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SCHOOL OF MEDICINE

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Howard M. Eisenberg, MD

Raymond K. Thompson, MD Chair in Neurosurgery

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Professor

Primary Appointment:

Neurosurgery

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Education and Training

- Syracuse University, BA, 1960
- State University of New York, Downstate Medical Center, MD, 1964
- Fellowship, Cornell University, Surgery, 1964-1966
- Residency, Children's Hospital Medical Center and Peter Bent Brigham Hospital,
- Neurological Surgery, 1966-1970

- Fellowship, National Hospital for Nervous Disease, London, 1968
- Clinical Fellowship, Harvard Medical School, Surgery, 1970

Biosketch

Dr. Eisenberg is recognized as one of the nation's top neurosurgeons and pre-eminent experts on traumatic brain injury and the blood brain barrier. As Chairman of the Department of Neurosurgery, he has led a group of neurosurgeons and scientists in providing innovative programs that make procedures safer, less invasive and more effective. The research interests of the Department extend from the mechanisms of traumatic central nervous system injury and stroke to the biology of brain tumors.

Dr. Eisenberg has been principal investigator for the Traumatic Brain Injury Clinical Trial Network of the National Institutes of Health. His recent work has resulted in ground breaking research and a clinical trial on focused ultrasound to treat essential tremor and Parkinson's disease. Dr. Eisenberg was LCDR US Navy, Director of Medical Services and the Program in Trauma at the R. Adams Cowley Shock Trauma Center. He was Chairman of the American Board of Neurosurgery and was Vice Chairman of the ACGME Residency Review Committee for Neurosurgery.

He was Chairman of NIH Study Section (Neuro A) and was Chairman of the Editorial Board of the Journal of Neurosurgery. He was President of the American Society for Neurosurgery (the Senior Society). Dr. Eisenberg's expertise in the field is evidenced by numerous listings in Castle Connolly America's Top Doctors (2002-2008, 2010-2016). His publications have been cited over 25,000 times. Since 2013, Dr. Eisenberg has served as a consultant to the National Football League.

Research/Clinical Keywords

Brain Tumors, Acoustic Neuromas, Epilepsy and Movement Disorders, Skull Base Surgery, Non-Invasive Surgery, Focus-Guided Ultrasound

Highlighted Publications

Eisenberg, H.M.; Suddith, R.L. Cerebral vessels have the capacity to transport sodium and potassium. *Science* 206:1083-1085; 1979.

Eisenberg, H.M.; Frankowski, R.F.; Contant, C.F.; Marshall, L.F.; Walker, M.D.; Comprehensive Central Nervous System Trauma Centers. High dose barbiturate control of elevated intracranial pressure in patients with severe head injury. *J. Neurosurg.* 69:15-23; 1988.

Bracken, M.B; Shepard, M.J.; Collins, W.F.; Holford, T.R.; Young, W.; Baskin, D.S.; **Eisenberg, H.M.**; Flamm, E.; Leo-Summers, L.; Maroon, J.; Marshall, L.F.; Perot, Jr., P.L.; Peipmeier, J.; Sonntag, V.K.H.; Wagner, F.C.; Wilberger, J.E.; Winn, H.R. A randomized, controlled trial of methylprednisolone or naloxone in the treatment of acute spinal-cord injury: Results of the second national acute spinal cord injury study. *N Engl. J. Med.* 322:1405-1411; 1990.

Eisenberg, H.M.; Gary, H.E. Jr.; Aldrich, E.F.; Saydjari, C.; Turner, B.; Foulkes, M.A.; Jane, J.A.; Marmarou, A.; Marshall, L.F.; Young, H.F. Initial CT scan findings in 753 patients with severe head injury: A report from the NIH Traumatic Coma Data Bank. *J. Neurosurg.* 73:688-698; 1990.

Elias WJ, Lipsman N, Ondo WG, Ghanouni P, Kim YG, Lee W, Schwartz M, Hynynen K, Lozano AM, Shah BB, Huss D, Dallapiazza RF, Gwinn R, Witt J, Ro S, **Eisenberg H.M.**, Fishman PS, Gandhi D, Halpern CH, Chuang R, Butts Pauly K, Tierney TS, Hayes MT, Cosgrove GR, Yamaguchi T, Abe K, Taira T, Chang JW. A Randomized Trial of Focused Ultrasound Thalamotomy for Essential Tremor. *N Engl J Med*, 2016 Aug 25;375(8):730-739; 2016

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