

Louis P. Caragine, Jr., MD, PhD, FAANS
Vascular, Endovascular and General Neurosurgery
Director, Cerebrovascular and Endovascular Neurosurgery

Saint Francis Medical Center
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Faculty Appointments Associate Professor of Neurosurgery and
Director, Endovascular Neurosurgery
Director, Neurosurgical Intensive Care Unit
Director, Endovascular/Vascular Fellowship Program
The Ohio State University Medical Center (2005 to July 2009)

Director, Vascular and Endovascular Neurosurgery and Interventional
Neuroradiology, Geisinger Medical Center, Danville, PA (2002-2005)

Director, Endovascular Neurosurgical Suite, Geisinger Medical Center, Danville,
PA (2002-2005)

Honorary Associate Appointment, the Division of Radiology, Geisinger Medical
Center (2002-2005)

Education Fellowship, Endovascular Neurosurgery/Interventional Neuroradiology UCSF,
2000-2002.

Residency, Department of Neurological Surgery, Wayne State Univ. School of
Medicine, DMC, Detroit, MI., June 1992-2000.

Ph.D., Department of Physiology (Neurophysiology), Wayne State Univ. School
of Medicine, 1993-June 1998 (GPA = 3.72).

M.D., Georgetown Univ. School of Medicine, Washington, D.C., 1988 -May,
1992. Honors in: Gross Anatomy, Microscopic Anatomy, Medicine,
Ophthalmology, and Radiology.

M.S., Georgetown Univ. School of Medicine, (Physiology and Biophysics)
1987-December 1989. "A" work in: Neurobiology, Biochemistry, Advanced
Renal Physiology, Biostatistics, Cellular Physiology and Applied Human
Physiology.

B.S., Georgetown University. Major: Biology, Minor: English.
1983 -May 1987.

Awards *Fellow of the American Association of Neurological Surgeons (FAANS)* July,
2010-present

Best Doctors in America 2009-2010

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“GUIDE TO AMERICA’S TOP SURGEONS” 2007 and 2009 Edition, by the Consumers’ Research Council of America

THE LAWRENCE MERVIS, MD TEACHER OF THE YEAR AWARD, from: The Ohio State University Department of Neurological Surgery, 2006

Who’s Who in Medicine and Healthcare 2006-2007, 6th Edition, and 2009-2010 edition.

Who’s Who in America 2008, 2009, 2010, 2011 Editions

Who’s Who in Science and Engineering 2008-2009, 10th Edition and 2011-2012.

Who’s Who in the World 2008, 2009, 25th and 26th Edition, 2010, 2011 Editions

2000 Outstanding Scientists 2008/2009 by the International Biographical centre of Cambridge, England

The GALBRAITH AWARD from the Congress of Neurological Surgeons, for “outstanding work” in cerebrovascular science, Seattle, October 1998.

AWARD FOR EXCELLENCE IN SCHOLARLY ACTIVITIES Wayne State University School of Medicine, Department of Neurological Surgery, 1998.

TARGET® FELLOW in Interventional Neuroradiology UCSF 2000-2002

The Rhône-Poulenc Rorer Congress of Neurological Surgeons Scholarship Program, October 1999.

ABNS Primary Examination passed, April 1997.

Summer Fellowship Grant, Department of Surgical Neurology, NIH, 1989. Implantation studies in Parkinson’s disease.

Board Certification

Diplomat of the American Board of Neurological Surgery

National Committee Appointments

Cerebrovascular Section Executive Committee, of the Congress of Neurological Surgery and the American Association of Neurological Surgeons (2007-Present)

By-laws committee of the Cerebrovascular Section Executive Committee, of the Congress of Neurological Surgery and the American Association of Neurological Surgeons (2007-present)

NeuroInterventional Surgery Director, of the Board of NeuroInterventional Surgery (BNIS). One of two Neurosurgeons given this honor nationally, and only seven national members on the board (2009-2010).

Society of NeuroInterventional Surgery (SNIS) Executive Committee (2009-2010).

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Chair, Radiation Safety Committee of the Cerebrovascular Section Executive Committee, of the Congress of Neurological Surgery and the American Association of Neurological Surgeons (2008)

The Maintenance of Certification Committee of the American Association of Neurological Surgeons. (April 14, 2007-May 2010 Annual Meeting)

Secretary, The Ohio State Neurosurgical Society (2007)

Liaison from the Young Neurosurgeons Committee to the Maintenance of Certification Committee of the American Association of Neurological Surgeons (2005-2007).

American Association of Neurological Surgeons Appointee to the Council of State Neurosurgical Societies (2005-2010)

National Elected Office The Young Neurosurgeons Committee of the American Association of Neurological Surgeons (1999-2007)

Member Organizations Missouri State Medical Association, 2010

Cape Girardeau Medical Society, 2010

The Cerebrovascular Section of the American Association of Neurological Surgeons (AANS) and the Congress of Neurological Surgery (CNS) (2000-present) Executive Committee. (2008-present),

AANS (1993-present),

CNS (1993-2002, 2006-present),

NeuroInterventional Surgery Director, of the Board of NeuroInterventional Surgery (BNIS) (2009-2010).

Society of NeuroInterventional Surgery (SNIS) Executive Committee (2009-2010).

The Maintenance of Certification Committee of the American Association of Neurological Surgeons. (April 14, 2007 – just prior to the 2010 Annual Meeting)

The Society of Endovascular Neurosurgeons (SENS) (2006-2009),

American Medical Association (AMA) (1988-2009),

AANS appointee to the Council of State Neurosurgical Societies (CSNS) (2006-2009),

Elected officer of the Young Neurosurgeons Committee (YNC) (1999 -2007),

Liaison from the YNC to the Maintenance of Certification Committee of the AANS and CNS (2005-2007),

AMA-PAC (2000-2009),

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ACR (2002-2008),
American Heart Association (AHA),
Stroke Council (2003-2009),
American Stroke Association (ASA) (2003-2009),
The Society of NeuroInterventional Surgery (SNIS), formerly the American Society of Interventional & Therapeutic Neuroradiology (ASITN), Senior Member (2003-present),
Neurocritical Care Society (2003-2009),
The Ohio State Neurosurgical Society (2007-2009),
The Ohio State Medical Society (2006-2009),
Columbus Medical Society (2006-2009),
Honorary Chairman, NRCC Physicians Advisory Board, (2004-2005).

Local Committees

Neurosciences Committee, Saint Francis Medical Center, 2010.
Institutional Review Board, Saint Francis Medical Center, 2010
Department of Surgery Committee, Saint Francis Medical Center, 2010.
Director, Schematic Design Advisory Group for the Hybrid Endovascular/Vascular OR Suite, Saint Francis Medical Center (2009-2010)
Chair, OSU medical center task force, for the planning and implementation of a combined endovascular and open neuro-surgical hybrid suite (2005-2008). Accomplished.
Co-Chair, Stroke/Cerebrovascular Disease State Taskforce of the Neurosciences Signature Program of the Ohio State University Medical Center (2006-2008)
Clinical Patient Safety Committee of The Ohio State University Medical Center, (2008-2009)
Physician Leader, Failure Modes Effect Analysis, The Ohio State University Medical Center, (2008-2009)
Medical Record Documentation Enhancement Oversight Committee of The Ohio State University Medical Center, (2008-2009)
Clinical Resource Utilization Committee of The Ohio State University Medical Center, (2008-2009)
Physician Advisor, OSU Health System, (2008 to present)
Critical Care Quality Management Committee of The Ohio State University Medical Center (2006-2008)
Critical Care Schematic Design Advisory Group for the OSU Medical Center's Master Plan (2007-2009)

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The Clinical Technology and Product Assessment Committee of The Ohio State University Medical Center (2006-2009)

Center for Critical Care New Technology Assessment Committee (2008)

The Inpatient-Critical Care Functional and Space Programming Group for The Ohio State University Medical Center (2006-2008)

Critical Care (East of Cannon) Schematic Design Meeting (2008)

The Ohio State University Hospital Operating Room Committee (2006-2008)

Neurosciences Clinical Quality Management Committee (2007-2008)

Full member of the Center for Critical Care at The Ohio State Univ. Medical Center (2007-2009)

Transfer Center Task Force (2008)

Trauma Director Candidate Search Committee of The Ohio State University Medical Center (2006-2007)

Committee for Peripheral Angioplasty and Stenting- Quality Assurance Standards- OSU Medical Center (2005-2006).

Media Interviews

The Southeast Missourian: The Hybrid Endovascular/Vascular Operative Suite, November 16, 2010.

T.V.: ABC 6 TV, Columbus, Ohio, "Good Morning Columbus", August 29, 2008, Intracranial Aneurysm Rupture in regards to Ohio Representative Tubbs Jones, and the Ohio Brain Aneurysm Awareness and Support Group (OBAASG). Julie Ashby producer.

T.V.: NBC4, WCMH-TV, interview with Mike Bowersock, August 22, 2008, Intracranial Aneurysm Rupture, Signs and Symptoms, and the New Open and Endovascular Neurosurgery Suite

WBNS – 10TV/WBNS – DT10 and ONN TV, interview with Mrs. Arica Robbins, March 20, 2008, Intracranial Arterial Venous Malformations and the Onyx Embolic System®.

WOSU AM radio, Columbus Ohio, March 7, 2008, "Onyx® – the new embolic."

T.V.: Channel 10 WBNS, with Marcey Goulder, Columbus Ohio, June 14, 2007, Breakthroughs in Medicine, "Kyphoplasty in the Elderly."

T.V.: NBC 4, WCMH, with Mike Hevel, Columbus, Ohio, 2006. "Vascular and Endovascular Treatment of Stroke."

Radio: 610 AM The Bob Connors Show affiliated with WBNS TV 10, Columbus, Ohio, 2006.

T.V.: NBC Pennsylvania Affiliate, Danville PA, Radio: PA., 2005

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Educational Videos

OSU MedNet 21. “Carotid Stent Placement for Treatment of Carotid Artery Disease and Stroke” CME webcast interview and educational 1 hour lecture. September 2006.

Media Relations

Carotid Stenosis. “Medical Minute XXII” series: For Saint Francis Medical Center, Cape Girardeau MO, and Southeast Missouri, for T.V. and radio, November 24, 2010.

Surgical and Endovascular Aids in the Treatment of Brain Tumors. “Medical Minute:” For Saint Francis Medical Center, Cape Girardeau MO, and Southeast Missouri, for T.V. and radio, October 15, 2010.

Endovascular and Vascular Treatments of Dural Fistulas, and the Hybrid Endovascular Suite. “Medical Minute:” For Saint Francis Medical Center, Cape Girardeau MO, and Southeast Missouri, for T.V. and radio, October 15, 2010.

General Endovascular and Vascular Neurosurgical Therapies. “Medical Minute:” For Saint Francis Medical Center, Cape Girardeau MO, for T.V. and radio, October 9, 2009.

Arteriovenous Malformations in the Brain: Review and Treatment Options, For The Ohio State University Medical Center Media Relations, for TV and radio, February 2007.

Kyphoplasty: Indications and Treatment, For The Ohio State University Medical Center Media Relations, for TV and radio, February 2007.

Endovascular and Vascular Treatment of Intracranial Aneurysms, For The Ohio State University Medical Center Media Relations, for TV and radio, 2006.

Brain Surgery Doesn't Have to be...Brain Surgery: For Health News Digest.com, September 11, 2006.

Reviewer

Reviewer of abstracts, oral and digital poster, 2010 American Association of Neurological Surgeons (AANS) Annual Meeting

Ad hoc reviewer for the journals: Neurosurgery and the Journal of Neuroimaging, 2000-2002

Research

Recent:

PRET: Patients Prone to Recurrence after Endovascular Treatment. Multicenter randomized trial comparing hydrogel-coated and platinum standard coils. Primary Investigator, Saint Francis Medical Center, (2010-present), OSU 2009.

Onyx Liquid Embolic System (Onyx HD-500) for intracranial aneurysm use. Primary Investigator, Saint Francis Medical Center (2009-present) and OSU (2008-2009).

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The Wingspan HDE Stent System in Intracranial Atherosclerotic Disease (ICAD), Primary Investigator, Saint Francis Medical Center, (2009-present) and OSU, (2007-2009).

The Neuroform Microdelivery Stent System, Humanitarian Device Exemption. Primary Investigator, Saint Francis Medical Center, (2009-present); Geisinger Medical Center; Coinvestigator OSU (2003-2009)

The Cordis Enterprise™ Vascular Reconstruction Device and Delivery System, Humanitarian Device Exemption. Primary Investigator, Saint Francis Medical Center, (2009-present); Geisinger Medical Center; Coinvestigator OSU (2003-2009).

Past:

Robotics in Vascular Neurosurgery

Coil Occlusion of Aneurysms versus Coil Volume

A Randomized, Multicenter Comparison of Intermittent vs. Continuous Drainage of Cerebrospinal Fluid in the Management of Severe Traumatic Brain Injury in Infants and Children. Co-investigator (2003-2005). NIH funded.

Interventional Management of Stroke. The (IMS) Study/ NIH funded (2000-2002)

Nitric oxide and its role in hyperemic reperfusion following intracranial and extracranial angioplasty and stent placement (2000-2002).

AngioJet® thrombectomy in middle cerebral artery embolism (Time 1 Study, Co-Investigator, (2001-2002).

Mechanical Embolus Removal in Cerebral Ischemia (MERCIA)/ Concentric Medical Trial (2000-2002)

“Real-time measurement of ischemia-evoked glutamate release in the cerebral cortex of four and eleven vessel rat occlusion models.” *Brain Research*, 793 (1998) 255-264. Oral presentation at The Joint Section on Cerebrovascular Surgery of the AANS, CNS, and the ASITN, February 1998.

“EEG spectral analysis during low flow and no flow states of rat cerebral ischemia.” Society for Neuroscience, November 1998 and the AANS, April 1999

“The Use of Hydroxyapatite Cement in Craniofacial Reconstruction.” In: *Calvarial and Dural Reconstruction*. Neurosurgical Topics, Chapter 8, (1998) 89-94. (Also see pg. 2-6)

Teaching

The Ohio State Univ. Medical Center- instruction of neurosurgery and radiology residents, fellows, medical students, physician assistants, nurse clinicians and surgical interns (2005-2009).

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The AANS Oral Boards Review Course. Faculty to instruct Young Neurosurgeons in preparation of their oral boards. Houston, Texas, November 5-7, 2006.

Geisinger Medical Center- instruction of visiting neurosurgery residents from MCP, fellows, physician assistants and surgical interns (2002-2005).

Fellow- endovascular neurosurgery/interventional neuroradiology- instruction of diagnostic neuroradiology fellows (2000-2002).

Clinical, basic science, and laboratory instruction of rotating residents, medical students, and neurosurgeons (1994-2000).

Teaching Assistant – Neuroanatomy-Georgetown U. School of Medicine (1988).

Volunteer Work

Board of Directors: Ohio Brain Aneurysm Awareness and Support Group (OBAASG), (2006-2009).

The creation of the: Ohio Brain Aneurysm Awareness and Support Group (OBAASG) (2006)

The Ohio Brain Aneurysm Awareness Walk to benefit families and patients with intracranial aneurysms and the creation of the Ohio Brain Aneurysm Awareness and Support Group (OBAASG), September 9th, 2006, Coffman Park Pavillon, Dublin, Ohio, September 29th, 2007, Coffman Park Pavillon, Dublin, Ohio, September, 2008, Coffman Park Pavillon, Dublin, Ohio.

Licenses

M.D.: Missouri, Michigan, California, Pennsylvania, and Ohio.

Radiology X-Ray Supervisor and Operator- State of California.

Personal

Hobbies include reading, running and exercise, woodworking and occasional painting.

Publications

Articles:

Karas CS, Golan J, Christoforidis G, Caragine LP, Mendel E: “Extravascular, transpedicular embolization of spinal renal metastasis using the Onyx Liquid Embolization System”. Journal of Neurosurgery : In Print.

Hirchl RA, Caragine LP: “Robotic-assisted superficial temporal artery-to-middle cerebral artery anastomosis”. Journal of Robotic Surgery: 1863-2483 August 21, 2008

Baig MN, Syed S, Christoforidis G, Caragine LP. “Use of Intraoperative Sodium Tetradecyl Sulfate for the Treatment of Spinal Epidural Hemangioma.” Journal of Neurosurgery: Spine 7: 264 -269, 2007.

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Thoman WJ, Ammirati M, Caragine LP, McGregor JM., Sarkar A, Chiocca EA: "Brain Tumor Imaging and Surgical Management: The Neurosurgeon's Perspective." *Topics in Magnetic Resonance Imaging* 17 (2): 121-126, 2006.

Caragine LP, Halbach VV, Dowd CF, Higashida RT: "Intra-orbital Arteriovenous Fistulae of the Ophthalmic Veins Treated by Transvenous Endovascular Occlusion." *Neurosurgery* 158, Operative Neurosurgery Supplement 1,E170 + 5, Februaryruary, 2006.

Caragine LP, Halbach VV, Dowd CF, Ng PP, Higashida RT: The Parallel Venous Channel as the Recipient Pouch in Transverse/Sigmoid Sinus Dural Fistulas. *Neurosurgery* 53 (6): 1261-1267, 2003.

Ng PP, Halbach VV, Quinn R, Balousek P, Caragine LP, Dowd CF, Higashida RT, Wilson C: Endovascular Treatment for Dural Arteriovenous Fistulae of the Superior Petrosal Sinus. *Neurosurgery* 53 (1): 25-33, 2003.

Ng PP, Halbach VV, Caragine LP, Dowd CF, Higashida RT: Guglielmi detachable coil extraction: suction generated by pusher-wire withdrawal after coil detachment within an intracranial aneurysm. *AJNR* 24 (5): 982-984, 2003.

Caragine LP, Halbach VV, Ng PP, Dowd CF, Higashida RT: Endovascular Treatment of Spinal Cord Vascular Malformations. *Seminars in Cerebrovascular Disease and Stroke* 2 (3): 236-244, 2002.

Caragine LP, Halbach VV, Ng PP, Dowd CF: Vascular Myelopathies -Vascular Malformations of the Spinal Cord: Presentation and Endovascular Surgical Management. *Seminars in Neurology* 22 (2): 123-131, 2002.

Ng PP, Caragine LP, Dowd CF: Percutaneous Vertebroplasty: An Emerging Therapy for Vertebral Compression Fractures. *Seminars in Neurology* 22 (2): 149-155, 2002.

Gupta DK, Young WL, Higashida RT, Caragine LP, Lefler JE: The Effect of Nitric Oxide Synthase Inhibition on Hyperemia Following Transluminal Cerebral Angioplasty. *Anesthesiology* 95: A309, 2001.

Caragine LP, Park H, Phillis J, Diaz FG: Real-time measurement of ischemia-evoked glutamate release in the cerebral cortex of four and eleven vessel rat occlusion models. *Brain Research* 793: 255-264, 1998.

Caragine LP, Gordon VL, Matter A, Zamorano L, Diaz FG: Cavernous Angiomas: A Report of 31 Surgical Cases, in Owen H. Wangenstein Surgical Forum 49. Chicago, Illinois, American College of Surgeons: 486-488, 1998

Park, H, Caragine LP, Diaz FG: Real Time Correlation of Neuronal Damage via EEG and Glutamate Digitized Acquisition. *Psychline* 3 (2): 32-34, 1999.

Park, H, Caragine LP, Diaz FG: Wavelet Analysis of EEG during glutamate release in rat model. *Annals of Biomedical Engineering* 26: S103, 1998.

Park, H, Caragine LP, Diaz FG: Multiresolution EEG comparison of rat ischemia models. *Biomedical Science Instrumentation* 34: 104-106, 1997.

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Zamorano L, Buciuc R, Aronin P, Ham S, Caragine L, Canady A, Diaz FG: Interactive image-guided surgery in pediatric neurosurgery using an infrared-based system, in The Proceedings of the Meeting of the American Society for Stereotactic and Functional Neurosurgery Part II, 66: 154, 1996

Published Abstracts:

Christoforidis GA, Mohammad Y, Yang M, Caragine LP, Slivka A: “Rapid drug treatment prompts "Lazarus" response in some stroke patients” Stroke News 02/08/2007

Gupta DK, Young WL, Higashida RT, Caragine LP, Lefler JE: “The Effect of Nitric Oxide Synthase Inhibition on Hyperemia Following Transluminal Cerebral Angioplasty” The American Society of Anesthesiologists, ASA Annual Meeting Abstracts, Oct 14-18, 2006 Chicago, IL

Caragine LP, Halbach VV, Dowd CF, Ng PP, Higashida RT: The Parallel Venous Channel as the Reipient Pouch in Transverse/Sigmoid Sinus Dural Fistulas. Journal of Neurosurgery 100, (1): A188, 2004

Caragine LP, Park H, Wells AM, Phillis J, Diaz FG: Evaluation of Real-Time Glutamate Release in Three Models of Rat Cerebral Ischemia. Journal of Neurosurgery 88: 183A, 1998.

Caragine LP, Park H, Wells AM, Phillis J, Diaz FG: Real Time Glutamate Release Into and Removal from the Extracellular Space During Low Flow and No Flow States of Rat Forebrain Ischemia. Neurosurgery 43: 669, 1998.

Caragine LP, Park H, Phillis J, Diaz FG: EEG Spectral Analysis During Low Flow and No Flow States of Rat Cerebral Ischemia. Society of Neuroscience Abstracts 24: 2150,1998.

Caragine LP, Park H, Wells AM, Phillis J, Diaz FG: Real time glutamate release and cerebral blood flow changes in two models of rat forebrain ischemia. Journal of Neurosurgery 88: 372, 1998.

Park H, Caragine LP, Diaz FG: Wavelet comparison of ischemic degree in two models of rat forebrain ischemia. Journal of Neurosurgery 88: 373, 1998.

Caragine LP, Park H, Diaz FG: EEG spectral analysis during low flow and no flow states of rat cerebral ischemia. Journal of Neurosurgery 90: 391, 1999.

Chapters:

Hirschl R, Caragine LP: Perioperative Planning, Section II, Chapter 4 in Prestigiacomo (ed.): Surgical Endovascular Neuroradiology. Thieme, 2009. In Press.

Hirschl R, Caragine LP: Endovascular Techniques for Tumor Embolization, Chapter 113, in Chiocca A (ed.): Youmans Neurological Surgery. Elsevier, 2008.

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Ng PP, Higashida RT, Caragine LP: Techniques for Intracranial Aneurysm Intervention, in Yadav JS (ed.): Textbook of Cerebrovascular Intervention. Saunders, 2003.

Rengachary S, Caragine LP: The Use of Hydroxyapatite Cement in Craniofacial Reconstruction, in Rengachary SS, Benzel EC (eds.): Calvarial and Dural Reconstruction, Neurosurgical Topics. Park Ridge, Illinois, American Association of Neurological Surgeons: 89-94, 1998.

Books:

Caragine LP: Real Time Glutamate Release into, and Removal from, the Extracellular Space in Low Flow States, and a Novel Eleven-Vessel Occlusion Model, of Rat Forebrain Ischemia; Correlation with EEG Spectral Analysis. Detroit, Michigan, Wayne State University Ph.D. Thesis: 1998.

National Oral Presentations:

Hirschl B, Caragine LP. “Advantages of an endovascular/operating room hybrid suite.” 60th Southern Neurosurgical Society Annual Meeting, Greensboro, Georgia, March 25-28, 2009.

Karas K, Golan J, Caragine LP, Christoforidis G, Mendel E. “Extravascular, transpedicular embolization of a spinal renal metastasis using The Onyx® Liquid Embolization System.” 22nd Annual Neurosurgery in the Rockies Conference, University of Colorado, February 21–25, 2009.

Karas K, Caragine LP. “Stent Assisted Coiling of a Giant Fusiform, Mid to Upper Basilar Aneurysm.” Interventional Neuroradiology Conference, Spring Creek Ranch, Jackson Hole, Wyoming, August 19-23, 2007.

Caragine LP. “Management Strategies of Difficult Large Intracranial Aneurysms: Complementary Treatment Modalities For a Single Vascular/Endovascular Neurosurgeon.” Neurosurgical Society of America, Kohler, Wisconsin, June 3-6, 2007, and the Southern Neurosurgical Society, March, 2007 presented by Baig MN.

Christoforidis GA, Mohammad Y, Yang M, Caragine LP, Slivka A: “Influence of Extent of Recanalization on Clinical Outcome and Infarct Volume Following Intra-arterial Thrombolysis.” The Joint Section of AANS/CNS Cerebrovascular Section & American Society of Interventional and Therapeutic Neuroradiology, Annual Meeting, Orlando, February 17, 2007

Christoforidis GA, Mohammad Y, Yang M, Caragine LP, Slivka A: “Effect of Pial Collateral Formation on Hemorrhage Rate and Hemorrhage Volume” The Joint Section of AANS/CNS Cerebrovascular Section & American Society of Interventional and Therapeutic Neuroradiology, Annual Meeting, Orlando, February 17, 2007

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Caragine LP, Halbach VV, Dowd CF, Ng PP, Higashida RT: “The Parallel Venous Channel as the Recipient Pouch in Transverse/Sigmoid Sinus Dural Fistulas.” The Joint Section on Cerebrovascular Surgery of the AANS and the CNS, and the American Society of Interventional and Therapeutic Neuroradiology, San Diego, CA, February 2004.

Dowd C, Caragine LP, Ng P, Higashida R: “Angioplasty and Stenting for Intercranial Atherosclerotic Disease.” Western Neuroradiological Society, Santa Barbara, CA, October 2001

Gupta D, Young W, Higashida R, Caragine LP, Lefler J, Quinnine N, Hashimoto T, Dowd C, Halbach V, Halim A: “The effect of nitric oxide synthase inhibition on hyperemia following transluminal cerebral angioplasty.” The Society of Neuroanesthesia and Critical Care, October 2001.

Chaturvedi S, Kulkarni V, Shah AK, Caragine LP, Kazmierczak C, Joshi N, Banerjee S, Dahn MS: “Interspecialty measurement of carotid stenosis: Are we speaking the same language?” The North American Heart Association International Stroke Conference, New Orleans, Louisiana, February 2000.

Caragine LP: “Evaluation of real time glutamate release in three models of rat cerebral ischemia.” The Joint Section on Cerebrovascular Surgery of the AANS, CNS, and the American Society of Interventional and Therapeutic Radiology, Lake Buena Vista, Florida, February 1998.

Caragine LP: “Real time glutamate release into and removal from the extracellular space during low flow and no flow states of rat forebrain ischemia.” Award presentation at The Congress of Neurological Surgeons, Seattle, October 1998, The Neurosurgical Society of America, Scottsdale, Arizona, March 1999, and The Michigan Association of Neurological Surgeons, Thompsonville, MI, June 1998.

Caragine LP: Cavernous Angiomas, A Report of 38 Surgical Cases. The Congress of Neurological Surgeons Post Satellite Meeting, Blaine, Washington, October 1998, and the American College of Surgeons, Orlando, October 1998.

Park H, Caragine LP: “Multiresolution EEG comparison of rat ischemia models.” Institute of Electrical and Electronic Engineers (IEEE) Medicine and Biological Society. The Rocky Mountain Engineering Symposium, February 1998.

Grand Rounds:

Caragine LP: Intracranial Aneurysms, Vascular and Endovascular Treatment. Saint Francis Medical Center, Combined Neurosciences Medical Meeting and Academic Session, October 21, 2009.

Caragine LP: Modern Therapy of Intracranial Aneurysms by Vascular and Endovascular Means. Monthly Medical and Surgical Grand Rounds, Lima Memorial Medical Center, Lima, Ohio, May 22, 2007.

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Caragine LP: Treatment of Intracranial Aneurysms; the Hybrid Approach. Department of Neurological Surgery, Grant Medical Center, Columbus, Ohio, May 25, 2007.

Caragine LP: Endovascular Therapies for Stroke. Department of Physical Medicine and Rehabilitation, Grand Rounds, The Ohio State University Medical Center, Columbus, Ohio, November 13, 2006

Caragine LP: Carotid Stenting: The New Paradigm. Neurology and Neurosurgery Combined Grand Rounds, The Ohio State University Medical Center, Columbus, Ohio, November 2, 2006

Caragine LP: Carotid Stenting: Out with the Old in with the New?. Department of Neurological Surgery, The Ohio State University Medical Center, Columbus, Ohio, October 20, 2005

Caragine LP: Endovascular and Vascular Treatment of Intracranial Aneurysms. Department of Neurological Surgery, The Ohio State University Medical Center, Columbus, Ohio, August 25, 2005

Caragine LP: Endovascular Neurosurgery. Critical Care Conference, Geisinger Medical Center, Danville, PA, October 30, 2002

Caragine LP: Intracranial Aneurysms- Endovascular Approaches. Neuroscience Grand Rounds, Geisinger Medical Center, Danville, PA, September 9, 2002

Caragine LP: Real Time Glutamate Release in Rat Forebrain Ischemia. Department of Neurosurgery Grand Rounds, Wayne State University, MI, June 1999.

Guest Lectures, Conferences, and Symposia:

Caragine LP: Overview of Cerebrovascular / Endovascular Treatment: Neuroscience Nursing 2010: Heading Forward...Diagnosis, Treatment and Trends, The Cape Girardeau Career and Technology Center, Cape Girardeau, MO, October 1, 2010.

Caragine LP: Intracranial Pressure Monitoring in the NICU: ICU Nursing Morning Conference Series, Saint Francis Medical Center, Cape Girardeau MO, September 13, 2010.

Caragine LP: Cerebrovascular Pathology, Vascular and Endovascular Alternatives: The Board of Directors, Saint Francis Medical Center, Cape Girardeau, MO, February 9, 2010.

Caragine LP: Vascular and Endovascular Neurosurgery: an overview. The Show Me Center and the Rotary Club of Cape Girardeau, November 9, 2009.

The 1st Annual Cerebrovascular Symposium: Moderator, director and speaker, Caragine LP: (1) Intracranial Aneurysms General Management and Results, and (2) AVM and Dural Fistulas. University Plaza Hotel, The Ohio State University Medical Center, September 5, 2008.

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Caragine LP: Aneurysms: General Diagnosis, Endovascular and Traditional Treatments and Results. Nationwide Children's Hospital, Columbus, Ohio, Pediatric Neurology Lecture Series, June 12, 2008

Caragine LP: Headache in Ruptured Aneurysm and CNS Vasculitis: Diagnosis and Management. The Headache: 2008 Update in Diagnosis & Management. The Fawcett Center, The Ohio State University Medical Center, February 2, 2008

Caragine LP: AANS Oral Board Review Course. Faculty. Houston, Texas, November 5-7, 2006

Caragine LP: Novel Endovascular and Vascular Treatments of Stroke. Marion General Hospital, Marion, Ohio, October 13, 2005

Caragine LP: Endovascular and Vascular Treatment of Intracranial Aneurysms. Department of Emergency Medicine and Neurology, Springfield Community Hospital, Springfield, Ohio, September 12, 2005

Caragine LP: Aneurysm Coiling and Carotid Stenting. The Latest Technologies in Medicine and Surgery. The 11th Annual Primary Care Update, The Penn Stater Conference Center Hotel, State College, PA, November 19, 2004.

Caragine LP: Carotid Stenting: The New Standard for Carotid Stenosis? The Pennsylvania Rural Stroke Initiative, Mini Stroke Fellowship, Geisinger Medical Center, Danville, PA, May 3, 2004.

Caragine LP: Endovascular Intervention, An Overview: Treatment of Intracranial Aneurysms and Carotid Stenosis. Geisinger Medical Center, Nursing Continuing Medical Education Program, Danville, PA, May, 2004

Caragine LP: Endovascular Intervention, An Overview: Treatment of Intracranial Aneurysms and Carotid Stenosis. Vanderbilt Univ. Medical Center, Department of Neurological Surgery, Friday Morning Conference Series, Nashville, TN, November 21, 2003.

Caragine LP: Aggressive Surgical Treatments. Pennsylvania Rural Stroke Initiative, Mini-fellowship, Geisinger Medical Center, Danville, PA, October 23, 2003.

Caragine LP: Endovascular Treatment of Asymptomatic Carotid Stenosis: New Kid on the Block. Rapid-Fire Cardiovascular Update 2003, Geisinger Medical Center, Danville, PA, September 17, 2003.

Caragine LP: ICU Management of Vascular and Endovascular Neurosurgical Patients. ICU Guest Lecture, Geisinger Medical Center, Danville, PA, October 9, 2002

Caragine LP: Endovascular Management of Intracranial Aneurysms. Columbia Presbyterian Medical Center, College of Physicians and Surgeons of Columbia University, The Neurologic Institute, Department of Neurological Surgery, Friday Morning Conference Series, July 2001.

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Caragine LP: Spinal Arteriovenous Malformations. Detroit Receiving Hospital Neurotrauma Conference, November 1999.

Caragine LP: Glutamate Release in Cerebral Ischemia. Detroit Receiving Hospital Neurotrauma Conference, July 1998.

Caragine LP: Cavernous Angiomas. Detroit Receiving Hospital Neurotrauma Conference, August 1998.

Caragine LP: Clinoid Segment Aneurysms. Detroit Receiving Hospital Neurotrauma Conference, January 1999.

Caragine LP: Intracranial Aneurysms: Natural History, Presentation and Management. University of Detroit Mercy Guest Lecture, February 2000; January 1999, and Detroit Receiving Hospital Neurotrauma Conference, March 1999.

National Poster Presentations:

Christoforidis GA, Mohammad Y, Kontzialis M, Caragine LP, Slivka A. "Predictors For Good Pial Collateral Formation in Acute Ischemic Stroke." The International Stroke Conference, New Orleans, 2008.

Christoforidis GA, Mohammad Y, Kontzialis M, Caragine LP, Slivka A. "Does the Method For Intra-arterial tPA Delivery Affect Reperfusion Rate?" The International Stroke Conference, New Orleans, 2008.

Karas KS, Julka A, Mendel E, Caragine LP. "Preoperative Endovascular Embolization of Renal Cell Metastasis to the Vertebral Body with Onyx." Southern Neurosurgical Society, Sea Island, Georgia, March 14, 2007.

Miller BA, Caragine LP. "Balloon Embolization of a Vertebral Artery Fistula in a Child." The International Stroke Conference, in combination with The Joint Section of AANS/CNS Cerebrovascular Section & American Society of Interventional and Therapeutic Neuroradiology, Annual Meeting, San Francisco, CA, February 17, 2007

Christoforidis GA, Mohammad Y, Yang M, Caragine LP, Slivka A: "Factors Associated With A 'Lazarus Phenomenon' 24 Hours Following Intra-arterial Thrombolytic Treatment in Acute Ischemic Stroke." The International Stroke Conference, in combination with The Joint Section of AANS/CNS Cerebrovascular Section & American Society of Interventional and Therapeutic Neuroradiology, Annual Meeting, San Francisco, CA, February 17, 2007

Christoforidis GA, Mohammad Y, Karakasis C, Avutu B, Yang M, Caragine LP, Slivka A: "Hemorrhage Rates and Outcomes Associated With the Use of 100 mg Intra-Arterial tPA For Thrombolysis in Acute Ischemic Stroke." The International Stroke Conference, in combination with The Joint Section of AANS/CNS Cerebrovascular Section & American Society of Interventional and Therapeutic Neuroradiology, Annual Meeting, San Francisco, CA, February 17, 2007

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Baig MN, Syed S, Caragine LP. “Spinal Epidural Hemangioma: Utility of Intraoperative Sodium Tetradecyl Sulfate.” The Congress of Neurological Surgeons, Chicago, October 9-12, 2006.

Jordan A, Porcu P, Caragine LP, Newton H, Nuovo G, Chaudhury A. “Anaplastic Astrocytoma Mimicking HSV Encephalitis in a Patient with Diffuse Large B-cell Lymphoma.” The American College of Pathology, 2006.

Mohammad Y, Christoforidis GA, Slivka A, Caragine LP, Krumah M, Atieh J: “Prognostic Value of the Hyperdense Middle Cerebral Artery Sign in Patients Treated with Intra-arterial Thrombolysis” The Joint Section of AANS/CNS Cerebrovascular Section & American Society of Interventional and Therapeutic Neuroradiology, Annual Meeting, Orlando, February 17, 2006

Caragine LP, Halbach VV, Dowd CF, Higashida RT: “Intra-orbital Arteriovenous Fistulae of the Ophthalmic Veins.” The Joint Annual Meeting AANS/CNS Cerebrovascular Section & American Society of Interventional and Therapeutic Neuroradiology, New Orleans, February 1-4, 2005.

Caragine LP, Halbach VV, Dowd CF, Higashida RT: “Intra-orbital Arteriovenous Fistulae of the Ophthalmic Veins.” The 73rd Annual Meeting of the American Association of Neurological Surgeons (AANS), New Orleans, April 16-21, 2005.

Caragine LP, Halbach VV, Dowd CF, Ng PP, Higashida RT: “The Parallel Venous Channel as the Recipient Pouch in Transverse/Sigmoid Sinus Dural Fistulas.” The Congress of Neurological Surgeons, Colorado, 2003, and, The 29th International Stroke Conference of the ASA, San Diego, CA, 2004.

Gupta D, Young W, Higashida R, Caragine LP, Lefler J, Quinine N, Hashimoto T, Dowd C, Halbach V, Halim A: “The effect of nitric oxide synthase inhibition on hyperemia following transluminal cerebral angioplasty.” The American Society of Anesthesiology, New Orleans 2001.

Caragine LP, Koopman A, Roszler M, Lazo A, Gordon V, Coplin B, Diaz F, Michael D: “The Aneurysmal Ghost Sign.” The Congress of Neurological Surgeons, Boston 1999.

Park H, Caragine LP, Diaz FG: “Evaluation of ischemic-neuronal damage in rat models.” The Congress of Neurological Surgeons, Boston 1999.

Caragine LP, Park H, Wells AM, Phillis J, Diaz FG: “Real time glutamate release and cerebral blood flow changes in two models of rat forebrain ischemia.” American Association of Neurological Surgeons, Philadelphia, April, 1998.

Caragine LP, Park H, Diaz FG: “An eleven vessel model of rat forebrain ischemia.” The Michigan Association of Neurological Surgeons, Thompsonville, MI, June 1998.

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Caragine LP, Park H, Diaz FG: "EEG spectral analysis during low flow and no flow states of rat cerebral ischemia." The Michigan Association of Neurological Surgeons, Thompsonville, MI, June 1998, the Society of Neuroscience 28th Annual Meeting, Los Angeles, November 1998, and the American Association of Neurological Surgeons, New Orleans, April 1999.

Park H, Caragine LP, Diaz FG: "Wavelet comparison of ischemic degree in two models of rat forebrain ischemia." American Association of Neurological Surgeons, Philadelphia, April 1998.

Park H, Caragine LP, Diaz FG: "Evaluation of ischemic-reperfusion injury using Wavelet Transform of EEG." The Congress of Neurological Surgeons, New Orleans 1997.

Caragine LP, Galaniuk A, Rogers AB, Kuldjanov D, Michael, DB: Computer Assisted Design (CAD) Pre Cast Craniofacial Reconstruction Using Bone Source® Hydroxyapatite Cement (HAC).

International Oral Presentations:

Karas C, Baig M, Hirschl B, Caragine LP: "Neurosurgical robotics: a cadaveric feasibility trial of cerebrovascular applications for the da Vinci Surgical System." The 9th Congress of the European Skull Base Society, Rotterdam, Netherlands, April 15-18, 2009.

Diaz FG, Guthikonda M, Gordon V, Caragine LP: "Cerebral Aneurysms." The World Federation Neurosurgical Society Meeting, Gramado, Brazil, September, 1999.

Participation in IRB Approved Studies:

Patients Prone to Recurrence after Endovascular Treatment. PRET: Multicenter randomized trial comparing hydrogel-coated and platinum standard coils. Primary Investigator, Saint Francis Medical Center, (2010-present), OSU 2009.

Onyx Liquid Embolic System (Onyx HD-500) for intracranial aneurysm use. Primary Investigator, Saint Francis Medical Center (2009-present) and OSU (2008-2009).

The Wingspan HDE Stent System in Intracranial Atherosclerotic Disease (ICAD), Primary Investigator, Saint Francis Medical Center, (2009-present) and OSU, (2007-2009).

The Neuroform Microdelivery Stent System, Humanitarian Device Exemption. Primary Investigator, Saint Francis Medical Center, (2009-present); Geisinger Medical Center; Coinvestigator OSU (2003-2009)

The Cordis Enterprise™ Vascular Reconstruction Device and Delivery System, Humanitarian Device Exemption. Primary Investigator, Saint Francis Medical Center, (2009-present); Geisinger Medical Center; Coinvestigator OSU (2003-2009).

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Phase ½ Multicenter, Randomized, and Controlled Trial of Dimethyl Sulfoxide (DMSO) in Closed, Severe, Head Injury. Co-investigator. (2008-2010).

A Randomized, Multicenter Comparison of Intermittent vs. Continuous Drainage of Cerebrospinal Fluid in the Management of Severe Traumatic Brain Injury in Infants and Children. Co-investigator (2003-2005). NIH funded.

Interventional Management of Stroke (IMS) Study/NIH funded (2000-2002)

AngioJet® thrombectomy in middle cerebral artery embolism (Time 1 Study, Co-Investigator) (2000-2002).

Mechanical Embolus Removal in Cerebral Ischemia (MERCII)/ Concentric Medical Trial (2002)