

Curriculum Vitae

Donlin Martin Long, M.D., Ph.D..

DEMOGRAPHIC INFORMATION

Current Appointment: Distinguished Service Professor of Neurosurgery Emeritus (retired)

Academic Address: Johns Hopkins Medicine
600 N. Wolfe Street
Carnegie Rm 466
Baltimore, MD 21287
Fax: 410-955-6407
E-Mail: dmlong@jhmi.edu

Joppa Green II
2328 W. Joppa Road
Suite 130
Lutherville, MD 21093
Telephone: 410-828-7513
Fax: 410-828-4823
E-Mail: dmlong@mkjd.net
(This practice is not associated with Johns Hopkins Medicine)

Education and Training:

- 1951-52 Jefferson City Junior College, Jefferson City, Missouri
- 1952-55 University of Missouri, Columbia, Missouri
- 1955-59 University of Missouri Medical School, Columbia, Missouri
Degree: M.D.
- 1960-64 University of Minnesota Graduate School, Minneapolis, Minnesota
Degree: Ph.D. (Neuroanatomy)

INTERNSHIP:

- 1959-60 University of Minnesota Hospitals
Department of Surgery
Minneapolis, Minnesota

RESIDENCY:

- 1960-64 University of Minnesota Health Science Center, Department of Neurosurgery
Minneapolis, Minnesota
- 1965 Peter Bent Brigham and Children's Hospital Medical Center
Department of Neurological Surgery
Boston, Massachusetts

MILITARY SERVICE: Postdoctoral Research Fellowship

- 1965-67 USPHSH, N.I.H. Bethesda, Maryland
Clinical Associate

Branch of Surgical Neurology
(Laboratory of Experimental Neuropathology and Neuroanatomical Sciences)

Professional Experience:

- 1967-70 Chief of Neurosurgery
Minneapolis VA Hospital
Minneapolis, Minnesota
- 1967-70 Assistant Professor, Department of Neurosurgery
University of Minnesota Hospitals
Director of Pediatric Neurosurgery
- 1970-73 Associate Professor, Department of Neurosurgery
University of Minnesota Hospitals
- 1973 to present Professor of Neurosurgery
The Johns Hopkins University School of Medicine
- 1973-2000 Neurosurgeon-in-Chief, Department of Neurosurgery
The Johns Hopkins Hospital
- 1973-2000 Professor and Director, Department of Neurosurgery
The Johns Hopkins University School of Medicine
- 1973-2010 Active Staff, Department of Neurosurgery
Johns Hopkins Bayview Medical Center
- 1976-2010 Principal Staff, Applied Physics Laboratory
The Johns Hopkins University
- 1977-2010 Active Staff The Kennedy Krieger Institute
- 2001-2010 Distinguished Service Professor - Johns Hopkins University School of Medicine
- 2010 to Present Distinguished Service Professor Emeritus Johns Hopkins University School of Medicine
Dr. Long retired from Johns Hopkins Medicine 6-30-2010. He remains active in research and teaching at Johns Hopkins.

Articles

1. Long DM: Anesthetic management of patients with trauma. Missouri Medicine 57:1014-1018, August, 1960.
2. Long DM, Watson CG and French LA: Pregnancy after successful treatment of a patient with a chromophobe adenoma. The Journal-Lancet 81(2):83-85, February, 1961.
3. Long DM, Leonard AS, Nicoloff DM, French LA and Wangensteen OH: Hypothalamic lesions and acute gastric ulceration. Surgical Forum 12:384-385, October, 1961.
4. Leonard AS, Long DM, Thomas F, Nicoloff DM and Wangensteen OH: The influence of the hypothalamus on gastric secretion. J.A.M.A. 180(9):126-127, June, 1962.

5. Long DM, Leonard AS, Chou SN and French LA: Hypothalamus and gastric ulceration. Part I: Gastric effects of hypothalamic lesions. Arch. Neurol. 7:167-175, September, 1962.
6. Long DM, Leonard AS, Story J and French LA: Hypothalamus and gastric ulceration. Part II: Production of gastrointestinal ulceration by chronic hypothalamic stimulation. Arch. Neurol. 7:176-183, September, 1962.
7. Leonard AS, Long DM, Thomas F, Nicoloff DM and Wangenstein OH: The influence of the hypothalamus on gastric hydrochloric acid secretion. J.A.M.A. 183(12):120-122, March, 1963.
8. Leonard AS, Engle JC, Peter ET, Long DM and Wangenstein OH: Gastric blood flow and inhibition of histamine-stimulated gastric secretion. Occurrence following posterior hypothalamic stimulation. J.A.M.A. 187:589-591, February, 1964.
9. Leonard AS, Long DM, French LA, Peter ET and Wangenstein OH: Pendular pattern in gastric secretion and blood flow following hypothalamic stimulation-origin of stress ulcer? Surgery 56(1):109-120, July, 1964.
10. Long DM, DeWall RA and French LA: Unusual complication of ventriculo-auriculostomy. Report of two cases. J. Neurosurgery 21(3): 233-234, 1964.
11. Long DM: The ultrastructure of cerebral edema and its response to glucosteroid administration. Med. Bull. U. of Minn. 36(9):339-341, May, 1965.
12. Long DM, Hartmann JF and French LA: The ultrastructure of human cerebral edema. J. of Neuropath. Exp. Neurol. 25:373-395, 1965.
13. Leonard AS, Gilsdorf RB, Long DM and French LA: Cyclic hypothalamic stimulation patterns in gastric blood flow and secretions-origins of stress ulcer? Proceedings of the Second International Symposium on Stereoccephalotomy, 1965.
14. Leonard AS, Gilsdorf RB, Long DM and French LA: Sympathetic autonomic stimulation influence of experiments by produced pancreatitis. I. Proceedings of the Second International Symposium on Stereoccephalotomy, 1965.
15. Long DM and Story JL: Hyponatremia following bilateral cervical cordotomy. J. Neurosurg. 25(6):623-627, May, 1966.
16. Long DM, Hartmann JF and French LA: The response of human cerebral edema to glucosteroid administration. An electron microscopic study. Neurology 16(5):521-528, May, 1966.
17. Long DM, Hartmann JF and French LA: A response of experimental cerebral edema to glucosteroid administration. J. of Neurosurg. 24(5):843-854, 1966.
18. Long DM, Hartmann JF and French LA: Ultrastructural substrates of experimental cerebral edema. Brain-Edema Proceedings of the Symposium, Klatzo I and Seitelberger F (editors), Springer-Verlag, New York, pp. 419-444, 1967.
19. Klatzo I, Li C-L, Long DM, Bak AF, Mossakowski MJ, Parker LO and Rasmussen LE: The effect of hypothermia on electric impedance and penetration of substances from the CSF into the periventricular brain tissue. Reprinted from A. Lajtha and DH Ford, Progress in Brain Research, Vol. 29, Brain Barrier Systems, Elsevier Publishing Company, Amsterdam, 1967.

20. Long DM: Early histochemical and ultrastructural responses to brain anoxia/ischemia. Medical Bulletin University of Minnesota Volume 39, Number 3, pp. 83-85. November, 1967.
21. Long DM, Bodenheimer TS, Hartmann JF and Klatzo I: Ultrastructural features of the shark brain. Am. J. Anat. 122(2):209-236, March, 1968.
22. Long DM, Chou SN, French LA: The evaluation and treatment of hydrocephalus. Minn. Med. 51:761-766, June, 1968.
23. Mossakowski MJ, Long DM, Myers RE, Rodriguez de Curet H and Klatzo I: Early histochemical changes in perinatal asphyxia. Journal of Neuropathology and Experimental Neurology 27(3):500-516, July, 1968.
24. Long DM: Spinal cord compression secondary to neoplasm. Minn. Med. 51:1239-1244, September, 1968.
25. French LA, Chou SN and Long DM: The direct approach to intracranial aneurysms. Clinical Neurosurgery. Volume 15:117-132, 1968.
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26. Long DM: Capillary ultrastructure and the blood-brain barrier in human malignant brain tumors. J. Neurosurg. 32:127-144, February, 1970.
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28. Long DM, Maxwell RE and French LA: The effect of glucosteroids upon cold induced edema. VI Congress of International Pathology, Paris, August 31 through September 4, 1970, 1035-1037. (Proceedings)
29. Long DM: Capillary ultrastructure and the blood-brain barrier in human malignant brain tumors. VI Congress of International Pathology, Paris, August 31 through September 4, 1970, 1035-1037. (Proceedings)
30. Anderson R, Kieffer SA, Wolfson JJ, Long DM and Peterson HO: Thickening of the skull in surgically treated hydrocephalus. American Journal of Roentgenology, Radium Therapy and Nuclear Medicine 110(1):96-101, September, 1970.
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37. Long Dm, Maxwell RE and French LA: The effect of glucosteroids upon cold induced brain edema. Part II. Ultrastructural evaluation. J. of Neuropath. and Exp. Neurology. 30(4): 680-697, October, 1971.
38. Rogers HM, Long DM, Chou SN and French LA: Lipomas of the spinal cord and cauda equina. Journal of Neurosurgery 34(3):349-354, 1971.
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40. Long DM: Silver nitrate therapy as an adjunct in the treatment of myelomeningocele. J. Neurosurg. 36(6):769-772, June, 1972.
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60. Long DM: Peripheral and dorsal column stimulation for pain control. Proceedings of the First World Congress on Pain. Florence, Italy, 1975.
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62. Long DM: Use and misuse of drug therapy in chronic pain. Proceedings of the First World Congress on Pain, Florence, Italy, 1975.
63. Hendler N, Uematsu S, Long DM and Allen G: Problems with lithium as treatment of inappropriate ADH Secretion. The New England Journal of Medicine February, 1976, p. 446.
64. Lora J and Long DM: So-called facet denervation in the management of intractable back pain. Spine 1(2):121-126, June, 1976.

65. Linzer M and Long DM: Transcutaneous neural stimulation for relief of pain. IEEE Transactions on Biomedical Engineering Vol. BME-23(4):341-345, July, 1976.
66. Campbell JN and Long DM: Peripheral nerve stimulation in the treatment of intractable pain. Journal of Neurosurgery 45:692-699, December, 1976.
67. Long DM: Cutaneous afferent stimulation for the relief of pain. Prog. Neurol. Surg. 7:35-51, 1976.
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69. Long DM: Use of peripheral and spinal cord stimulation in the relief of chronic pain. Advances in Pain Research and Therapy. JJ Bonica and Albe-Fessard (ed) Raven Press, 395-403, 1976.
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74. Sklar FH and Long DM: Recirculatory spinal subarachnoid perfusions in dogs: A method for determining CSF dynamics under non-steady state conditions. Neurosurgery 1(1):48-56, July-August, 1977.
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83. Epstein M, McQueen JD and Long DM: Surgical approach to atypical posterior fossa aneurysms. In Proceedings of the American Association of Neurological Surgeons, 1978.
84. Long DM: Dealing with backache: Expert advice. U.S. News and World Report, Inc. April 2, 1979, pp. 51-53; (lay publication).
85. Merriman E, Bell W and Long DM: Surgical postoperative bleeding associated with aspirin ingestion. Journal of Neurosurgery 50(5):682-684, May, 1979.
86. Aarabi B, Paternak G, Hurko O and Long DM: Familial intradural arachnoid cysts. Report of two cases. Journal of Neurosurgery 50:826-829, June, 1979.
87. Long DM: Capillary ultrastructure in human metastatic brain tumors. Journal of Neurosurgery 51:53-58, July, 1979.
88. Long DM and Shealy CN: Pain after nerve injury. Neurosurgery 5(1 Pt. 1):76-77, July, 1979.
89. Aarabi B, Epstein M and Long DM: Dibutyl cyclic adenosine 3'5'-Monophosphate. Its' role in regulation of cat brain extracellular fluid. Arch. Neurol. 36:498-500, August, 1979.
90. Bogduk N and Long DM: The anatomy of the so-called "articular nerves" and their relationship to facet denervation in the treatment of low-back pain. Journal of Neurosurgery 51:172-177, August, 1979.
91. Aarabi B and Long DM: Dynamics of cerebral edema. The role of an intact vascular bed in the production and propagation of vasogenic brain edema. Journal of Neurosurgery 51:779-784, December, 1979.
92. Hendler N, Viernstein M, Gucer P and Long CM: A preoperative screening test for chronic back pain patients. Psychosomatics 20(12):801-808, December, 1979.
93. Long DM: Evaluation and treatment of the "multiple surgery" low-back cripple. Contemporary Neurosurgery 17:1-6, 1979.
94. Solomon RA, Viernstein MC and Long DM: Reduction of postoperative pain and narcotic use by transcutaneous electrical nerve stimulation. Surgery 87(2):142-146, February, 1980.
95. Bogduk N and Long DM: Percutaneous lumbar medial branch neurotomy. A modification of facet denervation. Spine 5(2):193-200, March/April, 1980.
96. Hendler N, Cimini C, Ma T and Long DM: A comparison of cognitive impairment due to benzodiazepines and to narcotics. Am. Journal of Psychiatry 137:828-830, July, 1980.
97. deFigueiredo JM, Baiardi JJ and Long DM: Briquet syndrome in a man with chronic intractable pain. The Johns Hopkins Medical Journal, 147:102-106, 1980.
98. Sklar FH, Reisch J, Elashvili I, Smith T and Long DM: Effects of pressure on cerebrospinal fluid formation: Nonsteady-state measurements in dogs. American Physiological Society

- pp. R277-R284, 1980.
99. Long DM: Surgical therapy of chronic pain. Neurosurgery 6(3):317-328, 1980.
 100. Long DM: Relief of cancer pain by surgical and nerve blocking procedures. JAMA 244(24):2759-2761, December 19, 1980.
 101. Brem H, Thompson D, Long DM and Patz A: Human brain tumors: Differences in ability to stimulate angiogenesis. Surgical Forum 31:471-473, 1980.
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 107. Long DM, Erickson D, Campbell J and North R: Electrical stimulation of the spinal cord and peripheral nerves for pain control. A 10-year experience. Applied Neurophysiology 44:207-217, 1981.
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 107. Long, DM: The ideal neurosurgical training curriculum In, Training in Neurosurgery in the Countries of the EU, A Guide To Organize a Training Programme by H.J. Reulen, Section IV No. 21-31. Editor H. J. Steiger. SpringerWienNewYork 2004
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Vaccaro, Benzel, Mayer Dilivros, Rio de Janiero, Brazil, 2010

Editorial Activities

EDITORSHIP: Neurosurgery Quarterly

CONTRIBUTOR: AMA Panels for Evaluation of Permanent Impairment. Editions III, V.

EDITORIAL BOARDS: Applied Neurophysiology
PAST AND ACTIVE Acta Neurologica Scandinavica
 Contemporary Neurology
 Critical Reviews in Neurosurgery
 Journal of Neurologic Rehabilitation (term ended 1993)
 Lasers in Surgery and Medicine
 Malaysian Journal of Medicine
 Neurosurgery
 Neurosurgery Journal of Nepal
 Pan Arab Journal of Neurosurgery
 Raven Press - Lippincott, Williams and Wilkins - Neuroscience Panel
 Skull Base Surgery Journal
 Spine (Member of founding Editorial Board)
 Surgical Neurology
 Surgical Neurology International

AD HOC REVIEWER: Acta Neurochirurgica
 Annals of Neurology
 Cancer
 Journal of the American Medical Association
 New England Journal of Medicine
 Academic Medicine

CLINICAL ACTIVITIES:

MEDICAL LICENSURE: Maryland, 1973 - current
 Massachusetts, 1965
 Minnesota, 1961
 Missouri, 1959

BOARD CERTIFICATION: American Board of Neurological Surgery
 November 6, 1968

ORGANIZATIONAL ACTIVITIES:

CONSULTANT:

1970-73 Minnesota Veterans Administration Hospital, Minneapolis, Minnesota

1973-2000 Baltimore City Hospital; Bayview Medical Center Baltimore, MD

1973-resigned	Columbia Hospital and Clinics Foundation, Columbia, Maryland
1973-resigned	Loch Raven Veterans Administration Hospital, Baltimore, Maryland
1974-resigned	Prince Frederick General Hospital, Prince Frederick, Maryland
1974-resigned	Montebello Hospital , Baltimore, Maryland
1977-2010	Kennedy-Krieger Institute, Baltimore, Maryland

CLINICAL RESEARCH ACTIVITIES - ON GOING OR RECENT SINCE 2000

- 1) PI Spinal Sealant Study Confluent Surgical 2006-2008
- 2) Scientific Advisor Unigene Co. Remineralization of Spinal Bone
- 3) Scientific Advisor Spinal Kinetics Artificial Cervical Disc
- 4) Chair Safety/Efficacy Monitoring Cmtee LDR Co. Artificial Cervical Disc
- 5) Chair Scientific Advisory Group SKK Co. Nucleolytic Chymopain Intradiscal Therapy
- 6) Medical Advisor High Point Co. Development of Overseas Medical Care
- 7) PI Longevity of Spinal Implants JHMI Clinical Study
- 8) Scientific Advisor OsteogeneX Anabolic Bone Therapies

ACADEMIC ADMINISTRATION AND CONSULTING

- | | |
|-----------|--|
| 1985,1993 | Neurosurgery Consultant, Disability Evaluation under Social Security (1985,1993 Revisions) |
| ----- | Social Security Disability Panels (Neurosurgery Consultant) |
| ----- | Baltimore City Hospital; Bayview Medical Center Advisory Board for Neurosurgery Baltimore, MD. |
| 1996 - | NIH-NINDS Scientific Counselors Panel |
| 1997- | Peer Review Consultant: American Medical Foundation for Peer Review & Education |
| 1996-2000 | Neuroscience Consultant, National Neuroscience Institute, Singapore |
| 1996-2000 | Council of Academic Societies Advisory Board |
| 1996- | Advisory Board - Engineering Research Center JHMI |
| 1997-2000 | Buckeye Corporation Medical Advisory Panel (for India) |

- 2000- Advisory Board - Center for Complementary Medicine, JHMI
- 2001-2003 Chairman, Medical Advisory Panel, Guilford Pharmaceuticals
- 2003 Advisory Board: Agarini Foundation for Research in Neural Regeneration - University of Terni and JHMI
- 2005 The Society of Industry Leaders (SIL)
- 2005 The Faculty of 1000 (Medicine)
- 2007 Board of Directors - The Neuromodulation Foundation, Inc.: Vice president
- 2008-2010 ABC News Medical Advisory Panel

SOCIETIES: American Academy of Algology
 American Academy of Neurological Surgeons
 American Academy of Pain Medicine
 American Association of Advancement of Science
 American Association of Neurological Surgeons: Sections: Basic Science, Spine, Pediatric, Cerebrovascular, Functional and Stereotaxis, Brain Tumors
 American Association of Neuropathologists
 American College of Surgeons
 American Medical Association
 American Neurological Association
 American Pain Society
 American Society for Stereotactic and Functional Neurosurgery
 American Surgical Association
 Austrian Neurosurgical Society (Honorary)
 Baltimore Neurological Society
 Brazilian Neurosurgical Academy (Honorary)
 Cajal Club
 Cervical Spine Research Society
 Congress of Neurological Surgeons
 Electron Microscopy Society of America
 Fellow of the American Heart Association (Stroke Council)-now retired (2005)
 International Association for the Study of Pain
 International Society of Pediatric Neurosurgery
 Johns Hopkins Medical and Surgical Association
 Maryland Medical Association
 Maryland Neurosurgical Society
 Mid-Atlantic Neurosurgical Society (Honorary)
 Neurosurgical Society of America
 Neurosurgery Society of Peru (Honorary)
 William T. Peyton Society
 Rocky Mountain Neurosurgical Society, Inc. (Honorary)
 Sigma XI, The Scientific Research Society
 Society of Industry Leaders
 Society of Neurological Surgeons

Society for Neuroscience
 Society of University Surgeons
 Southern Neurosurgical Society

JHUSOM COMMITTEES:

International Affairs Committee, 1996-98
 Interdepartmental Committee on Positron Emission Tomography, 1992-98
 Interdisciplinary Committee on Nuclear Magnetic Resonance, 1992-98
 Walter E. Dandy Visiting Professorship Committee, 1992-98
 Committee on Conflict of Interest, 1996- 2004
 Documentation Committee 1996-2000
 Committee on Awards 1997-
 International Committee 1997- 1999
 Search Committees:
 Anesthesia (Chair)
 Orthopaedics (Chair)
 Neurology (Chair) - twice
 Physical Medicine and Rehabilitation - twice

Committees on Departmental Status
 Dermatology
 Rehabilitation

Curriculum Revision - Neuroscience Subcommittee

RECOGNITION:

AWARDS: O. M. Steward Physics Award - 1953, 1954, 1955
 Outstanding Midshipman (NROTC Award) - 1953-54
 Medical Foundation Award - 1956-57
 Distinguished Alumnus Citation, Jefferson City Public Schools - 1978
 Citation of Merit for Outstanding Achievement and Meritorious Service in Medicine
 University of Missouri Alumni Association - 1983
 Citation of Merit, University of Missouri Alumni Association - 1985
 Jamison Medal, Australian Neurosurgery Society - 1986
 The Wakeman Award for Research in Neuroscience - 1990
 The Beks Medal - 1998
 The Ginde Medal -1999
 World Federation of Neurosurgery Societies Commendation 2007

HONORS: Deans Honor Five (scholastic) 1953, 1954, 1955, 1956, 1957, 1958, 1959
 Honored Guest and Honorary Member, Australasian Neurosurgical Society - 1991
 Honored guest, the Rocky Mountain Neurosurgery Society
 Honored Guest and Honorary Member, Austrian Neurosurgical Society - |
 Honored Guest, Beks Lecture, Netherlands Neurosurgery Society - 1998
 Honored Guest, The Western Neurosurgery Society - 1998
 The Ginde Orator, Bombay - 1999
 Award for Contributions to Neurosurgery, The World Federation of Neurosurgery
 Societies 2001
 Award for contributions to Brazilian Neurosurgery by Brazilian Academy of
 Neurosurgery 2007

HONORARY
SOCIETIES:

Phi Eta Sigma (Freshman Men's Scholastic Society)
Pi Mu Epsilon (Mathematics Scholastic Society)
Scabbard and Blade (ROTC Scholastic Society)
Omicron Delta Kappa
Mystical 7
Alpha Omega Alpha
Sigma XI