

# Curtis N. Nelson, M. D., Ph. D.

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## **Summary of qualifications**

Dr. Nelson is a board certified neurosurgeon with special expertise in the surgical treatment of acoustic nerve tumors, pituitary tumors, facial pain, and disorders of the cervical and lumbar spine.

## **Current Positions**

Associate Professor of Neurosurgery, University of Maryland  
Attending Neurosurgeon, University of Maryland Medical Center  
Attending Neurosurgeon, Memorial Hospital Easton

## **Education**

B.S.E. Princeton University in Electrical Engineering, 1963  
Ph. D. University of Rochester in Physiology, 1970  
M. D. University of Rochester, 1972 with Honor and with Distinction in Research

## **Internship Residency**

Mary Hitchcock Memorial Hospital, Hanover, NH, Surgery, 1972-1973  
Massachusetts General Hospital, Boston, MA., Neurosurgery, 1973-1978

## **Postdoctoral Research**

NINDS, Washington, D.C., Laboratory of Neuropharmacology , 1970  
Research Associate, Massachusetts Institute of Technology 1975-1976  
Asst. Professor, Center for Brain Research, Univ. of Rochester 1981-1983

## **Professional memberships**

American Association of Neurological Surgeons  
North American Spine Society  
Alpha Omega Alpha

## **Medical Licensures**

Maryland D0062628 expires 9/30/07  
Maryland CDS Reg. No. M60100  
New York 134564, 6/17/78 – 12/31/05

## **Board Certification**

Massachusetts 35924 8/30/73 – 6/17/78  
American Board of Neurological Surgery 1/21/82



**Dr. Nelson**

Dr. Nelson is a native of Rochester, NY. He graduated from Princeton University with a major in electrical engineering and worked as a designer of medical instruments at Bausch & Lomb. He earned a Ph.D. degree in neurophysiology and an M.D. degree with honor and with distinction in research from the University of Rochester in 1972. He collaborated with Drs. Floyd Bloom, George Siggins, and Barry J. Hoffer in research on the physiology and pharmacology of brain neurotransmitters at the National Institutes of Neurological Diseases and Stroke. His Internship was in Surgery at Dartmouth and residency at The Massachusetts General Hospital, where he helped to develop techniques to measure cerebral blood flow using xenon isotopes and methods to measure brain metabolism using PET scanning.

After being hired as Assistant Professor of Neurosurgery at the University of Rochester in 1978. Dr. Nelson became very active in teaching medical students and residents in neurosurgical critical care. He became the first neurosurgeon for the Otology Center of Western New York, specializing in surgery of acoustic neuromas. He also focused on pituitary tumors and brain tumors of other types. He treated trigeminal neuralgia with percutaneous techniques as well as microvascular decompression. In the spine, he was known for anterior cervical reconstruction, lumbar disc surgery, and various stabilization procedures.

Dr. Nelson joined the faculty of the University of Maryland in June, 2005 with the plan of providing neurosurgical services to the Memorial Hospital Easton and referral of patients with complex problems to the University of Maryland, Baltimore. He has opened a new neurosurgical office at 505A Dutchman's Lane, Easton, MD 21601

Curt and his wife, Nancy, reside in Easton, MD. They have been married for forty-four years and blessed with three children and nine grandchildren. They have moved their sailboat, Tiger Lily, to Oxford and are enjoying the pleasant climate of the Eastern Shore.

## Publications

### Original Articles

1. D.L. Shrier, D. Melville, J. Qian, D. Miller, C. Nelson, W. Pilcher, and J Powers: Fibro-osseous lesions involving the brain: MRI – Diagnostic Neuroradiology (1999) 41: 18-21
2. Manzione JV, Kido DK, Dutchre PO, Nelson CN, Wayman J, Ekholm SE, Ketonen LM. The clinical Efficay of the 7<sup>th</sup>-8<sup>th</sup> Nerve Complex Sign in the Diagnosis of Acoustic Neuromas and The Influence of Gd-DPTA enhanced MRI Scans o Ptient Management. In preparation for AJNR, 1989.
3. W.C. Welch, M. McBride, D. Kido, and C.N. Nelson. Moya Moya Disease in an Infant with Autonomic Dysfunction: Angiographic an MRI Findings. Journal of Child Neurology Vol 3: 110-113, April, 1988.
4. K.W. Swann, R.C. Heros, G. Debrun, and C.N. Nelson. Inadvertent middle cerebral artery embolism by a detachable balloon: management by embolectomy. J. Neurosurg 64:309-312, 1986.
5. R.L. James, G. Arsenis, M. Stoller, C. Nlson, and D. Baran: Hypophyseal Metatasus of Renal Cell Carcinoma and Pituitary Adenoma – A Case Report and Review of the Literature. A. J Med, 1984.
6. J.C. Baron, R.H. Ackerman, J.A. Correia, C,.N. Nelson, and J.N. Tavares: Artifactual Curves with 133-Xe Inhalation and Cerebral Blood Flow Measurement. Acta Neurol Scand, 60: Suppl 72:238-239, 1979.
7. J.C. Baron, R.H. Ackerman , J.A. Correia, C.N. Nelson, J. Chang, and J.M. Taaros: Improvement in Spatial Resolution of Xenon-133-Inhalation and Cerebral Blood Flow Measurement. Acta Neurol Scand, 60: Suppl 72: 212-213, 1979.
8. R.H. Ackerman, J.C. Correia, K.H. Chiappa, E.R. Walpow, C.N. Nelson, R.R. Young, and J.M. Tavares: Comparison of Two Mthods of Monitoring Cerebral Activity: 133-Xenon Inhalation Blood Flow Studies and Compressed pectral Analysisd of EEG. Acta Nurol candanivica, 60:
9. G.J. Candia, R. C. Heros, M.H. Lavyne, N.T. Zervas, and C.N. Nelson: Effect of Intravenous Sodium Nitroprusside on Cerebral Blood Flow and Intracranial Pressure. Neurosurgery, 3:50-53, 1978.
10. C.N. Nelson, B.J. Hoffer, ad F.E. Bloom: Cytochemical and Pharmacological Studies of Plysensory Neurons in the Primate Frontal Cortex. Brain Res, 62:115-133, 1973.
11. F. E. Bloom, N-s Chu, B.J. Hoffer, C.N. Nelson, and G.R. Siggins: Studies of the Function of Cental Nonadrenergic Neurons. Chemical Approaches to Brasin Function, Neurosciences Research, 5:53-72, 1973.
12. F.E. Bloom, B.J. Hoffer, C.N. Nelson, Y-s Sheu, and G.R. Siggins: The Physiology and Pharmaciology of Serotonin Mediated Synapse. Serotonin and Behavior. Academic Press (New York), pp. 249-261, 1973.
13. C.N. Nelson, B.J. Hoffer, and F.E. Bloom: Cytochemical and Pharmacological Studies on Polysensory Neurons in the Primate Frontal Cortex. Brain Res, 62:115-133, 1973.

14. C.N. Nelson and K.E. Bignall: Interactions of Sensory and Nonspecific Thalamic Inputs to Cortical Polysensory Units in the Squirrel Monkey. *Ep. Neurol*, 40:189-206, 1973.
15. C.R. Honig, J.L. Frierson, and C.N. Nelson: O<sub>2</sub> Transport and V<sub>O2</sub> in Resting Muscle: Significance for Tissue-Capillary Exchange. *Am J Physiol*, 220:357-363, 1971.
16. C.N. Nelson and K.E. Bignall: Influence of Nonspecific Thalamic Stimulation on Polysensory Cortical Cells. *Fed Proc*, 28:455, 1969.
17. C.N. Nelson and E.O. Lipchik: A Computer Method for Calculation of Left Ventricular Volume from Biplane Angiocardiograms. *Invest Radiol*, 1:139-143, 1966.
18. W.B. Clarke, H.A. Knoll, and C.N. Nelson: A binocular Infrared Pupillograph. *Arch Ophthal*, 76:355-358, 1966.

#### **Ph.D. Thesis**

Interactions between sensory and nonspecific thalamic inputs to polysensory units in the frontal cortex of the squirrel monkey. Curtis N. Nelson, 1969

#### **Book Reviews**

1. "Head Injury: Basic and Clinical Aspects" in *Archives of Neurology*, 40: 662, 1983.
2. "ICP in Infancy and Childhood." In *Archives of Neurology*, 40: 662, 1983.