James E. Boggan, M.D.

Clinical Interests
Dr. Boggan heads a specialty team that treats difficult-to-resect tumors of the head, neck and surrounding structures. He also is an expert in pediatric neurosurgery.

Research/Academic Interests
Dr. Boggan is interested in the innovative use of lasers and other energy sources for treating brain cancers, including photodynamic therapy and neutron-capture therapy for treatment of glioblastomas. His research investigations include retinoic acid receptor expression in primary and metastatic brain tumors, and whether gadolinium texaphyrins (contrast MRI agents) can make high-grade gliomas and glioblastomas more radiosensitive.

Title
Professor of Neurological Surgery
Acting Chairperson, Department of Neurological Surgery
Co-director of the Center for Skull-Base Surgery
Co-director of the National Science Foundation (NSF) Center for Biophotonics

Specialty
Cancer, Neurological Surgery

Department
Neurological Surgery

Division
Neurological Surgery

Center/Program Affiliation
Center for Skull Base Surgery
UC Davis Children's Hospital
UC Davis Comprehensive Cancer Center

Address/Phone
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Education
M.D., University of Chicago Pritzker School of Medicine, Chicago, Illinois, 1976
B.A., Columbia University, New York City, New York, 1972

Internships
University of Chicago Hospital and Clinics, Chicago, Illinois, 1977

Residency
UC San Francisco, San Francisco, California, 1982

Board Certifications
American Board of Neurological Surgery, 1985

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Professional Memberships

American Association of Neurological Surgeons
American College of Surgeons
American Medical Association
American Society for Laser Medicine and Surgery
American Society for Photobiology
California Association of Neurological Surgeons
California Medical Association
Congress of Neurological Surgeons
International Society for Laser Medicine and Surgery
International Society of Pituitary Surgeons
Laser Association of Neurological Surgeons International
Laser Institute of America
New York Academy of Sciences
North American Skull-Base Society
Pediatric Oncology Group
Research Society of Neurological Surgeons
Sacramento-El Dorado Medical Society
Sigma Xi
Southwest Oncology Group
The Scientific Research Society

Honors and Awards

UC Davis Health System, Ambassador of Diversity, 2006
Child Abuse Prevention Council of Sacramento, Hearts and Hands for Children Founders Award, April, 2000
Heart of a Hero Award, North Area Teen Center, County of Sacramento (nominated by the Sacramento District Attorney), 1997
Certificate of Recognition, The Friends of Nursing, UC Davis, 1996
"Top Doctors in America: Pacific Region", 1996
Achievement Award in Science, California Black Business Expo, 1995
Chair, Gordon Research Conference on Lasers in Medicine and Biology, 1990
Catherine L. Dobson Award, 1976
Medical Student Summer Research Award, 1973

Select Recent Publications

Chen AY, Lee H, Hartman J, Greco C, Ryu JK, O'Donnell R, Boggan J. Secondary supratentorial primitive neuroectodermal tumor following irradiation in a patient with low-grade astrocytoma.

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Case report. *American Journal of Neuroradiology*, 26(1):1-3, 2005.

Donald PJ, Enepikedes D, Boggan JE. Giant juvenile nasopharyngeal angiofibroma: Management by skull-base surgery. Clinical Note. *Archives of Otolaryngology Head and Neck Surgery*, 130:882-886, 2004.

Shahlaie K, Fox A, Butani L, Boggan JE. Spontaneous epidural hemorrhage in chronic renal failure. A case report and review. *Pediatric Nephrology*, 19:1168-1172, 2004.

Bench G, Grant PG, Ueda DL, Autry-Conwell SA, Hou Y, Boggan JE. Assessment of proton microbeam analysis of 11B for quantitative microdistribution analysis of boronated neutron-capture agents in biological tissues. *Radiation Research*, 160:667-676, 2003.

Vicente MG, Edwards BF, Shetty SJ, Hou Y, Boggan JE. Syntheses and preliminary biological studies of four meso-tetra [(nido-carboranylmethyl)phenyl] porphyrins. *Bioorganic and Medicinal Chemistry*, 10:481-492, 2002.

Gilmer-Hill H, Ellis WG, Imbesi SG, Boggan JE. Spinal oligodendroglioma with gliomatosis in a child. *Journal of Neurosurgery: Spine*, 92(1):109-113, 2000.

Kim SY, McGahan JP, Boggan JE, McGrew W. Prenatal diagnosis of lipomyelomenigocele. *Journal of Ultrasound Medicine*, 19:801-805, 2000.

Gerscovich EQ, Maslen L, Cronan MS, Poirer V, Anderson MW, McDonald C, Boggan JE, Ivanovic M. Spinal sonography and magnetic resonance imaging in patients with repaired myelomenigocele: Comparison of modalities. *Journal of Ultrasound Medicine*, 18:655-664, 1999.

Gilmer H, Boggan JE, Smith KA, Frey CF, Wagner Jr. FC, Hein L. Intrathecal morphine delivered via subcutaneous pump for intractable pain in pancreatic cancer. *Surgical Neurology*, 51:6-11, 1999.

Gilmer H, Boggan JE, Smith KA, Wagner Jr. FC. Intrathecal morphine delivered via subcutaneous pump for intractable cancer pain: A review of the literature. *Surgical Neurology*, 51:12-15, 1999.

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