

CURRICULUM VITAE

NAME: Stephen A. Fletcher, D.O., FACOS

PRESENT TITLE: Associate Professor of Surgery-Clinical
Department of Pediatric Surgery
Division of Pediatric Neurosurgery
McGovern Medical School
The University of Texas Health Science Center at Houston

BUSINESS ADDRESS: The University of Texas Health Science Center at Houston
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CITIZENSHIP: United States of America

UNDERGRADUATE EDUCATION:

1970-1971 Tarleton State College

1971-1974 Texas A&M University
Bachelor of Science in Biochemistry

1974-1975 Texas A&M University
Masters Program in Biochemistry

GRADUATE EDUCATION:

1975-1979 University of North Texas Health Science Center
Texas College of Osteopathic Medicine
Doctor of Osteopathic Medicine - D.O.

POSTDOCTORAL TRAINING:

Internships and Residencies

1979-1980 Surgical Internship, Grandview Hospital
Dayton, Ohio

1980-1984 Resident in Neurosurgery
Oklahoma Osteopathic Hospital,
Tulsa, Oklahoma

Resident in Neurosurgery
The University of Texas Medical School/Hermann Hospital

Houston, Texas

1984-1985 Resident in Neurosurgery, Hermann Hospital
University of Texas Medical School
Houston, Texas

Fellowships/Other

1994-1995 Fellowship in Pediatric Neurosurgery
Dallas Children's Hospital
The University of Texas Southwestern Medical School
Dallas, Texas

ACADEMIC APPOINTMENTS:

Current

2012- Associate Professor of Pediatric Surgery and Neurosurgery
McGovern Medical School at UTHealth

Past

1985-2003 Clinical Assistant Professor of Neurosurgery
The University of Texas Health Science Center at Houston

1987-2003 Clinical Assistant Professor, Pediatrics
The University of Texas Health Science Center at Houston

1987-1996 Clinical Assistant Professor of Orthopedics
The University of Texas Health Science Center at Houston

1990-2012 Consultant in Neurosurgery
Texas Cleft Palate and Craniofacial Deformity Team
The University of Texas Health Science Center at Houston

1993-1994 Clinical Preceptor,
Oklahoma State University College of Osteopathic Medicine

2003-2012 Associate Professor of Pediatric Neurosurgery
Chief of Division, Pediatric Neurosurgery, Department of Surgery
The University of Texas Health Science Center at Houston

2006-2010 Clinical Associate Professor
Division of Neurosurgery, Department of Surgery,
The University of Texas Medical Branch at Galveston

HOSPITAL APPOINTMENTS:

Current

1985- Memorial Hermann/Children's Memorial Hospital

1985- Shriner's Hospital for Crippled Children

2012- The Woman's Hospital of Texas

Past

1988-1991 UT MD Anderson Hospital, (Courtesy), Houston

1992-2005 Kingwood Medical Center Hospital, Houston

1992-2000 Methodist Hospital, Houston

1994-1995 Parkland Hospital, Dallas

1994-1995 Dallas Children's Hospital, Dallas

1994-1995 Medical City Dallas, Dallas

1995-1999 Texas Children's Hospital, Houston

1996-2004 St. Luke's Episcopal Hospital, Houston

1997-2003 Spring Branch Medical Center Hospital, Houston

2003-2012 Director of Pediatric Neurosurgery
Children's Memorial Hermann Hospital

2005-2007 North Cypress Medical Center Hospital (Courtesy), Houston

2005-2011 St. Joseph Hospital Medical Center
Christus St. Joseph Hospital, Houston

LICENSURE:

Active Texas - F3956 expires 08/31/2020

Inactive Ohio 1979-1980
Oklahoma 1980 -1990

CERTIFICATIONS:

Board Certification

Neurosurgery, American Osteopathic Board of Surgery,
March 1990, Certificate Number 1227

Additional Certifications

1988 Laser Neurosurgery, University of Cincinnati
1990 Stereotactic Neurosurgery, Duke University
2005 U.S. National Institutes of Health, National Cancer Institute,
Human Participant Protections Education for Research Teams

ADDITIONAL TRAINING:

- January 2006 “Who To Turn To”, Research Assurance & Risk Management at UTHSC Houston, Peter J. A. Davies, MD, PhD, Executive Vice President for Research
- April 2006 “Mandatory Web-Based Standards of Conduct and HIPAA Training Series”, University of Texas HSC-Houston, Office of Legal Affairs and Institutional Compliance
- July 2009 RADIONICS OmniSight NeuroSight Cranial Training and Certification, North Cypress Medical Center, Cypress, Texas
- July 2009 RADIONICS OmniSight VersaTool Training and Certification, North Cypress Medical Center, Cypress, Texas

PROFESSIONAL ORGANIZATIONS AND COMMITTEES:

Local

- 1985-2014 Harris County Medical Society 1985-2014
1985-2003 Harris County Osteopathic Medical Society, #166602
Vice President - 1985
Vice President - 1986
President Elect - 1987
President - 1988
- 1985-1994 Houston Neurological Society

Regional

- 1985-2000 Texas Association of Neurological Surgeons, #70
1985-2000 Texas Medical Association
1985-2000 Texas Osteopathic Association

National

- 1980-1987 Rocky Mountain Neuro-Ophthalmology Society
1987- American Osteopathic Association, #037303
1987-2010 American Medical Association
1987-2009 American Cleft Palate-Craniofacial Association
1987- American College of Osteopathic Surgeons, #11387

HONORS AND AWARDS:

- 1980-1983 Mead-Johnson Resident Research Award
Oklahoma Osteopathic Hospital Section of Neurosurgery
Anticonvulsant Prophylaxis in Chronic Subdural Hematoma
- 1984 First Place. Poster Presentation, 51st Annual American College of Osteopathic Surgeons Convention, “Ultrasound in Neurosurgery”
New Orleans, Louisiana
- 1987 Award of Excellence in Medical Records, Hermann Hospital
2007 The American Osteopathic Association Certificate of Excellence Award

Continuing Medical Education (150 hours)

2008 Dean's Teaching Excellence Award
University of Texas Medical School-Houston

2009 Dean's Teaching Excellence Award
University of Texas Medical School-Houston

2010 Dean's Teaching Excellence Award
University of Texas Medical School-Houston

2015 Distinguished Physician Award
Memorial Hermann Hospital, Texas Medical Center

2018 Neurosurgery Residency Faculty Trainer of the Year
University of Texas Medical School-Houston

SERVICE ON McGOVERN MEDICAL SCHOOL AT UTHEALTH COMMITTEES:

1991-1997 Volunteer Faculty Committee, Department of Pediatrics
2006- Faculty Interviewer, Office of Admissions
2008-2018 Department of Pediatric Surgery Compliance Committee
2008-2016 Project DOCC (Delivery of Chronic Care) University of Texas Medical
School/Baylor College of Medicine. Advisory Board Member, September
2008-2019 Project DOCC (Delivery of Chronic Care) Houston, Advisory Board
Member

SERVICE ON McGOVERN MEDICAL SCHOOL AFFILIATED HOSPITAL COMMITTEES:

Memorial Hermann Hospital

11/1989-01/1990 Acting Chief of Neurosurgery
1898-1993 Chief - Division of Pediatric Neurosurgery
1990-1996 Quality Assurance Committee Department of Neurosurgery
2005-2010 Operating Room Committee
2006- Neurosciences Committee
2007-2012 International Medical Advisory Board

Children's Memorial Hermann Hospital

2005- Chairman - Fundraising Committee, Pediatric Neurosciences
2006-2009 Pediatric Medical Staff Quality Review Committee
2006- Pediatric Performance Improvement Committee (PIRC)
2006-2007 Development Council

MD Anderson Cancer Center

2005-2006 Pediatric Neuro-Oncology Tumor Board Committee
2006-2007 Search and Selection Committee, Pediatric Neuro-Oncology

SERVICE ON OTHER HOSPITAL COMMITTEES/ ORGANIZATIONS:

1999-2006 Kingwood Medical Center
Chairman, Department of Surgery

1999-2003 Spring Branch Medical Center Hospital
Speakers Bureau
2002-2003 Chairman - Ad-Hoc Committee on Emergency Department Evaluation

2002 Texas State Board of Medical Examiners
Subcommittee on Licensing of Certified Surgical Assistants

2006-2012 Texas Family Magazine
Advisory Board Member

2008-2018 Dr. Marnie Rose Foundation
Honorary Advisory Board Member

CURRENT TEACHING RESPONSIBILITIES:

2003- University of Texas Health Science Center at Houston
Pediatric Neurosurgery 4th year Elective
2003- Pediatric Neurosurgery, Clinical Preceptorship Program
2008- Department of Neurosurgery Residency Training Program
2008- Neurosurgery Residents on the UT/CMHH Pediatric Neurosurgery
Service

PAST TEACHING RESPONSIBILITIES:

2004 University of Texas Health Science Center at Houston
C. Frank Webber Prize for Student Research Competition
Annual Research Forum

2005 The Physical Diagnosis Course Clinical Preceptorship Program
2005 Certificate in Pediatric Neurosurgery Preceptorship
2006 The Physical Diagnosis Course Clinical Preceptorship Program

2006 Vanderbilt University School of Nursing
Preceptor Program for Nurse Practitioners

2008 Rice University
Doctors Offering Shadowing Opportunities (D.O.S.E.) Program

MENTORING ACTIVITIES:

Summer and 4 year Pediatric Neurosurgery Preceptor Program

UT Students with Neurosurgery Careers from UT Neurosurgery Program

2004-2008 Sean Miner, MD - First Dean's Certificate
2013-2019 Sebastian Villareal, MD
2014-2020 Keith Kerr, MD

2013-2019 Wayne State University
Clay Elswick, MD

2014-2020 University of Alabama
Christopher Shank, MD

2019- Loyola University
Brandon Zsigray, MD

UT Students from Pediatric Neurosurgery Preceptor Program

Texas Children's Hospital Scoliosis
John Heydemann, MD

Unknown Practices

Lindsay Sharp, MD
Nick Bryant, MD
Brian Hembree, MD
Casey Smith, MD
Allen Acomb, MD

GRANT SUPPORT:

Current

1. Early Feasibility Study of Fetoscopic Myelomeningocele Repair using a Cryopreserved Human Umbilical Cord Allograft (NEOX cord 1K) as a Meningeal Patch (IDE #190253). IRB# HSC-MS-1051. Ob-Gyn Department funds and Keith And Mattie Stevenson Foundation. \$50,000. PI: Ramesha Papanna, MD. Co-Investigator: Stephen Fletcher, DO
2. Evaluation of Cryopreserved Human Umbilical Cord Patch as a Meningeal Patch to Regenerate Arachnoid Layer to Prevent Tethering and to Improve Function in Rat Model for Spinal Cord Injury and Cryopreserved Human Umbilical Cord as a Meningeal Patch to Regenerate Arachnoid Layer to Prevent Tethering and to Improve Function after Spinal Cord Surgeries. IACUC # AWC-18-0169. Funded Ob-Gyn Department Funds and Keith and Mattie Stevenson Foundation through Pediatric Neurosurgery Neuroscience Fund. PI: Ramesha Papanna, MD. Co-Investigator: Stephen Fletcher, DO.
3. Christopher Reeve Foundation, Children's Memorial Hermann Hospital, Memorial Hermann Foundation, "Long-Term Follow-up for Chiari Associated Spine Surgery \$25,000 (2005-)
4. Passage Bio, Inc. A Phase 1b Open-Label, Multicenter, Dose Escalation Study to Assess the Safety, Tolerability, and Pharmacodynamic Effects of a Single Dose of PBFT02 Delivered into the Cisterna Magna (ICM) of Adult Subjects with Frontotemporal Dementia (FTD) and Mutations in the Progranulin Gene (GRN). Protocol PBFT02-001. PI: Gary Romano, MD, PhD. Research Associate Investigator: Stephen Fletcher, DO
5. Human umbilical cord as a regenerative meningeal patch to prevent tethering and improve neurological function following in-utero spina bifida repair. OB-Gyn Fetal Funding. IACUC # AWC-20-0149. PI: Ramesha Papanna, MD. Co-PI: Stephen Fletcher, DO.

Past

1. Medtronic Neurologic Technologies, “*Pediatric Clinical Study of the Durepair Dura Regeneration Matrix*”, \$15,000 – Project Period 2007-2012, Principal Investigator: Stephen Fletcher, D.O.
2. Cooperative Study between Hermann Pediatric Neurosurgery, University of Texas Division of Pediatric Neurosurgery, and M.D. Anderson Pediatric Neuro-Oncology in regards to Acquisition of Brain Tumor Specimens, Protocol #HSC-MS-06-0037, 02/16/2006-12/31/2007. Principal Investigator: Stephen Fletcher, D.O. (Funding Agency: Memorial Herman Pediatric Neuroscience Fund)
3. Prospective, Non-Randomized Pediatric Clinical Study Using the Durepair Regeneration Matrix (Durepair) Device for the Repair of Dura Mater Defects Protocol Number 0105 (dated 4/11/06), Protocol #HSC-MS-07-0004, 08/24/07-12/31/2007. Principal Investigator: Stephen Fletcher, D.O. (Funding Agency: Medtronic Neurologic Technologies)
4. Texas Comparative Neuro-Oncology Program: Comparison of Spontaneous Canine and Human Brain Tumors. PI: John Levine, DVM. Co PI: Stephen Fletcher, D.O. Funded by Keith and Mattie Stevenson Foundation. \$50,000.00.
5. Corpus Callosotomy: A Retrospective Study of Clinical Outcomes for Patients with Intractable Epileptic Seizures. IRB # HSC-MS-05-0286. PI: Lindsay Sharp, MS. Co PI: Stephen Fletcher, DO. Funded by Memorial Hermann Pediatric Neuroscience Fund. \$5000.00
6. Treatment of severely head-injured pediatric patients with hypertonic saline to reduce intracranial pressure. IRB# HSC-MS-05-0294. PI: Sean Miner, MS. Co PI: James Baumgartner, MD; Stephen Fletcher, DO. Funded by Memorial Herman Pediatric Neuroscience Fund. \$5000.00
7. Nutrition in Pediatric Brain Tumors. IRB# HSC-MS-17-0677. PI: Stephen Fletcher, DO. Co PI: Sarah Smith, PA. Funded by Keith and Mattie Stevenson Foundation. \$2000.00
8. Minimally Invasive Fetal Spina Bifida Repair Using an Underwater Sealant. IACUC# AWC-12-007. PI: Ken Moise, MD. Animal Researcher: Stephen Fletcher, DO. Ob-Gyn-Fetal Medicine Department funds.
9. Minimally Invasive Fetal Spina Bifida Repair in an Ovine Model. IACUC# AWC-14-0177. PI: Ramesha Papanna, MD. Co PI: Stephen Fletcher, DO. OB-Gyn-Fetal Medicine Department Funds and Pediatric Neuroscience Research Funds. \$15,000.00

PATENTS:

1. Patent Granted. Stephen Fletcher
U.S. Patent #6,050,998, Bone fastener, April 18, 2000
2. Patent Granted. Papanna, Mann, Fletcher, University of Texas.
University Ref. No. 2018-0033;
U. S. Patent Application on said Invention, Application No. 16/510,818,
Filed July 12, 2019, Attorney’s File No. 292010-1020
“Meningeal Repair Using Human Umbilical Cord Patches”

PUBLICATIONS:

Abstracts

1. Fletcher SA, Baumgartner JE, Meiner ST, Tanaka L, Colasurdo G, Cua B, Strobel N, Sharp L. Use of Controlled Hyperosmolality with Hypertonic Saline Solutions in Traumatic Brain Injury: Case Study of 16 Pediatric Patients. American Association of Neurological Surgeons/Section on Pediatric Neurological Surgery Annual Meeting, Orlando, Florida, 2005 (Oral presentation). [Abstract ID: 29907]
2. Baumgartner JE, Baker J, Fletcher SA. Seizure Control Following Temporal Lobectomy in Children: experience at Memorial Hermann Children's Hospital, Houston, Texas. American Association of Neurological Surgeons/Section on Pediatric Neurological Surgery Annual Meeting, Orlando, Florida, 2005 (Oral presentation). [Abstract ID: 29857]
3. Sharp LL, Baumgartner JE, Fletcher SA, Clarke D, Meiner ST. Corpus Callosotomy: A Six Year Experience of Clinical Outcomes for Patients with Intractable Epileptic Seizures. American Association of Neurological Surgeons/Section on Pediatric Neurological Surgery Annual Meeting, Orlando, Florida, 2005 (Oral presentation). [Abstract ID: 29829]
4. Fletcher S, Meiner ST, Rinewalt D, and Tucker J. Renal Failure Analysis in Head Injury Patients Undergoing Hypertonic Saline Therapy. UTHSC-Houston 2006 C. Frank Webber Prize for Student Research Competition, Annual Research Forum, October 2006 (Poster presentation).
5. Fletcher, SA, Wolff J, Levine J, Gildenberg P, Cooper L, and Slopis J. Curing Brain Tumors in Dogs and Children: The Texas Comparative Neuro-Oncology Program. 14th International Symposium on Pediatric Neuro-Oncology, Vienna, Austria, June 20-23, 2010. [Abstract ID: P-DRUG.10]
6. Wolff JE, Brown R, Rytting M, Vats T, Bingham R, Epps R, Fletcher S, Pfister S, Ketonen L, Slopis, Nagel M, and Thall P. Targeted Personalized Therapy for Pediatric Patients with Refractory Brain Tumors. 14th International Symposium on Pediatric Neuro-Oncology, Vienna, Austria, June 20-23, 2010. [Abstract ID: P-DRUG.11]
7. Fletcher, S, Levine J, Wolff JE. Canine Brain Tumors: Radiographic and Histologic Characteristics of Canine Brain Tumors in Comparison to Human Tumors. 15th International Symposium on Pediatric Neuro-Oncology. Toronto, Canada, 2011 [Abstract ID: P-Drug.25]
8. Papanna R, Mann L, Fletcher S, Prabhu SP, Tsao K, Argoti PS, Snowise S, Ryan SW, Bhattacharjee M, Tseng SC, Moise Jr. KJ. Cryopreserved Human Umbilical Cord (HUC) as a Regenerative Patch Material for In-utero Repair of Myelomeningocele (MMC) to Preserve Neuronal Anatomy. Society for Maternal Fetal Medicine Annual Meeting 2015 (submitted).
9. Papanna R, Moise Jr KJ, Mann LK, Fletcher S, Snowise S, Tsao K, Argoti P, Johnson A, Schniederjan R, Bhattacharjee MB, Stewart R, Prabhu S, Tseng SCG. Human umbilical cord as a regenerative patch material for in-utero repair of spina bifida. Oral presentation. 19th International Conference on Prenatal Diagnosis and Therapy,

Washington DC July 2015.

10. Arrey EN, Kerr ML, Fletcher S, Cox CS, Sandberg DI. "Linear Non-Displaced Skull Fractures in Children: Is Hospitalization Necessary?" AANS/CNS Section on Pediatric Neurological Surgery. Amelia Island, FL 2014 (oral presentation).
11. Papanna R, Mann LM, Fletcher S, Tsao K, Argoti P, Johnson A, Snowise S, Schniederjan R, Bhattacharjee M, Stewart RJ, Tseung SCG, Prabhu SB, Moise KJ. Umbilical cord patch material for SB repair. 34th Annual Meeting of the International Fetal Medicine and Surgery Society; Hersonissos, Crete (young investigator award).2015 (oral presentation)
12. Patel, R, Sitton C, Kerr M, Fletcher S, Shah M, Sandberg DI. "Role of Cerebrospinal Fluid (CSF) Imaging in Evaluating Distribution of Infused Agents From the Fourth Ventricle to the Total Spine." American Society of Neuroradiology, Washington DC, 2016 (electronic poster presentation).
13. Sandberg DI, Patel RP, Kerr M, Sitton CW, Ketonen LM, Ping Hou P, Johnson JM, Shah MN, Fletcher S, Zaky W, Rytting ME, Khatua S. "Phase- Contrast Cine Cerebrospinal Fluid (CSF) Flow Magnetic Resonance Imaging (MRI) in Evaluating Distribution of Infused Agents from the Fourth Ventricle to the Total Spine." AANS/CNS Section on Pediatric Neurological Surgery. Orlando, FL 2016 (oral presentation).
14. Martinez CL, Fletcher S, Shah MN, Kerr M, Sandberg DI. "Survey of Techniques Used to Access Ventricular Shunts and Reservoirs."AANS /CNS Section on Pediatric Neurological Surgery. Orlando, FL 2016 (poster presentation).
15. Venkataraman SS*, Herbert JP*, Turkmani AH, Kerr ML, Greives MR, Fletcher SA, Sandberg DI, Cox CS, Kitagawa RS, Day AL, Shah MN. "Pediatric Blunt Cerebrovascular Injury: the McGovern Experience." AANS/CNS Section on Pediatric Neurological Surgery. Orlando, FL 2016 (poster presentation).
16. Zsigray B, Fletcher S. "Management of Traumatic Vasospasm in Pediatric Head Injury". Lende Neurosurgery Conference, Salt Lake City, Utah, 2016. (oral presentation).
17. Moody CC, Mann LK, Lyu MA, Moise Jr. KJ, Johnson A, Bebbington MW, Tsao K, Fletcher S, Papanna R. "Fetal membrane changes in preterm birth after in-utero myelomeningocele (MMC) repair". International Fetal Medicine and Surgery Society Annual Meeting 2016, Kasane, Botswana.
18. Bonfante E, Hughes K, Patel R, Sitton C, Johnston J, Fletcher S, Moise K, Johnson A, Riascos R. "Brain MRI of Chiari II Malformation in the Era of Fetal Surgery. Evolving from Fetal to Neonatal. American Society of Neuroradiology, Washington, DC. May 2016. (oral presentation).
19. Brewer JW, Cox CS, Fletcher SA, Shah MN, Sandberg M, Kerr ML, Sandberg DI. "Analysis of Pediatric Gunshot Wounds in Houston Texas: A Social Perspective." AANS/CNS Section on Pediatric Neurological Surgery. Houston, TX, 2017 (oral presentation).
20. Fletcher S. "Maximizing the Outcome for Fetal Surgery for Spina Bifida". AANS/CNS Section on Pediatric Neurological Surgery. Houston, TX, 2017 (oral presentation)

21. Zsigray B, Fletcher S. "Strategies to Improve the Outcome in Fetal Surgery for Open Neural Tube Defects". Lende Neurosurgery Conference, Salt Lake City, Utah. 2017. (Oral presentation).
22. Trimble, DJ, Parker SL, Zhu L, Cox CS, Kitagawa RS, Fletcher SA, Sandberg DI, Shah MN. "Outcomes in Pediatric Patients with Blunt Head Trauma and a Glasgow Coma Scale Score of 3 at Presentation." AANS/CNS Section on Pediatric Neurosurgery. Nashville, TN, 2018 (oral presentation).
23. Onanian M, Fletcher S. "Nutrition in Pediatric Neurosurgical Patients". Lende Neurosurgery Conference. Salt Lake City, Utah. 2018 (oral presentation).
24. Sandberg DI, Yu B, Patel R, Hagan J, Miesner E, Sabin J, Smith S, Fletcher S, Shah MN, Sirianni RW, Taylor MD. "Infusion of 5-Azacytidine 5-AZA) into the Fourth Ventricle or Resection Cavity in Children with Recurrent Posterior Fossa: A Pilot Study. American Society of Pediatric Neurosurgeons. Kauai, HI, 2019 (oral presentation).
25. Fletcher S. "A Microsurgical Robot for Repair of Spina Bifida Defects in the Fetus". American College of Osteopathic Surgeons. Colorado Springs, CO, 2019. (Oral presentation).
26. Fletcher S. "Fetal Repair for Meningomyelocele" American College of Osteopathic Surgeons. Colorado Springs, CO, 2019(oral presentation).

Refereed Original Articles in Journals

1. Fletcher SA, Henderson LT, Miner ME, Jones JM: The Successful Surgical Removal of Intracranial Nasogastric Tubes. J Trauma 27(8), 948-52, 1987.
2. Hall JW, Fletcher SA, Winkler JB: Pediatric Auditory Brainstem Responses in Intensive Care Units. SEMINARS IN HEARING (8):2, 103-114, 1987.
3. Nieto R, Rosenbaum D, Fletcher S, Ehni B, et al. Treatment of Adult Moya-Moya Disease by Encephalo-Duro-Arterio-Synangiosis: Five Case Reports. J Stroke and Cerebrovascular Disease 1:71-5, 1991
4. Berry JM, Kowalski A, Fletcher SA. Sudden Asystole during Crainotomy: Unrecognized Phenytoin Toxicity. J Neurosurg Anesthesiol 11(1):42-5, 1999
5. Ewing-Cobbs L, Prasad MR, Kramer L, Cox CS Jr, Baumgartner J, Fletcher S, Mendez D, Barnes M, Zhang X, Swank P. Late intellectual and academic outcomes following traumatic brain injury sustained during early childhood. J Neurosurg: (4 Suppl Pediatrics) 105:287-96, 2006.
6. Fletcher SA. ED Physicians Beware When Using OMT for Patients With Motor Vehicle Injuries. The Journal of the American Osteopathic Association, August 2008, Vol. 108, No. 8:470-1; author reply 471-2.
7. Walker PA, Harting MT, Baumgartner JE, Fletcher S, Strobel N, Cox CS Jr. Modern Approaches to Pediatric Brain Injury Therapy. J Trauma 67 (2 Suppl):S120-7, Review, 2009.

8. Singh A , Rokes C, Gireud M, Fletcher S, Baumgartner J, Fuller G, Stewart J, Zage P, Gopalakrishnan V. Retinoic acid induces REST degradation and neuronal differentiation by modulating the expression of SCF^{β-TRCP} in neuroblastoma cells. *Cancer & Cancer Cytopathology* 117 (22):5189-202, 2011.
9. Papanna R, Mann LK, Snowise S, Morales Y, Prabhu SP, Tseng SCG, Grill R, Fletcher S, Moise Jr. KJ. Neurological Outcomes after Human Umbilical Cord Patch for In-utero Spina Bifida Repair in a Sheep Model. *American Journal of Perinatology Reports* 2016 Jul; 6(3)
10. Papanna R, Moise KJ Jr, Mann LK, Fletcher S, Schniederjan R, Bhattacharjee MB, Stewart RJ, Kaur S, Prabhu SP, Tseung SC. Cryopreserved human umbilical cord patch for in-utero spina bifida repair. *Ultrasound Obstet Gynecol.* 2016 Feb;47(2):168-76.
11. Taylor AR1, Cohen ND, Fletcher S, Griffin JF, Levine JM. Application and Machine accuracy of a new frameless computed tomography-guided stereotactic Brain biopsy system in dogs. *Vet Radiol Ultrasound.* July - August 2013; 54(4):332-42.
12. Lin Y1, Chen Y, Wang Y, Yang J, Zhu VF, Liu Y, Cui X, Chen L, Yan W, Jiang T, Hergenroeder GW, Fletcher SA, Levine JM, Kim DH, Tandon N, Zhu JJ, Li M. ZIP4 is a novel molecular marker for glioma. *Neuro Oncol.* August 2013 15(8):1008-16.
13. Arrey EN, Kerr ML, Fletcher S, Cox CS, Sandberg DI. "Linear Non-Displaced Skull Fractures in Children: Who should be observed or admitted?" *J Neurosurg Pediatrics,* 4:1-6, 2015.
14. Brewer JW Jr, Cox CS, Fletcher SA, Shah MN, Sandberg M, Sandberg DI. Brewer JW Jr, et al. Analysis of pediatric gunshot wounds in Houston, Texas: A social perspective. *J Pediatr Surg.* 2019 Apr; 54(4):783-791.
15. Mann LK, Won JH, Trenton NJ, Garnett J, Snowise S, Fletcher SA, Tseng SCG, Diehl MR, Papanna R. Mann LK, et al. Cryopreserved human umbilical cord versus acellular dermal matrix patches for in utero fetal spina bifida repair in a pregnant rat model. *J Neurosurg Spine.* 2019 Nov 1; 32(2):321-331.
16. Trimble DJ, Parker SL, Zhu L, Cox CS, Kitagawa RS, Fletcher SA, Sandberg DI, Shah MN. Outcomes and prognostic factors of pediatric patients with a Glasgow Coma Score of 3 after blunt head trauma. *Childs Nerv Syst.* 2020 May Doi: 10.1007/s00381-020-04637-z. [Epub ahead of print] PubMed PMID: 32372363.
17. Fu KJ, Barr RM, Shah MN, Fletcher SA, Sandberg DI, Teichgraeber JF, Greives MR. . "An Outcomes Comparison Between Autologous and Alloplastic Cranioplasty in the Pediatric Population." *J Craniofac Surg* 27 (3):593-597, 2016.
18. Papanna R, Fletcher S, Moise KJ Jr, Mann LK, Tseng SC. "Cryopreserved Human Umbilical Cord for In Utero Myeloschisis Repair". *Obstet Gynecol.* 2016 Aug; 128(2):325-30.
19. Martinez CI, Fletcher S, Shah MN, Kerr ML, Sandberg DI. "Survey of Techniques Utilized to Access Ventricular Shunts and Reservoirs." *Pediatr Neurosurg,* 52 (4): 250-

- 256, 2017.
20. Snowise S, Mann L, Morales Y, Moise KJ Jr, Jonson A, Fletcher S, Grill RJ, Tseng SCG, Papanna R. "Cryopreserved human umbilical cord versus biocellulose film for prenatal spinabifida repair in a physiologic rat model. *Prenat Diagn.* 2017 May;37(5): 473-481.
 21. Patel RP, Sitton CW, Ketonen LM, Hou P, Johnson JM, Romo S, Fletcher S, Shah MN, Kerr M, Zaky W, Rytting ME, Khatua S, Sandberg DI. "Phase-Contrast Cerebrospinal Fluid Magnetic Resonance Imaging in Qualitative Evaluation of Patency of CSF Flow Pathways Prior to Infusion of Chemotherapeutic and Other Agents into the Fourth Ventricle." *Childs Nerv Syst* 34 (3): 481-486, 2018.
 22. Herbert JP, Venkataraman SS, Turkmani AH, Zhu L, Kerr ML, Patel RP, Ugalde IT, Fletcher SA, Sandberg DI, Cox CS Jr., Kitagawa RS, Day AL, Shah MN. "Pediatric Blunt Cerebrovascular Injury: the McGovern Screening Score." *J Neurosurg Pediatr.* 16: 1-11, 2018.
 23. Brewer JW Jr, Cox CS, Fletcher SA, Shah MN, Sandberg DI. "Analysis of Pediatric Gunshot Wounds in Houston, Texas: A Social Perspective." *J Pediatr Surg.* 2019; 54(4):783-791.
 24. Sandberg DI, Yu B, Patel R, Hagan J, Miesner E, Sabin J, Smith S, Fletcher S, Shah MN, Sirianni RW, Taylor MD. "Infusion of 5-Azacytidine (5-AZA) into the fourth ventricle or tumor resection cavity in children with recurrent posterior fossa ependymoma: a pilot clinical trial." *J Neurooncol.* 141 (2) 448-457, 2019.
 25. Mann LK, Won JH, Trenton NJ, Garnett J, Snowise S, Fletcher SA, Tseng SCG, Diehl MR, Papanna R. "Cryopreserved human umbilical cord versus acellular dermal matrix patches for in utero spina bifida repair in a pregnant rat model". *J Neurosurg Spine.* 2019 Nov 1;32(2): 321-331.
 26. Papanna R, Mann LK, Snowise S, Morales Y, Prabhu SP, Tseng SCG, Grill R, Fletcher S, Moise Jr. KJ. Neurological Outcomes after Human Umbilical Cord Patch for In-utero Spina Bifida Repair in a Sheep Model. *American Journal of Perinatology Reports* 2016 Jul; 6(3)
 27. Donepudi R, Brock C, Schulte S, Bundock E, Fletcher S, Johnson A, Papanna R, Chauhan S, Tsao K. "Trends in ventricle size during pregnancy and its use for prediction of ventriculoperitoneal shunt in fetal myelomeningocele. *Ultrasound Obstet Gynecol.* 2019 Nov 25.
 28. Vu T, Mann LK, Fletcher SA, Jain R, Garnett J, Tsao K, Austin MT, Moise KJ Jr, Johnson A, Shah MN, Papanna R. *J Pediatric Surg.* 2020 Apr; 55(4): 726-731.
 29. Melin AA, Moffitt J, Hopkins DC, Shah MN, Fletcher SA, Sandberg DI, Teichgraeber JF, Greives MR. *J Craniofac Surg.* 2020 Feb7. Online ahead of print. *J Craniofac Surg* 2020. PMID: 32049919
 30. Bartal MF, Bergh EP, Tsao K, Austin MT, Moise KJ, Fletcher SA, Sibai BM, Papanna R. Low Transverse versus Midline Abdominal Skin Incisions for in utero Spina Bifida Repair. *Fetal Diagn Ther.* 2021 Feb 16;1-9.

Invited Articles (Reviews, Editorials, etc.) in Journals or Papers

1. Contributor: Fletcher SA, Children's Memorial Hermann Hospital, Physicians Practice Magazine, "Kat Bergez Finds the Right Doctors," March 2009 issue, pages A2-A3.

Other Articles

1. Another child fatality from a falling TV
MedBlog : Houston Chronicle Blogs
It's become a real public health issue," said Dr. Stephen Fletcher, chief of pediatric neurosurgery at Children's Memorial Hermann Hospital. 09/22/2006
2. Houston skaters are ready to break in new park
By Michelle Casady
Dr. Stephen Fletcher, a neurosurgeon at Memorial Hermann Children's Hospital, said a helmet can mean the difference between life and death. 2008
3. SOUNDING ALARM: ATV Accident Survivor Shares Harrowing Tale
"Allowing children to operate adult ATVs is like handing them a loaded gun to play with," said pediatric neurosurgeon Dr. Stephen Fletcher, himself the owner of multiple ATVs.
By Allan Turner, Houston Chronicle, September 2, 2009,
<http://www.chron.com/disp/story.mpl/metropolitan/6598131.html>
4. Can we learn from our canine friends
International Brain Tumor Alliance. World Edition 2012 pages 66-67

Chapters

1. Hall, J. and Tucker D, Fletcher SA. Applications of multimodality sensory evoked responses in the pediatric intensive care unit. In Miner ME, Wagner KA (eds.) Neurotrauma: Treatment, Rehabilitation and Related Issues, No. 3. Butterworth Publishers, Stoneham, MA, 1989.
2. Katzen SL, Fletcher SA, Shah MN, Sandberg DI. "Pediatric Neurosurgery." The Neuro ICU Book, 2nd edition. McGraw Hill, 2015.

Other Professional Communications

Presentations

National Conferences

1. Fletcher SA and Mueller B. Hypertonic Saline Use in Children. 2007 Annual Clinical Assembly of Osteopathic Specialists, San Francisco, California, October 18-21, 2007.
2. Fletcher SA. Considerations to Minimize Complications in Tumors Around the Brainstem in Children. Annual Clinical Assembly of Osteopathic Specialists, San Francisco, California, October 18-21, 2007
3. "FINDING A CURE: Brain Tumors in Children and Dogs", Cooperative Agreement with UT-MDACC, Texas A&M University of Veterinary Medicine, and University of Texas Medical School-Houston; Fletcher SA, Conference Co-Chair, Memorial Hermann

Hospital, Houston, Texas, November 1, 2008

4. Fletcher SA. Canine-Human Brain Tumor Correlates. Annual Clinical Assembly of Osteopathic Surgeons, Neurological Discipline of the Annual Assembly, Chicago, Illinois, October 30-November 1, 2009.
5. Fletcher SA. Hemicraniectomy for Severe Head Injury in Children. Annual Clinical Assembly of Osteopathic Surgeons, Neurological Discipline of the Annual Assembly, Chicago, Illinois, October 30-November 1, 2009.

State and Local Conferences

1. "Management of Head and Spinal Injuries", Oklahoma College of Osteopathic Medicine, Oklahoma, Oklahoma, 1982
2. "Brain and Spinal Cord Tumors, Congenital Anomalies, and Hydrocephalus", Oklahoma College of Osteopathic Medicine, Oklahoma, Oklahoma, 1982
3. "Head and Neck Injuries in Sports", Texas Medical Association, Sports Medicine Section Annual Meeting, Houston, Texas 1983.
4. "Coma, Head Injury, and Brain Tumors", Oklahoma College of Osteopathic Medicine, Oklahoma, Oklahoma, 1984
5. "The Clinical Application of Ultrasound in Neurosurgery", American College of Osteopathic Surgeons, New Orleans, Louisiana, 1984
6. "Management of Complications in Neurosurgery", 52nd Annual Clinical Assembly of Osteopathic Surgeons. San Diego, California, 1985
7. "Evaluation of Neurological Trauma", 53rd Annual Clinical Assembly of Osteopathic Surgeons, Las Vegas, Nevada, 1986
8. "Pediatric Neuro-trauma", Association of Emergency Physicians, Las Vegas, Nevada, 1986
9. "Intracranial Pressure Monitoring", Texas Association of Neurosurgical Nurses. Houston, Texas, 1988
10. "Encephalo-duro-arterio-synangiosis in the Management of Moya-Moya Disease", American College of Osteopathic Surgeons, New York, New York, 1989
11. "Head and Neck Injuries", Fort Bend County Schools Conference on Football Injuries, Houston, Texas, 1989
12. "Management of Neurosurgical Trauma", National Aeronautical and Space Administration, Telemedicine Spacebridge Project Armenia, Russia, and the University of Texas Medical School-Houston, Houston, Texas, 1989
13. "Head and Neck Injuries in Sports", Texas Medical Association, Sports Medicine Section Annual Meeting, Houston, Texas, 1993

14. "Craniofacial Reconstruction", American College of Osteopathic Surgeons, San Francisco, California, 1993
15. "Intracranial Pressure Monitoring", Children's Medical Center of Dallas, Dallas, Texas, 1994
16. "Complications of Posterior Fossa Surgery", Children's Medical Center of Dallas, Neuro-Oncology Conference, Dallas, Texas, 1994
17. "Imperforate Anus and Associated Anomalies", University of Texas Southwestern Medical School Surgery Grand Rounds, Dallas, Texas, 1994
18. "Ventriculoscopy", Children's Medical Center of Dallas, Surgery Department Review, Dallas, Texas, 1994
19. "The Protocol of 23 Hour Stay for Shunt Revisions In Children:Reality?", Children's Medical Center of Dallas, Dallas, Texas, 1994
20. "Optic Pathway Gliomas", Children's Medical Center of Dallas, NeuroOncology Conference, Dallas, Texas 1994
21. "Assessment of Shunt Malfunction", Children's Medical Center of Dallas, Emergency Medicine Conference, Dallas, Texas, 1994
22. "The Transcallosal-Interforniceal Approach to Third Ventricular Tumors", Children's Medical Center of Dallas, Neuro-Oncology Conference, Dallas, Texas, 1994
23. "Endoscopic Third Ventriculoscopy", Pediatric Neurosurgery Conference, Dallas, Texas, 1994
24. "Neuroanatomy, Neurophysiology, and Neurologic Examination", Kingwood Medical Center, Kingwood, Texas, 1996
25. "Intraventricular Hemorrhage and Hydrocephalus in Adults", Kingwood Medical Center, Kingwood, Texas, 1996
26. "Management of Spasticity in Cerebral Palsy", HealthSouth Rehabilitation Center, Houston, Texas, 1996
27. "Management of Cerebrospinal Fluid Leaks", American College of Osteopathic Surgeons, Chicago, Illinois, 1996
28. "Spasticity in Head and Spinal Cord Injuries", Healthsouth Rehabilitation Conference, Houston, Texas, 1997
29. "Neurological Examination in the Comatose Patient", Spring Branch Medical Center, Houston, Texas, 1997
30. "Brain Tumors, Spring Branch Medical Center", Houston, Texas, 1997
31. "Management of Spine Injuries, Acute and Chronic", Healthsouth Rehabilitation Center, Houston, Texas, 1997

32. "Imaging of the Nervous System", Greater Houston Emergency Physician's Conference, Houston, Texas, 1998
33. "Imaging in Trauma", Spring Branch Medical Center, Houston, Texas, 1998
34. "Health Care for Uninsured Children", Testimony to members of the Texas House Ways and Means Committee, Austin, Texas, 2001
35. "The Peer Review Process and How It Impacts Your Practice", University of Texas Health Science Center at Fort Worth/Texas College of Osteopathic Medicine, CME Update with TCOM Alumni, June 5, 2004
36. "Murdering Children in Texas", University of Texas Health Science Center at Fort Worth/Texas College of Osteopathic Medicine, CME Update with TCOM Alumni, June 5, 2004
37. "Closed Head Injuries", Memorial Hermann Children's Hospital, Annual Pediatric Transport Team Education Week, October 6, 2004
38. "Office Evaluation of the Mild Head Injury Patient and Sports Injuries and Restrictions from Play", Memorial Hermann Hospital-The Woodlands, CME Lecture, July 8, 2005
39. "Office Evaluation of Mild Head Injury in Children", Memorial Hermann Hospital-Katy, CME Lecture, November 9, 2005
40. "Memorial Hermann Breakthroughs Everyday Segment on Chiari Malformation", KHOU-TV – Houston, January 5, 2006
41. "Preventing Head Injury in Children", Radio Disney, Houston, Texas, January 10, 2006
42. "Office Evaluation of Mild Head Injury in Children", Memorial Hermann City Hospital, CME Lecture, January 17, 2006.
43. "When A Child Presents With A Head Injury", Memorial-Hermann Fort Bend Hospital, CME Lecture, May 9, 2006.
44. "Head Trauma in Child Abuse", Recognition and Prosecution of Child Abuse Seminar, Memorial Hermann Children's Hospital and Memorial Hermann Hospital System, United Way Resource Center, Houston, Texas, May 12, 2006
45. "Head Trauma Case in Court", Recognition and Prosecution of Child Abuse Seminar, Memorial Hermann Children's Hospital and Memorial Hermann Hospital System, United Way Resource Center, Houston, Texas, May 12, 2006 (Stephen A. Fletcher, DO and Sunni Mitchell, JD)
46. "The Value of Life and Modern Medicine", Texas Alliance for Life Meeting, Leadership Circle, Mansion at Judges' Hill, Austin, Texas, August 22, 2006
47. "Pediatric Head Injury", East Houston Regional Medical Center Trauma Quarterly Meeting, Houston, Texas, March 2, 2007

48. "Assessment of Coma in Children", Memorial Hermann Hospital-TMC, Pediatric Transport Didactic Week, Houston, Texas, April 3, 2007
49. "Chiari Malformation and Syringomyelia in Children", Memorial Hermann Memorial City Hospital, Houston, Texas, September 9, 2008
50. "Chiari Malformation and Syringomyelia in Children", Memorial Hermann Woodlands Hospital, Houston, Texas, January 20, 2009
51. "Human Umbilical Cord (HUC) as a Regenerative Patch Material for In-utero Repair of Myelomeningocele (MMC) to Preserve Neuronal Anatomy". Oral presentation at 35th SMFM Annual meeting in San Diego, CA February 2015 (Papanna R, Mann LM, Fletcher S, Tsao K, Argoti P, Snowise S, Schniederjan R, Bhattacharjee M, Stewart RJ, Tseng SCG, Prabhu S, Moise Jr. KJ, Cryopreserved).

Seminar Invitations from Other Institutions

1. "FINDING A CURE: Brain Tumors in Children and Dogs – A conference devoted to finding a cure for brain tumors in children and dogs." The University of Texas, M.D. Anderson Cancer Center, Children's Cancer Hospital, Houston, Texas; The University of Texas Medical School at Houston, Houston, Texas; and Texas A&M University, College Station, Texas, November 1, 2008
2. Invited presentation entitled "Texas Comparative Oncology Program - Brain Tumor Research" at "Remembering Barbara Baker Presents Dr. Stephen A. Fletcher, In collaboration with the Dr. Marnie Rose Foundation", San Jacinto College South Auditorium, Fine Arts Center, Houston, Texas, February 4, 2010. Groundbreaking new research project exploring the similarities between pediatric brain tumors and brain tumors found in certain canine breeds. This project is a collaborative effort between Children's Memorial Hermann Hospital, M.D. Anderson Cancer Research Center, Houston, Texas and Texas A&M University College of Veterinary, College Station, Texas.

Letters to the Editor

1. Fletcher SA. Be Still the Bleeding Heart. American Society of Anesthesiologists Newsletter November 2000, Vol. 64, No. 11.
2. Fletcher, SA. Engine Failure after Take-Off. AOPA Pilot Magazine. July 2011, Vol. 54, No. 57, page 25.

Scientific Exhibits

1. National Library of Medicine, Medline Plus, Live Internet Broadcast entitled "*Procedure to Treat Chiari Malformation*", Memorial Hermann Children's Hospital, Houston Texas, March 16, 2005, 5:30 p.m.
2. Associated Press TV Video, "Warning: TV's could injure children", September 12, 2006 <http://news.yahoo.com/video>; <http://video.ap.org/v/en-ap/v.htm?q=013f3064-532e-45af-ac8c-dfdee196cc18&f=txhou&fg=rss>
3. Public Service Announcement, "The Dangers of All Terrain Vehicles to Children",

Memorial Hermann Hospital News Conference, Hermann Pavilion, Fondren Park, Houston TX, September 1, 2009 (See ATV story about patient accident at <http://www.memorialhermann.org/patientstories/childrens/content.aspx?id=6382>).

Other

Invited Lectures

1. Invited Neurosurgical Consultant and Surgeon. Por Cristo Project, Craniofacial Surgery, Hospital de Ninos Alejandro Mann Guayaquil, Ecuador. 1984 and 1985
2. Invited Lecturer and Neurosurgeon. First Primer Course in Ophthalmology And Neurosurgery, Lima, Peru, 1986
3. Invited Lecturer and Neurosurgeon. The Naval Hospital of Peru and Hospital de Santo Toribio, Lima, Peru, 1987
4. Invited Lecturer. CENDAI PROJECT. San Jose, Costa Rica, 1989
5. Invited Lecturer. Children's Hospital Cendai Project. San Jose, Costa Rica, 1990
6. Invited Neurosurgeon. Georgetown Hospital. Grand Cayman Island, British West Indies, 1993.
7. Invited Surgeon/Neurosurgeon and Consultant Rashid Hospital. "Management of Hydrocephalus with Endoscopy", "The Use of Hypertonic Saline for Brain Edema Associated with Head Injury". Dubai, United Arab Emirates, April 2005.
8. Invited Guest Faculty, "Maximizing the Outcome in Chiari Malformation Surgery" and "Hypertonic Saline for Head Injury in Children". National Institute Mental Health and Neurosciences, Deemed University, Department of Neurosurgery, CME-Neurosurgery Update and Endoscopy Workshop, Bangalore, India, April 14-20, 2006.
9. Invited Lecturer, "Can Bone Decompression Alone Suffice in Certain Pediatric Chiari Patients?". University of Illinois-Chicago, Conquer Chiari Research Symposium, Chicago, Illinois, June 2, 2007. <http://www.conquerchiari.org/Research.htm> (Research Symposium 2007 Webcast)
10. Invited Lecturer, "The Utility of Somatosensory Evoked Potentials in Chiari Malformation and Syringomyelia in Children". Fletcher SA, Butler IJ, Mancias P, Dreyer C. Syringomyelia 2007: 2nd International on Syringomyelia and Chiari Rugby, UK, Rugby School, October 23-27, 2007. (Original paper).
11. Invited Lecturer, "Management of High Grade Glioma in Children: A Multidisciplinary Approach". Wolff J and Fletcher SA. University of Texas Health Science Center at Houston, Medical School, Pediatric Grand Rounds Lecture Series, May 27, 2008.
12. Invited Speaker, "The Head Injury Problem in Children", Why Grey Matters: A Brain Symposium, Learning Rx Houston Central, Houston, TX, March 25, 2010.
13. Invited Speaker, "The Pediatric Head Injury Problem," Red Duke Day, Memorial

Hermann Hospital-TMC, Houston, TX, May 20, 2010

14. Invited Teaching Faculty, "Ventriculostomy and Image Guided Skills Station, The Society of Neurosurgical Surgeons (SNS) Boot Camp, Fundamentals Skills Course, Houston, TX, July 15-16, 2011.

Grand Rounds/CME Lectures

1. "Neuro-ophthalmology for the Neurosurgeon", University of Texas Medical School-Houston, Neurology and Neurosurgery Grand Rounds, Houston, Texas, 1983
2. "Craniopharyngioma", University of Texas Medical School-Houston Neurology and Neurosurgery Grand Rounds, Houston, Texas, 1984
3. "Meningioma", University of Texas Medical School-Houston, Neurology and Neurosurgery Grand Rounds, Houston, Texas, 1984
4. "Complications of Deep Intracranial Surgery", University of Texas Medical School-Houston, Neurology and Neurosurgery Grand Rounds, Houston, Texas, 1985
5. "Bedside Assessment of Head Injury with Ultrasound", University of Texas Medical School-Houston, First Houston Conference on Neuro-trauma Poster Presentation, Houston, Texas, 1985
6. "Considerations in the Management of Pineal Region Tumors", University of Texas Medical School-Houston, Neurology and Neurosurgery Grand Rounds, Houston, Texas, 1986
7. "Cervical Disc Disease", University of Texas Medical School-Houston, Neurology and Neurosurgery Grand Rounds, Houston, Texas, 1987
8. "Arachnoiditis", University of Texas Medical School-Houston, Orthopedic Grand Rounds, Houston, Texas, 1987
9. "Disc Disease of the Cervical, Thoracic, and Lumbar Spine", University of Texas Medical School-Houston, Orthopedic Spine Conference, Houston, Texas, 1987
10. "Craniopharyngiomas", University of Texas Medical School-Houston, Neurology and Neurosurgery Grand Rounds, Houston, Texas, 1988
11. "Moya-Moya Disease", University of Texas Medical School-Houston Neurology and Neurosurgery Grand Rounds, Houston, Texas, 1989
12. "Cerebral Spinal Fluid Rhinorrhea, Otorrhea, and Meningitis", University of Texas Medical School-Houston, Otolaryngology Grand Rounds, Houston, Texas, 1989
13. "Intraventricular Surgery: A Voyage through the Ventricular System", University of Texas Medical School-Houston, Neurology and Neurosurgery Grand Rounds, Houston, Texas, 1995
14. "Post Hemorrhagic Hydrocephalus", University of Texas Medical School-Houston,

Neonatal Intensive Care Conference, Houston, Texas, 1996

15. "Preventing Infections", Memorial Hermann Hospital, Neuro Pod Nurses Conference, Houston, Texas, 2003
16. "VP Shunts", Memorial Hermann Hospital, Children's Special Care Unit Staff Nurses Conference, February 12, 2004
17. "VP Shunts", Memorial Hermann Hospital, General Pediatric Nurses Conference, March 2, 2004
18. "VP Shunts", Memorial Hermann Hospital, Pediatric Residents Conference, Houston, Texas, March 3, 2004
19. "VP Shunts", Memorial Hermann Hospital, Emergency Medicine Residents, Houston, Texas, March 10, 2004
20. "VP Shunts", Memorial Hermann Hospital, Pediatrics Orientation, May 5, 2004
21. "Options for Management of Elevated Intracranial Pressure", University of Texas Medical School-Houston, Division of Pediatric Neurosurgery Weekly Conference, Houston, Texas, November 17, 2004
22. "Non-Traumatic Spinal Cord Disease", University of Texas Medical School-Houston, Division of Pediatric Neurosurgery Weekly Conference, Houston, Texas, January 19, 2005
23. "Management of Post-Hemorrhagic Hydrocephalus", University of Texas Medical School-Houston, Pediatrics Fellows Conference, Houston, Texas, May 12, 2005
24. "Office Neurological Emergencies for the Pediatrician and the Role of Imaging Studies", University of Texas Medical School-Houston, Pediatric Residents Conference, Houston, Texas. August 4, 2005
25. "Hydrocephalus", University of Texas Medical School-Houston, Pediatric Residents Conference, Houston, Texas, August 18, 2005
26. "Congenital CNS Anomalies", University of Texas Medical School-Houston, Pediatric Fellows Conference, Houston, Texas, September 29, 2005
27. "Neuroradiology of Congenital Brain Abnormalities in Neonates", University of Texas Medical School-Houston, Neonatology Grand Rounds. Houston, Texas, January 11, 2006
28. "Imaging of CNS Anomalies", University of Texas Medical School-Houston, January 12, 2006
29. "Managing Postoperative Complications in Neurosurgery", University of Texas Medical School-Houston, Pediatrics Grand Rounds, Houston, Texas, March 14, 2006
30. "Neurosurgical Emergencies/Shunt Malfunction", University of Texas Medical School-Houston, Pediatric Incoming Interns Noon Conference, Houston, Texas, July 13, 2007

31. "Neurosurgical Considerations in Pediatric Surgical Patients", University of Texas Medical School, Pediatric Surgery Case Topics, Combined Fellows Conference-UT/Baylor College of Medicine, Houston, Texas, August 20, 2007
32. "Emergency Pediatric Neurosurgery and Coma", University of Texas Medical School, Pediatric Interns Conference, January 15, 2009
33. "The Chiari Malformation and Syringomyelia: What We Are Learning, Where We Are Going", University of Texas Medical School-Houston, Children's Memorial Hermann Hospital, Pediatric Grand Rounds, CME Lecture, Houston, Texas, May 5, 2009
34. "Pediatric Neurotrauma Care", 14th Annual Dr. Red Duke Professorship Day, University of Texas Medical School-Memorial Hermann Hospital, Houston, Texas, May 20, 2010
35. "Surgical Options for Management of Moya-Moya Disease in Children", Pediatric Tumor Board, University of Texas System, M.D. Anderson Cancer Center, Children's Hospital, Houston, Texas, May 12, 2011
36. SNS Boot Camp Fundamental Skills Course, c/o Congress of Neurological Surgeons, Houston, TX, Baylor College of Medicine, July 15-16, 2011.
37. SNS Boot Camp Fundamental Skills Course, c/o Congress of Neurological Surgeons, Baylor College of Medicine, Houston, Texas, July 13-14, 2012.
38. "Emergency Evaluation of Shunt Malfunction: What Should I expect in the Emergency Room?", Mischer Neuroscience Institute Memorial Hermann Hospital – TMC, Hydrocephalus Support Group, Houston, TX, February 28, 2013.
39. "Chiari Malformation and Syringomyelia" Memorial Hermann Hospital – TMC, Houston, TX, March 6, 2013.
40. "Neurosurgery in Latino Countries; Central and South America": Latino Medical Student Society, Texas Christian University Medical School and North Texas State University College of Osteopathic Medicine. Fort Worth, Texas. September 2018.