Hopf, M.D., Ph.D.** (S); **Linda Sahlin** (P); **Ashley Martin** (P)

All planners and presenters attested that their content suggestions and/or presentation(s) will provide a balanced view of therapeutic options and will be entirely free of promotional bias. All presentations have been reviewed by a planner with no conflicts of interest to ensure that the content is evidence-based and unbiased.

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Please take a moment to complete our online evaluation, which will be emailed to you. Your feedback helps to ensure the effectiveness of this CME activity, as well as improve future educational activities. All responses are considered anonymous. https://www.surveymonkey.com/r/keyhole2021.

If you do not receive the survey via email, please call (206) 732-6500 or email cme@seattlesciencefoundation.org.

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