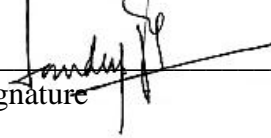


Date of Preparation: 01-27-2017

  
Signature

**SANDEEP SOOD, MD**  
**Clinical Educator Track**

**Office Address:**

3901 Beaubien Blvd,  
Children's Hospital of Michigan, Second Floor, 2145  
Detroit, MI 48201

**Telephone:** 313-745-0522

**E-mail:** ssood@med.wayne.edu

**EDUCATION**

M.B., B.S All India Institute of Medical Sciences, New Delhi, India	1979 - 1984
Undergraduate Delhi Public School, New Delhi, India	1977 - 1979

**POSTGRADUATE TRAINING**

Residency (Surgery) Sinai Hospital of Detroit, Detroit, MI	07/1993 - 06/1994
Fellowship, Neurosurgery Detroit Receiving Hospital & WSU SOM, Detroit, MI	01/1993 - 06/1993
Fellowship, Pediatric Neurosurgery Children's Hospital of Michigan & WSU SOM, Detroit, MI	10/1991 - 10/1992
Resident (Neurosurgery) All India Institute of Medical Sciences, New Delhi, India	01/1985 - 12/1989

**FACULTY APPOINTMENTS**

Associate Professor, Clinical Educator Track Department of Pediatrics, Wayne State University	07/2007 to date
Assistant Professor, Clinical Educator Track Department of Neurosurgery, Wayne State University	07/1997 - 06/2007

## **HOSPITAL OR OTHER PROFESSIONAL APPOINTMENTS**

Associate Neurosurgeon St John's Hospital & Medical Center Detroit, MI	06/2004 to date
Associate Neurosurgeon Children's Hospital of Michigan, Harper Hospital, Detroit Receiving Hospital & Sinai Grace Hospital Detroit, MI	08/1996 to date
Associate Neurosurgeon All India Institute of Medical Sciences New Delhi, India	07/1995-08/1996
Associate Neurosurgeon Sir Ganga Ram Hospital New Delhi, India	07/1994-06/1995
Associate Neurosurgeon Cardiothoracic & Neurosciences Center Central India Institute of Medical Sciences Nagpur, India	01/1991– 09/1991
Chief Resident (Neurosurgery) All India Institute of Medical Sciences New Delhi, India	01/1990 – 12/1990

## **MAJOR PROFESSIONAL SOCIETIES**

American Association of Neurological Surgeons	2015 to date
Congress of Neurological Surgeons	1990 to date
International Society of Pediatric Neurosurgeons	Current
American Society of Pediatric Neurosurgeons	Current
Michigan Association of Neurosurgeons	Current
American Medical Association	Current
Michigan State Medical Society	Current
Wayne State Medical Society	Current

Neurological Society of India Current  
Indian Medical Association Current

### **MEDICAL LICENSURE**

Michigan #4301058608 Expiration  
01/31/2018

### **BOARD CERTIFICATION**

M.Ch (Neurosurgery)- Certification in Neurosurgery Lifetime  
All India Institute of Medical Sciences, New Delhi, India

American Board of Pediatric Neurosurgery Written Exam 1997

### **HONORS/AWARDS**

Physician Difference Maker Award 06/2015  
Children's Hospital of Michigan  
Two physicians are given this award for relentless commitment to patient care

"Top Docs" *Hour Detroit* 1999 to date  
*Hour Detroit's Top Docs* list is based on a peer-review survey of approximately 18,000 physicians in metropolitan Detroit done every year.

"Best Doctors" in America 2001 to date  
Style-Line Magazine  
Neurosurgery  
This is an especially prestigious honor because the nomination comes from other physicians in the specialty. Only 5% of all physicians in the United States earn this recognition

*Patient's Choice Award* 2012  
Awarded for patients continued appreciation and praise for quality of care and service provided: Of nations 870,000 active physicians only 5% were accorded this honor

### **SERVICE**

#### **Wayne State University:**

**Departmental / Divisional:**  
*Member – Performance Improvement Coordinating Committee* 2001-2010  
This committee comprises faculty from different disciplines. It meets every quarter for 1-2 hours regards to review the progress made in patient care and addressing areas of concern.

<i>Member- Surgical Subcommittee</i> One & Half hour monthly meeting regards management of Operating Room Facilities	2000-2010
<i>Director-Pediatric Neurosurgery Fellowship Director</i>	2000-2003
<i>Member-Academic Faculty Meeting</i> Discuss departmental faculty academic matters	2000-2016
<i>Member-Resident Education Committee</i>	2000-2016
<i>Member-Clinical Competency Committee</i> Meets twice a year to for resident evaluation to be reported to AGCME	2000-2016
<i>Faculty Mentoring Program</i> One faculty member mentors one resident during the course of residency	2013-2016
<i>Annual Faculty Merit Review</i> Evaluates each faculty member in terms of contribution to resident training, service and patient care	2000-2016

**School of Medicine:**

<i>Member- Pediatric Neurology Chair Search Committee</i>	2016
<i>Member- Neurosurgery Chair Search Committee</i>	2014-2015
<i>Member – Department of Neurosurgery Promotion &amp; Tenure Committee.</i> This Committee comprises research and tenure track faculty that evaluate the academic portfolios for all Neurosurgery at SOM. The Committee meets about 3-4 times a year for 2-3 hour sessions and corresponds frequently by e-mails for ad hoc concerns. Committee members review portfolios of new faculty before hire, make recommendations to existing faculty members for suggestions to enhance their academic portfolios in teaching, service and scholarly activities; identify exceptional faculty deserving of teaching awards and promotions; and prepare letters of recommendation for promotion or feedback regarding academic portfolios of faculty members.	2010 to date
<i>Member- Internal Review Committee- Evaluation of Chairman Neurosurgery</i>	Jun 2010
<i>Member-Resident Applicant Selection Committee</i> Interview evaluate and make recommendation for selecting applicant resident in residency program	2000 to date

### **Affiliate medical organizations:**

Member – *Shunt Infection Control Committee*: This committee meets quarterly for 1 hours. It tracks incidence of shunt infection on a monthly basis and identifies risk factors to develop and accesses protocols in place to minimize shunt infection. 2012 to date

Member--*Patient Access Committee*: Meets with Children’s Hospital administration on a monthly basis for an hour to develop and improve patient access strategies 2012 to date

### **Professional:**

*Organizer and Participant: First STARS Symposium on Hydrocephalus Detroit, MI. Key note Speaker- Slit Ventricle Syndrome* May 20-21, 2004

*Organizer and Participant: VI Detroit Neurosurgery Symposium. “The Renaissance of Neurosurgery”, Moderator Session VI “Advances in Pediatric Neurosurgery”.* Sept 13-14, 2002

*Organizer and Participant: Symposium on Hydrocephalus Detroit, MI* June 1-2, 2001

### **Community:**

Brain tumors. Thanksgiving TV special DMC Children’s Hospital Nov 24, 2015

Management of Hydrocephalus. Thanksgiving TV special DMC Children’s Hospital Nov 24, 2014

Current Treatment options for Children with Tuberous Sclerosis; Michigan Regional TSC Conference May 4, 2013

Spina Bifida Conference, Livonia, Michigan For patients and Families with Spina Bifida Nov 13, 2010

Nervous system. One-hour lecture 5th Grade School Students, Feb 2006 Feb 12, 2006

Human Brain. One-hour lecture for 5th Grade School Students at Detroit Country day School with slides Nov 10, 2004

Hydrocephalus Issues & Challenges: The Child with Special Health Care Needs A conference for Parents and Professionals Needs- A Conference Nov 4, 2000

## Scholarly Service

### Professional:

#### National / International/ Regional:

Chairperson AIIMS Neurosciences Congress, New Delhi, India	Nov 23-24, 2015
Moderator for Session VI “Advances in Pediatric Neurosurgery”. VI Detroit Neurosurgery Symposium. “The Renaissance of Neurosurgery”, Detroit, MI	Sep 14, 2002
Moderator for <i>Symposium on Hydrocephalus</i> Detroit, MI	June 2, 2001

### Service for Peer Review Journals:

#### *Editorial Board Membership*

Member of Editorial Board for Endoscopic Methods-Clinics in Oncology	2016
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#### Review of Manuscripts:

<i>Neurosurgery</i>	2015
<i>Journal of Child Neurology</i>	2015
<i>Child’s Nervous System</i>	2015
<i>Journal of Neurosurgery</i>	2010
<i>Indian Pediatrics</i>	2010
<i>Pediatric Radiology</i>	2008

### Patient Care:

Responsible for care of Pediatric Neurosurgery patients at Children’s Hospital of Michigan –  
24/7 coverage

Responsible for care of Pediatric Neurosurgery consults from Emergency Room at Children’s  
Hospital of Michigan – every third night a year, daytime and night time coverage

Responsible for care of Pediatric Neurosurgery consults from Emergency Room at St John’s  
Hospital Moross, Detroit– every third night a year, daytime and night time coverage

Responsible for One Full day clinic per week Pediatric Neurosurgery at Children’s Hospital of  
Michigan.

Responsible for One half day clinic per week Pediatric Neuro-Oncology Clinic at Children’s  
Hospital of Michigan.

## TEACHING

### *Teaching at Wayne State University*

Residents, Fellows

Operating Room teaching (2-5 hrs/ daily, 1 resident/ fellow)	1996 to present
Clinical Rounds on patients (1-2 hours/daily, 1 resident/fellow, nurses & PA's)	1996 to present
Pediatric tumor board meeting and teaching conference Pediatric Neuroradiology Teaching Conference (1 hour/ month, 2-5 residents, 1-2 medical Students & Nurses, *1 AMA Category 1 Credit hour)	1996 to present
Pediatric Neuroradiology Teaching Conference (1 hour/ month, 2-5 residents, 1-2 medical Students & Nurses, *1 AMA Category 1 Credit hour)	1996 to present
Epilepsy Surgery Meeting and Teaching Conference (1 hour/ month, 10 residents, 1-2 medical Students & Nurses, *1 AMA Category 1 Credit hour)	2000 to present
Mortality & Morbidity Meeting and Teaching Conference (1 hour/ month, 5-6 residents, 1-2 medical Students & Nurses, *1 AMA Category 1 Credit hour)	1996 to present
Lecture to students, residents, fellows and faculty in Neurology: "Shunt Function & Hydrocephalus." <i>1.0 hours</i>	Sept 25, 2015
Lecture to students, residents, fellows and faculty in Neurosurgery: "Nuances of Surgery on Pineal Tumors." <i>1.0 hours</i>	Jun 17, 2015
Lecture to students, residents, fellows and faculty in Emergency Medicine "Shunt Malfunction." <i>1.0 hours</i>	May 6, 2015
Lecture to students, residents, fellows and faculty in Neurosurgery: "Endoscopic Disconnective Surgery for Seizures." <i>1.0 hours</i>	Dec 10, 2014
Lecture to students, residents, fellows and faculty in Neurology: "Neurosurgical Emergencies." <i>1.0 hours</i>	Aug 29, 2013

Lecture to students, residents, fellows and faculty in Neurosurgery: “Craniosynostosis.” <i>1.0 hours</i>	Aug 28, 2013
Lecture to students, residents, fellows and faculty in Neurosurgery: “Nuances of Surgery on Pineal Tumors.” <i>1.0 hours</i>	Feb 20, 2013
Lecture to students, residents, fellows and faculty in Neurosurgery “Spinal Dysraphism & Fetal Neurosurgery” <i>1.0 hours</i>	May 2, 2012
Lecture to students, residents, fellows and faculty in Pediatric Intensive Care Neurosurgery “Pediatric Brain Tumor management” <i>1.0 hours</i>	Sept 14, 2011
Lecture to students, residents, fellows and faculty in Pediatrics “Management of Neurosurgical patients” <i>1.0 hours</i>	July 24, 2011
Lecture to students, residents, fellows and faculty in Pediatrics Intensive Care. “Pediatric Head Injury” <i>1.0 hours</i>	Sept 8, 2011
Lecture to students, residents, fellows and faculty in Pediatric Neurology “Pediatric Brain Tumor management” <i>1.0 hours</i>	July 15, 2011
Lecture to students, residents, fellows and faculty in Neurosurgery: “Craniosynostosis.” <i>1.0 hours</i>	June 7, 2011
Lecture to students, residents, fellows and faculty in Pediatric Radiology “Molding Helmet in Craniosynostosis” <i>1.0 hours</i>	Dec , 2010
Lecture to students, residents, fellows and faculty in Pediatrics Intensive Care. “Epilepsy Surgery in Pediatric Patients” <i>1.0 hours</i>	Dec 9, 2011
Lecture to students, residents, fellows and faculty in Pediatrics Intensive Care. “Pediatric Head Injury-Decompressive Craniotomy” <i>1.0 hours</i>	Aug ,2010
Lecture to students, residents, fellows and faculty in Pediatrics Anesthesia. “Pediatric Head injury” <i>1.0 hours</i>	Feb 11, 2009



Lecture to students, residents, fellows and faculty in Pediatric: “Epilepsy Surgery” <i>1.0 hours</i>	Aug 29, 2008
Lecture to students, residents, fellows and faculty in Pediatric Neurology “Slit Ventricle Syndrome” <i>1.0 hours</i>	May 29, 2008
Lecture to students, residents, fellows and faculty in Pediatric Intensive Care: “Epilepsy Surgery” <i>1.0 hours</i>	April 2, 2008
Lecture to students, residents, fellows and faculty in Pediatric Surgery “Pediatric Brain Tumor- Diagnosis & Management” <i>1.0 hours</i>	Jan 12, 2008
Lecture to students, residents, fellows and faculty in Pediatric Intensive Care: “Slit Ventricle Syndrome” <i>1.0 hours</i>	Oct 4, 2007
Lecture to students, residents, fellows and faculty in Pediatric Neurology “Moya Moya Disease” <i>1.0 hours</i>	May 24, 2007
Lecture to students, residents, fellows and faculty in Pediatric Anesthesia “Slit Ventricle Syndrome” <i>1.0 hours</i>	Nov 22, 2006
Lecture to students, residents, fellows and faculty in Neonatal Intensive Care: “Head Injury” <i>1.0 hours</i>	Mar 29, 2004
Lecture to students, residents, fellows and faculty in Pediatric Anesthesia “Head Injury” <i>1.0 hours</i>	Mar 12, 2003
Lecture to students, residents, fellows and faculty in Neurosurgery “Slit Ventricle Syndrome” <i>1.0 hours</i>	2003
Lecture to students, residents, fellows and faculty in Pediatric Surgery “Trauma Lecture” <i>1.0 hours</i>	Nov 12, 2002
Lecture to students, residents, fellows and faculty in Pediatric Anesthesia “Head Injury in Children” <i>1.0 hours</i>	April 7, 1999

Lecture to students, residents, fellows and faculty in Neurosurgery  
“Slit Ventricle Syndrome” 1999  
*1.0 hours*

Lecture to students, residents, fellows in Neurosurgery- Evening Review  
Course “Diagnosis of Shunt Malfunction” 1999  
*1.0 hours*

Lecture to students, residents, fellows and faculty in Neurosurgery  
“Chiari Malformations” 1999  
*1.0 Hours*

***Courses:***

Cadaver Lab, Supratentorial trans tentorial approach and  
Supracerebellar infratentorial approach, Detroit, MI Sept 10, 2016

Cadaver Lab, Neurosurgery of the temporal lobe and  
Hemispherotomy, Detroit, MI Jun 18, 2016

Pediatric Neurosurgery. Pediatric Board Review, Holliday Inn,  
Ann Arbor, MI Aug 24, 2015

Pediatric Neurosurgery. Pediatric Board Review, Holliday Inn,  
Ann Arbor, MI Aug 26, 2015

Pediatric Neurosurgery. Pediatric Board Review, Holliday Inn,  
Ann Arbor, MI Aug 26, 2014

Pediatric Neurosurgery. Pediatric Board Review, Holliday Inn,  
Ann Arbor, MI Sept 17, 2013

Pediatric Neurosurgery. Pediatric Board Review, Holliday Inn,  
Ann Arbor, MI Sept 17, 2012

Clinical Correlation Series for 1st year Medical Students. Gross  
Anatomy Dissection and instructions with correlation of anatomy  
to surgical and clinical aspects of Practice of Medicine 1998  
One hour, Attendees 15 students.

***Visiting Professor / Lecturer***

Pediatric Epilepsy. Saturday Lecture Series in Pediatric  
Medicine. Wayne State University Children’s Hospital of  
Michigan, Troy, Michigan Jan 20, 2016

Advances in Pediatric Neurosurgery <i>Key Note Speaker</i> ; Third NAPP (Neonatal and Pediatric Pearls) Conference Mumbai, India,	Feb 8-9, 2013
Pediatric Brain Tumor Management. St Joseph Mercy Hospital, Michigan	Jul 7, 2011
Pediatric Brain Tumors. Neuro-Oncology Update Detroit, Michigan	Sept 25, 2010
Management of Pediatric head injury- Role of Decompressive Craniotomy- Hurley Hospital, Michigan	May 26, 2010
Head Shape and Size. Neurosurgical Relevance. St Joseph Mercy Hospital Michigan	Sept 28, 2008
Big Head Small Head. Children Hospital Clinic Days. Lecture for Pediatricians, Detroit, Michigan	May 10, 2008
Diagnosis and Management of Pediatric Brain Tumors. Key Note Speaker. First Annual US-Qatari International Conference Doha, Qatar	Apr 29 –May 1, 2007
Slit Ventricle Syndrome. <i>Keynote Speaker</i> at International Consensus Conference Hydrocephalus 2005 Queenstown, New Zealand	Aug 15-17, 2005
“Head On” Collision. Conference on Pediatric Traumatic Brain Injuries, Children’s Hospital of Michigan Livonia, Michigan	June 9, 2005
Henry Ford Hospital Lecture Series. Slit Ventricle Syndrome, Henry Ford Hospital, Detroit, Michigan	May 25, 2005.
Slit ventricle syndrome. <i>Keynote Speaker</i> at First STARS Symposium on Hydrocephalus, Detroit, Michigan	May 20-21, 2004

***Mentorship:***

1. Mentoring Residents & fellows in research who have continued to collaborate after graduation from fellowship while working at academic centers: This has involved teaching of concepts of study design, obtaining funding, informed consent, data collection and abstraction and statistical analysis. This has also resulted in multiple abstracts and paper ant National regional and international conferences;

Neena Marupudi, MD Resident

#### Publications

- i. Sood S, Marupudi N, Asano E, Haridas A, Ham SD. Intracranial Pressure and Sagittal Craniosynostosis. *J Neurosurg Pediatr* (*accepted for Publication*)
- ii. Sood S, Marupudi NI, Asano E, Haridas A, Ham SD: Endoscopic corpus callosotomy and hemispherotomy. *J Neurosurg Pediatr* 16:681-686, 2015

#### Abstracts

- i. Neena Marupudi, Sandeep Sood, MD. Lumbar-Peritoneal Shunting in Hydrocephalus: Preventing Chiari Malformations and Decreasing Shunt Revisions. Oral Presentation: 84<sup>th</sup> AANS Annual Scientific Meeting, Chicaho, Illinois April 30-May 4, 2016
- ii. Neena I. Marupudi, M.D., M.S., Aimee Luat, M.D., Steven D. Ham, D.O., Sandeep Sood, M.D Technical Nuances of Corpus Callosotomy: Microscope, Endoscope, and 3D For Minimally-Invasive Epilepsy Surgery. 45<sup>th</sup> Annual Meeting of AANS/CNS Section on Pediatric Neurological Surgery , Austin, Texas Dec 9, 2015
- iii. Marupudi N, Rozelle A, Sood S: Ninth Annual David Fromm Research and Wayne State Surgical Alumni Day: Intraoperative Intracranial Pressure Monitoring Prior to Craniofacial Reconstruction in Children with Craniosynostosis, Jan 28, 2015; Detroit, MI
- iv. Marupudi NI, Rozelle A, Ham S, Sood S. Intraoperative Intracranial Pressure Monitoring Prior to Craniofacial Reconstruction in Children with Craniosynostosis. *43<sup>rd</sup> Annual Meeting AANS/CNS Section on Pediatric Neurological Surgery, Amelia Island, FL, Dec 2-5, 2014. (Oral Presentation)*
- v. Marupudi NI, Asano E, Sood S. Anatomic Hemispherectomy for Intractable Epilepsy: An Analysis of Long-term Outcomes and Incidence of Hydrocephalus in 70 Children. *43<sup>rd</sup> Annual Meeting AANS/CNS Section on Pediatric Neurological Surgery, Amelia Island, FL, Dec 2-5, 2014. (Oral Presentation)*

- vi. Marupudi NI, Mell B, Ham SD, Sood S. Lumbar Atrial Shunts Associated with Reduced Infection and Malfunction Rates. *Association of Neurological Surgeons (AANS) 82<sup>nd</sup> Annual Meeting, San Francisco, CA, Apr 5-9, 2014. (Poster Presentation)*
- vii. Marupudi NI, Mell B, Ham SD, Sood S. Lumbar Atrial Shunts as Alternative Shunting System to Ventricular-Atrial and Lumbar-Peritoneal Shunts. *Michigan Association of Neurological Surgeons (MANS) 2014 Annual Meeting, Crystal Mountain, MI, May 30-June 1, 2014. (Oral Presentation)*
- viii. Marupudi NI, Altinok D, Goncalves L, Ham SD, Sood S. Apparent Diffusion Coefficient Mapping Sequence Predicts Surgical Planes in Medulloblastomas. *Michigan Association of Neurological Surgeons (MANS) 2014 Annual Meeting, Crystal Mountain, MI, May 30-June 1, 2014. (Oral Presentation)*
- ix. Marupudi NI, Asano E, Sood S. Anatomic Hemispherectomy for Intractable Epilepsy: An Analysis of Long-term Outcomes and Incidence of Hydrocephalus in 63 Children. *42<sup>nd</sup> Annual Meeting of the International Society for Pediatric Neurosurgery (ISPN), Rio de Janeiro, Brazil, Nov 9-13, 2014. (Oral Presentation)*
- x. Marupudi NI, Mathieson JA, Grover K, Ham SD, Sood S. Cystoperitoneal Shunting Resulting in Acquired Chiari Malformation: An Age-Related Phenomena in Pediatric Population. *Association of Neurological Surgeons (AANS) 81<sup>st</sup> Annual Meeting, New Orleans, LA, Apr 27-May 1, 2013. (Poster Presentation)*
- xi. Marupudi NI, Ham SD, Sood S. Long-term Outcomes of Pediatric Patients after Endoscopic Fenestration and Shrinkage Fulguration of Suprasellar Arachnoid Cysts. *Michigan Association of Neurological Surgeons (MANS) 2013 Annual Meeting, Crystal Mountain, MI, May 31-June 2, 2013. (Oral Presentation)*
- xii. Marupudi NI, Altinok D, Goncalves L, Anand D, Ham SD, Sood S. Use of Apparent Diffusion Coefficient Mapping in Medulloblastomas. *41<sup>st</sup> Annual Meeting of the International Society for Pediatric Neurosurgery (ISPN), Mainz, Germany, Sept 29-Oct 3, 2013. (Poster Presentation)*
- xiii. Marupudi N, Sood S: Children's Hospital of Michigan Surgical Services Research Day: Long-term Outcomes of Pediatric Patients after Endoscopic Fenestration and Shrinkage Fulguration of Suprasellar Arachnoid Cysts, Oct 30, 2013; Detroit, MI
- xiv. Marupudi NI, Altinok D, Goncalves L, Ham SD, Sood S. Apparent

Diffusion Coefficient Mapping in Medulloblastomas Predicts Non-Infiltrative Surgical Planes. *42<sup>nd</sup> Annual Meeting AANS/CNS Section on Pediatric Neurological Surgery, Toronto, Canada, Dec 3-6, 2013. (Oral Presentation)*

Rajah Gary, MD Resident

- i. To CY, Rajah G, Klein E, McNaughton M, Ham S, Haridas A, Kupsky W, Marin H, Sood S: Desmoplastic infantile ganglioglioma with associated giant aneurysm-case report. *Childs Nerv Syst* 31:1413-1418, 2015
- ii. Rajah G, To CY, Sood S, Ham S, Altinok D, Poulik J, Haridas A: Epidural spinal cord compression in a patient with blue rubber bleb nevus syndrome. *J Neurosurg Pediatr* 14:486-489, 2014

Neelesh Nandkumar, MD Resident

- i. Sood S, Nundkumar N, Ham SD: Interhemispheric endoscopic resection of large intraventricular and thalamic tumors. *J Neurosurg Pediatr* 7:596-599, 2011

Mark Hoeprich, MD Resident

- i. Sood S, Hoeprich M, Ham SD: Pure endoscopic removal of pineal region tumors. *Childs Nerv Syst* 27:1489-1492, 2011

Richard Rhiew, MD Resident

- ii. Rhiew RB, Manjila S, Lozen A, Guthikonda M, Sood S, Kupsky WJ: Leptomeningeal dissemination of a pediatric neoplasm with 1p19q deletion showing mixed immunohistochemical features of an oligodendroglioma and neurocytoma. *Acta Neurochir (Wien)* 152:1425-1429, 2010

Ryan Barrett, MD: Resident

- i. Role of Lumbar Shunt in Management of Slit Ventricles. Does the slit ventricle syndrome exist? Sood S, Barrett R, Powell T, Ham SD: *J Neurosurg* 102:119-123, 2005

Steve Dutcher, MD: Resident

- ii. Skull Fractures and Penetrating Brain Injury. Dutcher S, Sood S, Ham S.D., Canady A.I., *Pediatric Neurosurgery: Surgery of the Developing Nervous System, Fourth Edition*, pp. 573-583,

(W.B. Saunders Company)

Kaveh Barami, MD Resident

- i. Pediatric Intracranial Hemorrhage .Barami K, Ham S.D., Sood S, Shankaran S, Canady A.I.: “Textbook of Neurological Surgery” (Lippincott-Raven, Philadelphia 1999)
- ii. Chemical meningitis from bile reflux in a lumbar-gallbladder shunt. Barami K, Sood S, Ham S, Canady A: *Pediatr Neurosurg* 29:328-330, 1998
- iii. Postural changes in intracranial pressure in chronically shunted patients. Barami K, Sood S, Ham SD, Canady AI: *Pediatr Neurosurg* 33:64-69, 2000

Marcello Galarza, MD, Neurosurgery Fellow

- i. Use of ultrasonic aspiration for dural opening in cranial reoperations: technical note. Galarza M, Sood S, Pomata HB *Neurosurgery* 57:E216; discussion E216, 2005

Jaliya Lokuketagoda, MD, Fellow Neurosurgery

- i. Periventricular rigidity in long-term shunt-treated hydrocephalus .Sood S, Lokuketagoda J, Ham SD: *J Neurosurg* 102:146-149, 2005

Martin Schuhman, MD, Research Fellow

- i. The value of C-reactive protein in the management of shunt infections Schuhmann MU, Ostrowski KR, Draper EJ, Chu JW, Ham SD, Sood S, McAllister JP: *J Neurosurg* 103:223-230, 2005
- ii. Endoscopic fenestration and coagulation shrinkage of suprasellar arachnoid cysts. Technical note. Sood S, Schuhmann MU, Cakan N, Ham SD: *J Neurosurg* 102:127-133, 2005

Cherukuri Ravi Kumar, MD, Fellow Pediatric Neurosurgery

- i. Pathophysiological changes in cerebrovascular distensibility in patients undergoing chronic shunt therapy. Sood S, Kumar CR, Jamous M, Schuhmann MU, Ham SD, Canady AI: *J Neurosurg Pediatr* 100:447-453, 2004.
- ii. Complications of bioresorbable fixation systems in pediatric neurosurgery. Kumar CR, Sood S, Ham S. *Childs Nerv Syst* 21:205-210, 2005

Mohammed Jamous, MD Fellow Pediatric Neurosurgery

- i. Frontal and occipital horn width ratio for the evaluation of small and asymmetrical ventricles. Jamous M, Sood S, Kumar R, Ham S  
Pediatr Neurosurg 39:17-21, 2003

Mentored Undergraduate

- i. Aakash Bhatia, MBBS Nov 2-Jan 15, 2016
- ii. Arshdeep Kaur, MBBS 2015
- iii. Anjali Gupta 2012, Med Student Philadelphia College of Osteopathic Medicine
- iv. Aaron Stubbs 2010 Pre-Med
- v. Anthony Pecararo 2010-High School Student now in Med School
- vi. Keshav Grover 2005, High school student finished undergrad from UM and Med school from MSU. Now resident in ENT
- vii. Tiffany Powell 2003-2004, High School Student then did medicine from MSU and now a resident in Neurosurgery

Mentored School Students

- i. Shefali Sood, High School Student 2012
- ii. Victor, Chen, High School Student 2011
- iii. Lucy Chang, High School Student 2011
- iv. Leslie Rabault, High School Student, 2010
- v. Christopher Nofar, High School Student 2010
- vi. Rupinder Sekhon, High School Student 2010
- vii. Virat Gupta 9th grade school student 2005
- viii. Kesh Grover 12th grade school student 2004

**GRANTS, CONTRACTS, AND OTHER FUNDING**

**Active National/International Grants and Contracts**

<i>Grant</i>	#R1-2016-62
<i>Role</i>	Sood (PI); Effort 80%
<i>Title</i>	Molding Helmets in Sagittal Craniosynostosis
<i>Source</i>	Children's Foundation
<i>Period of Support</i>	2016-2017
<i>Total award</i>	\$15,000

<i>Grant</i>	# R01NS064033
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*Role* Sood (Co Investigator): Effort 5%. PI Eishi Asano  
*Title* Functional Brain Mapping in Pediatric Neurosurgery  
*Source* NINDS  
*Period of Support* Sept 2014- May 2019  
*Total Award* \$1,677,721 (direct cost \$1,093,750)

*Grant* # R01CA123451  
*Role* Sood (Co Investigator): Effort 2%. PI Csaba, Juhasz & Sandeep Mittal  
*Title* Tryptophan Metabolism in Brain Tumors  
*Source* NINDS  
*Period of Support* Sept 2014- May 2019  
*Total Award* \$2,495,022

### **Previously funded Grants and Contracts**

*Grant* # R01NS064989  
*Role* Sood (Co Investigator): Effort 5%. PI Harry Chugani  
*Title* Identifying Epileptogenic Tubers in TSC  
*Source* NINDS  
*Period of Support* 2010-2014  
*Total Award* \$1,621,236

*Grant* # R01NS041922  
*Role* Sood (Co Investigator): Effort 2%. PI Csaba Jusahz  
*Title* Longitudinal Neuroimaging in Sturge-Weber Syndrome  
*Source* NINDS  
*Period of Support* 2003-2014  
*Total Award* \$3,610,771

*Grant* # R01NS064033  
*Role* Sood (Co Investigator): Effort 5%. PI Eishi Asano  
*Title* Functional Brain Mapping in Pediatric Neurosurgery  
*Source* NINDS  
*Period of Support* March 2009- Aug 2014  
*Total Award* \$1,659,868 (direct cost \$1,109,265)

*Grant* R01NS045151  
*Role* Sood (Co Investigator); Effort 5% PI Dianne Chugani  
*Title* Imaging tryptophan metabolism in children with epilepsy  
*Source* NINDS  
*Period of Support* 2004-2007  
*Total Award* \$1,215,232

*Grant* RO1 NS 34488  
*Role* Sood (Co Investigator) Effort 5% PI Harry Chugani  
*Title* Localization of epileptic foci with PET in children  
*Source* NINDS  
*Period of Support* 2005-2010  
*Total Award* \$2,224,479

## CLINICAL TRIALS ACTIVITIES

1. *Endoscopic Surgery for Epilepsy* 2015 to date  
*IRB 035115MP2X*  
*Role – Principal Investigator*
  - Investigating use of 3D endoscope for Hemispherotomy and Corpus Callosotomy
  
2. *Molding Helmets for Treatment of Sagittal Craniosynostosis* 2010 to date  
*IRB 044811MP4F*  
*Role – Principal Investigator*
  - Investigate use of molding helmets to treat sagittal craniosynostosis without surgery.
  
3. *Specialized Neuroimaging of Posterior Fossa Tumors to Aid Surgical Resection* 2013 to date  
*IRB 082412MP4E.*  
*Role – Principal Investigator*
  - Investigate utility of ADC mapping in defining tumor margin infiltration
  
4. *Longterm Outcomes of Pediatric patients after Endoscopic Fenestration and Shrinkage Fulgration of Suprasellar cysts* 2014 to date  
*IRB 022512MP2E*  
*Role – Principal Investigator*
  - Investigate long-term outcome of patients who had cyst fulgration to reconstitute the floor of third ventricle
  
5. *Sequelae of Longterm Shunting Systems in Patients with Arachnoid Cysts* 2014 to date  
*IRB 111912MP4E*  
*Role – Principal Investigator*

- Investigate long-term effect of shunts in patients with arachnoid cysts especially development of Chiari Malformation
6. *SubOccipital Craniotomy Risk of Dura Injury* 2009  
*IRB 081509MP2X*  
*Role – Principal Investigator*
- Investigate safety of single burr hole posterior fossa craniotomy in patients with brain tumor
  -
7. *Cerebrospinal Fluid Modelling* 2008  
*HIC # 062108MP4E*  
*Role – Principal Investigator*
- Develop MRI Phantom model of CSF flow and compare it with CSF flow dynamic in patients with shunt
8. *Postoperative Fever after Hemispherectomy* 2007  
*HIC 075007MP4X*  
*Role – Principal Investigator*
- Investigate hyperpyrexia in patients after hemispherectomy
9. *Lumbar Shunt Complications* 2007  
*HIC 054007MP4X*  
*Role – Principal Investigator*
- Investigate complications associated with lumbar shunts
10. *Role of preservation of Vein of Labbe during Temporal lobe surgery for intractable seizures* 2004  
*Role – Principal Investigator*
- Investigate consequence of Vein of Labbe coagulation in epilepsy patients

## **PATENTS & PATENT APPLICATIONS**

1. Programmable Antisiphon Shunt vs. Patent Serial No: 09/086,891., Jul 18, 2000 S Sood, AI Canady, SD Ham; Primary Inventor Sandeep Sood
2. Dual Lumen Ventricular Catheter with Double Proximal Port Reservoir. Patents pending Sood S
3. Shaft for endoscope with a rigid surgical suction and detachable retractor blade for endoscopic micro-neurosurgery of the brain. Patent Application Publication

US 2012/0265008 A1, Oct 18, 2012. Primary Inventor Sandeep Sood

4. Stereoscopic Imaging from a Conventional Endoscope with single lens camera. Patent Application Publication US 2012/0277527 A1, Nov 1, 2012. Primary Inventor Sandeep Sood
5. Method for viewing Anaglyphs with single color filter to optimize color perception. Patent Application Publication US 2013/ 0063813 A1, Mar 14, 2013 Primary Inventor Sandeep Sood

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### Peer-Reviewed Publications

#### Reports of Original Work

1. Sood S, Asano E, Altinok D, Luat A: Endoscopic posterior interhemispheric complete callosotomy. **J Neurosurg Pediatr** **18**:689-692, 2016 *Impact Factor 1.37*
2. Barami K, Sood S: The cerebral venous system and the postural regulation of intracranial pressure: implications in the management of patients with cerebrospinal fluid diversion. **Childs Nerv Syst**, 2016 *Impact Factor 1.16*
3. Sood S, Marupudi NI, Asano E, Haridas A, Ham SD: Endoscopic corpus callosotomy and hemispherotomy. **J Neurosurg Pediatr** **16**:681-686, 2015 *Impact Factor 1.37*
4. ZJ Wang, L Rao, K Bhambhani, K Miller, J Poulik, D Altinok, S Sood: Diffuse intrinsic pontine glioma biopsy: a single institution experience; **Pediatric blood & cancer** **62** (1), 163-165, 2015 *Impact Factor : 2.562 Citations 9*
5. Chugani HT, Ilyas M, Kumar A, Juhasz C, Kupsky WJ, Sood S, Asano E: Surgical treatment for refractory epileptic spasms: The Detroit series. **Epilepsia** **56**:1941-1949, 2015 *Impact Factor 4.57*
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16. Matsuzaki N, Nagasawa T, Juhasz C, Sood S, Asano E: Independent predictors of neuronal adaptation in human primary visual cortex measured with high-gamma activity. **Neuroimage** **59**:1639-1646, 2012 *Impact Factor : 6.357 Citations 12*
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84. Sood S, Canady AI, Ham, SD. Risk of Infection after Shunt Tap. Conference Proceedings of 62nd Annual Meeting of American Association of Neurological Surgeons (AANS), San Diego, California, April 1994.
85. Sood S, Kim SH, Diaz FG, Saxe AW. Nonsuture Microvascular Anastomosis. Conference Proceedings of 62nd Annual Meeting of American Association of Neurological Surgeons (AANS) San Diego, California, April 1994.
86. Canady AI, Sood S. Understanding Conflicting Imaging Studies in a Case of Sagittal Sinus Thrombosis. Conference Proceedings of the Annual Meeting of the American Society of Pediatric Neurosurgeons (ASPN), Nevis, West Indies, February 6-12, 1994.

87. Sood S, Canady AI. Shunt Tap Test for Shunt Malfunction. Conference Proceedings of the 61st Annual Meeting of the American Association of Neurological Surgeons (AANS), Boston, Massachusetts, April, 1993.
88. Canady AI, Sood S. Use of Drip Rate Analysis in Assessing Shunt Malfunction. Conference Proceedings of the American Society of Pediatric Neurosurgery (ASPN), St. Thomas, Virgin Islands. January, 1993.
89. Narayanan S, Sood S, Venketaraman S, Bhatia R. Head Controlled 10-Channel Functional Electrical Stimulation as an Upper Limb Orthosis in Hemiplegia. Conference Proceedings of 9th International Congress of Neurological Surgery 1989.
90. Sood S, Mahapatra AK, Bhatia R. Brainstem Auditory Evoked Responses in Craniovertebral Anomalies. Presented at the 38th Annual Meeting of the Neurological Society of India, Chandigarh 1988.

## **PRESENTATIONS**

### **Podium Presentations (refereed)**

1. Sandeep Sood, Endoscopic Corpus Callosotomy and Hemispherotomy. 40<sup>th</sup> Annual Meeting of American Society of Pediatric Neurosurgery, Jan 22-27, Maui, Hawaii, 2017.
2. Sandeep Sood, Pre operative Molding Helmets in Sagittal Craniosynostosis. 40<sup>th</sup> Annual Meeting of American Society of Pediatric Neurosurgery, Jan 22-27, Maui, Hawaii, 2017.
3. Sandeep Sood: Endoscopic Corpus Callosotomy. 2<sup>nd</sup> Epilepsy Surgery Techniques, Prague Czech Rep, Sept 16-17, 2016
4. Partha Chimaraju, Sandeep Sood, MD, Abilash Haridas, MD, Steven D Ham, MD. Can the Infection Rate and Hospitalization Cost be reduced with Use of Topical Antibiotic Powder during Surgery: Oral Presentations at the 34<sup>th</sup> Annual Meeting of Michigan Association of Neurological Surgeons, Bay Harbor, Michigan May 20-22, 2016.
5. Neena Marupudi, Sandeep Sood, MD. Lumbar-Peritoneal Shunting in Hydrocephalus: Preventing Chiari Malformations and Decreasing Shunt Revisions. Oral Presentation: 84<sup>th</sup> AANS Annual Scientific Meeting, Chicago, Illinois April 30-May 4, 2016.
6. Sandeep Sood. Bimanual Endoscopic Surgery with Suction Attached to Endoscope. 39<sup>th</sup> Annual Meeting of American Society of Pediatric Neurosurgery, Jan 31-Feb 5, Aruba,

2016.

7. Neena I. Marupudi, M.D., M.S., Aimee Luat, M.D., Steven D. Ham, D.O., Sandeep Sood, M.D Technical Nuances of Corpus Callosotomy: Microscope, Endoscope, and 3D For Minimally-Invasive Epilepsy Surgery. 45<sup>th</sup> Annual Meeting of AANS/CNS Section on Pediatric Neurological Surgery, Austin, Texas Dec 9, 2015.
8. Sandeep Sood, MD. How I made a Difference. 50<sup>th</sup> Golden Jubilee Neurosciences congress, New Delhi, Nov 23-24, 2015.
9. Sandeep Sood, MD, Abilash Haridas, MD, Arlene Rozzelle, MD, Steven D Ham, MD Endoscopic Corpus callosotomy and Hemispherotomy 49<sup>th</sup> Annual Meeting of the International Society of Pediatric Neurosurgery Izmir, Turkey, Oct 4-8<sup>th</sup>, 2015.
10. Sandeep Sood, MD, Abilash Haridas, MD, Arlene Rozzelle, MD, Steven D Ham, MD Can Molding Helmets improve head shape in patients having Sagittal Craniosynostosis without surgery?49<sup>th</sup> Annual Meeting of the International Society of Pediatric Neurosurgery Izmir, Turkey, Oct 4-8<sup>th</sup>, 2015.
11. Sood S. Complications of Hemispherectomy: Presented at Annual Meeting of American Society of Pediatric Neurosurgery, Fairmont Orchid, Hawai Jan 26- 30, 2015.
12. Marupudi N, Rozelle A, Sood S: Ninth Annual David Fromm Research and Wayne State Surgical Alumni Day: Intraoperative Intracranial Pressure Monitoring Prior to Craniofacial Reconstruction in Children with Craniosynostosis, Jan 28, 2015; Detroit,
13. Marupudi NI, Rozelle A, Ham S, Sood S. Intraoperative Intracranial Pressure Monitoring Prior to Craniofacial Reconstruction in Children with Craniosynostosis. *43<sup>rd</sup> Annual Meeting AANS/CNS Section on Pediatric Neurological Surgery, Amelia Island, FL, Dec 2-5, 2014. (Oral Presentation)*
14. Marupudi NI, Asano E, Sood S. Anatomic Hemispherectomy for Intractable Epilepsy: An Analysis of Long-term Outcomes and Incidence of Hydrocephalus in 70 Children. *43<sup>rd</sup> Annual Meeting AANS/CNS Section on Pediatric Neurological Surgery, Amelia Island, FL, Dec 2-5, 2014. (Oral Presentation)*
15. Marupudi NI, Asano E, Sood S. Anatomic Hemispherectomy for Intractable Epilepsy: An Analysis of Long-term Outcomes and Incidence of Hydrocephalus in 63 Children. *42<sup>nd</sup> Annual Meeting of the International Society for Pediatric Neurosurgery (ISPN), Rio de Janiero, Brazil, Nov 9-13, 2014. (Oral Presentation)*
16. Marupudi NI, Altinok D, Goncalves L, Ham SD, Sood S. Apparent Diffusion Coefficient Mapping Sequence Predicts Surgical Planes in Medulloblastomas. *Michigan Association of Neurological Surgeons (MANS) 2014 Annual Meeting, Crystal Mountain, MI, May 30-June 1, 2014. (Oral Presentation)*
17. Marupudi NI, Mell B, Ham SD, Sood S. Lumbar Atrial Shunts as Alternative Shunting System to Ventricular-Atrial and Lumbar-Peritoneal Shunts. *Michigan Association of*



*Neurological Surgeons (MANS) 2014 Annual Meeting, Crystal Mountain, MI, May 30-June 1, 2014. (Oral Presentation)*

18. Marupudi NI, Altinok D, Goncalves L, Ham SD, Sood S. Apparent Diffusion Coefficient Mapping in Medulloblastomas Predicts Non-Infiltrative Surgical Planes. *42<sup>nd</sup> Annual Meeting AANS/CNS Section on Pediatric Neurological Surgery, Toronto, Canada, Dec 3-6, 2013. (Oral Presentation)*
19. Marupudi N, Sood S: Children's Hospital of Michigan Surgical Services Research Day: Long-term Outcomes of Pediatric Patients after Endoscopic Fenestration and Shrinkage Fulguration of Suprasellar Arachnoid Cysts, Oct 30, 2013; Detroit, MI
20. Marupudi NI, Ham SD, Sood S. Long-term Outcomes of Pediatric Patients after Endoscopic Fenestration and Shrinkage Fulguration of Suprasellar Arachnoid Cysts. *Michigan Association of Neurological Surgeons (MANS) 2013 Annual Meeting, Crystal Mountain, MI, May 31-June 2, 2013. (Oral Presentation)*
21. L Rao, K Miller, K Bhambani, M Yanklevich, A Konski, D Altinok, S Sood, Is Biopsy Safe in diffuse intrinsic Pontine Gliomas. *26<sup>th</sup> Annual Meeting of Pediatric Hematology Oncology, April 24-27, 2013, Maimi.*
22. Altinok, Luis Gonzales, Dhanya Anand, Steven Ham, S Sood Use of Apparent Diffusion Coefficient Mapping in Medulloblastomas. Neena Marupudi, Deniz. *41<sup>st</sup> Annual Meeting of the International Society of Pediatric Neurosurgery, Sept , 2013, Germany.*
23. Marupudi NI, Ham SD, Sood S. Long-term Outcomes of Pediatric Patients after Endoscopic Fenestration and Shrinkage Fulguration of Suprasellar Arachnoid Cysts. *American Association of Neurological Surgeons (AANS) Annual Meeting, Miami, FL, April 14-18, 2012. (Oral Presentation)*
24. Sood S. Endoscopic microneurosurgery using rigid suction mounted endoscope. Presented at *39<sup>th</sup> Annual Meeting of International Society of Pediatric Neurosurgery at Goa, India, Oct 16-20, 2011*
25. Galarza M, Lage JFM, Sood S. Cerebral dysgenesis and Pediatric Chiari Type 1. Presented at *39<sup>th</sup> Annual Meeting of International Society of Pediatric Neurosurgery at Goa, India, Oct 16-20, 2011*
26. Sood S. Use of Molding helmet as primary treatment in sagittal Craniosynostosis. Presented at meeting of *American Society of Pediatric Neurosurgery, February, Hawaii, 2011.*
27. Sood S. Inadvertant Injection of medication into CSF Spaces, *American Society of Pediatric Neurosurgery, Hawaii, Jan 26-Feb 1, 2010.*
28. Sood S, Eishi Asano, Chugani H. Is it safe to sacrifice the vein of Labbe in temporal

lobe surgery for intractable epilepsy? Annual Meeting of American Society of Pediatric Neurosurgery, Maui, Hawaii, Jan 30-Feb 04, 2005.

29. Sood S Use of Lumbar Shunt for management of Slit Ventricles. Presented at the 33rd Annual meeting of Section on Pediatric Neurological surgery, AANS, Dec 1-4, San Fransico, 2004.
30. Sood S., Ham SD, Endoscopic Management of Suprasellar Arachnoid Cysts. Presented at meeting of American Society of Pediatric Neurosurgery, February, Honolulu Hawaii, 2005.
31. Sood S., Ham SD, Is Periventricular Gliosis Restrictive in chronic Shunt Patients? Presented at Annual Meeting, American Society of Pediatric Neurosurgery, Nevis. Jan. 27 – Feb. 1, 2002.
32. Sood S, Canady AI, Ham SD. Pressure Volume Index in Chronic Shunted Patients. Presented at Annual Meeting, American Society of Pediatric Neurosurgery, Nevis. Jan. 27 – Feb. 1, 2002.
33. 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.
34. Sood S, Canady AI, Ham SD: Evaluation of Shunt Malfunction Using Shunt Site Reservoir, American Society of Pediatric Neurosurgeons, 23rd Annual Meeting, Jan 30 - Feb 4, 2000
35. Q Lai, Y.C. Ding, J.P. McAllister, B.K. Koo, A.I. Canady, SD Ham, S Sood: Memory Impairment of Motor
36. Barami K, Sood S, Ham SD, Canady AI. Postural Changes in Intracranial Pressure in Chronically Shunted Patients. Paper presented at Annual Meeting of Congress of Neurological Surgeons, Washington State, Seattle, Washington, Oct 3-8, 1998.
37. Koo B, Canady A, Sood S. Direct Electrical Cortical Stimulation for Functional Mapping of Motor Cortex in Pediatric Epilepsy Surgery Candidates. Abstract, *Epilepsia*, Vol. 39, Suppl. 6, 1998.
38. Bhambhani K, Hamre M, Smietana S, Sood S, Guys M, Chuga P. Obesity in Survivors of Posterior Fossa PNET's and Ependymomas in Patients Diagnosed at Age Less Than Five. Paper presented at International Symposium on Pediatric Neuro-Oncology, May 1998, Rome, Italy.
39. Sood S, Ahmad H, Canady AI, Ham SD. 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.

40. Smietana S, Hamre M, Guys M, Sood S, Bhambhani K. Withdrawal of Anticonvulsant Medication in Children with Brain Tumors. Paper Presented at 26th Annual Meeting of Child Neurology Society, October 1997.
41. Sood S, Mehta VS. Converting AC-PC Line Coordinates to CT Coordinates for Functional Stereotaxis. Presented at the 44th Annual Meeting of Neurological Society of India, New Delhi, December 1995. *Neurology India* Vol 43: Suppl 4, pp 37.
42. Sood S, Mehta VS. Pediatric Brachial Plexus Injuries. Presented at the Annual Meeting of the Indian Society of Pediatric Neurosurgeons, New Delhi, October 1995.
43. Canady AI, Sood S. Understanding Conflicting Imaging Studies in a Case of Sagittal Sinus Thrombosis. Presented at the Annual Meeting of the American Society of Pediatric Neurosurgeons (ASPN), Nevis, West Indies, February 6-12, 1994.
44. Sood S, Canady AI. Shunt Tap Test for Shunt Malfunction. Presented at the 61st Annual Meeting of the American Association of Neurological Surgeons (AANS), Boston, Massachusetts, April, 1993.
45. Canady AI, Sood S. Use of Drip Rate Analysis in Assessing Shunt Malfunction. Presented at the American Society of Pediatric Neurosurgery (ASPN), St. Thomas, Virgin Islands. January, 1993.
46. Narayanan S, Sood S, Venketaraman S, Bhatia R. Head Controlled 10-Channel Functional Electrical Stimulation as an Upper Limb Orthosis in Hemiplegia. Presented at 9th International Congress of Neurological Surgery 1989.
47. Sood S, Mahapatra AK, Bhatia R. Brainstem Auditory Evoked Responses in Craniovertebral Anomalies. Presented at the 38th Annual Meeting of the Neurological Society of India, Chandigarh 1988.

**Poster Presentations (refereed):**

1. Sood S, Eishi A, Luat, A. Endoscopic Minimally Invasive Hemispherotomy and Corpus Callosotomy. *70<sup>th</sup> Annual Meeting of American Epilepsy Society, Houston, TX Annual Meeting, Dec 4-6, 2016.*
2. Marupudi NI, Mell B, Ham SD, Sood S. Lumbar Atrial Shunts Associated with Reduced Infection and Malfunction Rates. *Association of Neurological Surgeons (AANS) 82<sup>nd</sup> Annual Meeting, San Francisco, CA, Apr 5-9, 2014. (Poster Presentation)*
3. Marupudi NI, Mell B, Ham SD, Sood S. Lumbar Atrial Shunts in the Treatment of Hydrocephalus. *42<sup>st</sup> Annual Meeting AANS/CNS Section on Pediatric Neurological Surgery, Toronto, Canada, Dec 3-6, 2013. (Poster Presentation)*
4. Marupudi NI, Altinok D, Goncalves L, Anand D, Ham SD, Sood S. Use of Apparent Diffusion Coefficient Mapping in Medulloblastomas. *41<sup>st</sup> Annual Meeting of the International Society for Pediatric Neurosurgery (ISPN), Mainz, Germany, Sept 29-Oct*

- 3, 2013. (Poster Presentation)
5. Marupudi NI, Mathieson JA, Grover K, Ham SD, Sood S. Cystoperitoneal Shunting Resulting in Acquired Chiari Malformation: An Age-Related Phenomena in Pediatric Population. *Association of Neurological Surgeons (AANS) 81<sup>st</sup> Annual Meeting, New Orleans, LA, Apr 27-May 1, 2013. (Poster Presentation)*
  6. Marupudi NI, Mathieson JA, Grover K, Ham SD, Sood S. Acquired Chiari Malformation from Cystoperitoneal Shunting in the Pediatric Population. *41<sup>st</sup> Annual Meeting AANS/CNS Section on Pediatric Neurological Surgery, St. Louis, MO, Nov 27-30, 2012. (Poster Presentation)*
  7. Sood S Use of Lumbar Shunt for management of Slit Ventricles. Presented at the 33rd Annual meeting of Section on Pediatric Neurological surgery, AANS, Dec 1-4, San Fransico, 2004.
  8. 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.
  9. Sood S, Canady AI, Ham, SD. Risk of Infection after Shunt Tap. Presented at the 62nd Annual Meeting of American Association of Neurological Surgeons (AANS), San Diego, California, April 1994.
  10. Sood S, Kim SH, Diaz FG, Saxe AW. Nonsuture Microvascular Anastomosis. Presented at 62nd Annual Meeting of American Association of Neurological Surgeons (AANS) San Diego, California, April 1994.

## Invited Lectures/Presentations

### International/national

40 <sup>th</sup> Annual Meeting of The American Society of Pediatric Neurosurgery. Maui, Hawaii Invited Panelist Pre-Operative Molding Helmets in Sagittal Craniosynostosis	Jan 22-27, 2017
40 <sup>th</sup> Annual Meeting of The American Society of Pediatric Neurosurgery. Maui, Hawaii Invited Panelist Endoscopic Corpus Callosotomy and Hemispherotomy	Jan 22-27, 2017
1st AIIMS Pediatric Neurosurgery Operative Workshop, Delhi/India Evolution of Treatment of Sagittal Craniosynostosis	19-20 Jan 2017

2 <sup>nd</sup> Epilepsy Surgery Techniques Conference, Prague Czech Republic: Endoscopic Corpus Callosotomy and Hemispherotomy	Sept 16-17, 2016
Advances in Pediatric Neurosurgery <i>Key Note Speaker</i> ; Third NAPP (Neonatal and Pediatric Pearls) Conference Mumbai, India,	Feb 8-9, 2013
Diagnosis and Management of Pediatric Brain Tumors. Key Note Speaker. First Annual US-Qatari International Conference Doha, Qatar	Apr 29 –May 1, 2007
Slit Ventricle Syndrome. <i>Keynote Speaker</i> at International Consensus Conference Hydrocephalus 2005 Queenstown, New Zealand	Aug 15-17, 2005

#### Local/regional

Endoscopic Hemispherotomy and Corpus Callosotomy. Presentations at the 34 <sup>th</sup> Annual Meeting of Michigan Association of Neurological Surgeons, Bay Harbor, Michigan May 20-22, 2016.	May 22, 2016
Pediatric Epilepsy. Saturday Lecture Series in Pediatric Medicine. Wayne State University Children's Hospital of Michigan, Troy, Michigan	Jan 20, 2016
Pediatric Brain Tumor Management. St Joseph Mercy Hospital, Michigan	Jul 7, 2011
Pediatric Brain Tumors. Neuro-Oncology Update Detroit, Michigan	Sept 25, 2010
Management of Pediatric head injury- Role of Decompressive Craniotomy- Hurley Hospital, Michigan	May 26, 2010
Head Shape and Size. Neurosurgical Relevance. St Joseph Mercy Hospital Michigan	Sept 28, 2008
Big Head Small Head. Children Hospital Clinic Days. Lecture for Pediatricians, Detroit, Michigan	May 10, 2008

“Head On” Collision. Conference on Pediatric Traumatic Brain Injuries, Children’s Hospital of Michigan Livonia, Michigan	June 9, 2005
Henry Ford Hospital Lecture Series. Slit Ventricle Syndrome, Henry Ford Hospital, Detroit, Michigan	May 25, 2005.
Slit ventricle syndrome. <i>Keynote Speaker</i> at First STARS Symposium on Hydrocephalus, Detroit, Michigan	May 20-21, 2004

**Invited Seminars:**

1. Pediatric Neurosurgery: 29 <sup>th</sup> Pediatric Board Review, Holiday Inn, Ann Arbor, MI	Aug 24, 2016
2. Pediatric Neurosurgery. Pediatric Board Review, Holiday Inn, Ann Arbor, MI	Aug 26, 2015
3. Pediatric Neurosurgery. Pediatric Board Review, Holiday Inn, Ann Arbor, MI	Aug 26, 2014
4. Pediatric Neurosurgery. Pediatric Board Review, Holiday Inn, Ann Arbor, MI	Sept 17, 2013
5. Pediatric Neurosurgery. Pediatric Board Review, Holliday Inn, Ann Arbor, MI	Sept 17, 2012
6. Clinical Correlation Series for 1st year Medical Students. Gross Anatomy Dissection and instructions with correlation of anatomy to surgical and clinical aspects of Practice of Medicine One hour, Attendees 15 students.	1998

**Grand Rounds**

Grand Rounds in Neurosurgery: “Craniosynostosis.” <i>1.0 hours</i>	Jan 18, 2017
Grand Rounds in Neurosurgery: “Surgery of Posterior Fossa Tumors in Children” <i>1.0 hour</i>	May 18, 2016
Grand Rounds in Neurology: “Shunt Function & Hydrocephalus.” <i>1.0 hours</i>	Sept 25, 2015
Grand Rounds in Neurosurgery: “Nuances of Surgery on Pineal Tumors.”	Jun 17, 2015

<i>1.0 hours</i>	Grand Rounds in Emergency Medicine “Shunt Malfunction.”	May 6, 2015
<i>1.0 hours</i>	Grand Rounds in Neurosurgery: “Endoscopic Disconnective Surgery for Seizures.”	Dec 10, 2014
<i>1.0 hours</i>	Grand Rounds in Neurology: “Neurosurgical Emergencies.”	Aug 29, 2013
<i>1.0 hours</i>	Grand Rounds in Neurosurgery: “Craniosynostosis.”	Aug 28, 2013
<i>1.0 hours</i>	Grand Rounds in Neurosurgery: “Nuances of Surgery on Pineal Tumors.”	Feb 20, 2013
<i>1.0 hours</i>	Grand Rounds in Neurosurgery “Spinal Dysraphism & Fetal Neurosurgery”	May 2, 2012
<i>1.0 hours</i>	Grand Rounds in Pediatric Intensive Care Neurosurgery “Pediatric Brain Tumor management”	Sept 14, 2011
<i>1.0 hours</i>	Grand Rounds in Pediatrics “Management of Neurosurgical patients”	July 24, 2011
<i>1.0 hours</i>	Grand Rounds in Pediatrics Intensive Care. “Pediatric Head Injury”	Sept 8, 2011
<i>1.0 hours</i>	Grand Rounds in Pediatric Neurology “Pediatric Brain Tumor management”	July 15, 2011
<i>1.0 hours</i>	Grand Rounds in Neurosurgery: “Craniosynostosis.”	June 7, 2011
<i>1.0 hours</i>	Grand Rounds in Pediatric Radiology “Molding Helmet in Craniosynostosis”	Dec , 2010
<i>1.0 hours</i>	Grand Rounds in Pediatrics Intensive Care. “Epilepsy Surgery in Pediatric Patients”	Dec 9, 2011
<i>1.0 hours</i>	Grand Rounds in Pediatrics Intensive Care. “Pediatric Head Injury- Decompressive Craniotomy”	Aug ,2010
<i>1.0 hours</i>	Grand Rounds in Pediatrics Anesthesia. “Pediatric Head injury”	Feb 11, 2009
<i>1.0 hours</i>	Grand Rounds in Pediatric: “Epilepsy Surgery”	Aug 29, 2008
<i>1.0 hours</i>	Grand Rounds in Pediatric Neurology “Slit Ventricle Syndrome”	May 29, 2008
<i>1.0 hours</i>	Grand Rounds in Pediatric Intensive Care: “Epilepsy Surgery”	April 2, 2008
<i>1.0 hours</i>	Grand Rounds in Pediatric Surgery “Pediatric Brain Tumor- Diagnosis & Management”	Jan 12, 2008

<i>1.0 hours</i> Grand Rounds in Pediatric Intensive Care: “Slit Ventricle Syndrome”	Oct 4, 2007
<i>1.0 hours</i> Grand Rounds in Pediatric Neurology “Moya Moya Disease”	May 24, 2007
<i>1.0 hours</i> Grand Rounds in Pediatric Anesthesia “Slit Ventricle Syndrome”	Nov 22, 2006
<i>1.0 hours</i> Grand Rounds in Neonatal Intensive Care: “Head Injury”	Mar 29, 2004
<i>1.0 hours</i> Grand Rounds in Pediatric Anesthesia “Head Injury”	Mar 12, 2003
<i>1.0 hours</i> Grand Rounds in Neurosurgery “Slit Ventricle Syndrome”	2003
<i>1.0 hours</i> Grand Rounds in Pediatric Surgery “Trauma Lecture”	Nov 12, 2002
<i>1.0 hours</i> Grand Rounds Pediatric Anesthesia “Head Injury in Children”	April 7, 1999
<i>1.0 hours</i> Grand Rounds in Neurosurgery “Slit Ventricle Syndrome”	1999
<i>1.0 hours</i> Grand Rounds in Neurosurgery “Chiari Malformations”	1999
<i>2.0 Hours</i>	