

Michael Rene Kurt Jacoby, M.D.
Ruan Neurology Clinic and Clinical Research Center
1111 6th Avenue, East Tower, Suite A100
Des Moines, IA 50314
(515) 358-0011
(515) 358-0099 fax

EDUCATION:

M.D., University of Missouri
Kansas City, Missouri
May, 1990

B.S. Biology, University of Missouri
Kansas City, Missouri
May, 1985

POST GRADUATE:

Director, Ruan Neurology Clinic
Mercy Medical Center, Des Moines, Iowa
(July 1995 – January 2015)

Director, Ruan Neurology Clinical Research Center
Des Moines, Iowa
(July 1995 - present)

Director, Stroke Center
Mercy Hospital Medical Center
(December 1995 - present)

President, Iowa Neurology Research, Inc.
(1997 – present)

Co-Director, Neurology Clinic
University of Iowa Hospitals and Clinics, Iowa City, Iowa
(January 1995 - June 1995)

Cerebrovascular Diseases Fellow
University of Iowa Hospitals and Clinics
(July 1994 - June 1995)

Chief Resident, Neurology
University of Iowa Hospitals and Clinics
(July 1993 - June 1994)

Neurology Resident
University of Iowa Hospitals and Clinics
(July 1991 - June 1993)

Medicine Intern
University of Missouri and Kansas City Affiliated Hospitals
Kansas City, Missouri
(July 1990 - June 1991)

Graduate Teaching Assistant - Anatomy and Physiology

University of Missouri, Kansas City - School of Basic Life Sciences
Kansas City, Missouri
(September 1985 - August 1988)

**CLINICAL
PRIVILEGES:**

Mercy Hospital Medical Center (1995-present)
Des Moines, Iowa

Lutheran Hospital (1995-2012)
Des Moines, Iowa

Broadlawns Hospital (1997-present)
Des Moines, Iowa

Madison County Hospital
Winterset, Iowa

APPOINTMENTS:

Clinical Adjunct Professor, Des Moines University Medical School (2011 – present)

Clinical Professor, College of Podiatric Medicine & Surgery, Des Moines University Medical School (August 2003 – 2005)

Clinical Adjunct Associate Professor, Des Moines University Medical School (Oct. 2003 – 2010)

Director of Neurology, Department of Internal Medicine, Des Moines University Medical School (October 2007 – 2008)

Clinical Adjunct Assistant Clinical Professor of Neurology, Des Moines University Medical School (April 2003 – 2007)

Elected Chairman, Department of Neurology, Mercy Hospital Medical Center (2001 – 2009)
Co-Chairman, Operation Stroke, Iowa American Heart Association (2000 – present)
Mercy Hospital Medical Center Medical Education Committee (2000 – present)
State Board of Medical Examiners, Neurology Reviewer (1997 – present)
Grants Reporting Process Committee, Mercy Medical Center, (May 2002 – December 2002)
National Stroke Council - Liaison for the American Heart Association
Iowa Affiliate (May 1997 - 2000)

Mercy Hospital Neuroscience Governance Committee, Chairman (1998 – 2007)
Mercy Hospital Medical Center Pharmacy and Therapies Committee (1997 – 2013)
Mercy Hospital Medical Center Internal Review Committee (1997 – 2013)
Mercy Clinics Directors Committee (1995 – present)
Epilepsy Association of Iowa (October 1997 – present)
American Academy of Neurology Legislative Action Group (July 1996 – present)
Reviewer, Clinical Neuropharmacology Journal (April 2003 – present)

Multiple Sclerosis Society: Iowa Chapter Board of Directors
and Professional Advisory Committee (1995 – 1997)

Mercy Clinics Compensation Committee (1999)
Mercy Clinics Specialty Committee (July 1995 – 1996)
Mercy Clinics Systems Computer Software Committee (1995 – 1996)
Mercy Clinics Year 2000 Program (1997)
Mercy Hospital Medical Center Special Payments Committee (1996)

University of Iowa Advisory Committee on Prospective Payment Systems (1993 – 1994)
University of Iowa Department of Neurology Committee on Care Mapping (1994 – 1995)
University of Iowa Department of Neurology Quality Assurance Committee (1993 – 1994)
University of Iowa Department of Neurology Improvements Committee (1994)

HONORS/AWARDS: Mercy Medical Center Physician of the Year Award (2013/2014)
Mercy Family Practice Teacher of the Year Award (2007/2008)
Mercy Mayo Family Practice Teacher of the Year Award (June 1999)
Who's Who Registry (December, 1998)
Columbia Presbyterian Medical Center Stroke Preceptorship Program (June 1997)
Physicians Recognition Award, American Medical Association
Honors in Neurology
Honors in Medicine
Outstanding Achievement in Biology
Dean's Honor Roll
Mortar Board National Honor Society
Academic Award, University of Missouri - Kansas City Scholars

RESEARCH: Respect-Esus, Evaluation in secondary stroke prevention comparing the efficacy and safety of dabigatran etexilate versus acetylsalicylic acid in patients with embolic stroke of undetermined source, Boehringer Ingelheim Pharmaceuticals Inc., (PI, 2015 – present)
Socrates, study to prevent major vascular events with Ticagrelor compared to Aspirin in patients with acute ischemic stroke or TIA, AstraZeneca, (PI 2014 – present)
TRx-237-005, study of Leuco-methylthioninium in subjects with Mild Alzheimer's Disease, TauRx Therapeutics Ltd., (PI, 2013 – present)
Clear III, Evaluating Accelerated Resolution of Intraventricular Hemorrhage, NIH, (PI, 2012 – 2014)
Ictus 2/3, Intravascular cooling in the treatment of stroke, NIH, (PI, 2012 – 2014)
Asubio, observational study to evaluate the S-Stream Scale in subjects with nonhemorrhagic ischemic stroke, Asubio Pharmaceutical, (PI, 2012 – 2013)
Synapse, Progesterone in patients with severe traumatic brain injury, BHR Pharma, (PI, 2010 – 2014)
Dias-4, Desmoteplase in subjects with acute ischemic stroke, Lundbeck, (PI, 2011 – 2014)
CFTY720D2312, Assess, study to compare the efficacy and safety of fingolimod vs. glatiramer acetate in patients with relapsing multiple sclerosis, Novartis, (SI, 2012 – present)
CFTY720D2403, Passage, safety study for relapsing multiple sclerosis patients newly started on Gilenya or treated with another approved disease-modifying therapy, Novartis, (SI, 2012 – present)
CFTY720D2399, Gilenya long term safety study for patients with relapsing multiple sclerosis, Novartis, (SI, 2012 – 2014)
Crystal AF, Cryptogenic stroke and underlying AF trial using a device, Medtronic, (PI, 2010 – 2014)
Octapharma, Octagam in patients with mild to moderate Alzheimer's Disease, Octapharma, (PI, 2009 – 2010)
SP902 / SP904, Lacosamide in patients with partial onset seizures, Schwarz, (SI, 2009 – 2011)
Oracle, Cladribine in subjects with a first clinical event at high risk of converting to MS, EMD Serono, (SI, 2009 – 2012)

Mosaic, Rebif autoinjector for patients with relapsing multiple sclerosis, EMD Serono, (SI, 2009 – 2010)

Advance, PEGylated interferon beta 1a in patients with relapsing multiple sclerosis, Biogen Idec, (SI, 2009 – 2013)

EFC10531, teriflunomide in patients with relapsing multiple sclerosis using interferon-beta 1a (Rebif®) as an open-label rater-blind calibrator, Sanofi-aventis (SI, 2008 – 2014)

TYGRIS, Tysabri safety, United Biosource (SI, 2007 – present)

COMBI-RX, comparing the combined use of Interferon Beta-1a and Glatiramer Acetate to either agent alone in patients with relapsing-remitting multiple sclerosis, NINDS (2007 – 2013)

ALLEGRO, safety, tolerability and efficacy of daily oral administration of laquinimod 0.6 mg in subjects with relapsing remitting multiple sclerosis, Tevaneuroscience (SI, 2007 – present)

NABS COUNT, study to evaluate the effect of regularly scheduled neutralizing antibody testing on treatment patterns versus usual care in high-dose interferon treated subjects, Tevaneuroscience (SI, 2007 – 2009)

EFC2946, study of the efficacy of Xaliproden in patients with mild to moderate Dementia of the Alzheimer's type, Sanofi-aventis (PI, 2003 – 2008)

CFTY720D, relapsing-remitting study, Novartis (SI, 2006 – 2012)

CARE-MS II, study comparing two annual cycles of intravenous low and high dose Alemtuzumab to three times weekly subcutaneous Interferon Beta-1a in patients with relapsing-remitting multiple sclerosis who have relapsed on therapy, Genzyme (SI, 2007 – present)

BEYOND FOLLOW UP, safety follow up, Berlex (2007 – 2008)

START, success of titration, analgesics, and B.E.T.A nurse support on acceptance rates in early MS treatment with Betaseron

ROBUST, Interferon β -1b (Betaseron®) given every other day for relapsing forms of multiple sclerosis, Bayer (SI 2007 – 2009)

MAGELLAN, safety study for the prevention of venous thromboembolism in hospitalized medically ill patients comparing Rivaroxaban with Enoxaparin, Bayer (PI, 2007 – 2009)

ENER-G, effects of Natalizumab treatment on fatigue and cognition in subjects with relapsing forms of MS, Biogen Idec (SI, 2007 – 2009)

CARNEROS, safety and efficacy if intra-arterial catheter-directed Altimeprase for restoration of neurologic function and rapid opening of arteries in stroke, Nuvello (PI, 2007 – 2008)

ALIAS, high dose human albumin therapy for neuroprotection in acute ischemic stroke, NIH (PI, January 2007 – 2010)

FORTE GA/9016, safety and tolerability of Glatiramer Acetate 40 mg/ml versus 20 mg/ml in relapsing remitting multiple sclerosis Tevaneuroscience (SI, August 2006 – May 2009)

IMS III, interventional management of stroke trial. NIH/NINDS (PI, July 2006 – 2013)

CHORUS H8W-MC-EGEB, safety, tolerability, pharmacokinetics and pharmacodynamics of LY548806, acute ischemic stroke, Lilly Research Laboratories (PI, 2006 – 2008)

INSIGHT, a serologic study to correlate β -IFN Nab titers to β -IFN induced biomarker response in patients with MS, Biogen-Idec, (2006 – 2008)

SPS3 Secondary Prevention of Small Subcortical Strokes, NINDS, (PI, July 2005 – 2013)

SPI-103 SUN N4057 (piclozotan) Acute Ischemic Stroke Study, Daiichi Asubio (PI, 2005 – 2006)

C-1808 Relapsing Remitting Multiple Sclerosis Study, Biogen, (2004-2006)

PRoFESS Ischemic Stroke Study, Boehringer Ingelheim Pharmaceuticals, Inc. (PI, 2004 – 2008)

ACHIEVE Study, Relapsing Remitting Multiple Sclerosis, TevaNeuroscience, (2004-2007)

Xaliproden EFC2946, Sanofi Aventis, Alzheimer's disease trial, (PI, 2004 – 2008)

IRIS, Insulin Resistance in Ischemic Stroke, NIH, (PI, 2005 – present)

CAPTURE, Carotid Stent Registry, (2005 – 2008)

RESPECT PFO Closure, AGA Medical, (PI 2003 – present)
CHANT Acute Hemorrhagic Stroke Study, Astra Zeneca, (PI, 2004 – 2005)
SAINT II Acute Ischemic Stroke Study, Astra Zeneca, (PI 2004 – 2006)
C-1802 Relapsing Remitting Multiple Sclerosis Study, Biogen, (2002 - 2005)
OLYMPUS Primary Progressive Multiple Sclerosis Study, Genentech, (2004 – 2008)
BEYOND Relapsing Remitting Multiple Sclerosis Study, Berlex, (2004 – 2007)
BODEN, Ruan Neurology Clinical Research Center: Investigator Initiated Protocol, BOTOX treatment of diabetic Peripheral Polyneuropathy Pain, (PI September 2003 – 2005)
ABOVE, Relapsing Remitting Multiple Sclerosis Study, 307245, Berlex, (June 2003 – 2006)
RREACT, Ono Acute Stroke Study (PI August 2002 – 2005)
SPI-102, Suntory Acute Stroke Study (PI August 2002 – 2004)
SENTINEL, Biogen Multiple Sclerosis Study (March 2002 – 2005)
REACT, Bayer Acute Stroke Study (PI, January 2001 – 2004)
CREST, NIH Carotid Revascularization Endarterectomy vs Stent, (2001 – closed)
SWISS, NIH Genetic Stroke registry (PI 2001 – present)
311CUS/0022, AstraZeneca Nasal Spray Headache Study (PI August 2002 – August 2003)
CX516-012, Cortex Mild Cognitive Impairment (January 2002 – August 2003)
MAVERIC, Carotid stenting with distal protection (2002 – 2003)
Vitamin Intervention for Stroke Prevention, NIH (PI, 1997 – 2003)
Suma 40299, Galaxo Headache Study (2002 – 2003)
ARGIS-I, Texas Biotech Acute Stroke Trial (PI, 2002)
IMPRESS, Galaxo Headache Study (2002)
Zanadu, AstraZeneca Headache Study (2002)
BEST, Betaseron MS Study (2002)
Rebject, Serono Multiple Sclerosis Study (2001)
ACES, Axert Headache Study (2001)
Eclipse Compliance Packaging and Safety, Gabitril (2001)
AbBESTT, Lilly Acute Stroke Trial (PI, 2000 – 2001)
KEEPER Trial, Kepra Epilepsy Trial (2000 – 2001)
TACTICS, Topomax Epilepsy Trial (2000)
QUEST, Trileptal Epilepsy Trial (2000)
Donepezil, Eisai Vascular Dementia (PI, 1999 – 2000)
GAIN America, Acute Stroke Study (PI 1999)
LeukArrest, Acute Stroke Study, (PI, 1999 – 2000)
BMS Acute Stroke Study, (PI, 1998 – 2000)
Clomethiazole, Acute Stroke Study, (PI, 1997 – 2000)
MAPS, Maxalt Study for Migraines, (PI, 1999)
MS Trac, (1998)
Myotrophin, Amyotrophic Lateral Sclerosis Study (PI, 1997 – 1998)
Exelon, Novartis Alzheimer's Study (PI, 1997 – 2000)
Reo-Pro, Lilly Stroke Study, (PI, 1998 – 1999)
CI-1009, Parke-Davis Traumatic Brain Injury Study, (PI, 1997 – 1998)
Topamax, OrthoMcNeil Study for Adjunctive Therapy in Seizure (PI, 1997 – 1998)
ATLANTIS, Genetech Thrombolytic Therapy in Acute Ischemic Stroke, (PI, 1995 – 1998)
Cerestat, Boehringer Ingelheim Acute Stroke Treatment (PI, 1996 – 1997)
Ancrod, Knoll Acute Stroke Treatment (PI, 1996 – 1997)
Copolymer - 1 Relapsing-Remitting Multiple Sclerosis, Teva (PI, 1995 – 1998)
Lubeluzole, Janssen Acute Stroke Study (PI, 1995 – 1996)
Neurontin STEPS Study for Seizure (PI, 1995 – 1996)
Cognex: Neuropsychiatric Testing and Assessment of Caregiver Time (PI, 1995 – 1996)
Trial of Org 10172 in Patients with Acute and Progressive Cerebral Infarction (1993 – 1995)
North American Symptomatic Carotid Endarterectomy Trial (1994 – 1995)
Warfarin-Aspirin Recurrent Stroke Study (1994 – 1995)
Asymptomatic Carotid Atherosclerosis Study (1994 – 1995)

The Accuracy and Reliability of Bedside Diagnosis of Stroke; Jacoby MR, Davis PH, Adams HP Jr.: Senior Project, University of Iowa, Dept. of Neurology (1993)

Basilar Artery Thrombosis In the Young Adult; Jacoby MR, Adams HP Jr.: Fellowship Project, University of Iowa, Dept. of Neurology (1994)

Cerebrovascular Complications of Pregnancy and the Puerperium; Hughes BL, Jacoby MR, Davis PH: Senior Project, University of Iowa, Dept. of Neurology (1994)

Serum Sodium and Its Effect on CNS Neurons - Advisor: Professor Joseph Parker, M.D.

Thermosensitive Site Mapping in Hamster AHPOA - Advisor: Professor Wayne Simpson, Ph.D

PUBLICATIONS:

K. C. Albright, T. C. Schott, D. F. Boland, L. George, K. P. Boland, M. P. Wohlford-Wessels, E. P. Finnerty, M. R. K. Jacoby. Acute Stroke Care in a Neurologically Underserved State: Lessons Learned from the Iowa Stroke Survey. *Journal of Stroke and Cerebrovascular Diseases*, Vol 18, No 3, May-June 2009; pp 203-207.

M. Jacoby. Botulinum Toxin (Type A) for the Treatment of Diabetic Peripheral Neuropathic Pain. 61st Annual Meeting, American Academy of Neurology, April-May 2009, Seattle, WA.

M. Jacoby, L. George, E.P. Finnerty. Assessment of Neuroimaging in the Diagnosis of Cerebral Venous Thrombosis. 2nd World Congress on Controversies in Neurology, Oct. 23-26, 2008, Athens, Greece.

Elkind MSV, Prabhakaran s, Pittman J, Koroshetz W, Jacoby M, Johnston KC. Sex as a predictor of 3-month outcomes in patients treated with intravenous recombinant tissue plasminogen activator for acute stroke. *Neurology* 2007; 68:842-848.

D. F. Boland, K. C. Albright, K. P. Boland, T. C. Schott, M. P. Wohlford-Wessels, E. P. Finnerty, M. R. K. Jacoby. Acute Stroke Care in Iowa: Availability of Essential Components. Poster Presentation, 58th Annual Meeting, American Academy of Neurology, April 5, 2006, San Diego, CA.

Iannuzzi, N., Liebeskind, D., Arima, K., Shimizu, K., Zimmerman, T., Jacoby, M. R. K. Poster presented to American College of Emergency Physicians. Piclozotan (SUN N4057), A Novel 5HT1A Receptor Agonist, is Well tolerated in Patients with Acute Stroke. (Sept. 27, 2005, Washington)

Albright, K. C., Schott, T. C., Jafari, N., Wohlford-Wessels, M. P., Finnerty, E. P., Jacoby, M. R. K. Tissue Plasminogen Activator Use: An Iowa Hospital Perspective. *Journal of Stroke and Cerebrovascular Diseases*, Vol. 14, No. 3 (May-June), 2005, pp 127-135.

Jacoby, M.R., Albright, K.C., Schott, T.C., Jafari, N., Finnerty, E.P. Tissue Plasminogen Activator (t-PA) Utilization in Iowa. *Journal of Stroke and Cerebrovascular Disease*. 12(5):246, Sept/Oct 2003

Lyden P, Jacoby M, Schim J, Albers G et al. The Clomethiazole Acute Stroke Study in tissue-type plasminogen activator treated stroke (CLASS-T). *Neurology* 2001;57:1199-1205

Healthy Iowans 2010, Iowa's Health Agenda For the New Millennium, Chapt. 9, Heart Disease and Stroke, January 2000.

Adams HP Jr., Love BB, Jacoby MR: Arterial dissections. In: Cerebrovascular Disease: Pathophysiology, Diagnosis, and Management. M. Ginsberg, J. Bogousslavsky (Eds.) Malden, MA: Blackwell Science, 1998, pp:1430-1446.

Survey of Acute Stroke Teams in the U.S. International Joint Conference on Stroke and Cerebral Circulation, February 1998.

Davis PH, Jacoby MR, Adams HP Jr.: Cerebral Embolism in Pregnant Patients. In: Neurosurgical Aspects of Pregnancy. C. Loftus (Ed) American Association of Neurological Surgeons, 1996, pp:135-146.

Jacoby MR: Update on Cerebrovascular Disease. 50+ Lifestyles, December 1995.

Adams HP, Bendixen BH, Jacoby MR: Can we individualize therapeutic decisions in high-risk patients? European Neurology 35:299-305, 1995.

PRESENTATIONS:

"Stroke Care by the Guidelines" 15th Annual Neurology Update for Primary Care, Des Moines, IA (November 2014)

"Different Strokes for Different Folks: Heterogeneity in Clinical Presentation" 14th Annual Neurology Update for Primary Care, Des Moines, IA (November 2013)

"Stroke in the Young Adult" 13th Annual Neurology Update for Primary Care, Des Moines, IA (November 2012)

"Stroke Prevention" Midwinter Osteopathic Family Practice Update, Des Moines, IA (January 2011)

"Building on Acute Stroke Care Program" Story County Medical Staff; Story County Medical Center (April 2010)

"Stroke Update 2009" Annual Neurology for Primary Care, Statewide Conference, Des Moines, IA (October 2009)

"What Should Docs Do", A Race Against Time Conference, Des Moines, IA (September 2009)

"Stroke: Best Treatments 2008", Annual Neurology for Primary Care, Statewide Conference, Des Moines, IA (October 2008)

"Carotid Arteries, Scalpels, Stents and Assorted Misinformation", 6th Annual Professionals Preventing Stroke Conference, Des Moines, IA (May, 2006)

"Stroke Treatment 2005", Annual Ruan Neurology for Primary Stroke Care, Statewide Conference, Des Moines, IA (October, 2005)

"Streamlining Care of Stroke Patients: Reducing the Golden Hour" The Governor's Conference on Public Health, Building Iowa as a Healthy

Community, Des Moines, IA. (July 2005)

“Early Intervention For Stroke” AANN Meeting, Des Moines, IA.
(May 24, 2005)

“Controversies in Stroke Treatment” Upper Midwest Osteopathic Health
Conference, Iowa Osteopathic Medical Association, Des Moines, IA.
(May 5, 2005)

“Stroke 2005: Updates and Recent Journal Articles”. Neurology Roundtable
Peer Discussion. Des Moines, IA. (May 4, 2005)

“New Approaches in the Treatment and Management of Alzheimer’s
Disease” Local medical staff. Des Moines, IA (May 3, 2005)

“Issues Related to the Initial Evaluation and Management of Acute Stroke in
Iowa”. Poster Presentation. K. C. Albright, T. C. Schott, K. Boland,
M. P. Wessels, E. P. Finnerty, M. R. K. Jacoby. Des Moines University,
Des Moines, IA (April 27, 2005)

“Headache” World Medical Conference CME Series Seminar, Omaha,
Denver, Iowa (March/April, 2005)

“Neurology of Aging” Mini Medical School, Des Moines University,
Des Moines, IA (February 15, 2005)

“Establishing an Acute Stroke Program” Greenfield Iowa Medical Staff,
Greenfield, IA, (January 25, 2005)

“Alzheimer’s Disease, Stroke and TIA”, Annual Ruan Neurology for Primary
Care, Statewide Conference, Des Moines, IA (October, 2004)

“Botulinum Toxin Type A: Headache Update 2004” Physician Clinical
Exchange, Des Moines, IA (November 17, 2004)

“Carotid Disease: Surgery and Stenting” Vascular today, West Des Moines, IA
(October 30, 2004)

“Stroke 2004” Medical Staff Grand Rounds, Muscatine, IA (October 15, 2004)

“Stroke Prevention and Treatment” Medical Staff Grand Rounds, Sterling, IL
(October 5, 2004)

“Stroke Update 2004” Medical Staff Grand Rounds, Providence Hospital,
Kansas City, KS (July 23, 2004)

“Stroke Prevention Update 2004” Medical Safety Meeting, Davenport, IA
(May 26, 2004)

“Stroke Prevention Update 2004” Medical Staff Grand Rounds, Baltimore, MD
(April 29, 2004)

“Psychiatric Comorbidities of Neurologic Diseases” Medical Staff Grand Rounds,
Franklin Psychiatry Center, Des Moines, IA (March 20, 2004)

“Stroke Prevention 2004” Medical Staff Grand Rounds, Via Christi Regional Medical Center, Wichita, KS (March 18, 2004)

“Diagnosing and Treating the Difficult Headache” Medical Staff Grand Rounds, Mercy Hospital, Des Moines, IA (March 16, 2004)

“Stroke Prevention and Treatment” The Southwest Iowa Pharmacists Association, Continuing Education Program, Council Bluffs, IA (January 29, 2004)

“Essential Updates in Neurologic Issues: Migraine and Epilepsy” Continuing Medical Education Activity, Des Moines, IA (December 17, 2003)

“Stroke 2003 Update” Medical Staff Grand Rounds, Shawnee Mission Medical Center, Shawnee Mission, KS (November 18, 2003)

“Stroke Update: Treatment & Prevention” and “Dementia Treatment 2003” Annual Ruan Neurology for Primary Care, Statewide Conference, Des Moines, IA (November 2003)

“Stroke 2003: Improving Patient Outcomes” Third Annual American Stroke Association Conference, West Des Moines, IA (May 3, 2003)

“Stroke Update” Stroke Club July Meeting, Des Moines, IA (July 15, 2003)

“Cluster Headache & Cranial Neuralgias” and “Triptans” Ruan Neurology Annual Statewide Spring Conference, Des Moines, IA (April 26, 2003)

“Diagnosis and Treatment of Migraine Headache” Peer Discussion Group, Galesburg, IL (March 7, 2003)

“Special Considerations in the Management of Migraine in Women” Local Area Physicians Dinner Meeting, Omaha NE (February 20, 2003)

“Making Sense of Clinical Trial Results in Dementia and Stroke” Annual Ruan Neurology for Primary Care, Statewide Conference, Des Moines, IA (October 2002)

“Stroke Update 2002: Diagnosis & Treatment”, Medical Staff Grand Rounds, Sherman Hospital, Sherman TX, (October 29, 2002)

“New Developments in Stroke Diagnosis & Treatment”, 7th Annual Vascular Today, West Des Moines, IA (October 26, 2002)

“Diagnosing & Treating the Difficult Headache Patient”, Story County Medical Society Dinner Meeting, Ames, IA (August 10, 2002)

“Progress Report on Headache”, Local Area Doctors Dinner Meeting, Rapid City, SD (July 30, 2002)

“Stroke, A Practical Approach for Clinicians”, Medical Staff Grand Rounds, Albia, IA (July 16, 2002)

“Stroke Update 2002” Governor's Conference On Aging, West Des Moines, IA (May 21, 2002)

"The Neurological Examination" Alzheimer's & Vascular Dementia: Diagnosis & Treatment, Ruan Neurology Statewide Spring Conference, Des Moines, IA (April 27, 2002)

"Clinical Research: Application to Patient Care" Stroke: The Full Spectrum of Care Conference of the American Stroke Association Statewide Annual Meeting, Keynote Speaker, West Des Moines, IA (May 4, 2002)

"Alzheimer's Disease Review of Current Knowledge" Medical Staff Grand Rounds, Mercy Hospital, Des Moines, IA (March 19, 2002)

"Stroke, A Neurologist's Perspective" Cardiology Today, West Des Moines, IA (Feb 23, 2002)

"Stroke Update 2002" Medical Staff Grand Rounds, Mercy Hospital, Des Moines, IA (February 11, 2002)

"Stroke Update on Diagnosis & Treatment" Iowa Chapter of the American Association of Osteopathic Physicians, Des Moines, IA (January 11, 2002)

"Neurologic Diseases in Women" Neurology Update for Primary Care 2001, Des Moines, IA (October 2001)

"New Developments in Heart Disease and Stroke" The Governor's Conference on Public Health, Barn Raising III, Des Moines, IA (June 14, 2001)

"Brain Attack: Strike Back" Stroke of Courage Annual Conference Oklahoma City, OK (May 17, 2001)

"Stroke Prevention and Treatment in the 21st Century" American Stroke Association Meeting, West Des Moines, IA (May 5, 2001)

"Stroke Prevention and Treatment" Omaha Neurological Dinner, Omaha, NE (April 24, 2001)

"The Future of Stroke" Wichita General Medical Staff Meeting Wichita, KS (April 19, 2001)

"Brain Attack and Neurological Emergencies" Central Iowa EMS Annual Conference, West Des Moines, IA (March 2001)

"Diagnosing and Treating the Difficult Headache" Des Moines Area Nurses Dinner Meeting, West Des Moines, IA (January 31, 2001)

"Prevention and Acute Treatment of Stroke" Kansas City Medical Staff Dinner, Kansas City, MO (November 16, 2000)

"Neurological Emergencies - Stroke, Status Epilepticus, Neuromuscular, Trauma" Annual Neurology Conference, Des Moines, IA (October 7, 2000)

"Spells" Annual Neurology Conference, Des Moines, IA (October 7, 2000)

"Neurology Update - Alzheimer's, Epilepsy, Multiple Sclerosis, Parkinson's Disease, Tremor, Stroke" Annual Neurology Conference

Des Moines, IA (October 7, 2000)

“Podiatry and Neurology: Trauma, Epilepsy, Neuromuscular Diseases, and Stroke” Des Moines University Podiatry Clinical Rotation Seminar
Des Moines, IA (September 26-27, 2000)

“Complexity of Atherosclerosis in Heart Disease & Stroke” Medical Staff
Dinner, Afton, IA (May 31, 2000)

“Complexity of Atherosclerosis in Heart Disease & Stroke”
Medical Staff Dinner, West Des Moines, IA (May 23, 2000)
“Brain Wellness & Healthy Aging” Governor’s Conference on Aging,
West Des Moines, IA (May 16, 2000)

“Migraine Headache: The Patient’s Perspective” Medical Staff Dinner,
Sioux Falls, SD (April 25, 2000)

“Alzheimer’s Disease: Challenge of the 21st Century” Geriatric Symposium
2000, (sponsored by the South Dakota State Medical Association)
Sioux Falls, SD (March 17-18, 2000)

“Complexity of Atherosclerotic Disease” Des Moines Medical Staff Outing at
Docs Hunt Club (Bristol Myers Squibb sponsor) Adel, IA (March 11, 2000)

“Stroke Prevention: What’s New” Des Moines Medical Staff Outing at Docs
Hunt Club (Boehringer Ingelheim sponsor), Adel, IA (March 12, 2000)

“Stroke 2000: Focus on Prevention” Mercy West Staff Grand Rounds
(Boehringer Ingelheim sponsor), West Des Moines, IA
(February 17th, 2000)

“Stroke 2000: Prevention and Acute Treatment” Mercy Staff Grand Rounds
(Boehringer Ingelheim sponsor), Des Moines, IA (February 1, 2000)

“Stroke Prevention and Treatment Strategies: What’s New”
Cardiovascular Health: Planning for the 21st Century (September 15-17, 1999)

“A Journey Through Alzheimer’s Care, Overview” Keynote Speaker
Alzheimer’s and Related Dementia Conference, Seventh Annual
Sioux City, IA (August 19, 1999)

“Defining Successful Migraine Therapy” Sioux City Iowa, Physicians and
Guests, Sioux City, IA (August 17, 1999)

“Guillian-Barre’ Syndrome - Medical Management and Patient Care” Des
Moines Neuro Nurse’s Association, Des Moines, IA (July 29, 1999)

“Migraine Management: Opportunities and Options” Medical Staff Dinner
Des Moines, IA (June 7, 1999)

“Helping the Hurting” Cedar Rapids Area Family Physicians and Providers,
Family Practice Society, Cedar Rapids, IA (May 18, 1999)

“Towards a Society for All Ages” Governor’s Council on Aging
Des Moines, IA (May 17 and 18, 1999)

“Stroke Update: Focus on Thrombolytic Therapy” Nebraska Academy of Family Physicians, Omaha, NE (March 25-27, 1999)

“Alzheimer’s Disease and Treatment, An Update for the Primary Care Practitioners.”, St. Anthony Regional Hospital, Carroll, IA (March 16, 1999)

“Stroke” Iowa Chapter of the American Association of Osteopathic Physicians (January 17, 1999)

“The Acute Brain” Iowa Foundation for Medical Care Des Moines, IA (December 8, 1998)

“Brain Attack: Fight Back - Advances in Stroke Treatment” Vascular Today Symposium, Des Moines, IA (November 14, 1998)

“EMS Stroke Update” School of Emergency Medical Services, Des Moines, IA (September 18 and 19, 1998)

“EMS Response to Stroke” Indianola fire Department, Indianola, IA (June 1998)

“Recent Research in Stroke Prevention and Treatment” Iowa Speech, Language and Hearing Association Convention (June 1998)

“Keeping Your Brain Healthy” Mercy West Conference Center (May 1998)

“Brain Attack: Fight Back” Pella Regional Health Center May 1998)

“Building a Stroke Center” Pella Community Hospital (May 1998)

“The Brain Matters: Age & Brain Disease” 19th Annual Governor’s Conference on Aging (May 1998)

“Stroke Care and Management of the Adult Patient” Mercy Hospital Medical Center (May 20, 1998)

“Strokes: Testing, Treatment, and Research” Cova Financial Life Insurance Company (May 13, 1998)

“The Heart in Stroke” Boone County Hospital (May 7, 1998)

“Stroke: Prevention/Treatment” Learning for Living: School to Work (March, 1998)

“Brain Attack - Fight Back: Advances in Stroke Therapy” St. John’s Regional Medical Center (January 31, 1998)

“Seize the Day: Advances in Epilepsy Therapy” Mercy Hospital, Epilepsy Association of Iowa (November 1997)

“t-PA and Stroke” Emergency Medical Services 9th Annual Conference, Des Moines, IA (November 1997)

“Thrombolytic Therapy in Acute Ischemic Stroke Patients” Beatrice Community Hospital (October 1997)

“Stroke is a Brain Attack” Iowa Caregivers Association, Des Moines, IA (October 1997)

“Stroke Overview” American Heart Association BLS Instructor - Trainer Course (September, 1997)

“Brain Attack - Fight Back” Mercy Air Life Safety Orientation, Des Moines, IA (September 1997)

“Stroke Signs, Symptoms, and Radiologic Findings” Iowa Society of Radiologic Technologies, Des Moines, IA (September 1997)

“Brain Attack - Thrombolysis in Acute Stroke” Genentech, Inc., Highland, IL (September 1997)

“Reducing the Effects of Stroke: Right From the Start” Stroke Club, Des Moines, IA (May 1997)

“Stroke is a Brain Attack: Know the Warning Signs” Greater Community Hospital, Creston, IA, (May 1997)

“Time is Brain: Advances in Stroke Therapy” Mercy Hospital Medical Center, Telemedicine (May 1997)

“Stroke is a Brain Attack” Des Moines Life and Health Claim Association (May 1997)

“Stroke: Prevention and Survival” Governor’s Conference on Aging (May 1997)

“Stroke: Advances in Prevention” UIHC, Des Moines, IA (May 1997)

“Thrombolytics & Stroke” Winterset Medical Staff, Winterset, IA (April 1997)

“Time is Brain: Update on Stroke Therapies” Centerville Medical Staff, Centerville, IA (April 1997)

“Thrombolysis & Stroke Therapy” Decatur Medical Society, Decatur, IL (March 1997)

“Stroke is a Medical Emergency” Public Forum During Brain Awareness Week (March 1997)

“The Brain Matters: Traumatic Brain Injuries” Trauma Conference (February 1997)

“Emergency Room Nurse’s Response to Stroke” Central Iowa Emergency Room Nurses Association Meeting (February 1997)

“Emergency Response to Stroke” EMS Providers 19th Annual CEIMS Conference (February 1997)

“Physician Assisted Suicide” Adult Education Committee (January 1997)

“Update on Cerebrovascular Disease” Vascular Today Seminar
(November 1997)

“Stroke is a Medical Emergency” Davis County Hospital Medical Staff,
Bloomfield, IA (July 1996)

“Brain Attack: Stroke is an Emergency” Mercy Hospital Medical Center
Teleconference (November 1995)

“Time is Brain: Advances in Stroke Therapy” Mercy Medical Grand Rounds,
Mercy Hospital Medical Center, Des Moines, IA (November, 1995)

“The Accuracy and Reliability of Bedside Diagnosis of Stroke” The North
American Conference on Stroke, Denver, CO (June 1995)

“To Stroke or Not to Stroke: Latest Advances in Treatment” Mercy Educational
Update (June 1995)

“Subarachnoid Hemorrhage” Mercy Medical Staff Grand Rounds (May 1995)

“Syncope” Visiting Professor Program - UIHC, Des Moines, IA
(May 1995)

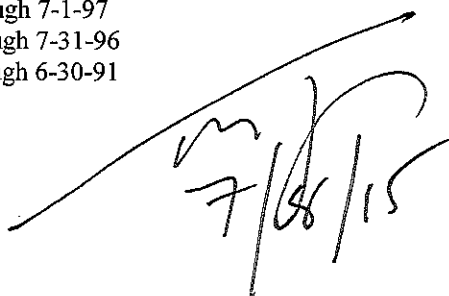
“Intracranial Hemorrhage” Stroke Grand Rounds, IHC, Iowa City, IA
(November 1994)

**PROFESSIONAL
ORGANIZATIONS:**

Polk County Medical Society
Iowa Medical Society
Kansas City Metropolitan Medical Society
Missouri State Medical Association
Fellow, Council on Stroke, American Stroke Association
National Stroke Association
American Academy of Neurology
American College of Physicians
American Medical Association, Life Membership
International Headache Society
Alzheimer's Family Care roster of Physicians

LICENSES:

Board Certified - American Board of Psychiatry and Neurology
45581 - United States and Canada
Board Certified - American Board of Psychiatry and Neurology, Vascular
Neurology #820
Iowa # 29279
Iowa MD #R-4493: 5-21-93 through 7-1-97
Illinois # 036-089789: 1994 through 7-31-96
Missouri # T-16743: 7-1-90 through 6-30-91
DEA# BJ2880804
Iowa Drug 1235126



Handwritten signature and date 7/18/15