

SIGNATURE: _____

DATE: _____

CURRICULUM VITAE

STEVEN D. HAM, D.O.

ADDRESS: Department of Neurosurgery
Second Floor
Children's Hospital of Michigan
3901 Beaubien
Detroit, Michigan 48201
(313) 833-4490

PERSONAL DATA: Date of Birth: January 9, 1950

EDUCATION:	D.O.	The University of Health Sciences Kansas City, Missouri 64124	1978
	M.A.	The University of Kansas Lawrence, Kansas 66044	1974
	B.A.	The University of Kansas Lawrence, Kansas 66044	1972

TRAINING:	Fellowship in Pediatric Neurosurgery Children's Hospital of Michigan Detroit, Michigan	1988-89
	Resident in Neurosurgery Wayne State University Detroit, Michigan	1983-88
	Resident in General Surgery Mt. Clemens General Hospital Mt. Clemens, Michigan	1982-83
	Director of Health Services Selfridge Air National Guard Base Mt. Clemens, Michigan	1980-82

General Medical Officer 1979-80
United States Army
Second Infantry Division
Republic of Korea

Commission, United States Army Corp 1979
(Captain)

Internship 1978-79
Mt. Clemens General Hospital
Mt. Clemens, Michigan

**FACULTY
APPOINTMENTS:**

Chief of Pediatric Neurosurgery 2002
Children's Hospital of Michigan

Schotanus Professor of Neurosurgery 2002
Wayne State University

**HOSPITAL
APPOINTMENTS:**

Detroit Receiving Hospital 1989-Present
Active Staff

Harper University Hospital 1989-Present
Active Staff

Children's Hospital of Michigan 1989-Present
Active Staff

Hutzel Hospital 1989-Present
Consulting

Rehabilitation Institute 1989-Present
Consulting

William Beaumont Hospital-Troy 1990-Present
Consulting

William Beaumont Hospital-Royal Oak Active Staff	1991-Present
St. John's Hospital-Detroit Active Staff	1992-Present
Sinai-Grace Hospital-Detroit Consulting	1997

**PROFESSIONAL
SOCIETIES:**

Member - American Medical Association
Member - American Osteopathic Association
Member - Michigan Association of Osteopathic Physicians and Surgeons
Member - 38th Parallel Medical Society of Korea
Member - American Association for the Advancement of Science
Member - American College of Osteopathic Surgeons
Member - Michigan Association of Neurological Surgeons
Member - International Society for Pediatric Neurosurgery
Member - Scientific Review Panel of The Hydrocephalus Research Foundation

LICENSURE:

License to Practice Osteopathic Medicine and Surgery - State of Michigan

CERTIFICATION:

American Osteopathic Board of Surgery, Section of Neurosurgery, 1995

HONORS/AWARDS:

The Meritorious Service Medal for exceptionally meritorious service in the Republic of Korea, 1980

The Robert C. Ervin Literary Achievement Award
Presented at the Annual Meeting of the American College of Osteopathic Surgeons - New York, 1988

The Robert C. Ervin Literary Achievement Award
Presented at the Annual Meeting of the American College of Osteopathic Surgeons - St. Louis, 1989

First place poster Kaolin Induced Hydrocephalus in the Hamster: A Potential Model for Hydrocephalus Induced Endocrinopathies, American Association of Neurological Surgeons - Nashville, 1989

Top Docs recognition for pediatric neurosurgery by surveyed medical professionals, 2000

COMMITTEES:

Detroit Receiving Hospital

- Trauma Advisory Committee, 1989 - 1992
- Trauma Quality Assurance Committee, 1989 - 1992
- Trauma Morbidity and Mortality Committee, 1989 - 1992
- ICU Committee, 1989 - 1992
- Ethics Committee, 1989 - 1992
- Traumatic Brain Injury Committee, 1989 – 1992
- Quality Assurance Committee, 1989-1992

Harper Hospital

- Quality Assurance Committee, 1989-1995
- Credentials Committee, 1993 – 1997

Children's Hospital of Michigan

- Trauma Committee, 1990 - Present
- Infection Control Committee, 1991 - 1992, 1996-1997
- Research Committee, 1991 - 1995
- Head Injury Team, Medical Director, 1992- 1998
- Investigational Review Board - 1992 – 1998
- Medical Operations Committee – 2001-Present

St. John Hospital

- Member Pediatric PICU Committee - 1995 - Present

NEW DEVICES & PATENTS:

1. Programmable Antisiphon Shunt, U.S. Patent Serial No: 09/086,891, S. Sood, A. I. Canady, S. D. Ham, 2000

PUBLICATIONS:

1. S. Sood, S. Kim, SD Ham, AI Canady, N. Greninger: Useful Components of the Shunt Tap Test for Evaluation of Shunt Malfunction. **Child's Nervous System** 9:157-162, 1993.
2. Mitchell JA, Ham SD: “Scanning Electron Microscopy of Central Nervous System Cerebrospinal Fluid-Contacting Surfaces: A Bibliography (1963-1995)”, **Microscopy Research and Technique** 41:158-171, 1998.
3. Sood S, Canady AI, Ham SD: Adjustable Anti-Siphon Shunt. **Child’s Nervous System**, 15:246-249, 1999.

4. Barami K, Sood S, Ham SD, Canady AI: Chemical Meningitis from Bile Reflux in Lumbar-Gallbladder Shunt. Accepted for publication in **Pediatr Neurosurg**, 15(5):246-249, 1999.
5. Azzi, GM, Canady AI, Ham SD, Mitchell, JA Kaolin-induced hydrocephalus in the hamster: temporal sequence of changes in intracranial pressure, ventriculomegaly and whole-brain specific gravity. **Acta Neuropathol**, 98:245-250, 1999.
6. Sood S, Canady AI, Ham SD: Evaluation of Shunt Malfunction Using Shunt Site Reservoir. **Pediatric Neurosurgery** (32)4: 179-185, 2000.
7. Sood S, Barami K, Canady AI, Ham SD: Postural Changes in Intracranial Pressure in Chronically Shunted Patients. **Pediatric Neurosurgery**, 33(2):64-69, 2000.
8. Sood S, Canady AI, Ham SD: Surgery for Choroid Plexus Papilloma in Children In: **Neurosurgical Operative Atlas**. Rengachary SS, M.D., AANS, 2000.
9. Sood S, Ham SD, Canady AI: Current Treatment of Hydrocephalus. **Neurosurgery Quarterly** 11(1):36-44, 2001.
10. Koo B, Ham SD, Sood S, Tarver, B: Human Vagus Nerve Electrophysiology. **Journal of Clinical Neurophysiology**, 18(5):429-433, 2002.

PUBLISHED ABSTRACTS:

1. Gerras, G.G., Ham, S.D., Canady, A.I. and Mitchell, J.A.: "The Effects of Kaolin-Induced Hydrocephalus on the Ependyma of the Lateral Ventricles of the Hamster." **Anat Rec**, 226:36A, 1990.
2. Johnson, R., Ham, S.D., Canady, A.I. and Mitchell, J.A.: "The Occurrence and Organization of Supraependymal Neuronal Elements on the Medial and Lateral Walls of the Lateral Ventricles of the Hamster." **Anat Rec**, 226:48A, 1990.
3. Ham, S.D., Canady, A.I., Johnson, R. and Mitchell, J.A.: "Hydrocephalus Results in Persistent Description of the Estrous Cycle in the Hamster, Mesocricetus Auratus. "Society for Neuroscience Abstracts, Vol. VI, 1990, Abstract #168.16.
4. Sood S, Ahmad H, Canady A.I., Ham S.D. Effect of Ventriculostomy on Pressure Volume Index of Brain With and Without Differential Pressure Valve. **Presented at Annual Meeting of Michigan Association of Neurological Surgeons**, June 1997.

PAPER PRESENTATIONS:

1. Ham, S. and Darmody, W.: Extraction of Bullet Fragments Wedged Between Atlas and Axis. Michigan Association of Neurological Surgeons, June, 1985.
2. Ham, S., Austin, D., Decker, D., Eichenlaub, M. and Kresge, C.: Continuous Intraventricular Morphine Infusion for Intractable Cancer Pain. American Association of Neurological Surgeons Annual Meeting, April 14, 1986, Denver, Colorado.
3. Ham, S.: Jacob-Creutzfeld Disease, presented to the Michigan Association of Operating Room Nurses, May 6, 1986.
4. Ham, S.: Current Neurosurgical Management of Pain. Conference on Pain Management, Harper Hospital, April 14, 1987.
5. Ham, S. and Canady, A.: Hydrocephalus Complicating Tuberculosis in Children. Pediatric Section of the American Association of Neurological Surgeons, December 9, 1987, Chicago, Illinois.
6. Ham, S.: Hydrocephalus Complicating Tubercular Meningitis in Children. American College of Osteopathic Surgeons, October 24, 1988, New York, New York.
7. Ham, S.: Shunt Malfunction. Children's Hospital of Michigan. July 12, 1989.
8. Ham, S.: Myelomeningocele Update: Where Are We Going in Genetic Research? Children's Hospital of Michigan, October 18, 1989.
9. Ham, S.: The Traumatically Head Injured Child Returns to School: Medical Management Following Head Injury in Children. Children's Hospital of Michigan, November 3, 1989.
10. Ham S.: Excessive Tap Water and the Brain: Current Treatment of Hydrocephalus in Children and Lessons from Laboratory Investigation. Cranbrook Institute of Science, Nov. 19, 1989.
11. Ham, S.: Frequent Errors in the Treatment of Head Injury Patients in the ICU. 19th Annual Critical Care Symposium, Detroit, April 19, 1990.
12. Ham, S.: Posttraumatic Hydrocephalus. Traumatic Brain Injury Rehabilitation in the 90's: Future Directions in Medical and Rehabilitation Management. Detroit, June 29, 1990.

13. Gerras, G.G., Ham, S.D., Canady, A.I. and Mitchell, J.A.: The Effects of Kaolin-Induced Hydrocephalus on the Ependyma and Supraependymal Neuronal Elements of the Lateral Ventricle of the Hamster. Michigan Association of Neurological Surgeons. June 16, 1990.
14. Johnson, R.R., Ham, S.D., Canady, A.I. and Mitchell, J.A.: Kaolin-Induced Hydrocephalus in the Hamster: A Model for Studying Hydrocephalus-Induced Endocrinopathies. Michigan Association of Neurological Surgeons.
15. Ham, S.: Hydrocephalus and Shunt Malfunction. Pediatric House Staff, Children's Hospital of Michigan, July 11, 1990.
16. Ham, S.: Shunt Malfunction. Grand Rounds, Department of Emergency Medicine, Children's Hospital of Michigan, September 12, 1990.
17. Ham, S.: Post Traumatic Hydrocephalus in Children. Pediatric Multidisciplinary Trauma Conference, Children's Hospital of Michigan, October 1, 1990.
18. Ham, S.: Surgical Approach to Pituitary Tumors and Management of the Pituitary in Pregnancy. Obstetrical Endocrinology, Hutzel Hospital, Detroit, February 13, 1991.
19. Ham, S.: Pathophysiology of Head and Spine Trauma. Second Year Medical Students, Wayne State School of Medicine, Detroit, February 15, 1991.
20. Ham, S.: Management of Spinal Cord Injury in Children. Department of Emergency Medicine. Children's Hospital of Michigan, February 20, 1991.
21. Ham, S.: Clinicopathological Conference-Septic Cerebral Venous Thrombosis. Children's Hospital of Michigan, February 22, 1991.
22. Ham, S.: Child Abuse and Neglect: Difficulties in Making a Diagnosis. Children's Hospital of Michigan Annual Social Work Conference, March 18, 1991.
23. Alcantara, A., Shah, A. K., Piotrowski, L., Roszler, M. H., Ham, S.D., Diaz, F. G. and Peterson, P. L.: Traumatic Brain Injury Due to Assault. American Academy of Neurology, Boston, Massachusetts, April 21-27, 1991.
24. Ham, S.: Spinal Cord Injury. Multidisciplinary Trauma Conference. Children's Hospital of Michigan, April 29, 1991.
25. Ham, S.: Head and Spinal Cord Injury in Children. Butterworth Regional Trauma Symposium, Grand Rapids, Michigan, May 7, 1991.

26. Ham, S.: Hydrocephalus. Neurology Grand Rounds, Wayne State University, June 7, 1991.
27. Ham, S.: Emergent Management of Head Trauma. Traumatic Brain Injury Conference, Detroit Receiving Hospital, June 18, 1991.
28. Ham, S.: Head Trauma. Advanced Trauma Life Support Provider Course, Detroit Receiving Hospital, June 24, 1991.
29. Ham, S.: Shunt Malfunction. Pediatric House staff Noon Conference, Children's Hospital of Michigan, July 8, 1991.
30. Ham, S.: Spinal Cord Injury in Children. Pediatric Surgery Conference, Children's Hospital of Michigan, July 17, 1991.
31. Errors in ICU Management of the Head Injured Patient. Traumatic Brain Injury Conference. Detroit Receiving Hospital, September 12, 1991.
32. Ham, S.: Neurologic Exam of the Pediatric Trauma Patient. Surgical Conference, Children's Hospital of Michigan, September 18, 1991.
33. Ham, S.: The Neurosurgeon and Occupational and Physical Therapists. Main Speaker of 1991 Fall Conference of Michigan Alliance of School Physical and Occupational Therapists, Lansing, Michigan, October 4, 1991.
34. Ham, S.: Acute Management of Traumatic Brain Injury and Early Indicators of Outcome. Care Management Issues in Traumatic Brain Injury: Coma to Community, Detroit, Michigan, October 10, 1991.
35. Ham, S.: Intracranial Pressure and Shunting. The Neurologically Atypical Child. Children's Hospital of Michigan, November 8, 1991.
36. Ham, S.: Management of the Head Injured Child. Traumatic Brain Injury and Spinal Cord Injury. Michigan State Medical Society, Dearborn, Michigan, November 12, 1991.
37. Ham, S.: The Responsibility of Neurosurgery. Eighth Grade Class, Kosciuszko School, Hamtramck, Michigan, January 24, 1992.
38. Azzi, G.M., Ham, S.D., Canady, A.I., Mitchell, J.A.: Changes in Whole Brain Specific Gravity and Ventricular Size in Kaolin Induced Hydrocephalus. Consensus Conference on Hydrocephalus, Assisi, Italy, April 27, 1992.

39. Ham, S.: Causes and Treatment of Neurogenic Shock. EMS Expo '92, Battle Creek, Michigan, May 15, 1992.
40. Ham, S.: Head Injury, Trauma Care Perspectives Conference of Detroit Receiving Hospital, Dearborn, Michigan, June 5, 1992.
41. Ham, S.: Head Trauma: Problems and Controversies, Neurotrauma: Concepts, Current Practice and Emerging Therapies - A National Conference Sponsored by Wayne State University, Dearborn, Michigan, June 11, 1992.
42. Ham, S.: Neurosurgical Exam of the Head Injured Patient. Multi Disciplinary Trauma Conference, Children's Hospital of Michigan, August 31, 1992.
43. Ham, S.: Management of the Complicated Shunt. American College of Osteopathic Surgery, 65th Annual Clinical Assembly, Chicago, Illinois, September 22, 1992.
44. Ham S.: Exam of the Spine Injured Child. Pediatric Surgical Conference, September 30, 1992.
45. Ham S.: Spinal Cord Injury - Beyond the Plateau: Long Term Consequences of Traumatic Brain Injury. Children's Hospital of Michigan, October 30, 1992.
46. Ham S.: Severe Head Trauma. Advanced Pediatric Life Support, Children's Hospital of Michigan, November 12, 1992.
47. Ham S.: Pediatric Head Injury in Sports. Children's Hospital of Michigan Conference, November 19, 1992.
48. Ham, S.: Intrathecal Morphine for Pain Control. Neurosurgery Presentation, December 10, 1992, Grosse Pointe Park, Michigan.
49. Ham, S.: Pediatric Head Injury. Traumatic Brain Injury Transition from Home/Hospital/Rehabilitation to School, State of Michigan, Department of Education Conference, Romulus, Michigan, February 4, 1993.
50. Ham S.: On Being a Neurosurgeon, Career Day, Ottawa Elementary School, March 9, 1993.
51. Ham, S.: Shunt Malfunction, Department of Pediatrics Conference, St. John's Hospital of Detroit, April 6, 1993.

52. Ham, S.: Head Injury, Physical Therapy Conference, Rehabilitation Institute of Michigan, April 23, 1993.
53. Ham, S.: Shunt Malfunction & Medos Valve, Emergency Department, Children's Hospital of Michigan, August 4, 1993.
54. Ham, S.: Hydrocephalus & Shunts, Department of Pediatrics, Children's Hospital of Michigan, August 10, 1993.
55. Ham, S.: Pediatric Head Injury, Department of Pediatrics, St. John's Hospital of Detroit, August 16, 1993.
56. Ham, S.: Pathophysiology of Pediatric Head Injury. Comprehensive Management of the Pediatric Patient, Detroit, September 29, 1993.
57. Ham, S.: Head Injuries/Seizures - When and When Not to Play, Sports Injuries in Children & Adolescents, Children's Hospital of Michigan, October 1, 1993.
58. Ham, S.: Gun Shot Wound to the Head. Trauma in Children. October 7, 1993.
59. Ham, S.: Hydrocephalus and Your Child. Hydrocephalus Support Group, Children's Hospital of Michigan, October 21, 1993.
60. Ham, S.: Management of Posterior Fossa Brain Tumor in Children, American College of Osteopathic Surgeons, San Francisco, October 30, 1993.
61. Ham, S.D.: The Child with Tethered Cord and Chiari Malformation, Myelo Support Group, September 16, 1994.
62. Ham, S.D.: Pediatric Head Trauma, Children's Hospital of Michigan Trauma Conference, December 8, 1994.
63. Ham, S.D.: Cerebrospinal Fluid and Coverings of the Brain, Lecture to first year medical students, Wayne State University, March 29, 1994.
64. Ham, S.D.: Head Injury, lecture to Wayne State University occupational therapy students, January 19, 1995.
65. Ham, S.D.: Head Trauma and Child Abuse, presentation to Child Protection Team, March 17, 1995.

66. Ham, S.D.: Spine Injury, lecture to Wayne State University occupational therapy students, March 23, 1995.
67. Ham, S.D.: Cerebrospinal Fluid and Coverings of the Brain, lecture to first year medical students, Wayne State University, March 28, 1995.
68. Ham, S.D.: A Brief World History of Neurosurgery, presented in the conference Neuroscience: The Dark Age to the New Age, Children's Hospital of Michigan, March 3, 1995.
69. Ham, S.D.: Head and Neck Injuries presented to Sports Medicine and the Young Athlete, Children's Hospital of Michigan, May 16, 1995.
70. Ham, S.D.: Current research in hydrocephalus presented to Hydrocephalus Support Group, May 11, 1995.
71. Ham S: Pediatric Head Injury. Multidisciplinary Trauma Lecture, December 14, 1995.
72. Ham S: Traumatic Brain Injury in Children. Wayne State Traumatic Brain Injury Conference, March 21, 1996.
73. Ham S.D.: Cerebrospinal Fluid and Coverings of the Brain, lecture to first year medical students, Wayne State University, March 26, 1996.
74. Ham S.: Inflicted Head Injuries. Child Abuse and Neglect. St. John Hospital Symposium, August 29, 1996.
75. Ham, S.: Traumatic Brain Injury. The Neurologically Atypical Child Symposium. Children's Hospital of Michigan, October 10, 1996.
76. Ham, S.D.: Cerebrospinal Fluid and Coverings of the Brain, lecture to first year medical students, Wayne State University, April 15, 1997.
77. Ham, S: Advance Management of Spasticity Symposium, Guest Speaker, St. Vincent Medical Center, Toledo, Ohio, May 20, 1997.
78. Ham, S: Shunt Malfunctions in Infants and Children, Kids in Crisis, St. John Hospital, Detroit, Michigan, May 22, 1997.
79. Ham, S.D.: Third Ventriculostomy, Children's Hospital of Michigan Pediatric Grand Rounds, July 11, 1997.

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80. Ham, S.D.: Surgical Management of Spasticity with Intrathecal Baclofen, Spasticity Management Conference, Detroit, Michigan, October 10, 1997.
81. Ham, S.D.: Neurosurgical Emergencies, Emergency Medicine Conference, October 15, 1997.
82. Ham, S.D.: Spasticity Management, Dinner Presentation to Neurology Journal Club, Southfield, Michigan, January 13, 1998.
83. Ham, S.D.: Head & Spine Injury lecture to Wayne State University occupational therapy students, March 21, 1998.
84. Ham, S.D.: Strategies in Spasticity Management, Developmental Disability conference, Lansing, Michigan, April 7, 1998.
85. Ham, S.D.: Spasticity Management for Pediatrics and Adults, Intrathecal Baclofen experience, April 21, 1998.
86. Ham, S.D.: Pediatric Neurosurgery, Board Review, University of Michigan, September 16, 1998.
87. Ham, S.D.: Emergent Surgical Decompression for Ischemic Stroke. American College of Osteopathic Surgeons. Chicago, September 26, 1998.
88. Ham, S.D.: Emergent Trephination in Head Injury. Is there a role in 1998. American College of Osteopathic Surgeons, Chicago, September 27, 1998.
89. Barami K, Sood S, Ham SD, Canady AI: Postural Changes in Intracranial Pressure in Chronically Shunted Patient. Paper presented at Annual Meeting of Congress of Neurological Surgeons, Washington State, Seattle, Washington, Oct 3-8, 1998.
90. Ham, S.D.: Prevention of Neural Athletic Injuries. The Fourth Detroit Neurosurgery Symposium, November 14, 1998.
91. Ham, S.D.: Spasticity Management with Intrathecal Baclofen. Spasticity Conference. Toledo, Ohio, November 5, 1998.
92. Ham, S.D.: Head and Spine Injury. Occupational Therapy Students, Wayne State University, February 26, 1999.
93. Ham, S.D.: Surgical Management of Severe Spasticity. Kansas City, Missouri, March 12, 1999.

94. Ham, S.D.: Surgical Complications of Intrathecal Baclofen Therapy. Kansas City, Missouri, March 13, 1999.
95. Ham, S.D.: Hydrocephalus Management and Complication. Early-On, Wayne County Interagency Coordination Council, April 15, 1999.
96. Ham, S.D.: Pediatric Neurosurgery, Board Review, University of Michigan, September 15, 1999.
97. Ham, S.D.: Shunt Malfunction, American College of Osteopathic Surgeons Annual Meeting, Seattle, Washington, October 4, 1999.
98. Ham, S.D.: Neurologic Trauma and Sports, St. Johns Hospital, Detroit, MI, October 27, 1999.
99. Ham, S.D.: Evaluating Pediatric Head Trauma, A Child Out of Sync 99, Toledo, OH, November 4, 1999.
100. Ham, S.D.: Surgical Management of Spasticity, Grand Rounds presentation, Children's Hospital of Michigan, Detroit, MI, November 12, 1999.
101. Ham, S.D.: Surgical Management of Spasticity presentation at 16th Annual Developmental Disabilities Conference, Lansing, MI, April 3, 2000.
102. Ham, S.D.: Pediatric Head Injury, Presentation to Nursing Staff, Children's Hospital of Michigan, Detroit, MI, April 4, 2000.
103. Ham, SD: Management of Shunts. Anesthesia Grand Rounds, Children's Hospital of Michigan, August 9, 2000.
104. Ham, SD: Pediatric Neurosurgery, Board Review, University of Michigan, September 20, 2000.
105. Lai Q, Ding Y.C., McAllister J.P., Koo B.K., Canady A.I., Ham S.D., Sood S: Memory Impairment of Motor Skill Learning in Hydrocephalus Society for Neuroscience. 2000.
106. Sood S, Canady A.I., Ham S.D.: Evaluation of Shunt Malfunction Using Shunt Site Reservoir, American Society of Pediatric Neurosurgeons, 23rd Annual Meeting, Jan 30-Feb 4, 2000.

107. Sood S, Barami K, Canady A.I., Ham S.D.: Venous Overdrainage in Slit Ventricle Syndrome. Presented at American Association of Neurological Surgeons, Annual Meeting, Toronto, April 22-26, 2001.
108. Ham S.D.: Pediatric neurosurgery, Pediatric Board Review, University of Michigan, September 12, 2001.
109. Sood S, Canady A.I., Ham S.D.: Pressure Volume Index in Chronic Shunted Patients. Presented at Annual Meeting, American Society of Pediatric Neurosurgery, Nevis January 27-Feb. 1, 2002.
110. Ham S.D.: Pediatric Neurosurgery, Pediatric Board Review. University of Michigan, September 10, 2002.
111. Sood S, Ham S.D.: Is Periventricular Gliosis Restrictive in Chronic Shunt Patients? Presented at meeting of American Society of Pediatric Neurosurgery, December 2002, Phoenix, Arizona.
112. Sood S, Ham S.D.: Endoscopic Management of Suprasellar Arachnoid Cysts. Presented at meeting of American Society of Pediatric Neurosurgery, February 1-7, 2003, Honolulu, Hawaii.

POSTER PRESENTATIONS:

1. Ham, S., Roszler, M., Chandrasekar, D. and Darmody, W.R.: Epidural Abscess in Intravenous Drug Abusers. American Association of Neurological Surgeons, April 1988, Toronto, Ontario, Canada.
2. Canady, A., Zakalik, K. and Ham, S.: Brain Tumors Presenting as Meningitis. International Symposium on Pediatric Neuro-Oncology, June 1989, Seattle, Washington.
3. Johnson, R., Ham, S.D., Canady, A.I. and Mitchell, J.A.: The Occurrence and Organization of Supraependymal Neuronal Elements on the Medial and Lateral Walls of the Lateral Ventricles of the Hamster. American Association of Anatomists, April 22-26, 1990, Philadelphia, Pennsylvania.
4. Gerras, G.G., Ham, S.D., Canady, A.I. and Mitchell, J.A. The Effects of Kaolin-Induced Hydrocephalus on the Ependyma of the Lateral Ventricles of the Hamster. American Association of Anatomists, April 22-26, 1990, Philadelphia, Pennsylvania.

5. Ham, S.D., Johnson, R., Canady, A. and Mitchell, J.A. Kaolin Induced Hydrocephalus in the Hamster: A Potential Model for Hydrocephalus Induced Endocrinopathies. American Association of Neurological Surgeons, April 28-May 3, 1990, Nashville, Tennessee.
6. Ham, S.D., Canady, A.I., Johnson, R. and Mitchell, J.A.: Hydrocephalus Results in Persistent Disruption of the Estrous Cycle in the Hamster, Mesocricetus Auratus. Society for Neuroscience Abstracts, Vol. VI, 1990, Abstract #168.16.
7. Ham, S., Azzi, G., Canady, A., Mitchell, J.A.: Changes in whole brain specific gravity and ventricular size in kaolin induced hydrocephalus. Congress of Neurological Surgery, October 31 through November 5, 1992, Washington, D.C.
8. Ham, S.D. and Mitchell, J.A.: Kaolin Induced Hydrocephalus in the Hamster: A Scanning Electron Microscope Study. Annual Clinical Assembly of the American College of Osteopathic Surgery, Los Angeles, California, October 28-31, 1990.
9. Shah, A.K., Guyot, A.M., Ham, S.D., Diaz, F.G. and Peterson, P.L.: CT or Not to CT - ER Evaluation of Head Trauma. American Academy of Neurology. Boston, Massachusetts, April 21-27, 1991.
10. Azzi, G.M., Ham, S.D., Canady, A.I., Mitchell, Ph.D.: Hydrocephalus-induced Alterations in Median Eminence Structure and Erythrocyte Density in the Endocrine Hypothalamus and Pituitary Gland of the Hamster. American Association of Neurological Surgeons, San Diego, California, April 9-14, 1994.
11. Sood, S., Canady, A.I., Ham, S.D.: Risk of Infection after Shunt Tap. American Association of Neurological Surgeons, San Diego, California, April 9-14, 1994.
12. Azzi, G., Ham SD, Canady AI, Mitchell JA: "Hydrocephalus-Induced Changes in the Periventricular Endocrine Hypothalamus of the Hamster". American Association of Neurological Surgeons, Minneapolis, Minnesota, April, 1996.
13. Ahmed H, Sood S, Canady A, Ham SD: "The Effect on Brain Compliance of Ventriculostomy With and Without Differential Pressure Valve", 1998 AANS Annual Meeting, Philadelphia, Pennsylvania, April 25-30, 1998.
14. Sood, S, Canady AI, Ham SD. Shunt Site Reservoir in Evaluation of Shunt Malfunction. Presented at Pediatric Section Meeting of AANS, Indianapolis, Dec 1-4, 1998.
15. Ham, S.D., Schermerhorn Thomas, Vandenbelt Scott, Riutta Justin, Canady, Alexa, Mitchell, Jerald. Imminodipropionitrile Induces Hydrocephalus in the Hamster.

Presented American Association of Neurological Surgeons Annual Meeting, April 28, 1999.

16. Lai, Q, Ding Y-C, McAllister J.P., Koo, B.K.K., Canady, A.I., Ham, S.D., Sood, S.S. Memory Impairment of Motor Skill Learning in Hydrocephalus. Society for Neuroscience 1999 Annual Meeting, Miami Beach, Florida, October 23-28, 1999.
17. Sood S, Barami K, Canady AI, Ham SD: Venous Overdrainage in Slit Ventricle Syndrome. Presented at American Association of Neurological Surgeons Annual Meeting, Toronto, April 22-26, 2001.

BOOK CHAPTERS:

1. Spitzer, R., Ham, S.D. and Peterson, P. Clinical Neurophysiology in the Intensive Care Unit in Principles and Practice of Medical Intensive Care. Ed. Carlson, R. W. and Geheb, M. A. 1993.
2. Canady, A.I., Sood, S., Ham, S.D. "Surgical Management of Hydrocephalus in Children" ed. Schmidek/Sweet in: Operative Neurosurgical Techniques, 3rd. edition, Vol. 2, pp. 1231-1244, (W.B. Saunders Company 1995).
3. Sood S, Canady AI, Rozzelle A, Ham SD. Unicoronal and Bicoronal Craniosynostosis in: Brenzel, E, Rengachary, SS (eds), Calvarial and Dural Reconstruction. Neurosurgical Topics pp 149-167, 1998.
4. Dutcher S, Sood S, Ham S, Canady AI: Skull Fractures and Penetrating Brain Injury", Pediatric Neurosurgery: Surgery of the Developing Nervous System, Fourth Edition, pp. 573-583, (W.B. Saunders Company, 2001)
5. Barami K, Ham S, Sood S, Shankaran S, Canady AI: Pediatric Intracranial Hemorrhage, "Textbook of Neurological Surgery" (Lippincott-Raven, Philadelphia, 1999)

GRANTS:

1. Principal Investigator for "Hydrocephalus Induced Endocrinopathies: Morphologic Correlates." Supported by a Children's Hospital of Michigan Intramural Funding Award for \$24,696.00.
2. Principal Investigator for "Hydrocephalus Induced Endocrinopathies: Morphologic Correlates. Supported by a Children's Hospital of Michigan Intramural Funding Award for \$24,765.00, (1991).

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COURSES DIRECTED:

1. Spasticity Management for Pediatrics & Adults, Dearborn, Michigan, April 27, 1998
04/03