

## CURRICULUM VITAE

### PERSONAL STATUS:

Name: Dennis Dee Spencer, M.D.

Born: April 1, 1945; Bedford, Iowa USA

Marital Status: Married - Susan S. Spencer, M.D.  
4 children

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### MEDICAL LICENSURE:

Connecticut #17056

### BOARD CERTIFICATION:

National Board of Medical Examiners	March 1972
American Board of Neurological Surgery	January 1980

### EDUCATION:

B.S. Grinnell College, Grinnell, Iowa	6/1967
B.M.S. University of South Dakota Medical School, Vermillion, South Dakota	6/1969
M.D. Washington University School of Medicine, St. Louis, Missouri	6/1971

### TRAINING:

Intern in Surgery, Barnes Hospital, St. Louis, MO	7/1971-6/1972
Resident in Neurosurgery, Yale-New Haven Hospital	7/1972-6/1976
Chief Resident in Neurosurgery, Yale-New Haven Hospital, New Haven, CT	7/1976-6/1977

POSITIONS:

Postdoctoral Fellow, Neurosurgery, Yale Univ School of Medicine	7/1973-6/1974
Research Associate, Neurosurgery, Yale Univ School of Medicine	7/1974-6/1976
Instructor, Neurosurgery, Yale Univ School of Medicine	7/1976-6/1977
Assistant Professor, Neurosurgery, Yale Univ School of Medicine	7/1977-6/1981
Associate Neurosurgeon, Yale-New Haven Medical Center	7/1977-6/1980
Consulting Neurosurgeon, Veterans Administration Hospital West Haven, CT	7/1977-
Consulting Neurosurgeon, Yale University Health Services	7/1977-
Attending Neurosurgeon, Yale-New Haven Medical Center	7/1980 -
Associate Professor, Neurosurgery, Yale Univ School of Medicine	7/1981-6/1985
Chief of Neurosurgery, Veterans Administration Hospital	7/1981-6/1982
Acting Chief, Section of Neurosurgery, Yale Univ School of Medicine	Aug.1982 - Jan.1983
Acting Chief, Section of Neurosurgery, Yale Univ School of Medicine	Nov.1984 - Feb.1987
Professor of Neurosurgery, Yale Univ. School of Medicine	July 1985-
Chief, Section of Neurosurgery, Yale Univ. School of Medicine	March 1987-Dec 1996
The Nixdorff-German Professor of Neurosurgery, Yale University School of Medicine	June 1987 - Dec. 1994
The Harvey and Kate Cushing Professor of Neurosurgery, Yale University School of Medicine	Dec. 1994 -
Chairman, Department of Neurosurgery, Yale Univ School of Medicine	Jan 1997 -
Interim Dean, Yale University School of Medicine	July 1, 2003 - May 31, 2004

AWARDS AND HONORS:

Mosby Scholarship Award for Scholastic Excellence, 1969  
 Joseph J. and Charlotte E. Gitt prize for best original research in clinical and therapeutic medicine, Washington University School of Medicine, St. Louis, MO, 1971  
 Fellow, Calhoun College, Yale University, 1999-  
 American Epilepsy Society Milken Family Foundation 1999 Clinical Investigator Award  
 American Epilepsy Society 2000 William G. Lennox Lecturer  
 Visiting Professor at 17 Universities (since 1992)  
 Multiple keynote speaker invitations both domestic and abroad (Japan, Korea, Australia, Spain, France, Denmark, Germany, Turkey, Switzerland, UK)  
 Invited speaker at Council of Deans, spring 2004

PROFESSIONAL SOCIETIES:

American Academy of Neurological Surgeons  
 American Association of Neurological Surgeons (Harvey Cushing Society)  
 American Association for the Advancement of Science (Science)  
 American Epilepsy Society  
 American Medical Association  
 American Society for Stereotactic and Functional Neurosurgery  
 Association for Research in Nervous and Mental Diseases

Connecticut State Medical Society  
Connecticut State Medical Society, Section of Neurosurgery  
Eastern Association of Electroencephalography  
Epilepsy Foundation of America  
Epilepsy Foundation of Connecticut  
National Association of Epilepsy Centers  
New England Neurosurgical Society  
New Haven County Medical Association  
North American Skull Base Society  
Research Society of Neurological Surgery  
Sigma Xi  
Society of Neurological Surgeons  
Society for Neuroscience

**GRANTS****Correlation of Thin Section Polytomography and Histology of the Sella Turcica and Pituitary Obtained at Autopsy (D. Spencer)**

NIH CA27875  
1981-82

**Frontal Lobe Kindling in the Cat (D. Spencer)**

Epilepsy Foundation of America  
1985-86

**NMR Spectroscopy of Human Epilepsy (H. Hetherington/D. Spencer)**

Brookhaven Subcontract #062968 (PI - H. Hetherington)  
12/01/97 - 11/30/99

**Yale Epilepsy Center Grant (R. Mattson)**

NIH/NINDS PO1NS #06208  
04/01/97 - 03/30/02

**Structure and Function of Subcortical White Matter Neurons (A. Williamson)**

NIH RO1 NS38287  
09/01/99 - 06/30/04

**Energy and Metabolism in Temporal Lobe Epilepsy (D. Spencer)**

NIH PO1 NS39092  
08/13/99 - 06/30/05

**Hypoglycemia in the Central Nervous System (R. Sherwin, MD)**

Juvenile Diabetes Foundation  
05/01/00 - 04/30/05

**ONGOING****A Multicenter Study for Epilepsy Surgery (S. Spencer, MD)**

NIH-NINDS 1RO1 NS32375  
06/15/02 - 05/31/06

To prospectively evaluate cognitive, seizure, and quality of life outcomes after epilepsy surgery with a multicenter design.

**Bioimaging and Intervention in Neocortical Epilepsy (J. Duncan)**

(D. Spencer, CoPI)

NIH 1RO1 ED00473  
04/15/02 - 03/15/07

To lead to the improvement of our understanding and treatment of patients with neocortical epilepsy through the use of integrated imaging.

COMMITTEES:Yale University School of Medicine

Task Force on Chair Searches  
Task Force on Clinical Investigation  
Emergency Medicine Proposal Committee  
Committee on Biostatistics and Data Management  
Faculty Search Committee for Sr. Biostatistician  
Neurosurgery Liaison to Biomedical Engineering Committee Task Force  
Steering Committee for Graduate Program in Investigative Medicine  
Ad Hoc Committee on Medical Education  
Technology Transfer Review Committee  
Yale Medical Group Principles Committee  
Yale Medical Group Board of Governors  
    YMG Clinical Initiatives Committee  
    YMG Finance Committee  
Incentive Compensation Committee  
Dean Selection Advisory Committee  
Ophthalmology Chair Search Committee (Chair)  
Surgery Chair Search Committee  
Neuropathology Faculty Search Committee  
Orthopedics Search Committee  
Robert Wood Johnson Fellowship Advisory Committee  
Institute for Social and Policy Studies Bioethics Committee  
Pediatric Chair Search Committee (Chair)  
Committee on Cooperative Research  
Educational Policy and Curriculum Committee  
Amistad Steering Committee  
MRRC Advisory Committee  
Diagnostic Radiology Chair Search Committee  
Child Study Center Chair Search Committee (Chair)  
Clinical Practice Program Committee  
Strategic Planning/Clinical Practice Infrastructure Committee

Yale-New Haven Hospital:

Medical Board  
Medical Board Joint Conference Commission  
Medical Board Administrative Committee  
Operating Room Committee  
Education Committee

Boards and Societies:

## American Board of Neurological Surgery:

Director, The American Board of Neurological Surgery, 5/1996-2002  
Committee on Educational Requirements and Subspecialization in Neurosurgery  
Credentials Committee  
Primary Examination Committee  
Recertification Committee

Chairman, The American Board of Neurological Surgery, 2001-2002  
Recommendation Committee for New Directors  
ABNS Member of Residency Review Committee for Neurological Surgery,  
1/03-6/05

## Society of Neurological Surgeons

Scientific Program Committee  
Research Training Subcommittee of Residency Education Committee  
Research Committee  
Membership Committee (Chair 1999-00)  
Bylaws Committee  
Vice President

## American Epilepsy Society

Long range Planning Committee  
Scientific Program Committee  
Research Recognition Awards Committee  
Research Infrastructure Awards Committee  
Translational Research Task Force  
Epilepsy Surgery Special Interest (Chair, 1996-99)  
Board of Directors, 2002-2005

## American Association of Neurological Surgeons

Nominating Committee  
Representative to AAMC Council of Academic Societies (CAS)

Editorial Boards

Advances in Neurology – Editorial Advisory Board  
Journal of Neurosurgery – Editorial Board/Board of Directors

INVITED TALKS AND KEYNOTE PRESENTATIONS: (Last 10 years and abridged)

- 4/28-29/95      Microsurgical Techniques for Epilepsy & Intrinsic Brain Tumors  
Workshop, St. Louis University Sch Med Continuing Medical  
Education, St. Louis, MO
- 9/3-8/95        21st International Epilepsy Congress, Sydney, Australia
- 10/7/95         Grand Rounds, Henry Ford Hospital and Medical Centers, Detroit, MI
- 5/10-15/96      7th International Cleveland Clinic-Bethel Epilepsy Symposium,  
Cleveland, OH
- 5/29-31/96      Epilepsy Society of Turkey Symposium on Epilepsy Surgery, Istanbul,  
Turkey
- 6/6-7/96        International Epilepsy Symposium, Madrid, Spain
- 9/28-10/3/96    Congress of Neurological Surgeons' annual meeting, Montreal, Canada
- 12/5-11/96      American Epilepsy Society, San Francisco, CA
- 4/8-10/97        Microsurgical Techniques for Epilepsy & Intrinsic Brain Tumors  
Workshop, St. Louis Univ Sch Med, Continuing Medical Education, St.  
Louis, MO
- 4/12-17/97      American Association of Neurological Surgeons annual mtg, Denver,  
CO
- 4/26-5/3/97     Spring Epilepsy Research Conference, Gr. Cayman, BWI
- 5/17-20/97      Society of Neurological Surgeons' annual mtg, Pittsburgh, PA
- 6/11-16/97      4th YES Conference, Seoul, Korea
- 6/22-25/97      8th International Leksell Gamma Knife Society, Marseilles, France
- 7/6-11/97        International Congress of Neurological Surgery, Amsterdam,  
Netherlands
- 9/8-9/97        Visiting Professor, Division of Neurology, University of Alberta  
Hospital, Edmonton, Alberta, Canada
- 12/5-10/97      American Epilepsy Society annual mtg, Boston, MA
- 4/25-30/98      American Association of Neurological Surgeons' annual mtg,  
Philadelphia, PA
- 5/2/98            Grand Rounds, New Britain General Hospital, New Britain, CT
- 5/7/98            Visiting Professor, Columbia Univ Sch Med, New York, NY
- 5/10-12/98      Society of Neurological Surgeons' annual mtg, St. Louis, MO
- 5/21/98          Invited speaker, ASNR annual mtg, Philadelphia, PA
- 6/4-7/98        French Society of Neurology International mtg, Paris France
- 6/22-26/98      9th Cleveland Clinic/Bethel International Epilepsy Symposium,  
Cleveland, OH
- 12/4-10/98      American Epilepsy Society annual mtg, San Diego, CA
- 3/6/99            Invited speaker, Epilepsy Conference, Foxwoods Resort & Conference  
Ctr, Mashantucket, CT
- 3/9-10/99        Visiting Professor, Case Western Reserve University School of  
Medicine/University Hospitals of Cleveland, Cleveland, OH
- 4/24-29/99      American Association of Neurological Surgeons annual mtg, New  
Orleans, LA

- 4/28-30/99 Keynote speaker, Lars Leksell Epilepsy Symposium, University of Virginia, Charlottesville, VA
- 5/16-18/99 Society of Neurological Surgeons annual mtg, Colorado Springs, CO  
6/5/99 Organizer and moderator, John Farquhar Fulton MD Centennial Celebration Symposium, Association of Yale Alumni in Medicine, Yale School of Medicine
- 7/7-10/99 Invited speaker, American Society for Stereotactic and Functional Neurosurgery quadrennial mtg, Snowbird, Utah
- 10/17-19/99 Consultant, NIH study section – Diagnostic Imaging  
10/30/99 Invited speaker, Epilepsy Foundation of Connecticut's annual education conference, Norwalk Hospital, Norwalk, CT (Video Teleconference)
- 11/1-3/99 Congress of Neurological Surgeons annual mtg, Boston, MA  
12/2/99 Radiology Society of North America mtg, Chicago, IL  
12/3-9/99 American Epilepsy Society annual mtg, Orlando, FL
- 1/19/00 Invited speaker, The Forum on Bioethical Issues in Society, Institution for Social and Policy Studies, Yale University
- 3/11/00 Invited speaker, Northern Westchester Hospital Center symposium  
3/29-31/00 Consultant, NIH CURE Conference, Bethesda, MD  
4/6-7/00 Visiting Professor, Stanford University Med Ctr, Stanford, CA  
4/8-10/00 American Association of Neurological Surgeons annual mtg, San Francisco, CA
- 5/3-5/00 Visiting Professor, University of Alabama, Birmingham  
5/5-7/00 Honored Guest, Neurosurgical Society of Alabama  
5/31-6/4/00 International Symposium on Epilepsy Surgery, Granada, Spain  
6/7-9/00 Symposium, Assoc Pour la Neuro Psycho Pharmacologie, Rouffach, France
- 6/26-27/00 11<sup>th</sup> annual Internat'l Cleveland Clinic/Bethel Epilepsy Symposium, Cleveland, OH
- 9/23-27/00 Congress of Neurological Surgeons annual mtg, San Antonio, TX  
10/15-16/00 Zeiss Lecturer, RUNN Course, Woods Hole, MA  
10/19-21/00 International MR & Epilepsy Symposium, Birmingham, AL  
12/1-6/00 American Epilepsy Society annual mtg, Los Angeles, Ca  
12/6/00 Lennox Lecturer, American Epilepsy Society mtg, Los Angeles, CA
- 2/26/01 Cyril Courville Lectureship, Advances in Epilepsy Surgery, @ 69<sup>th</sup> Annual Postgraduate Convention, Loma Linda University Sch Med, CA
- 3/8-9/01 American Epilepsy Society Workshop on Antiepileptic Drug Monotherapy@ NIH, Rockville, MD
- 4/21-26/01 AANS Annual Mtg, Toronto, Canada  
6/2/01 speaker, 'Curing Epilepsy', Yale University School of Medicine Alumni Weekend
- 6/8/01 speaker, New England Neurosurgical Society Jubilee Mtg, New England Aquarium, Boston, MA
- 6/22-23/01 Visiting Professor, Dept. of Neurosurgery, Johns Hopkins Hospital, Baltimore, MD

- 10/6/01 speaker, Merritt Putnam Lectures on Epilepsy, Plaza Hotel, New York, NY
- 11/14-17/01 speaker, American Academy of Neurological Surgery, Palm Beach, FL  
12/1/01 speaker, 21<sup>st</sup> Annual Merritt Putnam Symposium, Philadelphia Marriott, Philadelphia, PA (American Epilepsy Society and Intramed Corp)
- 1/26-2/2/02 speaker, 35<sup>th</sup> Annual Winter Conf on Brain Research, Aspen, CO  
3/21/02 NIH/NINDS scientific review "Deep Brain Stimulation Special Emphasis Panel on Mechanisms"
- 4/6-10/02 AANS Annual Meeting, Chicago, IL  
4/30-5/5/02 Invited speaker, Temporal Lobe Epilepsy (MTLE-HS) Workshop, Istanbul, Turkey
- 5/11-14/02 Society of Neurological Surgeons annual meeting, Toronto, Canada  
7/11/02 Visiting Professor, Northern Westchester Hospital, NY  
11/7-8/02 Visiting Professor, UCSF Dept. Neurosurgery, San Francisco, CA  
11/16-17/02 speaker, Epilepsy Symposium, Houston Neurological Society, Houston, TX
- 12/6/02 Visiting Professor, NYU, New York, NY  
12/8-11/02 AES annual meeting, Seattle, WA
- 2/25-3/2/03 International Symposium on Epilepsy Surgery, Madrid, Spain  
3/19-20/03 Visiting Professor, SUNY Upstate Med Univ., Syracuse, NY  
4/9-10/03 Visiting Professor, University of Pittsburgh  
4/10/03 Moderator, NINDS Imaging Markers of Epileptogenesis: New Research Directions, Washington, DC
- 4/25/03 speaker, AANS Joint Symposium, San Diego, CA  
4/26-29/03 speaker, moderator, AANS Annual Meeting, San Diego, CA  
5/14-17/03 guest examiner, ABNS spring exams, Cincinnati, OH  
5/17-20/03 speaker, SNS annual meeting, Cincinnati, OH  
5/21/03 speaker, ASSFN meeting, New York, NY  
6/5-8/03 Practical Anatomy Workshop, St. Louis, MO  
9/19-20/03 speaker, New Frontiers in Epilepsy symposium, Omaha, Nebraska  
9/24/03 speaker, CT State Neurosurgery Society Annual mtg., New Haven, CT  
10/20-22/03 speaker, CNS annual meeting, Denver, CO  
11/15/03 speaker, ARNMD annual meeting, New York, NY  
12/6-9/03 speaker, AES annual meeting, Boston, MA
- 4/27/04 Panelist, AAMC Council of Deans, Key Biscayne, FL  
5/24-25/04 speaker, SNS annual meeting, New Orleans, LA  
6/3-5/04 Practical Anatomy Workshop, St. Louis, MO  
6/16-18/04 Visiting Professor, UCSD San Diego, CA  
11/17/04 Invited speaker, 1<sup>st</sup> annual Franklin Robinson Memorial Lecture, Yale University School of Medicine, New Haven, CT  
12/3-7/04 speaker, AES annual meeting, New Orleans, LA

- 1/12/05 Invited Speaker, Leadership in Biomedicine lecture series, Yale University School of Medicine, New Haven, C
- 3/2/05 Commentary on lecture by Michael Bliss, PhD @ Axion Research Foundation, Hamden, CT
- 3/5/05 speaker, Advances in Medical and Surgical Treatment of Refractory Epilepsy Course, Indiana University Sch Med, Indianapolis, IN
- 3/15-16/05 VP, Mayo Clinic, Rochester, MN
- 4/4/05 VP, NY Weill-Cornell Med Center, New York, NY
- 4/17/05 speaker, AANS annual meeting, New Orleans, LA
- 4/27-29/05 speaker, Translational Neuroscience Conf on Brain Interactive Devices, University of Kentucky, Lexington KY
- 5/10-11/05 participant, Ethical Issues Symposium, Library of Congress, Washington, DC
- 5/20-24 speaker, SNS annual meeting, Palo Alto, CA
- 5/25-28/05 Guest examiner, ABNS exams, Houston, TX
- 6/2-5/05 Faculty, Operative Techniques Course, Practical Anatomy Workshop, St. Louis University, St. Louis, MO

BIBLIOGRAPHYORIGINAL ARTICLES:

Lehman RAW and Spencer DD: Hand preference and hemispheric learning in the monkey. *Exp Neurol* 36: 88-100, 1972.

Lehman RAW and Spencer DD: Mirror-image shape discrimination: Interocular reversal of responses in the optic chiasm sectioned monkey. *Brain Res* 52: 233-241, 1973.

Sasaki CT, Allen WE, Spencer DD: Cerebral cortical veins in otologic surgery. *Arch Otolaryngol* 103: 730-734, 1977.

Geehr RB, Allen WE, Rothman SLG, Spencer DD: Pluridirectional tomography in the evaluation of pituitary tumors. *Am J Roentgenol* 130:105-109, 1978.

Venes JL, Shaywitz BA, Spencer DD: Management of severe cerebral edema in the metabolic encephalopathy of Reye-Johnson syndrome. *J Neurosurg* 48: 903-915, 1978.

Sasaki CT, Milmoie G, Spencer DD, Ariyan S: Cancer of the ear and temporal bone. *Conn Med* 43:547-552, 1979.

Spencer SS, Williamson PD, Spencer DD, Mattson RH: Value of depth electroencephalography in 21 patients with refractory epilepsy. *Trans Amer Neurol Assoc* 104: 241-243, 1979.

Soloway SS, Williamson PD, Spencer DD, Mattson RH: Surgery for epilepsy: Role of depth electroencephalography. *Conn Med* 44:70-75, 1980.

Wood CC, Allison T, Goff WF, Williamson PD, Spencer DD: On the neural origin of P300 in man. *Prog Brain Res* 54: 51-56, 1980.

Ariyan S, Sasaki CT, Spencer DD: Radical enblock resection of the temporal bone. *Amer J. Surg* 142: 443-447, 1981.

Spencer SS, Spencer DD, Williamson PD, Mattson RH: Ictal effects of anticonvulsant medication withdrawal in epileptic patients. *Epilepsia* 22: 297-307, 1981.

Elefteriades JA, Spencer DD, Gusberg RJ: Vertebral artery stenosis with brain stem ischemia: anatomic and therapeutic implications. *Conn Med* 46(11): 628-632, 1982.

Spencer SS, Spencer DD, Williamson PD, Mattson RH: The localizing value of depth electroencephalography in 32 patients with refractory epilepsy. *Ann Neurol* 12: 248-253, 1982.

Spencer SS, Spencer DD, Williamson PD, Mattson RH: Sexual automatisms in complex partial seizures. *Neurology* 33: 527-533, 1983.

Bhimani S, Virapongse C, Spencer D, Kim J: CT appearance of cerebellar glioblastoma multiforme. *J Comp Assist Tomography* 7(5): 889-891, 1983.

Augustine EA, Novelly RA, Mattson RH, Glaser GH, Williamson PD, Spencer DD, Spencer SS: Occupational adjustment following neurosurgical treatment of epilepsy. *Ann Neurol* 15: 68-72, 1984.

Spencer DD, Spencer SS, Williamson PD, Mattson RH: Intracerebral masses in patients with intractable partial epilepsy. *Neurology* 34: 432-436, 1984.

Novelly RA, Augustine EA, Mattson RH, Glaser GH, Williamson PD, Spencer DD, Spencer SS: Selective memory improvement and impairment in temporal lobectomy for epilepsy. *Ann Neurol* 15: 64-67, 1984.

Spencer SS, Spencer DD, Glaser GH, Williamson PD, Mattson RH: More intense focal seizure types after callosal section; the role of inhibition. *Ann Neurol* 16: 686-693, 1984.

Spencer DD, Spencer SS, Mattson RH, Williamson PD, Novelly R: Access to the posterior medial temporal lobe structures in the surgical treatment of temporal lobe epilepsy. *Neurosurgery* 15: 667-671, 1984.

Sostman HD, Spencer DD, Gore JC, Spencer SS, Holcomb W, Williamson PD, Prichard J, Camputaro C, Greenspan RH, Mattson RH: Preliminary observations on magnetic resonance imaging in refractory epilepsy. *Magn Reson Imaging* 2:301-306, 1984.

Sasaki CT, Ariyan S, Spencer D, Buckwalter J: Pectoralis major myocutaneous reconstruction of the anterior skull base. *Laryngoscope* 95: 162-166, 1985.

Williamson PD, Spencer DD, Spencer SS, Novelly R, Mattson RH: Episodic aphemia and epileptic focus in nondominant hemisphere relieved by section of corpus callosum. *Neurology* 35: 1069-1071, 1985.

Spencer SS, Williamson PD, Bridgers SL, Mattson RH, Cicchetti DV, Spencer DD: Reliability and accuracy of localization by scalp ictal EEG. *Neurology* 35: 1567-1575, 1985.

Spencer SS, Spencer DD, Williamson PD, Mattson RH: Effects of corpus callosum section on secondary bilateral synchronous interictal EEG discharges. *Neurology* 35: 1689-1694, 1985.

Goodman RN, Williamson PD, Reeves AG, Spencer SS, Spencer DD, Mattson RH, Roberts DW: Interhemispheric commissurotomy for congenital hemiplegics with intractable epilepsy. *Neurology* 35: 1351-1354, 1985.

Williamson PD, Mattson RH, Spencer SS, Spencer DD: Complex partial status epilepticus: A depth electrode study. *Ann Neurol* 18: 647-654, 1985.

Williamson PD, Mattson RH, Spencer SS, Novelly RA, Spencer DD: Complex partial seizures of frontal lobe origin. *Ann Neurol* 18: 497-504, 1985.

Bridgers SL, Spencer SS, Spencer DD, Sasaki CT. A cerebral effect of carotid sinus stimulation. Observation during intraoperative electroencephalographic monitoring. *Arch Neurol.* 42: 574-577, 1985.

Fernandez LA, Spencer DD, Kaczmar T: Angiotensin II decreases mortality rate in gerbils with unilateral carotid ligation. *Stroke* 17(1): 82-85, 1986.

Tucker DM, Novelly RA, Isaac W, Spencer D: Effect of simultaneous vs sequential stimulus presentation on memory performance following temporal lobe resection in humans. *Neuropsychologia* 24(2): 277-281, 1986.

Yu RK, Holley JA, Macala LJ, Spencer DD: Ganglioside alteration in the hippocampus of epileptic patients. *Trans Am Soc Neurochem* 17: 248-249, 1986.

Spencer SS, Williamson PD, Spencer DD, Mattson RH: Human hippocampal seizure spread studied by depth and subdural recording: The hippocampal commissure. *Epilepsia* 28(5): 479-489, 1987.

Yu RK, Holley JAJ, Macala LJ, Spencer DD: Ganglioside changes associated with temporal lobe epilepsy in the human hippocampus. *Yale J Biol & Med* 60: 107-117, 1987.

Carlson RD, Sasaki CT, Friedman SI, Spencer D. Glomus tympanicum tumor with middle cranial fossa extension. Case Report. *Otolaryngol. - Head and Neck Surgery* 96(2): 186-189, 1987.

Bloomgarden G, Byrne T, Spencer DD, Heafner M: Meningioma associated with aneurysm and subarachnoid hemorrhage: case report and review of the literature. *Neurosurgery* 20: 24-26, 1987.

Spencer SS, Spencer D, Williamson P, Sass K, Novelly RA, Mattson R. Corpus callosotomy for epilepsy I: Seizure effects. *Neurol* 38: 19-24, 1988.

Sass KJ, Spencer D, Spencer SS, Novelly R, Williamson P, Mattson R: Corpus callosotomy for epilepsy II: Neurological and neuropsychological outcome. *Neurol* 38: 24-28, 1988.

Wood CC, Spencer DD, Allison T, McCarthy G, Williamson PD, Goff WR. Localization of human sensorimotor cortex during surgery by cortical surface recording of somatosensory evoked potentials. *J Neurosurg.* 68: 99-111, 1988.

Sass KJ, Spencer SS, Novelly RA, Spencer D. Mnestic and attention impairments following corpus callosum section for epilepsy. *J Epil.* 1: 61-66, 1988.

Spencer SS, Schwarz SS, Spencer DD: The treatment of epilepsy with surgery. *Merritt Putnam Quarterly*, 5(4):3-17, Aug., 1988.

Allison T, McCarthy G, Wood CC, Darcey TM, Spencer DD, Williamson PD. Human cortical potentials evoked by stimulation of the median nerve. I. Cytoarchitectonic areas generating short-latency activity. *J Neurophysiol.* 62: 694-710, 1989.

- Allison T, McCarthy G, Wood CC, Williamson PD, Spencer DD. Human cortical potentials evoked by stimulation of the medial nerve. II. Cytoarchitectonic areas generating long-latency activity. *J Neurophysiol.* 62: 711-722, 1989.
- Spencer DD, Spencer SS: Corpus callosotomy in the treatment of medically intractable secondarily generalized seizures of children. *Cleve Clin J of Med.* 56S, pt 1: S69-S78, 1989.
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- Gray RS, Abrahams JJ, Hufnagel TJ, Kim JH, Lesser RL, Spencer DD: Ghost-cell tumor of the optic chiasm. Primary CNS lymphoma. *J Clin Neuro Ophthalmol* 9: 98-104, 1989.
- Masukawa LM, Higashima M, Kim JH, Spencer DD. Epileptiform discharges evoked in hippocampal brain slices from epileptic patients. *Brain Res* 493: 168-174, 1989.
- McCarthy G, Wood CC, Williamson PD, Spencer DD. Task-dependent field potentials in human hippocampal formation. *J Neurosci.* 9: 4253-4268, 1989.
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- Spencer SS, Williamson PD, Spencer DD, Mattson RH. Combined depth and subdural electrode investigation in uncontrolled epilepsy. *Neurology* 40: 74-79, 1990.
- Kim JH, Guimaraes PO, Shen MY, Masukawa LM, Spencer DD. Hippocampal neuronal density in temporal lobe epilepsy with and without gliomas. *Acta Neuropathol.* 80:41-45, 1990
- Sass KJ, Spencer DD, Kim JH, Westerveld M, Novelly RA, Lencz T. Verbal memory impairment correlates with hippocampal pyramidal cell density. *Neurology* 40: 1694-1697, 1990.
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Sass KJ, Lencz T, Westerveld M, Novelly RA, Spencer DD, Kim JH. The neural substrate of memory impairment demonstrated by the intracarotid Amobarbital procedure. *Arch Neurol* 48: 48-52, 1991.

Smith RL, Baker H, Kolstad K, Spencer DD, Greer CA. Localization of tyrosine hydroxylase and olfactory marker protein immunoreactivities in the human and macaque olfactory bulb. *Brain Res* 548: 140-148, 1991.

Allison T, Wood CC, McCarthy G, Spencer DD. Cortical somatosensory evoked potentials: II. Effects of excision of somatosensory or motor cortex in humans and monkeys. *J. Neurophysiol* 66:64-82, 1991.

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ABSTRACTS NOT INCLUDED