



Kiarash Shahlaie, M.D., Ph.D., F.A.A.N.S.

Philosophy of Care

I believe that my patients and their family members should be well informed about their treatment options, and receive the most leading-edge care available.

Clinical Interests

Dr. Shahlaie is a fellowship-trained neurosurgeon that specializes in complex cranial surgery. He is an expert in management of skull base and pituitary tumors, trigeminal neuralgia and hemifacial spasm, epilepsy, and movement disorders such as Parkinson's disease, essential tremor, and dystonia.

Dr. Shahlaie has advanced training in Minimally Invasive Brain Surgery, which includes endoscopic and keyhole techniques. He is also an award winning instructor at the UC Davis School of Medicine, and directs an innovative research laboratory at the Center for Neuroscience.

Research/Academic Interests

Dr. Shahlaie is an accomplished researcher with extensive experience in pre-clinical and clinical research. Dr. Shahlaie directs the Bronte Research Laboratory at the UC Davis Center for Neuroscience, where his team is developing new deep brain stimulation techniques to improve learning and memory function.

Dr. Shahlaie also directs multiple clinical studies at the UC Davis Medical Center, including drug trials for management of traumatic brain injury and brain and nerve stimulation trials to improve cognition in patients with epilepsy and Parkinson's disease. Dr. Shahlaie and his research team have published over 65 peer-reviewed articles and 12 book chapters, and his work has been presented at numerous national and international scientific and clinical conferences.

Title

Director, Traumatic Brain Injury Program
Residency Program Director
Co-Director, Center for Skull Base Surgery
Co-Director, Deep Brain Stimulator Program
Professor

Specialty

Skull Base Surgery, Brain Tumors, Deep Brain Stimulation, Epilepsy, Traumatic Brain Injury

Department

[Neurological Surgery](#)
[Neurology](#)

Division

Neurological Surgery

Clinic

UC Davis Medical Group, Sacramento - Midtown

Center/Program Affiliation

[Center for Neuroscience](#)
[Center for Skull Base Surgery](#)
[UC Davis Medical Group](#)



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Additional Phone	Phone: 916-734-4300 Physician Referrals: 800-4-UCDAVIS (800-482-3284)
Languages	Farsi
Education	M.D., UC Davis School of Medicine, Sacramento CA 2001 Ph.D., Neuroscience, UC Davis, Davis CA 2006 B.S., UC Davis, Davis CA 1997
Internships	General Surgery, UC Davis Medical Center, Sacramento CA 2001-2002
Residency	Neurosurgery, UC Davis Medical Center, Sacramento CA 2002-2009
Fellowships	Skull Base / Minimally Invasive Neurosurgery, John Wayne Cancer Institute, Santa Monica CA 2010 Functional Neurosurgery, UC San Francisco, San Francisco CA 2009
Board Certifications	American Board of Neurological Surgery, 2016
Professional Memberships	American Association of Neurological Surgeons Congress of Neurological Surgeons Epilepsy Foundation of Northern California National Neurotrauma Society Neurocritical Care Society North American Skull Base Society The Pituitary Society
Honors and Awards	Deans Team Award for Excellence in Education, UC Davis School of Medicine, 2016 Award of Excellence, UC Davis Medical Center Stroke Program, 2015 Deans Team Award for Excellence in Clinical Care, UC Davis School of Medicine, 2014 Excellence in Teaching Award, UC Davis Department of Neurological Surgery, 2014 Making a Difference Award, UC Davis Medical Center, 2014
Select Recent Publications	For a complete list of Dr. Shahlaie's publications, please click here .



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Lee DJ, Izadi A, Melnik M, Seidl S, Echeverri A, Shahlaie K, Gurkoff GG. Stimulation of the medial septum improves memory following pilocarpine-induced status epilepticus. *Epilepsy Research*. 2017;130:53-63.

Scangos K, Shahlaie K. Acute frequency-dependent hypomania induced by ventral subthalamic nucleus deep brain stimulation in Parkinson's disease: A case report. *Biological Psychiatry*. 2016 [Epub ahead of print].

Pevzner A, Izadi A, Lee DJ, Shahlaie K, Gurkoff G. Making waves in the brain: What are oscillations, and why modulating them makes sense for brain injury. *Frontiers in Systems Neuroscience*. 2016;7(10).

Lee DJ, Gurkoff GG, Izadi A, Seidl SE, Echeverri A, Melnik M, Berman RF, Ekstrom AD, Muizelaar JP, Lyeth BG, Shahlaie K. Septohippocampal Neuromodulation Improves Cognition after Traumatic Brain Injury. *Journal of Neurotrauma*. 2015;32(22): 1822-32.

Kerr EE, Fragoso R, Schrot RJ, Shahlaie K. Intraoperative extracorporeal irradiation for the treatment of the meningioma-infiltrated calvarium. *Journal of Neurological Surgery Reports*. 2015; 76(1):e173-9.

Lee DJ, Zwienenberg-Lee M, Seyal M, Shahlaie K. Intraoperative CT for intracranial electrode implantation surgery in medically refractory epilepsy. *Journal of Neurosurgery*. 2015;122(3):526-31.

Lee DJ, Latchaw RE, Dahlin BC, Dong PR, Verro P, Muizelaar JP, Shahlaie K. Antegrade rheolytic thrombectomy and thrombolysis for superior sagittal sinus thrombosis using burr hole access. *Journal of NeuroInterventional Surgery*. 2014;7(3).



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Shahlaie K, Keachie K, Hutchins IM, Rudisill N, MaddenLK, Smith K, Ko KA, Latchaw RE, Muizelaar JP. Risk factors for posttraumatic vasospasm. *Journal of Neurosurgery*. 2011;115(3):602-11.

Shahlaie K, Larson PS, Starr PA. Intraoperative CT for DBS Surgery: Technique and Accuracy Assessment. *Neurosurgery (ONS Suppl 1)*. 2011;114-24.

Shahlaie K, McLaughlin N, Kassam AB, Kelly DF. The role of outcomes data for assessing the expertise of a pituitary surgeon. *Curr Opin Endocrinol Diabetes Obes*. 2010;17(4):369-76.

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