

**Neeraj Chaudhary MD/MBBS, MRCS(UK), FRCR(UK), FAHA, FEBNI(EU)**  
Associate Professor of Neurointervention  
Neurointerventional Radiology (NIR) & Neuro-Diagnostic Radiology (NDR) Adult & Pediatrics  
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## **Education and Training:**

### Undergraduate Education

07/85 – 08/89 South Point High School, Kolkata, India

### Graduate Education

08/89 – 07/96 Bachelor of Medicine & Bachelor of Surgery (M.B.B.S).  
University of Calcutta, Kolkata, India

### Postgraduate Education

09/94 – 08/95 Internship  
Medical College & Hospitals  
Kolkata, India

09/95 – 07/96 Staff Physician in a private Urology clinic with  
Dr. Shivaji Basu MD FRCS in Kolkata, India

08/96 – 07/97 Gap in training – Completion of PLAB test (USMLE equivalent in  
UK) with relocation to UK

08/97 – 07/98 House Officer – Residency General Surgery  
General Surgical Rotation  
Prince Charles Hospital NHS Trust  
South Wales, United Kingdom

08/98 – 01/01 Senior House Officer – **Residency General Surgery**  
Basic Surgical Training Rotation  
Hull & East Yorkshire Hospitals NHS Trust  
Hull, United Kingdom

02/01 – 08/01 Senior House Officer – Residency Orthopedic Surgery  
Heartlands & Solihull University Hospitals NHS Trust  
Birmingham, United Kingdom

09/02 – 09/06	Specialist Registrar (SpR) – <b>Residency Radiology</b> King’s College Hospital NHS Trust London, United Kingdom
10/06 – 08/07	<b>Fellowship</b> <b>Neuro-diagnostic Radiology (NDR)</b> Adult & Peds (12 months) National Hospital for Neurology & Neurosurgery and Great Ormond Street Children’s Hospital London, United Kingdom
09/07 – 08/08	<b>Fellowship</b> <b>Neurointerventional Radiology (NIR)</b> Adult & Peds (12 mths) National Hospital for Neurology & Neurosurgery and Great Ormond Street Children’s Hospital London, United Kingdom
09/08 – 08/09	<b>Fellowship</b> <b>Neurointerventional Radiology (NIR)</b> Adult and Peds (12 mths) University of Michigan Health System Ann Arbor, MI

**Certification and Licensure:**

09/2008 – Present	Michigan State Full Medical License USA – 4301092784
08/1997 – Present	General Medical Council (UK License) – 4754420 (Specialist Register enrolled in the UK)
08/1996 – Present	Indian Medical Council (Indian License) – MC/523/93
05/2000 – Present	United Kingdom General Surgery Board Member of Royal College of Surgeons (MRCS) UK
05/2006 – Present	United Kingdom Radiology Board Fellow of the Royal College of Radiologists (FRCR) UK
10/2016 - Present	ABMS Diagnostic Radiology (American Board of Radiology) DABR (Diplomate of the American Board of Radiology)
4/2018 - Present	Neuro-Endovascular Surgery (NES) CAST certification USA: 159
10/2018 - Present	Neuroradiology (CAQ American Board of Radiology)
01/2019 - Present	EBNI, Diploma in Neurointervention (UEMS, ESMINT Europe)

## **Academic, Administrative and Clinical Appointments:**

### Clinical Appointments

09/01 – 08/02                      Clinical Research Fellow, Spine Surgery  
University Hospitals of Leicester NHS Trust  
Leicester, United Kingdom

### Academic Appointments

2021 – Present                      Industry partnership and Pediatric NIR committee member at  
International Pediatric Stroke Organization (IPSO)

2020 – Present                      CBTDDC/SIGN – Children’s Brain Tumor Drug Delivery  
Consortium/Society for Image Guided Neurointervention -  
collaborative society founding member

2020 – Present                      Associate Editor – BMC Neurology

2018 – Present                      Chair & Founder of Pediatric Neurointerventional Surgery section  
Within Society of Neurointerventional Surgery (SNIS)

2018 – Present                      Member reviewer of Educational Exhibits at RSNA in the  
Neuroradiology section

2017 – Present                      Scientific Editorial Board: Head of Neuro Section (NIR & NDR)  
European Radiology Journal (Largest Radiology Journal in Europe  
– Impact Factor 4.4)

2015 – Present                      Scientific Editorial Board Member: Neuro Section  
European Radiology Journal (Largest Radiology Journal in Europe  
– Impact Factor 4.4)

09/09 – Present                      Associate Professor  
Neurointerventional Radiology (NIR), Department of Radiology &  
Neurosurgery  
University of Michigan Health System, Ann Arbor, MI

09/09 – Present                      Associate Professor  
Neurointerventional Radiology (NIR), Department of Radiology &  
Neurosurgery  
Veteran’s Affairs Medical Center, Ann Arbor, MI

## **Grants:**

### Approved

R21 – NIH NINDS Exploratory Neuroscience research  
Phenomenon of ultra-early erythrolysis in Intracranial hemorrhage in Humans on MRI  
Sponsor: NINDS Exploratory Neuroscience research  
GRANT #: 5R21 NS104663-02  
Role: UM Principal Investigator  
Funding Dates: 09/30/2018 – 08/31/2020  
Funding Amount: \$427,625

R21 – NIH  
Brain Iron Quantification Based on MRI in Intracerebral Hemorrhage  
Sponsor: Health and Human Services, Department of National Institutes of Health  
Grant #: 13-PAF04409 R21NS099684  
Role: UM Principal Investigator  
Funding Dates: 07/01/2017 – 03/31/2019  
Funding Amount: \$427,625

R01 NS108042 Pandey (PI) 09/30/2018-07/31/2023  
Novel Ultrasonic Technique for the Treatment of Hemorrhagic Stroke  
Major Goals: 1) Design and construct a portable histotripsy ICH system with real-time 3D feedback that can transcranially liquefy and drain ICH with high precision and efficacy. 2) Validate the targeting precision, treatment location profile, and efficacy of the transcranial histotripsy ICH system in human ICH phantom and fresh human cadaver. 3) Validate the safety and efficacy of the transcranial histotripsy ICH system in an established in vivo porcine ICH model.  
Role: CoI

R01 EB028309 Xu (PI) 08/01/2019-04/30/2023  
Transcranial Magnetic Resonance guided Histotripsy (tcMRgHt)  
Major Goals: The goal of this project is to develop the first integrated tcMRgHT system for treatment of brain tumors.  
Role: Co-Investigator

SOW #ML40787 Chaudhary (UM PI) 02/06/2019-03/31/2022  
INC Research/ F. Hoffmann-La Roche AG  
CTSU\_NSS Timeless Study (Radiology)  
Major Goals: To evaluate the efficacy and safety of tenecteplase compared with placebo in patients with acute ischemic stroke (AIS) and evidence of salvageable tissue on their baseline computed tomography perfusion (CTP) scan or magnetic resonance imaging (MRI) who present in the 4.5-to24-hour time window with an internal carotid artery (ICA) or middle cerebral artery (MCA; M1 or M2) occlusion.  
Role: PI

**Completed projects:**

DEFUSE 3  
Sponsor: StrokeNet  
Grant#: 16-PAF02440  
Role: UM Principal Investigator

Funding dates: 8/16 – 8/18  
Funding Amount: per enrolled patient

#### Apollo Study

Sponsor: Covidien/Medtronic Post Market Study  
Grant #: 15-PAF05520  
Role: UM Principal Investigator  
Funding Dates: 8/28/2015 – 10/30/2016  
Funding Amount: \$25,000

#### SNIS Fellowship Grant

Sponsor: Society of Neurointerventional Surgery (SNIS)  
Grant #: 12-PAF07013  
Role: UM Principal Investigator  
Funding Dates: 06/01/2012 – 06/30/2015  
Funding Amount: \$22,750

#### Radiology Departmental Seed Grant

Sponsor: Department of Radiology University of Michigan  
Role: UM Principal Investigator  
Funding Dates: 07/01/2010 – 06/30/2012  
Funding Amount: \$25,000

#### Submitted

RO1: Imaging biomarkers on MRI in human ICH: Correlation with Natural History  
Sponsor: NIH

### **Honors and Awards:**

- 2007            Best Speaker Award  
                  Computed tomography guided percutaneous biopsy of deep face and skull base lesions. **Chaudhary N**, Connor SEJ. European Society of Head and Neck Radiology (ESHNR), Oslo, Norway
- 2007            Best Poster Award  
                  Cranial nerve denervation atrophy and Imaging features: A pictorial review. **Chaudhary N**, Woo E, Fareedi S, Connor SEJ. European Society of Head and Neck Radiology (ESHNR), Oslo, Norway
- 2011            Magna Cum Laude  
                  Endovascular Management of Symptomatic Cerebral Vasospasm with Transluminal Balloon Angioplasty. Chen J, S Kathuria, **N Chaudhary**, J Gemmete, AS Pandey, D Gandhi. Electronic poster. American Society of Neuroradiology, Seattle, Washington

## Memberships and Professional Societies/Committee:

2000 – Present	Royal College of Surgeons UK
2004 – Present	Royal College of Radiologists UK
2005 – Present	Radiological Society of North America (RSNA)
2005 – Present	British Society of Neuroradiology (BSNR)
2009 – Present	Society of Neurointerventional Surgery (SNIS)
2009 – Present	American Society of Neuroradiology (ASNR)
2009 – Present	American College of Radiology (ACR)
2011 – Present	UK Neurointerventional Group (UKNG)
2011 – Present	World Federation of Interventional & Therapeutic Neuroradiology (WFITN)
2011 – Present	European Society of Minimally Invasive Neurological Therapy (ESMINT)
2015 – Present	American Stroke Association/American Heart Association (ASA/AHA)
2015 – Present	World Stroke Organization (WSO)
2016 – Present	European Stroke Organization (ESO)
2015 – Present	Society of Therapeutic Neuro-Intervention (STNI)

## Teaching:

### Undergraduate Medical Students

- University of Birmingham
- University of Leicester
- Guys King's St Thomas Medical School London
- University College London

### Residents/Fellows Mentoring

#### *Neurointerventional Radiology NIR, University of Michigan:*

2011 – 2012	Augusto Elias, M.D.
2012 – 2013	Farid Aladham, M.D. Tristram Horton, M.D.
2013 – 2014	Venu Vadlamudi, M.D. Chris Roark, M.D. William Stetler, M.D.
2014 – 2015	Chris Roark MD Ravi Shastri MD
2015 – 2016	Ravi Shastri MD Julius Griauzde MD
2016 – 2017	David Andrew Wilkinson MD

Luis Savastano MD

*Neuro-Diagnostic Radiology NDR, University of Michigan:*

2009 – 2010	Ryan Dvorak, M.D. Aaron Gibson, D.O. Suyash Mohan, M.B.B.S. Seetha Vakhariya, M.D.
2010 – 2011	Amit Balgude, M.D. Augusto Elias, M.D. Nickoleta Hoefling, M.D. Ajaykumar Morani, M.D. Amir Moubayed, M.D.
2011 – 2012	Asif Abdullah, M.D. Mohammad Arabi, M.D. Thomas Bryson, M.D. Alex Dombrowski, M.D. Philip Lobert, M.D.
2012 – 2013	Alex Brown, M.D. William Godfrey, M.D. Krishna Perni, M.D. Justin Waters, M.D. Page Wang, M.D.
2013 – 2014	Mark Buehler II, M.D. Aaron Hurlbut, M.D. I. Rekha Messa, M.D. Ryan Nichols, M.D. Sachin Patel, M.D. Ravi Shastri, M.D.
2014 – 2015	Anthony Livorine MD Dylan Samarwikarma MD Colin McKnight MD Rickin Shah MD Michael Adix MD Abhijit Patil MD
2015 – 2016	B. Dan Pipitone Jeremy Clark Nathan Hill Gretchen Quinones Barbosa Eric Luao Salman Mohiuddin

2016 – 2017            Jason Kramer  
                              Ezra Hagerty  
                              Andrea Moore  
                              Karl Kado  
                              Julius Griauzde  
                              Ciprian Gradinaru

### Reviewer for Peer-reviewed Journals

- European Radiology – Neuro Section Head on the Scientific Editorial Board
- Journal of Cerebral Blood Flow & Metabolism (JCBFM)
- Academic Radiology
- Postgraduate Medical Journal
- PLoS One
- Neurosurgery
- Journal of Neurointerventional Surgery
- Neurosurgery
- Journal of Neurosurgery
- World neurosurgery

### **Society Membership**

- SNIS – Society of Neurointerventional Surgery – Senior Member
- ASA/AHA – American Heart & Stroke Association
- ESMINT – European Society of Minimally Invasive Neurological Tehrapy
- RSNA – Radiological Society of North Anmerica
- ASNR – American Society of Neuroradiology
- ASPNR – American Society of Pediatric Neuroradiology
- ESO – European Stroke Organization
- WSO – World Stroke Organization
- WFITN – World Federation of Interventional Neurotherapeutics
- AANS/CNS – American Association of Neurosurgeons/Cerebrovascular Neurosurgery
- STNI – Society of Therapeutic Neurointervention
- UKNG – UK Neurointerventional Group

### Teaching Experience

#### *International*

04/07            National Hospital for Neurology & Neurosurgery  
                      London, England  
                      Teaching OR nurses on neuroangio rota – Technical aspects of endovascular cerebral aneurysm coiling procedures.



- 05/07 National Hospital for Neurology & Neurosurgery  
London, England  
Teaching pediatric neurology and neurosurgery residents - Pediatric cerebral neurovascular abnormalities.
- 06/07 National Hospital for Neurology & Neurosurgery  
London, England  
Teaching anesthesiology residents – Basics of CT and MR and plain film interpretation.
- 09/14 Apollo Neurointerventional Course International (ANIRCI 2014) – Cerebral Arterio-Venous Shunts in Adults, Chennai, India
- 12/14 Advanced Neurointerventional Course (ANIC 2014) – organized jointly by ESMINT and Swiss Neuro Foundation – Barcelona. Lecture and workshop; Topic: Follow up Observations (reverse remodeling and healing) and Management of Recurrent Aneurysm

*National*

- 10/11, 10/12, 10/13, 10/14 Michigan State Medical Society (MSMS) Annual Meeting, Somerset Inn, Troy, Michigan. Update in Cerebrovascular Disease Management Annual course. Course Director for 2014 session.

*Institutional*

- 9/10 Nurse Practitioners of Michigan – Acute Stroke Intervention: An Update  
Grand Rapids, Michigan USA
- 01/11 University of Michigan  
Ann Arbor, MI  
Annual Neurovascular lectures for Neurosurgery Residents in the Neurosurgery Programme at University of Michigan – Diagnostic Cerebral and Spinal Angiography.
- 04/11 University of Michigan  
Ann Arbor, MI  
Neurology Grand Rounds, Unique angiographic appearance of venous sinuses in the spinal canal in the context of spinal dural fistula.
- 05/11 University of Michigan  
Ann Arbor, MI  
Neurology Patient Conference, the same patient with spinal dural fistula was presented.
- 08/11 University of Michigan  
Ann Arbor, MI  
Neurology Patient Conference: CCF and endovascular management.

- 08/11 University of Michigan  
Ann Arbor, MI  
Neurology Grand Rounds, 3<sup>rd</sup> Nerve Palsy.
- 09/11 University of Michigan  
Ann Arbor, MI  
Annual Neurovascular lectures for Neurosurgery Residents in the Neurosurgery Programme at University of Michigan – Diagnostic Cerebral and Spinal Angiography.
- 11/11 University of Michigan  
Ann Arbor, MI  
Ophthalmology Grand Rounds, 3<sup>rd</sup> Nerve Palsy.
- 07/12 University of Michigan  
Ann Arbor, MI  
Annual Neurovascular lectures for Neurosurgery Residents in the Neurosurgery Programme at University of Michigan – Diagnostic Cerebral and Spinal Angiography.
- 08/12 University of Michigan  
Ann Arbor, MI  
Neurosurgery first year Residents teaching as part of their Neuro-critical care curriculum; Basic considerations in cerebral and spinal angiography.
- 09/13 University of Michigan  
Ann Arbor, MI  
Neurosurgery residents teaching: Diagnostic Cerebral Angiography - exposure in simulation lab at Towsley Center.
- 09/13 University of Michigan  
Ann Arbor, MI  
Weekly Neuroradiology Interesting Case Conference – for Neuroradiology/Radiology Residents & Fellows.
- 07/14 University of Michigan  
Ann Arbor, MI  
Annual Neurosurgery Resident Lectures: Cerebrovascular Anatomy – An Angiographic Perspective.
- 08/14 University of Michigan  
Ann Arbor, MI  
Neurointerventional lecture Series: Neurointerventional Radiology: An Overview Part – I
- 09/14 University of Michigan  
Ann Arbor, MI

Neurointerventional lecture Series: Neurointerventional Radiology: An Overview Part – II

- 10/14 Neuro-ICU interns skills month: NIR teaching – Basics of Cerebral and Spinal angiography and hands on session at the Twosley Simulation Center. University of Michigan, Ann Arbor, MI
- 1/15 Kellogg Eye Center, University of Michigan, Ann Arbor MI  
Mid-winter Neuroophthalmology Symposium  
The Endovascular Revolution: Coils Stents and Liquid Embolics
- 7/15 Neurology Grand Rounds: Neurointervention In Acute Ischemic Stroke. Danto Auditorium, CVC, University of Michigan Health System
- 11/15 Neuro-ophthalmology Grand Rounds: Difficult CCF endovascular treatment. Kellogg Conference Center, University of Michigan Health System
- 8/16 ENT grand rounds: Carotid Blowout Syndrome
- 10/16 Neurosurgery Resident NIR Teaching: Intern Skills Month – cerebral & spinal angiography
- 11/16 Pediatric Anesthesia Teaching rounds: Retinoblastoma & Chemosurgery
- 1/17 Anesthesia Department: Update on treatment of Neurovascular diseases
- 2/17 Neurology Resident Teaching Rounds – Non-invasive MRI: Could it improve our understanding of ICH – A translational perspective
- 10/17 Neuroangiography for first year Neurosurgery Residents: Skills Month
- 10/17 Pipeline Flow diversion for Aneurysms causing 3<sup>rd</sup> Nerve palsy: Neuro-ophthalmology Grand Rounds
- 12/17 Neurointervention in Acute Ischemic Stroke: Neuroanesthesia Fellow Lecture
- 12/17 Neurointervention in Acute Ischemic Stroke: Michigan VIR Tech Chapter
- 02/18 Neurointervention in Acute Ischemic Stroke: Michigan VIR Didactic Lectures
- 04/18 Neurointervention in Acute Ischemic Stroke: Stroke Day for Nurses in Stroke Unit and NICU
- 6/2018 Acute Neurointervention in ischemic stroke: for Neurodiagnostic Radiology (NDR) Fellows

10/2018	Ophthalmology grand rounds: IA treatment of expleomorphic adenocarcinoma of lacrimal gland
02/2019	Stroke Symposium: Comprehensive stroke center Metro Health Grand rapids
10/2019	Neurosurgery Intern skills month: Cerebral Angiography
08/2020	Presurgical cerebral tumor embolization: Neurosurgery Grand Rounds
10/2020	Flow diverter stent based treatment of cerebral aneurysm: Neurosurgery Grand rounds
11/2020	Tissue iron quantification by MRI in ICH: Evidence for Human Translation – Radiology Department Research grand rounds
01/2021	Neuroanesthesia Fellow Lecture: Neurointerventional Radiology Update for Neuroanesthesia

### Informal Tutorials

2001	Surgical residents preparing for Membership of the Royal College of Surgeons
2007	Radiology residents preparing for Fellow of the Royal College of Radiologists

### **Committee, Organizational, and Volunteer Service:**

#### *International*

10/2020	<b>Associate Editor: BMC Neurology</b>
02/01/2018	<b>Head of Neuro-section in Editorial Board of European Radiology (Largest Radiology Journal of Europe impact factor 4).</b>
05/16/12	Moderator, Session for Percutaneous Embolization of Hypervascular Head and Neck Tumors, World Federation of Skull Base Society Meeting, Brighton, United Kingdom.
01/2015	<b>Scientific Editorial Board Member: European Radiology (Impact Factor – 4.4) Neuro Section (Neurointerventional &amp; Neuro-diagnostic Radiology).</b>
7/2019	<b>Chair &amp; Founder - Pediatric Neurointervention Committee at SNIS</b>

#### *Institutional*

Since 2013	Stroke Quality Peer Review Committee
Since 2013	Stroke Quality Steering Committee

- Since 2013     Stroke Arrival Process Lean Project
- 2013            Heparin safety in NIR project – completed with implementation of new recommendations in Adult and Pediatric NIR practice. Project awarded institutional best practice initiative.
- National*
- 5/2010          Moderator, Parallel Scientific Session, American Society of Neuroradiology, San Diego, CA.
- 12/08/11       Member of panel for Human Ischemic Pre-conditioning workshop (2<sup>nd</sup> symposium), University Medical School, Miami, Florida.
- 9/27/2014      Co-Chair session VIII – Brain Edema & Brain Protection – Brain Edema Conference 2014, LA, USA
- 11/28/2016     Moderator: Neurointerventional Session: RSNA 2016

## **Bibliography:**

### Peer-Reviewed Journals and Publications

1. **Chaudhary N**, Chetter IC, Renwick PR. Arterio-venous fistulae of the superficial temporal artery: a case report and literature review. *EJVES Extra*. 2001; 2(6): 102 – 104.
2. **Chaudhary N**, Dyde R, Chetter IC, Johnson BF. The consequences of an abdominal aortic aneurysm infected with Methicillin-resistant Staphylococcus aureus (MRSA). *Eur J Vasc Endovasc Surg*. 2001; 22(6): 568 – 569.
3. **Chaudhary N**, Longworth S, Sell PJ. Management of mechanical low back pain- a survey of beliefs and attitudes in GPs from Leicester and Nottingham. *Eur J Gen Pract*. 2004; 10(2): 71 – 72.
4. Connor SEJ, Tan G, Fernando R, **Chaudhary N**. Pseudofractures of the face and skull base on multislice CT – A pictorial review. *Clin Radiol*. 2005; 60(12): 1268 – 1279.
5. Ng L, **Chaudhary N**, Sell P. The efficacy of corticosteroids in periradicular infiltration for chronic radicular pain: a randomized, double-blind, controlled trial. *Spine (Phila Pa 1976)*. 2005; 30(8): 857 – 862.
6. Connor SEJ, **Chaudhary N**, Fareedi S, Woo EK. Imaging of muscular denervation secondary to motor cranial nerve dysfunction. *Clinical Radiology* 2006; 61(8): 659 – 669.

7. Connor SEJ, MRCP, FRCR, **N Chaudhary**, MRCS, FRCR. Imaging of maxillofacial and skull base trauma. *Imaging*, 19 (2007), 71 – 82.
8. S E J Connor, S Hussain, E Woo, S Morley, S H Liyanage, S P Spencer, K M Hogarth, J Makdissi, K S S Bhatia, T Iyngkaran, P S Richards, **N Chaudhary**, C Micallef, D E Saunders, A Siddiqui, R Jones, R Spendiff, and S Fareedi. Picture Quiz. *Imaging*; 19 (2007): 122 – 131.
9. Connor SE, **Chaudhary N**. CT-Guided percutaneous core biopsy of deep face and skull base lesions. *Clinical Radiology*. 2008; 63(9): 986 – 994.
10. Tay E, Gibson A, **Chaudhary N**, Olver J. Idiopathic Orbital Inflammation with Extensive Intra and Extra-cranial Extension Presenting as 6<sup>th</sup> Nerve Palsy: A Case Report and Literature review. *Orbit*. 2008; 27(6): 458 – 461.
11. Tafazal S, Ng L, **Chaudhary N**, Sell P. Corticosteroids in peri-radicular infiltration for radicular pain: a randomized double blind controlled trial. One year results and subgroup analysis. *Eur Spine J*. 2009; 18(8) 1220 – 1225.
12. **Chaudhary N**, Gemmete JJ, Thompson BG, Pandey AS. Intracranial endovascular balloon test occlusion-indications, methods, and predictive value. *Neurosurg Clin N Am*. 2009; 20(3): 369 – 375.
13. **Chaudhary N**, Davagnanam I, Ansari SA, Pandey A, Thompson BG, Gemmete JJ. Imaging of Intracranial Aneurysms Causing Isolated Third Cranial Nerve Palsy. *J Neuroophthalmol*. 2009; 29(3): 238 – 244.
14. Gemmete JJ, **Chaudhary N**, Pandey A, Gandhi D, Sullivan SE, Marentette LJ, Chepeha DB, Ansari SA. Usefulness of Percutaneously Injected Ethylene-Vinyl Alcohol Copolymer in Conjunction with Standard Endovascular Embolization Techniques for Preoperative Devascularization of Hypervascular Head and Neck Tumors: Technique, Initial Experience, and Correlation with Surgical Observations. *AJNR Am J Neuroradiol*. 2010 31(5): 961 – 966.
15. Gemmete JJ, **Chaudhary N**, Pandey A, Ansari S. Treatment of carotid cavernous fistulas. *Current Treat Options Neurol*. 2010 12(1): 43 – 53.
16. Gemmete JJ, **Chaudhary N**, Pandey AS, McHugh JB, Marentette LJ. Complete devascularization of a juvenile angiofibroma by direct percutaneous embolization with only ethylene vinyl alcohol copolymer (Onyx) through a single needle placement. *J Neurointerv Surg*. 2011; 3(2): 191 – 193.
17. Oweis Y, Gemmete JJ, **Chaudhary N**, Pandey A, Ansari S. Delayed Development of Brain Abscesses Following Stent-Graft Placement in a Head and Neck Cancer Patient Presenting with Carotid Blowout Syndrome. *Cardiovasc Intervent Radiol*. 2011; 34 Suppl 2: S31 – 35.

18. Gemmete JJ, **Chaudhary N**, Potti TA. Superficial Burn from Application of V+Pad to Obtain Hemostasis in an Infant. *Cardiovasc Intervent Radiol*. 2011; 34(4): 877 – 879.
19. Potti TA, Gemmete JJ, Pandey AS, **Chaudhary N**. Trigemino-cardiac reflex during the percutaneous injection of ethylene vinyl alcohol copolymer (Onyx) into a juvenile nasopharyngeal angiofibroma: a report of two cases. *J Neurointerv Surg*. 2011; 3(3): 263 – 265.
20. Ansari SA, Dueweke EJ, Kanaan Y, **Chaudhary N**, Gandhi D, Thompson BG, Gemmete JJ. Embolization of intracranial aneurysms with second-generation Matrix-2 detachable coils: mid-term and long-term results. *J Neurointervent Surg*. 2011; 3(4): 324 – 330.
21. Shah H, Gemmete JJ, **Chaudhary N**, Pandey AS, Ansari SA. Acute life-threatening hemorrhage in patients with head and neck cancer presenting with carotid blowout syndrome: follow-up results after initial hemostasis with covered-stent placement. *AJNR Am J Neuroradiol*. 2011; 32(4): 743 – 747.
22. Shah HM, Gemmete JJ, **Chaudhary N**, Pandey AS, Ansari SA. Preliminary experience with the percutaneous embolization of paragangliomas at the carotid bifurcation using only ethylene vinyl alcohol copolymer (EVOH) Onyx. *J Neurointervent Surg*. 2011; 4(2): 125 – 129.
23. **Chaudhary N**, Pandey AS, Gemmete JJ. Intervention in acute cerebral ischaemic stroke: a review of the role of pharmacological therapies and intra-arterial mechanical thrombectomy devices. *Postgrad Med J*. 2011; 87(1032) 714 – 723.
24. **Chaudhary N**, Pandey AS, Thompson BG, Gandhi D, Ansari SA, Gemmete JJ. Utilization of the Neuron guide catheter for treatment of cerebral vascular pathology: continued experience with ultra-distal access into the cerebral vasculature. *J Neurointervent Surg*. 2012; 4(4): 301 – 306.
25. Gao MC, Gemmete JJ, Pandey AS, **Chaudhary N**. Treatment of a vulnerable intracranial stenosis under proximal flow reversal with balloon angioplasty and stent placement. *J NeuroIntervent Surg*. 2012; 4(3) e7.
26. Gemmete JJ, Pandey AS, **Chaudhary N**, Potti TA. Paradoxical embolus to the brain from embolization of a carotid body tumor. *J Neurointervent Surg*. 2012; 4(4) e12.
27. Khan A, **Chaudhary N**, Pandey AS, Gemmete JJ. Direct puncture of the highest cervical segment of the internal carotid artery for treatment of an iatrogenic carotid cavernous fistula in a patient with Ehlers-Danlos syndrome. *J Neurointerv Surg*. 2012; 4(5): e29.
28. Rajajee V, Fletcher JJ, Pandey AS, Gemmete JJ, **Chaudhary N**, Jacobs TL, Thompson BG. Low pulsatility Index on Transcranial Doppler is an Independent Predictor of Symptomatic Large Vessel Vasospasm after Aneurysmal Subarachnoid Hemorrhage. *Neurosurg*. 2012;

70(5): 1195 – 1206.

29. Gemmete JJ, Patel S, Pandey AS, Sullivan SE, McKean EL, Marentette LJ, **Chaudhary N**. Preliminary Experience with the Percutaneous Embolization of Juvenile Angiofibromas Using Only Ethylene-Vinyl Alcohol Copolymer (Onyx) for Preoperative Devascularization Prior to Surgical Resection. *AJNR Am J Neuroradiol*. 2012 Apr 12.
30. Pandey AS, Thompson BG, Gemmete JJ, **Chaudhary N**. Cerebral collateral circulation: integral to defining clinical outcome in acute cerebral ischemia. *World Neurosurg*. 2012; 77(2): 240 – 242.
31. Orringer D, Lau D, Khatri S, Zamora-Berridi GJ, Zhang K, Wu C, **Chaudhary N**, Sagher O. Extent of resection in patients with glioblastoma: limiting factors, perception of resectability, and effect on survival. *J Neurosurg*. 2012; 117(5): 851 – 859.
32. Stetler WR Jr, **Chaudhary N**, Wilson TJ, Pandey AS. Indirect carotid-cavernous fistula following minor head trauma treated with incomplete radiographic endovascular occlusion. *BMJ Case Rep*. 2012 Sep; pii: bcr0320126004.
33. Roberts DA, Balter JM, **Chaudhary N**, Gemmete JJ, Pandey AS. Dosimetric measurements of Onyx embolization material for stereotactic radiosurgery. *Med Phys*. 2012; 39(11): 6672 – 6681
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## Abstracts (Posters/Exhibits)

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2. **Chaudhary N**, Longworth S, Sell PJ. "Management of mechanical low back pain – a survey of beliefs and attitudes in GPs from Leicester and Nottingham." Hartshill Hospital, Stoke on Trent & SBPR (Leeds). November 12 – 14, 2002.
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#### Abstracts (Published)

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4. Shah HM, Gemmete JJ, **N Chaudhary**, Pandey AS, Ansari SA. Preliminary Experience with percutaneous Embolization of Paragangliomas at the carotid bifurcation using only Onyx. *J NeuroInterv Surg.* 2012; 4(2): 125 – 129.

#### **Ongoing/Completed other research projects:**

##### *Basic Science Research in collaboration with Neurosurgery:*

Collaborative Cerebrovascular animal laboratory space with Neurosurgery has been set up in the Neurosurgery Animal laboratory housed at the BSRB.

- **Radiology Research Seed Grant awarded 7/14/2011** – PI - Analyzing healing of iatrogenic aneurysms in rat models specifically looking at effects of Aspirin and Plavix. Manuscript submitted for peer review
- Co PI with Completed Protocols Approved by UCUCA & IRB for initial experiments aimed at better understanding of aneurysm healing with various in situ coils currently on the market.
- 7T MRI gradient echo image correlation of organized tissue formation in the iatrogenic Rat external carotid artery aneurysm model at day 14 following aneurysm embolization with measurements performed at the carotid bifurcation histological specimen under light microscopy - completed.
- Aims of performing bench to bedside translational research to improve outcome in patients with cerebrovascular diseases. DTI imaging role in Hemorrhagic and Ischemic Stroke – ongoing study
- Co PI – Role of Ultrasound tagged Near Infra Red Spectroscopy (NIRS) in patients with vasospasm secondary to SAH – ongoing study.
- Ongoing project looking at iron quantification on MR in patients with hemorrhagic stroke – R21 funded from July 2017.
- Co PI on project on phase 1 trial of Minocycline in Subarachnoid Hemorrhage patients as iron chelating agent looking at difference in patient outcomes. Potential R01 grant application in 2015.
- RO1 – applied for as PI – October 2020. Role of markers of brain tissue injury on MRI in human ICH.

***Clinical Research Collaboration:***

- Clinical collaboration has been set up with Ophthalmology and Pediatric Oncology – IA Chemotherapy for Retinoblastoma: Clinical service established with Ocular Oncologist Dr. Hakan Demirci; A Michigan First - 2012.
- Site PI for DEFUSE 3 – Multicenter stroke trial that established stroke thrombectomy for acute Ischemic stroke patients with large vessel occlusion, upto 16 hrs from stroke.
- Site PI for the TIMELESS trial which is ongoing looking at role of tenecteplase in patients with large vessel occlusion and thrombectomy.
- Co-Investigator MR RESCUE – Multicenter Randomized clinical trial to assess role of CT/MR perfusion in selecting patients for intra-arterial mechanical thrombectomy.
- Co-Primary Investigator in setting up of THERAPY trial – Multicenter national randomized controlled trial to evaluate the role of intra-arterial mechanical thrombectomy in patients with CT proven at least 8 mm clot burden in the MCA randomized to standard medical therapy.

- Co – Investigator – HEAT trial – Analyzing effectiveness of hydrogel coated coils compared to bare platinum coils.
- Co –Investigator – FEAT trial – Target 10 vs 18 coil in the framing of large aneurysms lead to reduced aneurysm recurrence.
- Currently exploring collaborative research with Electrical Engineering Department to investigate clinical application of microsensors in neurovascular disease animal models.
- Role of DTI in Ischemic Stroke – PI – IRB Approved