



Sanford PC Hsu

Taiwan

Dr Sanford PC. Hsu currently serves as the attending physician of the Department of Neurosurgery and the director of the Rehabilitation and Technical Aid Center at Taipei Veterans General Hospital and as an Associate Professor at National Yang Ming Chiao Tung University. He was honored as a member of the World Academy of Neurological Surgery in 2022 and became a founding member of the Yasargil Microneurosurgery Academy in 2023. Additionally, he is a Visiting Professor of Neurosurgery at the University of Virginia Hospital and an instructor at several international neurosurgery education courses. Dr Hsu specializes in brain tumors, skull base tumors, cerebrovascular surgery, and epilepsy surgery, and he actively participates in international neurosurgery education. He has successfully performed numerous innovative surgeries, including Taiwan's first selective amygdalo-hippocampectomy either by opening the Sylvian fissure or by supracerebellar trans-tentorial approach and fully opening cavernous sinus combined with Kawase approach to remove most challenging petroclival meningiomas which very few neurosurgeons could perform. He serves as a board member of the Taiwan Neurosurgical Society, the President of the Taiwan Society for Neuro-Oncology, and a member of the WFNS Neuroanatomy Committee. As an editor for the Journal of Neuro-Oncology and Contemporary Neurosurgery, he has significant influence in the academic field. Dr Hsu is also the Chairman of the 2024 4th International Rhoton Society Meeting.

Topic: Surgical Approaches to Intrinsic Brain Tumor Based on Embryological Compartments

Microsurgery for intrinsic brain tumors, like skull base surgery, requires not only skilled microsurgical techniques but also a thorough understanding of brain and nerve fiber anatomy. This knowledge is essential for establishing correct surgical concepts to achieve truly minimally invasive brain surgery outcomes. Microsurgical techniques and knowledge of brain and nerve fiber anatomy must be accumulated in an anatomical laboratory and based on neuroembryology to establish proper surgical concepts. Brain tumors occurring in specific compartments at different developmental stages have unique growth behaviors. Understanding neuroembryology and tumor development is crucial for selecting the most appropriate surgical approach to remove the tumor.