

Raghuram Sampath MD

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EDUCATION

1996 - 2002	MD, University of Delhi, India
2004 - 2006	MRCs England, Parts 1 & 2
2012	Post Doc Audit, Neuroendocrine & Neuroscience, Saint Louis University

APPOINTMENTS & TRAINING

Instructor/Fellow	Skull Base Neurosurgery , University of Colorado, 2015-2016
Chief Resident	Neurosurgery , St Louis University Hospital, 2013-2015
Resident	Neurosurgery , St. Louis University Hospital, 2009-2015
Research Fellow	Neurosurgery , Louisiana State University, Shreveport, 2008-2009
Internship	General Surgery , The NY Hospital Queens/Cornell Univ, 2007-2008
Junior Resident	Neurosurgery , Univ. of Leeds Teaching Hospital (England), 2005-2006
International Research Scholar	Neuro - Oncology , H. Lee Moffitt Cancer Center & Research Institute, University of South Florida, 2005-2007
Junior Resident	Urology & Transplantation , Guy's Hospital & GKT School of Medicine, London, 2004-2005
Clinical Attachment	Neurosurgery & Uro – Neurology , National Hospital for Neurology & Neurosurgery, London, 2004
Clinical/Research Assistant	General Surgery , University Hospital of Hartlepool, UK, 2004
Transitional year	University College of Medical Sciences, Univ of Delhi, India, 2001-2002

EXAMINATIONS COMPLETED

USMLE	Step 1 (2003), Step 2 CK (2003), Step 2 CS (2005), Step 3 (2006)
MRCs England	Part 1 (2004), Part 2 (2006)
PLAB England	Part 1(2003), Part 2 (2003)

COURSES ATTENDED

- 6 Pillar Subcortical Surgery course & 2nd Annual meeting of SSG, Park City 2015
- 1st Annual Microscopic and Endoscopic Skull Base course, Denver, 2015
- Microscopic and Endoscopic Skull Base Surgery & Vascular Bypass course, Pittsburgh 2014
- Spine Symposium Course, St Louis 2014
- ONE Neurosurgery course, Branson 2014
- AANS/ASTRO Stereotactic Radiosurgery course for Senior Residents, New York 2014
- AANS/CNS Exit strategy course for senior residents, Chicago 2014
- Masters in Skull base course, Tampa, 2014
- Combined Skull base and Ventricular Endoscopy course, St Louis 2013
- CNS 3D Neuroanatomy course, Houston 2013

- Essentials of Spinal Microsurgery, St. Louis 2012
- Impact of Fiber Dissection for Intrinsic Brain Tumor Surgery, St. Louis 2012
- Surgical Treatment of the Cranio-cervical Junction, Cleveland 2012
- Technical Nuances in Operative Neurosurgery-Cranial and Spine, St. Louis 2012
- Surgical Approaches to Skull Base, St. Louis 2012
- Management of the Neuro-Trauma patient, Pittsburgh 2012
- AANS/CNS Cerebrovascular Section Endovascular practicum, New Orleans 2012
- Innovative Technologies in Complex Lumbar Spine Surgery, St. Louis 2011
- Focused Abdominal Sonogram for Trauma (FAST), New York 2007
- Neuroradiology & Functional Neuroanatomy; 6th Annual course, London, England 2006
- Microsurgical approaches to the Brain, Ventricles and Skull base, Gainesville 2006
- Core Skills in Neurosurgery, Royal College of Surgeons of England 2005
- Intracranial and Spinal Anatomy, Royal College of Surgeons of England 2005
- Neuroradiology, Royal College of Surgeons of England 2005
- Approaches to Intracranial Surgery, Royal College of Surgeons of England 2005
- Basic Surgical Skills, Royal College of Surgeons of England 2005
- Advanced Cardiac Life Support 2007
- Advanced Trauma Life Support, American College of Surgeons 2005
- Clinical Research Skills Course. London 2005
- Advanced Cardiac Life Support, Resuscitation Council UK 2005
- Royal Society of Medicine Clinical Neurosciences Section, London 2005
- The Neuro ICU patient, The visual system, Mononeuropathies, Neuro-ophthalmology
- Study Design & Understanding Data, Basic Statistical analysis: Estimation, Significance tests & Sample size, Critical Appraisal & Systematic Reviews; Research Protocol writing, UCL London, UK 2004

PUBLICATIONS

Kemp JM, **Sampath R**, Kesarwani R, Abdulrauf SI. Trans anterior commissural interforaminal approach to third ventricle. **(In preparation)**

Sampath R, Katira K, Nanda A, Vannemreddy P. Quantifying Sulcal and gyral topography in relation to deep seated and ventricular lesions: Cadaveric study for basing surgical approaches and review of literature. *Br J Neurosurg* 2014; 16;1-4

Sampath R, Katira K, Shi R, Vannemreddy P, Patil S, Nanda A. Radio-Anatomic Measurements and Statistical Generation of a Safe Surgical Corridor to Enter the Ventricular Trigone while Avoiding Injury to the Optic Radiations. *J Neurol Surg A Cent Eur Neurosurg* 2014; 25

Sampath R, Glenn C, Patil S, Vannemreddy P, Gardner L, Nanda A, Guthikonda B. A novel method of identifying the internal acoustic canal in the middle fossa approach in a Cadaveric study – the rule of 2s. *J Neurol Surg B* 2012; 73(04): 253-260

Sampath R, Wadhwa R, Taufik T, Nanda A, Guthikonda B. Stereotactic placement of ventricular catheters: Does it affect proximal malfunction rates? *Stereotact Funct Neurosurg.* 2012 Mar 2;90(2):97-103.

Beckner M, **Sampath R**, Flowers A, Katira K, D'Souza D, Patil S, Patel RB, Nordberg ML, Nanda A. Low Level Amplification of Oncogenes Correlates Inversely with Age for Patients with Non-Typical Meningiomas. *World Neurosurgery*, 2011 Nov;

Beckner M, **Sampath R**, Fowler AB, Katira K, D'Souza D, Patil S, Patel RB, Nordberg ML, Nanda A. Total copy number for 19 amplified genes in atypical/aggressive meningiomas correlates inversely with patient age. *FSAEB journal*, Vol 25; 9650, 2011

Sampath R, Vannemreddy P, Nanda A. Fusiform aneurysms of the ACoM artery: illustrative series of 5 cases with operative techniques. *Neurosurgery*. 2010 Dec;67(2 Suppl Operative):407-15.

Beckner ME, Katira K, **Sampath R**, Patil S, Nordberg ML, Nanda A. Evaluation of microscopic criteria used in selection of archived meningiomas for pending studies of tumor genomes. *J Neuropathol & Exp Neurology*, 69:5; 559-560, 2010.

Sampath R, Vannemreddy P, Nanda A. Microsurgical excision of colloid cyst with favorable cognitive outcomes and short operative time and hospital stay: operative techniques and analyses of outcomes with review of previous studies. *Neurosurgery*. 2010 Feb;66(2):368-74.

Raghuram S, Godbole HC, Dasgupta P. Laparoscopic Nephrectomy: The New Gold Standard ? *Int Journal of Clinical Practice* 2005 Feb; 59(2): 128

Sahai A, **Raghuram S**, Lawrence M, Khan MS, Dasgupta P. Laparoscopic pyeloplasty with concomitant pyeopyelostomy in a duplicated collection system. *Urology* 2006 Jan;67(1): 199.

Ahmed K, **Sampath R** and Khan MS. Current trends in the diagnosis and management of the renal nutcracker syndrome. *Eur J of Vasc Endovasc Surg* 2006 Apr; 31(4): 410-6.

Sampath R, Raychaudhuri B, Sahai A, Scott H, Dasgupta P. Laparoscopic Nephrectomy in a patient with Ankylosing Spondylitis: Surgical and Anaesthetic challenges. *J Laparoendosc Adv Surg Tech A*. 2007 Apr;17(2):223-5

Abstracts & Presentations

A Lin, Markarian M, **Sampath R**, Del Core M, Elbabaa S. Dural tears in craniostylosis repair are more common in unicoronal craniostylosis. Amr Cleft Palate-Craniofacial Assotn Annual meeting, Indianapolis 2014.

Brem S, **Sampath R**, Yu D, Obadio MW, Staller A, Ewend M. Stereotactic volumetric resection, intracavitary carmustine wafers, and radiation therapy for brain metastases. ASCO Annual meeting, Chicago 2011

Beckner M, **Sampath R**, Flowers A, Katira K, D'Souza D, Patil S, Patel RB, Nordberg ML, Nanda A. Low Level Amplification of Oncogenes Correlates Inversely with Age for Patients with Non-Typical Meningiomas. Experimental Biology, Washington DC, 2011

Beckner M, **Sampath R**, Fowler AB, Katira K, D'Souza D, Patil S, Patel RB, Nordberg ML, Nanda A. Total copy number for 19 amplified genes in atypical/aggressive meningiomas correlates inversely with patient age. Amr Soc of Exp Biology 2011.

Y.S. Mohan, M Abdulhak, J Sweeney, MD, **R Samapth**, K Eichholz, S Abdulrauf. MAST-Pushing the limits. Its usage in the excision of high cervical and foramen magnum lesions- A descriptive operative anatomical dissection model for surgical exposure. CNS 2010, San Fransisco

Beckner ME, **Sampath R**, Patil S, LeBlanc JF, Katira KM, Nanda A, Nordberg ML. Nuclear material from brain tumors for molecular studies is available in their ultrasonic aspiration solutions. J Molecular Diagnostics 11:665, 2009.

Sampath R, Glenn C, Patil S, Vannemreddy P, Gardner, Nanda A, Guthikonda B. A novel method of identifying the internal acoustic canal in the middle fossa approach in a Cadaveric study – the rule of 2s. CNS 2009, NASBS 2009, AANOS 2010

Sampath R, Katira K, Shi R, Vannemreddy P, Patil S, Nanda A. Radio-Anatomic Measurements and Statistical Generation of a Safe Surgical Corridor to Enter the Ventricular Trigone while Avoiding Injury to the Optic Radiations. CNS 2009 New Orleans

Sampath R, Katira K, Nanda A, Vannemreddy P. Quantifying Sulcal and gyral topography in relation to deep seated and ventricular lesions: Cadaveric study for surgical approaches & literature review. [CNS 2009 New Orleans](#)

Sampath R, Wadhwa R, Taufik T, Nanda A, Guthikonda B. Stereotactic placement of ventricular catheters: Does it affect proximal malfunction rates? [CNS 2009 New Orleans; Am Society for Stereot & Functn Neurosurgery 2010 New York](#).

Sampath R, Vannemreddy P, Nanda A. Fusiform aneurysms of the ACoM artery: illustrative series of 5 cases with operative techniques. [AANS 2009 San Diego](#)

Sampath R, Vannemreddy P, Nanda A. Microsurgical excision of colloid cyst with favorable cognitive outcomes and short operative time and hospital stay: operative techniques and analyses of outcomes with review of previous studies. [AANS 2009 San Diego](#)

Sampath R, Javalkar V, Vannemreddy P, Nanda A. Surgical versus Radiosurgical management of small (<3cm) intracranial meningiomas: analyses of outcomes. [AANS 2009 San Diego](#)

Brem S, **Sampath R**, Panattil GJ, Chamberlain MC. Local control of brain metastases after craniotomy, radiation & implantable chemotherapeutic wafers. [AANS 2006 San Francisco](#)

Sampath R, Brem S, Obadia MW, Murtagh R. MR Findings to Differentiate Physiological responses from Neoplastic Progression or Brain Abscess in Patients with brain tumors Treated with Implantable Chemotherapeutic-Wafers. [CNS 2006 Chicago](#)

Sahai A, **Raghuram S**, Lawrence M, Khan MS, Dasgupta P. Laparoscopic pyeloplasty with concomitant pyeopelostomy in a duplicated collection system. [WCE & SWL 2005 Amsterdam](#)

Raghuram S, Raychaudhuri B, Sahai A, Scott H, Dasgupta P. Laparoscopic Nephrectomy in a patient with Ankylosing Spondylitis: Surgical and Anaesthetic challenges. [WCE & SWL 2004 Mumbai](#)

Sahai A, **Raghuram S**, Challacombe B, Dasgupta P. Video consent: A pilot study of informed consent in Laparoscopic Urology and its impact on patient satisfaction. [WCE & SWL 2004 Mumbai](#)

Y.S. Mohan, J.M. Sweeney, S Patra, **R Sampath**, A Kumar, S.I. Abdulrauf, J Rock. Endoscope assisted tentorial splitting; an anatomical study describing a minimally invasive bi-tentorial approach to the lateral brain stem, pineal region, and superior cerebellar surface. [Henry Ford Hospital, Detroit, USA, 2010 \(presentation\)](#)

R Sampath. Survival and functional outcomes after use of BCNU wafers in the treatment of Primary vs. Recurrent malignant Gliomas. [The Leeds Teaching Hospitals 2006 Leeds, UK \(presentation\)](#)

R Sampath. Stenosis rates of transplant renal arteries in live vs. cadaveric donor kidneys and efficacy of angioplasty in improving renal function. [Guy's Hospital 2004 London, UK \(presentation\)](#)

R Sampath. Specificity, sensitivity & safety of herniograms for inguinal hernias. [University Hospital Of Hartlepool 2004, Hartlepool, UK \(presentation\)](#)

R Sampath. Subtypes of GBM and prognosis. St. Louis University Hospital, Tumor Board meeting. 2013 *(presentation)*

Invited speaker

Gliadel advisory board

Research Methodology Courses

Study Design & Understanding Data, Basic Statistical analysis: Estimation, Significance tests & Sample size, Critical Appraisal & Systematic Reviews; Research Protocol writing. [University College London, UK 2004](#)

Clinical Research Skills Course. GKT School of Medicine, London, UK 2005

ADMINISTRATIVE EXPERIENCE

2013 - 2015	Chief Resident in Neurosurgery
2008 - 2009	Restructuring Skull Base Laboratory; Research Coordinator; Operating Microscope procurement for Research; <u>Louisiana State University Health Sciences Center</u>
2007- 2008	General Surgery Intern House Staff Representative <u>NY Hospital Medical Center Queens, Cornell University</u>
1996 - 2002	Polio Center Supervisor <u>National Polio Eradication Program in India</u>