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**CURRENT POSITION:**

**Director, Reinberger Neurosciences Intensive Care Unit  
University Hospitals Case Medical Center**

**ACADEMIC AND HOSPITAL APPOINTMENTS:****ACADEMIC APPOINTMENTS:**

- |              |   |
|--------------|---|
| 2007-present | Director, Reinberger Neurosciences Intensive Care Unit<br>Director, Neurocritical Care Center<br>Co-Director, Cerebrovascular Center<br>Neurological Institute<br>University Hospitals Case Medical Center<br>Maxeen Stone and John A. Flower Endowed Chair in Neurology<br>Professor of Neurology<br>Case Western Reserve University School of Medicine<br>Cleveland, Ohio |
| 2001 - 2007  | Head, Neurological Intensive Care Program<br>Director, Neurology-Neurosurgery Intensive Care Unit<br>Departments of Neurology and Neurosurgery<br>Cleveland Clinic<br>Cleveland, Ohio   |
| 1999 - 2007  | Staff, Section of Stroke and Neurocritical Care<br>Department of Neurology and Neurosurgery<br>Cleveland Clinic<br>Cleveland, Ohio  |
| 1997 - 1999  | Director, Neuroscience Intensive Care Unit and Stroke Unit<br>SUNY Health Science Center at Syracuse<br>Syracuse, New York  |
| 1997 - 1999  | Director, University Stroke Program<br>SUNY Health Science Center at Syracuse<br>Syracuse, New York   |

**AFFILIATED HOSPITAL APPOINTMENTS:**

- 1997 - 1999            Attending Physician, Crouse Irving Memorial Hospital  
Syracuse, New York
- 1997 - 1999            Consulting Physician, Veterans Administration Hospital  
Syracuse, New York

**EDUCATION & TRAINING:**

Education

- 1979 - 1983            High School: Glen Oak High School  
Canton, Ohio
- 1983 - 1985            Undergraduate: Bachelor of Science, Integrated  
Life Sciences Youngstown State University  
Youngstown, Ohio  
(magna cum laude)
- 1985 - 1989            Graduate: Doctor of Medicine  
Northeastern Ohio Universities  
College of Medicine (NEOUCOM)  
Rootstown, Ohio  
Completed accelerated six-year combined  
B.S./M.D. program, graduating with honors

Postgraduate Training

- 1989 - 1992            Resident in Internal Medicine  
University of Michigan Medical Center  
Department of Internal Medicine  
Ann Arbor, Michigan  
Directors - William Kelley, M.D. and Tadataka Yamada, M.D.
- 1992 - 1994            Fellow in Neurocritical Care Medicine  
University of Heidelberg Kopf Klinik  
Department of Neurology  
Heidelberg, Germany  
Director - Werner Hacke, M.D., Ph.D.
- 1994 - 1996            Resident in Neurology  
Tufts University- New England Medical Center and  
The Floating Hospital for Infants and Children  
Department of Neurology  
Boston, Massachusetts  
Directors - Louis Caplan, M.D. and Allan Ropper, M.D.

**EDUCATIONAL SERVICE:**

National/International

**National / International**

- 2009    Director of Neurocritical Care 2009: All Together Now, the 7<sup>th</sup> Annual Cleveland Neurocritical Care &  
Stroke Conference  
Cleveland, Ohio, September 24-25, 2009
- 2009    Director of 3<sup>rd</sup> Annual Cleveland Vascular Neurology Boards Review Course

- Cleveland, Ohio September 26, 2009
- 2009 Director of 2<sup>nd</sup> Annual Case Critical Care Bioinformatics Workshop  
Cleveland, Ohio September 26, 2009
- 2008 Director of Neurocritical Care 2008: Getting Better, the 6<sup>th</sup> Annual Cleveland Neurocritical Care & Stroke Conference  
Cleveland, Ohio, September 12-13, 2008
- 2008 Director of 2<sup>nd</sup> Annual Cleveland Vascular Neurology Boards Review Course  
Cleveland, Ohio September 11, 2008
- 2008 Director of 1st Annual Case Critical Care Bioinformatics Workshop  
Cleveland, Ohio September 12, 2008
- 2007 Session Moderator, Oral Abstracts Session, Neurocritical Care Society 5<sup>th</sup> Annual Meeting, Las Vegas, NV, November 2-3, 2007
- 2007 Director of Neurocritical Care 2007: You Might Think, the 5<sup>th</sup> Annual Cleveland Clinic Neurocritical Care & Stroke Conference  
Cleveland, Ohio, October 5-6, 2007
- 2007 Director of the Cleveland Clinic Comprehensive Vascular Neurology Boards Review Course  
Cleveland, Ohio October 4, 2007
- 2007 Co-Director of Current Concepts of Neurocritical Care, 2007 Congress of Neurological Surgeons Annual Meeting  
San Diego, California, September 20, 2007
- 2006 Co-Director of Neurocritical Care 2006: Synchronicity, A Joint Global Summit of the 4<sup>th</sup> Annual Cleveland Clinic Neurocritical Care & Stroke Conference and the 4<sup>th</sup> Annual Neurocritical Care Society Meeting.  
Baltimore, Maryland, November 2-5, 2006
- 2004 Director of Neurocritical Care 2004: Imagine, A Global Summit on Critical Care for Cerebrovascular Disease  
Cleveland, Ohio, November 5-6, 2004
- 2003 Director of Neurocritical Care 2003: Here Comes the Sun, A Global Summit on Critical Care for Cerebrovascular Disease  
Cleveland, Ohio, September 5-6, 2003
- 2001 Co-Director of Neurocritical Care 2001: Returning from the Dark Side of the Brain (in conjunction with the Fourth International Clinical Neuromonitoring Meeting),  
Cleveland, Ohio, September 28-29, 2001
- 2001 Session Moderator of "Special Symposium, New Perspectives for Hypothermia in Brain Ischemia", 26<sup>th</sup> International Stroke Conference, American Stroke Association, February 15, 2001
- 1996 Member, Organizing Committee for the Emergency Management and Critical Care of Stroke Satellite Conference to the Joint Third World Stroke Congress and the Fifth European Stroke Conference, Heidelberg, Germany

#### **Residents and Fellow Education**

- 2007-present Program Director, Neurocritical Care Fellowship  
University Hospitals Case Medical Center
- 2007-present Program Director, Vascular Neurology (stroke) Fellowship  
University Hospitals Case Medical Center
- 2001-2007 Program Director, Neurocritical Care Fellowship  
The Cleveland Clinic Foundation, 1999 – 2007

#### **Past and Present Neurocritical Care Clinical Fellows (since 2000)**

- Alex Abou-Chebl, M.D. 2000-2001
- Vivek Sabharwal, M.D. 2001-2002
- Maria Donato, M.D. 2003-2004
- Qasim Bashir, M.D. 2004-2006
- Vikram Dhawan, M.D. 2005-2007

|                     |           |
|---------------------|-----------|
| Asma Zakaria, M.D.  | 2007-2009 |
| Karel Fuentes, M.D. | 2007-2009 |
| Alan Hoffer, MD     | 2007-2008 |
| Ashwani Joshi, MD   | 2008-2010 |
| Amedeo Meranda, MD  | 2008-2010 |
| Vishal Patel, MD    | 2009-2011 |
| Chris Horn, MD      | 2009-2011 |

#### **Past Neurocritical Care Research Fellows**

|                        |           |
|------------------------|-----------|
| Anupa Deogaonkar, M.D. | 2003-2004 |
|------------------------|-----------|

#### **Past and Present Stroke (Vascular Neurology) Fellows (since 2000)**

|                         |           |
|-------------------------|-----------|
| Rishi Gupta, M.D.       | 2003-2004 |
| Randall Edgell, M.D.    | 2004-2006 |
| Andrew Russman, M.D.    | 2005-2006 |
| Raphael Carandang, M.D. | 2006-2007 |
| Marilou Ching, M.D.     | 2006-2007 |
| Ashish Nanda, M.D.      | 2007-2008 |
|                         | 2008-2009 |
| Vincent Truong, MD      | 2008-2009 |
| Jitendra Sharma, MD     | 2009-2010 |

#### **Other Educational Activities**

|                |   |
|----------------|---|
| 2007 - present | Training of Neurocritical Care Fellows<br>University Hospital Case Medical Center   |
| 2007 - present | Training of Pulmonary Critical Care and Anesthesia Critical Care Fellows<br>University Hospital Case Medical Center                           |
| 2007 - present | Training of Neurology and Neurosurgery Residents<br>University Hospital Case Medical Center   |
| 2007           | Judge for Neuroscience Research Day<br>May 2007<br>The Cleveland Clinic Foundation  |
| 2000           | Judge for Neuroscience Research Day<br>May 2000<br>The Cleveland Clinic Foundation  |
| 1999 - 2007    | Training of Neurocritical Care and Vascular Neurology (Stroke) Fellows<br>The Cleveland Clinic Foundation                                     |
| 1999 - 2007    | Training of Pulmonary Critical Care and Anesthesia Critical Care Fellows<br>The Cleveland Clinic Foundation                                   |
| 1999 - 2007    | Training of Neurology, Neurosurgery, Medical, and Anesthesiology Residents<br>The Cleveland Clinic Foundation                                 |
| 1999 - 2007    | Examiner for mock oral neurology boards<br>Department of Neurology,<br>The Cleveland Clinic Foundation  |
| 1999 - 2007    | Lecturer, Neurology, Neurosurgery, and Anesthesia Resident Clinical<br>Conference Series and Journal Clubs at The Cleveland Clinic Foundation |
| 1999 - 2007    | Weekly Attending Teaching Rounds with Neurology, Neurosurgery, and<br>Anesthesia Residents at The Cleveland Clinic Foundation                 |
| 1997 - 1999    | Weekly Attending Teaching Rounds with Neurology, Neurosurgery and<br>Medical Residents at SUNY Health Science Center                          |
| 1997 - 1999    | Training of Pulmonary Critical Care and Anesthesia Critical Care Fellows at<br>SUNY Health Science Center                                     |
| 1997 - 1999    | Lecturer, Neurology Resident Clinical Conference Series and Journal Club,<br>SUNY Health Science Center                                       |

- 1997 - 1999 Lecturer, Department of Internal Medicine, Division of Pulmonary/ Critical Care Clinical Conference Series, SUNY Health Science Center
- 1997 - 1999 Lecturer, Department of Emergency Medicine, Clinical Conference Series, SUNY Health Science Center

**Medical Students and Postgraduate Student Education**

- 2007 - present Weekly Attending Teaching Rounds and with 3<sup>rd</sup> and 4<sup>th</sup> year medical students Case Western Reserve University School of Medicine
- 2007 - present Instructor for Neuroscience Clerkship (3<sup>rd</sup> year medical students) Case Western Reserve University School of Medicine
- 2006- 2007 Weekly Attending Teaching Rounds and with 3<sup>rd</sup> and 4<sup>th</sup> year medical students Cleveland Clinic Lerner College of Medicine of Case Western Reserve University
- 2005- 2007 Instructor for Neural and Musculoskeletal Science course (2nd year medical students), Cleveland Clinic Lerner College of Medicine of Case Western Reserve University
- 2005- 2007 Member, Neuroscience Education Committee of Cleveland Clinic Lerner College of Medicine of Case Western Reserve University
- 2005- 2007 Weekly Attending Teaching Rounds with Bioethics graduate students from Cleveland State University and Case Western Reserve University (Master's program)
- 1997-1999 Facilitator/Tutor, Medicine and Society course; SUNY Health Science Center at Syracuse College of Medicine. The Problems of Consent: Patients with Coma
- 1997 - 1999 Weekly Attending Teaching Rounds with Neurology residents, Neurosurgery residents, and medical students at SUNY Health Science Center
- 1997 - 1999 Instructor for Introduction to Clinical Medicine course (2nd year medical students), SUNY Health Science Center at Syracuse College of Medicine
- 1997 - 1999 Attending Teaching Rounds with Neuropsychology graduate students at SUNY Health Science Center
- 1997 - 1999 Faculty Advisor for medical students at SUNY Health Science Center
- 1996 - 1997 Lecturer for Neurology section of Medicine Lecture Series, Tufts University School of Medicine
- 1995 - 1996 Instructor and Conference group leader Neuroscience course, Tufts University School of Medicine
- 1985 - 1986 Instructor in Molecular Pathology at Northeastern Ohio Universities College of Medicine

**BOARD CERTIFICATION:**

- Diplomat, National Board of Medical Examiners Parts, I- III, 1990
- Diplomat, American Board of Internal Medicine, 1992
- Diplomat, American Board of Psychiatry and Neurology, 1999
- Diplomat, American Board of Psychiatry and Neurology, 2006  
Subspecialty Vascular Neurology
- Diplomat, United Council of Neurologic Subspecialties, 2008  
Subspecialty Neurocritical Care

**HONORS AND AWARDS:**

- Elected Fellow of American College of Critical Care Medicine, 2008
- Elected Fellow of American Heart Association and Stroke Council, 2006
- Elected Fellow of American College of Physicians, 2006
- Awarded SCCM 2006 Research Citation Prize (senior author: Old blood is the key to worse

outcome after transfusion in SAH) at the Society of Critical Care Medicine's 35th Critical Care Congress, San Francisco, CA, January 2006  
Awarded 3rd Prize (first author: Thrombus in vertebrobasilar dolichoectatic artery treated with intravenous urokinase) at the Emergency Management and Critical Care of Stroke Conference, Heidelberg, Germany, September 1996  
Ranked in upper quartile of medical school class  
Recipient of the NEOUCOM Associated Hospitals Award for Excellence in Internal Medicine, May, 1989  
Recipient of the NEOUCOM/Aultman Hospital Award for Excellence in Physical Examination, May, 1988  
Member of Alpha Omega Alpha, Zeta chapter, Northeastern Ohio Universities College of Medicine  
Magna cum laude, Youngstown State University

#### **PROFESSIONAL SOCIETIES:**

American Academy of Neurology  
Executive Committee member of Critical Care and Emergency Neurology Section  
American Cancer Society (Portage County chapter)  
Professional Education Committee (1985-1989)  
Co-Chairman of Student Subcommittee (1985-1989)  
American College of Physicians  
Elected Fellow of American College of Physicians (2006)  
American Heart Association  
Elected Fellow of American Heart Association and Stroke Council (2006)  
Member of Stroke Council  
Board of Directors (1998-1999), Upstate New York Region  
Chairman, Project Stroke Awareness, Response, and Treatment (START) Committee, 1998-1999, Upstate New York Region  
American Medical Association  
American Society of Neuroimaging  
Boston Stroke Society  
German Association for Neurologic Intensive Care Medicine  
(Arbeitsgemeinschaft für Neurologische Intensivmedizin in der Deutschen Gesellschaft für Neurologie)  
Joint Cerebrovascular Section of the American Association of Neurological Surgeons and the Congress of Neurological Surgeons  
Member of Executive Council (2002)  
International Society of Cardiothoracic Surgical Critical Care  
Member of Advisory Board (2006)  
Massachusetts Medical Society  
Michigan Medical Association  
North American Consortium of Acute Brain Injury (NACABI)  
Northern Ohio Medical Association (NOMA) / The Academy of Medicine Cleveland (AMC)  
Neurocritical Care Society  
Charter Member  
Member, Board of Directors  
Member, Education Committee  
Performing Arts Medicine Association of Central New York (PAMA-CNY)  
Board of Directors (1998 - 1999)  
Society of Critical Care Medicine  
Elected Fellow of American College of Critical Care Medicine  
Member, Tele ICU Committee

#### **HOSPITAL COMMITTEES:**

2009 – present  
Member, Oversight Committee of the Coulter Case Translation Research Partnership (CCTRP).

Case Western Reserve University

- 2009 – present  
Member, Neurology Peer Review Committee  
University Hospitals Case Medical Center
- 2009 – present  
Director, Case Center for Music and Medicine  
University Hospitals Case Medical Center  
Case Western Reserve University
- 2009 – present  
Member, Case Western Reserve University  
Culture, Creative and Design Committee (Strategic  
Alliance)
- 2008 – present  
Director, Case Critical Care Bioinformatics  
Consortium  
University Hospitals Case Medical Center  
Case Western Reserve University
- 2008 – present  
Fast Track Scope Committee for Critical Care  
Monitors  
University Hospitals Case Medical Center
- 2008 – present  
Care Coordination / Throughput Committee  
University Hospitals Case Medical Center
- 2007 – present  
Neurological Institute Leadership Council  
University Hospitals Case Medical Center
- 2007 – present  
Member, Stroke Quality Initiative Committee  
University Hospitals Case Medical Center
- 2007 – present  
Member, Critical Care Executive Council  
University Hospitals Case Medical Center
- 2007 – present  
Member, Organ Donor Council  
University Hospitals Case Medical Center
- 2007 – present  
Member, Neurology Resident Selection  
Committee  
The Cleveland Clinic Foundation
- 2006 – 2007  
Member, Pharmacy and Therapeutics Committee  
(Neuroscience Specialty Panel,  
Surgery/Anesthesia/Critical Care Panel)  
The Cleveland Clinic Foundation
- 2005 -2007  
Director, Hypothermia After Cardiac  
Arrest Steering Committee  
The Cleveland Clinic Foundation
- 2005 -2007  
Member, Cardiopulmonary Resuscitation Committee  
The Cleveland Clinic Foundation
- 2005 -2007  
Member, Primary Stroke Center

|             |  |
|-------------|--|
|             | Steering Committee<br>The Cleveland Clinic Foundation  |
| 2004 - 2007 | Member, ICU Process Committee<br>The Cleveland Clinic Foundation   |
| 2001- 2007  | Director, NICU Steering Committee<br>The Cleveland Clinic Foundation   |
| 1999 - 2007 | Member, Neurosurgery Resident Selection<br>Committee<br>The Cleveland Clinic Foundation  |
| 1999 - 2002 | Member, Project IMPACT: Interneuron Medical<br>Professional Advisory Consensus Team<br>The Cleveland Clinic Foundation                     |
| 1999- 2002  | Member, POEMs Medical Error Reduction<br>Group<br>The Cleveland Clinic Foundation  |
| 1999 - 1999 | Member, Medical Staff Pharmacy and Therapeutics<br>Committee<br>SUNY Health Science Center at Syracuse                                     |
| 1997 - 1999 | SUNY Health Science Center at Syracuse<br>Member, Intensive Care Unit Collaborative<br>Committee<br>SUNY Health Science Center at Syracuse |
| 1997 - 1999 | Member, Intensive Care Unit Governance Council<br>SUNY Health Science Center at Syracuse   |
| 1997 - 1999 | Member. Critical Care Redesign Team<br>SUNY Health Science Center at Syracuse  |
| 1997 - 1999 | Member, Picture Archiving and Communication<br>System (PACS) Committee<br>SUNY Health Science Center at Syracuse                           |
| 1997 - 1999 | Member, Neurology Resident Selection Committee<br>SUNY Health Science Center at Syracuse   |
| 1997 - 1999 | Member, Peer Review Committee<br>SUNY Health Science Center at Syracuse  |
| 1997 - 1999 | Ad hoc primary reviewer for the Institutional<br>Review Board<br>SUNY Health Science Center at Syracuse                                    |

**AD HOC REVIEWER:**  
Archives of Neurology

- Circulation

- Critical Care Forum
- Critical Care Medicine
- Journal of Applied Physiology
- Journal of Cerebral Blood Flow & Metabolism
- Journal of Intensive Care Medicine
- Journal Watch Neurology
- Neurosurgery
- Stroke

## **ADVISORY COUNCILS & PROFESSIONAL SERVICE:**

### **Advisory Activities**

#### **Government**

- |      |  |
|------|--|
| 2004 | Member, Advisory Panel to Food and Drug Administration<br>Office of Orphan Products Development Grant Program  |
| 2003 | Member, Advisory Panel to National Institute of<br>Neurological Disorders and Stroke and National Heart, Lung,<br>and Blood Institute on Priorities for Clinical Research in the<br>Treatment of Acute, Non-Traumatic Intracerebral Hemorrhage |

#### **Industry**

- |              |   |
|--------------|---|
| 2008-present | Member, International Advisory Board<br>Orsan Medical Technologies Ltd.<br>Netanya , Israel                         |
| 2007         | Advisor, Arbor Vita Corporation<br>Sunyvale, California   |
| 2006- 2007   | Chairman, Neurological Events Review Committee,<br>Alfimeprase Study HA007,<br>Nuvelo, Inc., San Carlos, California |
| 2005- 2006   | Chairman, Neurological Events Review Committee,<br>Alfimeprase Sudy HA004,<br>Nuvelo, Inc., San Carlos, California  |
| 2003-2006    | Member, Executive Steering Committee, Co-Axia Inc.,<br>Maple Grove, Minnesota                                       |
| 2002-2006    | Member, Scientific Advisory Board, Codman & Shurtleff, Inc,<br>Raynham, Massachusetts                               |
| 2001-2007    | Member, Scientific Advisory Board, Radiant Medical, Inc.,<br>Redwood City, California                               |

#### **Other Activities**

- |                |   |
|----------------|---|
| 2005-2006      | Completion of "Leading in Health Care" series – a CCF-sponsored<br>comprehensive 8-month course on health care management in association<br>with the University of Massachusetts- Amherst                                     |
| 2005 - present | Ad hoc medical commentator for NBC, ABC, MSNBC, and CNN   |
| 1995           | Translator and Language Editor of Wissensbasierte<br>Diagnose- und Informationssysteme Mit Anwendungen des<br>Expertensystem-Shell-Baukastens Puppe F, Gappa U, Poeck K,<br>Bamberger S.<br>Springer Verlag Berlin Heidelberg |
| 1994           | Language editor for Neurocritical Care. Hacke W, Hanley DF,<br>Einhaupl K, Bleck TP, Diringer M (eds.) Springer Verlag Berlin<br>Heidelberg   |

## RESEARCH:

1. Principal Investigator, Cooling for Acute Ischemic Brain Damage (COOL AID) II: A Pilot, Clinical Randomized Trial of Hypothermia for Ischemic Stroke.
2. Principal Investigator, Cerebral Oxygenation Monitoring in Patients with Vasospasm Following Subarachnoid Hemorrhage
3. Principal Investigator, Intracerebral Microdialysis in Patients with Vasospasm Following Subarachnoid Hemorrhage
4. Principal Investigator, Prospective Cleveland Clinic Foundation Database of Subarachnoid Hemorrhage
5. Co-Principal Investigator, Prospective Cleveland Clinic Foundation Database of Factors Affecting Extubation in the NICU
6. Co-Principal Investigator, Cooling for Acute Ischemic Brain Damage (COOL AID I): A Pilot, Safety and Feasibility Trial of Hypothermia for Ischemic Stroke
7. Co-Investigator, Minimally Invasive Surgery plus T-PA for Intracerebral Hemorrhage Evacuation (MISTIE)
8. Co-Investigator, PROTECTed Study: Carotid Artery Stenting in Subjects at High Risk for Carotid Endarterectomy (CEA)
9. Co-Investigator, A Prospective, Multi-Center, Long Term Follow Up Study of Carotid Artery Stenting in High-Risk Patients Who Were Implanted With An Acculink Stent in the Archer Trial (ARChER 1, 2, and 3)
10. Co-Investigator, Carotid RX Acculink/Accunet Post-Approval to Uncover Unanticipated and Rare Events (CAPTURE 2)
11. Co – Investigator, Evaluation of the Penumbra Stroke System in the Revascularization of Patients with Acute Ischemic Stroke Secondary to Large Vessel Cerebrovascular Disease
12. Co – Investigator, Insulin Intervention After Stroke (IRIS) Trial
13. Co – Investigator, Interventional Management of Stroke (IMS III)
14. Co – Investigator, FAST: Randomised, Double-Blind, Placebo Controlled, Multi-Centre, Parallel Groups Confirmatory Efficacy and Safety Trial of Activated Recombinant Factor VII (NovoSeven) in Acute Intracerebral Hemorrhage
15. Co – Investigator, Bispectral Analysis (BIS) Monitoring in Neurocritical Care
16. Co – Investigator, The DEDAS study (Dose Escalation study of Desmoteplase in Acute ischemic Stroke)
17. Co – Investigator, CONSCIOUS-1 Study: A phase IIb, multi-center, international, double-blind, randomized, placebo-controlled, parallel-group, dose finding study for the prevention of cerebral vasospasm after aneurysmal subarachnoid hemorrhage by intravenous administration of Clazosentan, a selective endothelin A receptor antagonist
18. Co – Investigator, CONSCIOUS-1I Study
19. Co – Investigator, COOLCAT Study: Prospective pilot study of Mild Systemic Hypothermia in Patients undergoing Endovascular Treatment for Cerebral Aneurysms
20. Co – Investigator, Carotid Revascularization Endarterectomy vs. Stent Trial (CREST)
21. Co – Investigator, Stenting of High Risk Patients: Extracranial Lesion Trial with Emboli Removal (SHELTER)
22. Co – Investigator, A Clinical Study of Perfusion Augmentation in Acute Ischemic Stroke Using NeuroFloTM Technology
23. Co – Investigator, HeADDFIRST: Hemispherectomy and Durotomy for Massive Hemispheric Infarcts: A Multicenter Randomized Trial
24. Co – Investigator, IVH Thrombolysis -A Phase II, randomized, double-blinded, placebo-

- controlled, multicenter clinical study
25. Co – Investigator, Combination Chemotherapy with Carboplatin, Etoposide Phosphate and Cytoxan Administered in Conjunction with Osmotic Blood-Brain Barrier Disruption (BBBD) and Sodium Thiosulfate as an Otoprotectant in Patients with Brain Malignancies
  26. Co – Investigator, Abciximab (ReoPro®) in Acute Ischemic Stroke: A Randomized, Double-Blind, Placebo-Controlled Trial
  27. Co – Investigator, PReFESS - Prevention Regimen for Effectively Avoiding Second Strokes, A Double-blind, Active and Placebo Controlled Study of Aggrenox vs. Clopidogrel With and Without Micardis
  28. Co – Investigator, Angiojet Thrombectomy in Middle Cerebral Artery Embolism (Time 1) study
  29. Co – Investigator, Warfarin vs. Aspirin for Symptomatic Intracranial Disease Study (WASID)
  30. Co – Investigator, Management of Atherothrombosis with Clopidogrel in High-risk patients with recent transient ischemic attack or ischemic stroke: a randomized, double blind study, with 18 months of follow-up (MATCH)
  31. Co – Investigator, Stenting and Angioplasty with Protection in Patients at High-Risk for Endarterectomy Study (SAPPHIRE)
  32. Co- Investigator, An examination of the potential cerebral protective efficacy of mild intraoperative hypothermia during intracerebral aneurysm surgery (IHAST 2 Study)

#### **INVITED PRESENTATIONS:**

1. Decompressive Craniectomy: Back to the Future, Neurology/Neurosurgery Grand Rounds, State University of New York Health Science Center, Syracuse, New York, January 25, 1996
2. Treatment of Acute Stroke, Medical Grand Rounds, Aurelia Osborn Fox Memorial Hospital, Onieonta, New York, November 4, 1997
3. Thrombolysis for Acute Stroke, Pulmonary Critical Care Lecture Series, State University of New York Health Science Center, Syracuse, New York, February 20, 1998
4. Management of Intracerebral Hemorrhage, Acute Stroke Teaching Day, Syracuse, New York, March 25, 1998
5. Treatment of Increased Intracranial Pressure, Pulmonary Critical Care Lecture Series, State University of New York Health Science Center, Syracuse, New York, March 20, 1998
6. Case Presentation: Bilateral Vertebral Artery Disease and Antiphospholipid Antibodies, Cerebrovascular Case Studies, 50th Annual American Academy of Neurology Meeting, Minneapolis, MN, May 1, 1998
7. Controversies in Intracranial Pressure Management, Neurology/Neurosurgery Grand Rounds, State University of New York Health Science Center, Syracuse, New York, May 13, 1998
8. Organization and Function of an Acute Stroke Unit, 7th European Stroke Conference, Edinburgh, Scotland, May 30, 1998
9. Cerebral Perfusion Pressure and Brain Tissue Oxygenation Management: The Bottom Line, Department of Emergency Medicine Grand Rounds, State University of New York Health Science Center, Syracuse, New York June 19, 1998
10. Brain Resuscitation, Pulmonary Critical Care Lecture Series, State University of New York Health Science Center, Syracuse, New York, September 11, 1998
11. Management of Intracerebral Hemorrhage, Department of Emergency Medicine Grand Rounds, State University of New York Health Science Center, Syracuse, New York January 20, 1999
12. The Future of Stroke Treatment. Board of Directors Meeting, American Heart Association, Upstate New York Region, March 15, 1999
13. A Vertebrobasilar Insufficiency: The Double Standard at Neurology/Neurosurgery Grand Rounds, State University of New York Health Science Center, Syracuse, New York, June 9, 1999
14. Controversies in Intracranial Pressure Management. Neurosurgery Grand Rounds, The Cleveland Clinic Foundation, Cleveland, Ohio, August 11, 1999
15. Acute Stroke Management: Basic Principles of Management for Acute Stroke sponsored by the American Academy of Neurology, Syracuse, New York, September 29, 1999
16. Stroke Prevention, American Heart Association, Update on Stroke Prevention and Treatment, Utica, New York

York, November 19, 1999

17. Anticoagulation in Acute Stroke, American Heart Association, Update on Stroke Prevention and Treatment, Utica, New York, November 19, 1999
18. Intracerebral Hemorrhage, Neurology Emergency Lecture Series, The Cleveland Clinic Foundation, Cleveland, Ohio, August 21, 2000
19. Management of Increased Intracranial Pressure, Neurology Emergency Lecture Series, The Cleveland Clinic Foundation, Cleveland, Ohio, September 11, 2000
20. Hypothermia for Acute Ischemic Stroke: COOLAID, Cerebrovascular Conference Ludwig-Maximilians-University, Munich, Germany, January 22, 2001.
21. Multi-Modal Monitoring in Subarachnoid Hemorrhage. Neurocritical Care 2001: Returning From the Dark Side of the Brain, Cleveland, Ohio, September 28-29, 2001
22. Hypothermia for Acute Ischemic Stroke: COOLAID. Neuroscience Nursing Conference 2001, Cleveland, Ohio November 10, 2001
23. Hypothermia for Ischemic Stroke. Snowmass Winter Neurosurgical Conference. Aspen, Colorado, March 1-3, 2002
24. Multi-Modal Monitoring in the NICU. Neuroanesthesia Grand Rounds. The Cleveland Clinic Foundation, Cleveland, OH, March 27, 2002
25. Hypothermia in Ischemic Stroke: To Cool or Not to Cool. Controversies in Critical Care. 54<sup>th</sup> Annual American Academy of Neurology, Meeting, Denver, Colorado, April 13-19, 2002
26. Brain Tissue Oxygenation Monitoring at the Bedside. Controversies in Critical Care 54<sup>th</sup> Annual American Academy of Neurology, Meeting, Denver, Colorado, April 13-19, 2002
27. Stroke Units. Cerebrovascular Disease: Advances in Stroke for the New Millennium 54<sup>th</sup> Annual American Academy of Neurology, Meeting, Denver, Colorado, April 13-19, 2002
28. Lobar Hemorrhage: To Evacuate or Not to Evacuate. Cerebrovascular Disease: Advances in Stroke for the New Millennium 54<sup>th</sup> Annual American Academy of Neurology, Meeting, Denver, Colorado, April 13-19, 2002
29. Research in the Neurocritical Care Unit. Neurosurgery Mini-Symposium at The Cleveland Clinic Foundation, Cleveland, Ohio, May 22-24, 2002
30. Treatment of Acute Stroke: Basic Principles Health Exchange, The Mandel Jewish Community Center, Beachwood, Ohio May 28, 2002
31. Multi-Modal Monitoring in Neurocritical Care, Neuroscience Grand Rounds, Cleveland Clinic Foundation, Cleveland, Ohio, July 8, 2002
32. Multi-Modal Monitoring in Neurocritical Care, Pulmonary Critical Care Grand Rounds, Cleveland Clinic Foundation, Cleveland, Ohio, August 6, 2002
33. Multi-Modal Monitoring in Neurocritical Care. Snowmass Winter Neurosurgical Conference. Aspen, Colorado, February 23-28, 2003
34. Pathophysiology of Hypothermic Myocardial Protection: Heart versus Brain. Third International Symposium on Therapeutic Hypothermia, Vienna, Austria, May 9-11, 2003
35. Multi-Modal Monitoring in Neurocritical Care. Neurocritical Care 2003: Here Comes the Sun. Cleveland, Ohio, September 28-29, 2003
36. Treatment of Status Epilepticus. Conference on Neurological Emergencies. Cleveland, Ohio October 31, 2003
37. Hypothermia for Acute Ischemic Stroke: COOL AID Update. Neuroscience Nursing Conference 2003, Cleveland, Ohio, November 14, 2003
38. Brain Salvage: The Role of Critical Care in Stroke. New Developments & Controversies in Cerebrovascular Intervention, San Diego, CA, February 4, 2004
39. Temperature Modulation in Neurocritical Care. Neuroanesthesia Grand Rounds. The Cleveland Clinic Foundation. Cleveland, Ohio, February 12, 2004
40. Role of the Neurointensivist in the Neurosurgical Setting: Snowmass Winter Neurosurgical Conference. Aspen, Colorado, February 23-28, 2004
41. Hypothermia for Heart and Soul. Neurosciences Grand Rounds, The Cleveland Clinic Foundation, Cleveland, Ohio, May 4, 2004
42. Neurocritical Care for Ischemic and Hemorrhagic Stroke. University of Virginia Neurocritical Care Conference, Charlottesville, Virginia, September 24, 2004

43. Hypothermia for Heart and Soul. Neurocritical Care 2004: Imagine, Cleveland, Ohio, November 6, 2004
44. Neurocritical Care for Large Ischemic and Hemorrhagic Stroke. Neurosciences Nursing Symposium, Cleveland, Ohio, November 10, 2004
45. Methods of Hypothermia, The Society of Critical Care Medicine's 34th Critical Care Congress, Phoenix, Arizona, January 15, 2005
46. Dealing with Pressure: Controversies in the Management of Increased Intracranial Pressure. Cerebrovascular Basic Science Series. The Cleveland Clinic Foundation. February 16, 2005
47. Update on Cardiac Arrest and Hypothermia. Third Annual Neurocritical Care Society Meeting. Scottsdale, Arizona, February 25, 2005
48. The Dying President: Cerebrovascular Disease and Franklin Delano Roosevelt. Winter Neuroscience Symposium, Aspen, Colorado, February 28, 2005
49. History of Neurocritical Care. Neurology-Neurosurgery Symposium, Clinica Alemana, Santiago, Chile, May 12, 2005
50. Management of Intracerebral Hemorrhage. Neurology-Neurosurgery Symposium, Clinica Alemana, Santiago, Chile, May 12, 2005
51. Subarachnoid Hemorrhage and Vasospasm: A Riddle Wrapped within a Mystery inside an Enigma. Neurology-Neurosurgery Symposium, Clinica Alemana, Santiago, Chile May 12, 2005
52. Multi-Modal Monitoring in the NICU. Neurology-Neurosurgery Symposium, Clinica Alemana, Santiago, Chile, May 12, 2005
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54. Management of Large Ischemic Stroke. Neurology-Neurosurgery Symposium, Clinica Alemana, Santiago, Chile, May 12, 2005
55. Neuromonitoring in the Intensive Care Unit. Summer in Seattle Neurology-Neurosurgery Conference. Seattle, Washington, July 21, 2005
56. The Case Against Microdialysis. EuroNeuro 2005, Cambridge, United Kingdom, September 1, 2005
57. The Role of Neurocritical Care in Acute Stroke Management. Active Communications International Comprehensive Stroke Center Series, Chicago, Illinois, October 6, 2005
58. Transfusion Thresholds in Subarachnoid Hemorrhage. The Winter Clinics for Cranial and Spinal Surgery. Aspen, Colorado, February 28, 2006
59. Keeping a Cool Head: Therapeutic Hypothermia After Cardiac Arrest. Cleveland Clinic Intensive Care Unit Forum, The Cleveland Clinic Foundation, March 7, 2006
60. Thermoregulation, heat balance and shivering. The 3<sup>rd</sup> New York Symposium on Neurological Emergencies and Neurocritical Care, New York, New York, May 2, 2006
61. Hypothermia for Acute Ischemic Stroke. The 3<sup>rd</sup> New York Symposium on Neurological Emergencies and Neurocritical Care, New York, New York, May 2, 2006
62. Brain Tissue Oxygen Tension in Neurocritical Care. The 3<sup>rd</sup> New York Symposium on Neurological Emergencies and Neurocritical Care, New York, New York, May 4, 2006
63. Practical Issues of Implementing Hypothermia After Cardiac Arrest. The 58<sup>th</sup> Annual American Academy of Neurology Meeting. San Diego, California April 2, 2006
64. Management of Perioperative Stroke. Cardiothoracic Surgical Critical Care. Washington D.C., April 28, 2006
65. All You Need Is Blood: Transfusion Requirements in Neurocritical Care. Summer in Seattle Neurology-Neurosurgery Conference. Seattle, Washington, July 21, 2006
66. Acute Ischemic Stroke: The First Hour of Treatment. "Update on Neurology 2006" Pontificia Universidad Católica de Chile, Santiago, Chile, September 8, 2006
67. Management of Intracerebral Hemorrhage. "Update on Neurology 2006" Pontificia Universidad Católica de Chile, Santiago, Chile, September 8, 2006
68. Stroke After Cardiac Surgery: Heart versus Brain. "Update on Neurology 2006" Pontificia Universidad Católica de Chile, Santiago, Chile, September 8, 2006
69. "Evidenced-Based Medicine" in Neurocritical Care. 2006 Congress of Neurological Surgeons Annual Meeting, Chicago, Illinois, October 8, 2006
70. Advances in Neurological Care for Grown-ups. Hot Topics in Neuroneonatology, Washington D.C., December 3, 2006

71. Treatment of Increased ICP and Other Complications of Stroke. Cleveland Clinic Update on Cerebrovascular Disease. Independence, Ohio, December 8, 2006
72. Update in the Critical Care part of Neurocritical Care. The Winter Clinics for Cranial and Spinal Surgery. Aspen, Colorado, February 26, 2007
73. Hemodynamic Management and Cerebral Perfusion: Targeting the Optimal Blood Pressure and Cardiac Output for Postoperative CTS Patients. Cardiothoracic Surgical Critical Care 2007. Washington D.C., March 22, 2007
74. Struck by the Hand of God: The Collision of Stroke and World History. University Hospital Case Western Reserve, Cleveland, Ohio, March 2, 2007
75. Struck by the Hand of God: The Collision of Stroke and World History. University of Michigan Medical Center, Ann Arbor, Michigan, March 16, 2007
76. Struck by the Hand of God: The Collision of Stroke and World History. Victory Over Stroke, Peninsula Stroke Association, Palo Alto, California, May 22, 2007
77. Brain Tissue Oxygen Monitoring in SAH. The 4<sup>th</sup> New York Symposium on Neurological Emergencies and Neurocritical Care, New York, New York, May 25, 2007.
78. Physiology of Thermoregulation. The 4<sup>th</sup> New York Symposium on Neurological Emergencies and Neurocritical Care, New York, New York, May 25, 2007
79. Hypothermia and Neuroprotection. Advanced Concepts in Neurocritical Care, September 15, 2007, 57<sup>th</sup> Congress of Neurological Surgeons, San Diego, CA
80. Multi-modal monitoring in the Neuro- ICU. Advanced Concepts in Neurocritical Care, September 15, 2007, 57<sup>th</sup> Congress of Neurological Surgeons, San Diego, CA
81. Intracranial Pressure and the Malignant MCA Territory Stroke. Advanced Concepts in Neurocritical Care, September 16, 2007, 57<sup>th</sup> Congress of Neurological Surgeons, San Diego, CA
82. Hypothermia for Malignant Hemispheric Stroke. University of Pittsburgh Stroke Conference, September 28, 2007.
83. Rare Causes of Stroke, Cleveland Clinic Comprehensive Vascular Neurology Boards Review Course, October 4, 2007, Cleveland, OH
84. Struck by the Hand of God: The Collision of Stroke and World History. Neurocritical Care 2007: You Might Think, October 5-6, 2007, Cleveland, OH
85. Cerebral Vasospasm: A Riddle Wrapped within an Enigma. Ophthalmology Conference, The Cleveland Clinic, Cleveland Ohio, October 27, 2007
86. Cerebral Vasospasm, Survey of Current Issues In Anesthesia. Naples, Florida, November 28, 2007
87. Perioperative Stroke, Survey of Current Issues In Anesthesia Naples. Florida, November 28, 2007
88. Hypothermia and Neuroprotection, Survey of Current Issues In Anesthesia Naples. Florida, November 28, 2007
89. Monitoring massive stroke: noninvasive and invasive techniques. International Stroke Conference 2008, New Orleans, LA, February 21, 2008
90. Neurocritical Care for Ischemic and Hemorrhagic Stroke. University Hospitals Case Medical Center Neuroscience Symposium, Cleveland, Ohio March 14, 2008
91. Struck Down: The Collision of Stroke and World History. Keynote Address. University Hospitals Case Medical Center Neuroscience Symposium, Cleveland, Ohio March 14, 2008
92. Struck Down: The Collision of Stroke and World History. 14<sup>th</sup> Annual Meeting of the Preventive Cardiovascular Nurses Association, Orlando, Florida, April 26, 2008.
93. Critical Care Management of Acute Stroke. The 5<sup>th</sup> New York Symposium on Neurological Emergencies and Neurocritical Care, New York, New York, June 5, 2008.
94. Thermoregulation. The 5<sup>th</sup> New York Symposium on Neurological Emergencies and Neurocritical Care, New York, New York, June 6, 2008.
95. Critical Care Management of Intracerebral Hemorrhage. 58<sup>th</sup> Annual Congress of Neurological Surgeons Meeting, Orlando, FL, September 20, 2008
96. Management of Intracranial Hypertension. 58<sup>th</sup> Annual Congress of Neurological Surgeons Meeting, Orlando, FL, September 20, 2008
97. Blood Pressure Management in Intracerebral Hemorrhage, Ohio Coverdell AHA Stroke Nursing Symposium, Cleveland, Ohio, September 24, 2008
98. Struck Down: The Collision of Stroke and World History. St. Johns West Shore Hospital, Medical Grand

- Rounds, Westlake, Ohio, October 3, 2008
99. Hypothermia for Ischemic Stroke: Barriers to Implementation. Neurocritical Care Society 6<sup>th</sup> Annual Meeting, Miami, FL, October 24, 2008
  100. Struck Down: The Collision of Stroke and World History. Stanford University, Neuroscience Grand Rounds, Palo Alto, California, November 14, 2008
  101. Getting Better: Cleveland, Rock and Roll, and the Legacy of University Hospital. Neuroscience Grand Rounds, University Hospitals Case Medical Center, Cleveland, Ohio, January 9, 2009
  102. Dealing with Pressure: Management of Intracranial Hypertension. Fourth Annual Neuroscience Nursing Symposium, Cleveland, Ohio, March 3, 2009
  103. Critical Care Bioinformatics: Dawn of a New Day. Fourth Annual Neuroscience Nursing Symposium, Cleveland, Ohio, March 3, 2009
  104. Struck Down: The Collision of Stroke and World History. Lyndhurst Community Presbyterian Church, Health and Wholeness in Today's World Lecture Series, Key Note Speaker, Lyndhurst, Ohio, March 29, 2009
  105. Clinical Relevance of Blood-Brain Barrier Failure: Dealing With Pressure. Leukocyte Blood-Brain Barrier Interactions as Clinical Targets in Neurological Diseases Conference. Cleveland, Ohio, March 31, 2009
  106. Keeping a Cool Head: Hypothermia After Cardiac Arrest. Neurology Grand Rounds. University Hospitals Case Medical Center, Cleveland, Ohio, May 15, 2009
  107. Struck Down: The Collision of Stroke and World History. Western Neurosurgical Society, Key Note Speaker (George Ablin Lectureship), Sun River, Oregon, September 12, 2009
  108. All Together Now: Cleveland, Rock and Roll, and the Legacy of University Hospital. Neurocritical Care 2009, Cleveland, Ohio, September 24, 2009
  109. Stayin' Alive: Critical Care Management for Ischemic Stroke. Neurocritical Care 2009, Cleveland, Ohio, September 25, 2009
  110. Cold as Ice: Hypothermia for Cardiac Arrest. Neurocritical Care 2009, Cleveland, Ohio, September 25, 2009
  111. You Can't Always Get What You Want: Post Cardiac Arrest Syndrome. Neurocritical Care 2009, Cleveland, Ohio, September 25, 2009
  112. Brain Death and Increased ICP. 1<sup>st</sup> Annual Case TCD Workshop. Cleveland, Ohio, September 26, 2009
  113. Hypothermia for Cardiac Arrest. The Golden Hour. St. John's West Shore 2<sup>nd</sup> Annual Emergency Care Symposium, Westlake, Ohio, November 5, 2009
  114. Struck Down: The Collision of Stroke and World History. 7th Annual Neurocritical Care Society Meeting, Key Note Speaker, New Orleans, Louisiana, November 12, 2009
  115. Keeping a Cool Head: Hypothermia for Cardiac Arrest. 2009 EMS Symposium, Geneva on the Lake, Ohio, November 14, 2009
  116. Dealing with Pressure: Management of Intracranial Hypertension. Fundamentals of Neurocritical care, Baptist Neuroscience Center, Miami, Florida, December 5, 2009
  117. Struck Down: The Collision of Stroke and World History. In Town Club, Key Note Speaker, Cleveland, Ohio, March 29, 2010
  118. Hypothermia For Ischemic Stroke- The Wall. 4th Annual Cerebrovascular Symposium, Swedish Neuroscience Institute, Seattle, Washington, May 13, 2010
  119. Struck Down: The Collision of Stroke and World History. Special Guest Lecture, 4th Annual Cerebrovascular Symposium, Swedish Neuroscience Institute, Seattle, Washington, May 13, 2010

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3. Samaniego EA, Lansberg MG, De Georgia MA, Venkatasubramanian C, WijmanCAC. Favorable outcome from a locked-in state despite extensive pontine infarction by MRI. *Neurocritical Care* 2009
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1. De Georgia MA, Rose D Inflammatory Bowel Disease and Stroke. In Bogousslavsky J, Caplan L (eds.). *Uncommon Causes of Stroke*. Cambridge University Press, 2007.
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#### Invited Book Review

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