# **CURRICULUM VITAE**

# SAJJAD MUEED, M.D. Updated July, 2018

#### **PROFESSIONAL ADDRESS**

Mailing:	Department of Neurology SIU School of Medicine PO Box 19643 Springfield, IL 62794-9643	
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### **ACADEMIC APPOINTMENTS**

July 2017 to present	Associate Professor
	Department of Neurology
	SIU Medicine
	Springfield, IL

Sept. 2010 to June 2017 Assistant Professor Department of Neurology SIU School of Medicine Springfield, IL

#### **PROFESSIONAL APPOINTMENTS**

Aug. 2007 to Sep. 2010	Staff Neurologist
	Advocate Medical Group
	Avocate-Bromenn Medical Center
	Normal, IL 61761

June 2004 to July 2007 Staff Neurologist, Natchez Regional Medical Center Natchez, MS 39120

Nov. 2001 to June, 2004 Staff Neurologist, Carle Clinic Association Carle Foundation Hospital Urbana, IL 61801

### SPECIAL APPOINTMENTS

2016	ACR Select Implementation Group, Memorial Medical Center, Springfield, IL
July 2015 to June 2016	President, Faculty Council SIU School of Medicine Springfield, IL
July 2013 to present	Member, Faculty Council SIU School of Medicine Springfield, IL
July 2014 to present	Alternate Member, SCRIHS
April 2015 to present	Department Chairman, Neurology Member, Medical Executive Committee Memorial Medical Center Springfield, IL
Sep.2010 – Sept.2015	Medical Director, JCAHO-Primary Stroke Center Memorial Medical Center Springfield, IL.
Sep. 2015 to present	Medical Director, JCAHO-Comprehensive Stroke Center Memorial Medical Center Springfield, IL.
July 1, 2012 to 2015	Member, Finance Committee SIU HealthCare Springfield, IL
July 2010 to 2011	Member, Diversity Committee SIU School of Medicine Springfield, IL

2008 – 2010	Member, Peer Review Committee BroMenn Regional Medical Center Normal, IL.
2008 – 2009	Director, Acute Inpatient Rehabilitation BroMenn Regional Medical Center Normal, IL.
2005 – 2007	Member, Ethics Committee, Natchez Regional Medical Center Natchez, MS.
2004 – 2007	Co-Director, Inpatient Rehabilitation Unit Natchez Regional Medical Center, Natchez, MS.
2006 – 2007	Director, Natchez Regional Sleep Disorders Center, Natchez Regional Medical Center Natchez, MS.

## **EDUCATION AND TRAINING**

July 2000 to June, 2001	Fellow, Stroke & Cerebrovascular Diseases, Southern Illinois University School of Medicine, Springfield, IL.
July 1998 to June 2000	Fellow, Epilepsy & Clinical Neurophysiology, Southern Illinois University School of Medicine, Springfield, IL.
July 1997 to Dec. 1997	Chief Resident Department of Neurology Southern Illinois University School of Medicine, Springfield, IL.
July 1995 to June 1998	Resident, Department of Neurology Southern Illinois University School of Medicine, Springfield, IL.
July 1994 to June 1995	Resident, Department of Internal Medicine Queens Hospital Center, Jamaica, NY " <u>Best Teaching Resident of the Year</u> " Award.
Dec. 1990 to June 1994	Medical Officer/Registrar, Govt. of Punjab

Mayo Hospital, Lahore, Pakistan.

### SAJJAD MUEED, MD

Oct. 1989 to Dec. 1990	Lecturer, Department of Pathology, Quaid-e-Azam Medical College Bahawalpur, Pakistan.
June 1988 to Oct. 1989	Medical Officer, General Duty, Bahawalpur District, Government of the Punjab, Pakistan.
June 1987 to May 1988	Intern, Department of Medicine B.V. Hospital, Bahawalpur, Pakistan.
May 1993	E.C.F.M.G Certification # 0-477-913-8
May 1987	Quaid-e-Azam Medical College, Circular Road, Bahawalpur Pakistan.

## **BOARD CERTIFICATIONS**

Sept. 2000	American Board of Psychiatry and Neurology (Neurology), Certificate # 49065, Recertified, May 2010.
April 2001	American Board of Psychiatry and Neurology (Clin. Neurophys.), Certificate #1279, Recertified, May 2010.
March 2004	American Board of Sleep Medicine, Certificate # 2489.
May 2005	American Board of Psychiatry and Neurology (Vascular Neurology), Certificate #165, Recertified, May 2015.
April 2006	American Board of Electrodiagnostic Medicine, Certificate # 3127, Recertified, December 2015.
Nov. 2007	American Board of Psychiatry and Neurology (Sleep Medicine), Certificate #219.
Feb. 2011	United Council for Neurologic Subspecialties (UCNS) Certified in Neuroimaging, Certificate # NI00301-11
Dec. 2014	United Council for Neurologic Subspecialties (UCNS) Certified in Neural Repair and Rehabilitation, # NRR00022-14.

### **AWARDS AND HONORS**

July 1994 to June 1995	<u>"Best Teaching Resident of the Year"</u> Award Resident, Department of Internal Medicine Queens Hospital Center, Jamaica, NY.
December 2008	" Making the Difference Award", University of Saint Eustatius & Lincoln College, Normal, IL.
2012	Nominee for Teacher of the Year, SIU School of Medicine.
2012	Voted most professional Neurology faculty member by graduating class, May 29, 2012.

### **MEDICAL LICENSURE**

State of Illinois	036 094079	(expires 07-31-2020)
State of Mississippi	18393	(expires 06-30-2019)
US Federal DEA #	BM5136165	(expires 01-31-2021)

## **PROFESSIONAL SOCIETIES AND ORGANIZATIONS**

American Stroke Association American Academy of Neurology American Association of Neuromuscular & Electrodiagnostic Medicine American Society of Neuroimaging American Academy of Sleep Medicine American Clinical Neurophysiology Society American Neurological Association

#### PUBLICATIONS

Butt AK, Jawaid Q, <u>Mueed S</u>. Glanzmann Hereditary Thrombosthenic Purpra: A Case Report. *Journal of College of Physicians and Surgeons*, Pakistan. 1992.

<u>Mueed, S</u>. and Naritoku, D.K. Intravenous Loading and Replenishment Therapy with Valproic Acid. *Epilepsia*, 1998 (suppl 4).

Naritoku DK, and <u>Mueed S</u>. Intravenous Loading of Valproate for Epilepsy. *Clinical Neuropharmacology*, June 1999. Vol 22, No.2 pp 102-106.

M Kovach, J Ruiz, K Kimonis, <u>S Mueed</u>, S Sinha, C Higgins, S Elble, R Elble, V Kimonis. Genetic Heterogeneity in Autosomal Dominant Essential Tremor. *Genetics in Medicine*, October 2001, Vol 3, No 3 pp 197-

Hord ED, Evans MS, <u>Mueed S</u>, Adamolekun B, and Naritoku DK. The effect of Vagus Nerve Stimulation on Migraines. *Journal of Pain*, January 2004.

Eugenia-Daniela Hord, <u>S.Mueed.</u> Reflex Sympathetic Dystrophy, *eMedicine*, 2006. *(replaced since then)* 

Laxmi Dhakal, Pankaj Jalan, Vijay Pandav, Sajjad Mueed, Steve Scafie, Sushant Kale <u>Embolic Strokes related to Infective Endocarditis</u>, American Academy of Neurology, Annual Meeting 2012.

#### **RESEARCH GRANTS**

-**Primary Investigator**: National Epifellows Foundation (\$5,000) "Effects of Seizure Experience on Autonomic Regulation of Vital Functions" 07-01-1999 to 06-30-2000.

#### **RESEARCH EXPERIENCE**

#### **Principal Investigator**

16-485: Mild and Rapidly Improving Stroke Study (MARISS), Memorial Medical Center, 2016 and continuing.

Platelet-Oriented Inhibition in New TIA or minor stroke (POINT Trial). 2010-2012

Long Term Eslicarbazepine Acetate Extension Study Sponsor: Sunovion Pharmaceuticals Inc.

#### Co/Sub-Investigator:

Long-Term Safety and Efficacy Evaluation of Zonisamide in the Treatment of Seizures in Medically Refractory Patients and Efficacy Evaluation of Zonisamide Monotherapy.

Pregabelin Add-On Trial: A Double-Blind, Placebo-Controlled, Multicenter Study in Patients with Partial Seizures.

Pregabelin Open-Label Add-On Trial: An open-label, Multicenter Follow-On Study to Determine Long-Term Safety and Efficacy in Patients with Partial Seizures.

Vagus Nerve Stimulation for Intractable Epilepsy in the Developmentally Disabled Population: Effects on Behavioral and Psychosocial Outcome.

The Safety and Tolerance of Intravenous Depacon<sup>TM</sup> at an Infusion Rate up to 3.0 mg/kg/minute in Subjects with Epilepsy.

A Double-Blind, Placebo-Controlled, Parallel Study to Evaluate the Efficacy of Topamax® (Topiramate) Compared to Valproate as Add-on Therapy to Carbamazepine with Special Emphasis on Cognitive Function in Subjects with Partial-Onset Seizures.

A Double-Blind, Double-Dummy, Parallel-Group Comparison of Lamotrigine and Divalproex Sodium Monotherapy in Patients with Epilepsy.

A Randomized, Placebo-Controlled, Double-Blind Study of the Efficacy and Safety of Losigamone in Patients with Inadequately Controlled Partial Seizures.

Vagus Nerve Stimulation in Chronic pain modulation: A prospective study.

A phase 3, Multicenter, Randomised, Double-Blind, Placebo-Controlled, Parallel-Group Study to evaluate the Safety and Efficacy of 12 weeks of 2 oral doses of PROVIGIL<sup>®</sup> (Modafinil) as Treatment for Adults with Daytime Sleepiness Associated with Obstructive Sleep Apnea/Hypopnea Syndrome Followed by a 9-month Open-Label Extension.

A Double-Blind Placebo-Controlled, Safety, Efficacy and Dose Response Trial of 3 Intravenous Doses of BMS-204352 in Patients with Acute Stroke.

A Randomized, Double-Blind, Placebo-Controlled Parallel Study of the Efficacy and Safely of (s) Zopiclone in the Treeatment of Adults Subjects with Primary Insomnia Followed by Optional Open –Label Chronic Dosing for up to One Year.

A Double-Blind, Placebo Controlled, multi-Center Study to Evaluate the Safety and Efficacy of a 72 Hour infusion of CP-101,106 in Subjects with Acute ischemic Stroke in the Forebrain.

#### **Co-Investigator:**

Platelet-Oriented Inhibition in New TIA and Minor Ischemic Stroke (POINT) Trial. Sponsor: National Institutes of Health (NIH) and the National Institute of Neurological Disorders and Stroke (NINDS).

Antihypertensive Treatment of Acute Cerebral Hemorrhage (ATACH-II). Sponsor: University of Minnesota, funded by the National Institutes of Health - National Institute of Neurological Disorders and Stroke (NIH-NINDS).

Randomized, double-blind, Evaluation in secondary Stroke Prevention comparing the EfficaCy and safety of the oral Thrombin inhibitor dabigatan etexilate (110mg or 150mg, oral b.i.d.) versus acetylsalicylic acid (100mg oral q.d.) in patients with Embolic Stroke of Undetermined Source (RESPECT-ESUS). Sponsor: Boehringer Ingelheim Pharmaceuticals, Inc.

Randomized, double-blind, Multinational Study to Prevent Major Vascular Events with Ticagrelor compared to Aspirin (ASA) in patients with acute ischemic stroke or TIA (SOCRATES - Acute Stroke or Transient IsChaemic Attack Treated with Aspirin or Ticagrelor and Patient Outcomes.

Sponsor: AstraZeneca Pharmaceuticals LP.

A Phase III, case series clinical study of the reversal of the anticoagulant effects of dabigatran by intravenous administration of 5.0g idarucizumab (BI 655075) in patients treated with dabigatran etexilate who have uncontrolled bleeding or require emergency surgery or procedures (RE-VERSE-AD – A study of the RE-VERSal Effects of Idarucizumab on Active Dabigatran) trial.

Sponsor: Boehringer Ingelheim Pharmceuticals, Inc.

### PRESENTATIONS/INTERVIEWS AND INVITED LECTURES

Mueed, S, Naritoku, D.K. Intravenous Loading and Replenishment Therapy with Valproic Acid. *Poster Presentation*, Annual Meeting of American Epilepsy Society, San Diego, CA 1998.

Benign epilepsy with occipital Paroxysms, J. Kiffin Penry Epilepsy Mini-Fellowship, Bowman- Gray School of Medicine, Winston-Salem, NC, 1998.

Subtle and Intermittent Non-Convulsive Status Epilepticus, Annual Meeting of National EpiFellows Scientific Forum, Orlando, FL 1999.

"Diagnosis and Classification of Seizures" at Clinical Updates in Mental Health & Developmental Disabilities, Illinois Department of Human Services, Springfield, IL, June 1999.

Vagus Nerve Stimulator in the Management of Intractable Epilepsy" at Clinical Updates in Mental Health & Developmental Disabilities, Illinois Department of Human Services, Springfield, IL, June 2000.

Frontal-Lobe Seizures, Merritt-Putnam Epilepsy Symposium, Phoenix AZ, 2000.

What is Stroke: Signs and Symptoms, American Stroke Association, Springfield Chapter, 2001.

Medications and Sleep, Awake and Aware Support Group, Urbana-Champaign, IL, 2002.

Sleep Problems in Parkinson's patients, Awake and Aware Support Group, Urbana-Champaign, IL, 2002.

Neurological Evaluation of Upper Extremity Problems, Upper Extremity Conference, Carle Foundation, Urbana, IL, 2003.

Sleep Related Health Problems, Rotary Club of Natchez, MS, April 2005.

Restless Legs Syndrome, Grand Round Presentation, Bromenn Healthcare, October 2007.

Monthly presentation for MS3 and MS4, rotating in Neurology Clerkship lectures series, on Stroke, Dizziness and Neuro Imaging, SIU-SOM, November 2010 to present.

Community Education Presentations on Stroke, Tremor, Sleep Disorders, Headaches, Advocate BroMenn Medical Center 2007-2010.

Memorial Medical Center, Heart & Vascular Services, "The Heart is Just the Start", October 12, 2010.

SIU-School of Medicine, Internal Medicine Resident Lecture on "Stroke", October 20, 2010.

Q&A: What is a Stroke?, State Journal Register "Be Healthy Springfield" video series, November 3, 2010.

SIU Neuroscience Course, "Vision: The Eye", December 7, 2010.

SIU Neuroscience Course, "Central Visual Pathways", December 14, 2010.

SIU MS2 Students presentation, "Wrap-up session", 2012-present.

SIU Neurology Grand Rounds, "Intracranial Vascular Stenosis: An Overview", January 25, 2011.

Lincoln Land Community College EEG Students presentation on "CVA", March 23, 2011.

Memorial Medical Center END Students presentation on "Cerebral Vascular Disease", April 6, 2011.

Radio 1450 Interview for "National Stroke Awareness", April 21, 2011.

SIU Neuroscience Course, "Sleep and Wakefulness", April 26, 2011.

Community Education presentation to Support Group on "Stroke", MMC/SIU, June 8, 2011.

SIU Internal Medicine Y3 Residents presentation on "Stroke", June 10, 2011.

SIU Internal Medicine Residents presentation on "Acute CVA", August 15, 2011.

Interview with Cindy Ladage, Illinois Times, on "Stroke", September 1, 2011.

St. John's Hospital Stroke Symposium, Advances in the Prevention & Management of Stroke, Topics include: "Stroke prevention in 2011", Sajjad Mueed, MD, October 19, 2011.

SIU-SOM Family Medicine, Medical Students Group presentation on "Stroke Prevention", October 20, 2011.

Memorial Medical Center Hospitalists presentation on "Stroke", November 2, 2011.

Springfield Clinic Hospitalists presentation on "Stroke", December 7, 2011.

St. John's Hospital, SIU ER Residents presentation on "Stroke", December 8, 2011.

Memorial Medical Center, ER Department on "Stroke" education, December 9, 2011.

SIU Neurology Grand Rounds, "Stroke", January 10, 2012.

WICS-TV Aired the interviews with Dr. Sajjad Mueed on Senator Mark Kirk who suffered a Stroke, January 23-24, 2012.

WMAY Aired the interviews with Dr. Sajjad Mueed on Senator Mark Kirk who suffered a Stroke, January 23-24, 2012.

The Illinois Radio News Network aired the interviews with Dr. Sajjad Mueed on Senator Mark Kirk who suffered a Stroke, January 23-24, 2012.

Radio interview WBGZ 1750, Alton, IL., Interview on "Senator Kirk Suffered Rare Form of Stroke", January 24, 2012.

SIU Neuroscience Course, "Ischemic Stroke", January 24, 2012.

Radio WJBD 1350, Salem, IL, Interview on "Stroke", January 27, 2012.

SIU Neuroscience Course, "Spasticity in spinal cord disorders", January 31, 2012.

SIU Emergency Medicine Resident's Conference, presentation on "Reversal of ICH in anticoagulated patients", February 2, 2012.

SIU Neurology Grand Rounds, Clinical Pathology Conference, February 7, 2012.

Illinois Department of Corrections, Concordia Court, Springfield, IL, presentation on "Stroke", March 6, 2012.

Radio Interview WTAX with Bob Murray on "Stroke", March 8, 2012.

Senior News and Times for Illinois, "Strokes: What You Should Know", First Quarter, 2012.

Radio Interview with Ruth Slottag on "Stroke", May 8, 2012.

SIU Neuroscience Course, "Sleep Disorders", May 8, 2012.

Brain Injury Support Group, presentation on "Stroke", May 12, 2012.

Radio Interview WBGZ 1570, Alton, IL, "Stroke Awareness", June 5, 2012.

SIU Neuroscience Course, Chapter 1 - Introduction to Clinical Case Presentations and Chapter 2 - Neuroanatomy Overview and Basic Definitions, September 7, 2012.

Memorial Medical Center Rehabilitation Department presentation on "Stroke", September 20, 2012.

SIU Neurology Grand Rounds, "Stroke Conference", September 25, 2012.

SIU Neuroscience Course, October 12, 2012.

"Abraham Lincoln Memorial Hospital launches new telestroke technology", Lincoln Daily News, October 19, 2012.

Interview on "Telestroke" with State Journal Register, Springfield, IL., October 31, 2012.

Memorial Medical Center, public speaking event on "Advances in Stroke Evaluation, Treatment and Recovery", November 5, 2012.

Abraham Lincoln Memorial Hospital, community education talk on "Advances in Stroke", November 13, 2012.

SIU Neurology Grand Rounds, November 13, 2012.

SIU Journal Club, December 3, 2012.

SIU Neurology Grand Rounds, "Stroke", December 18, 2012.

SIU Neurology Grand Rounds, "Stroke", February 26, 2013.

SIU Internal Medicine Grand Rounds, April 9, 2013.

SIU Neurology Grand Rounds, "Stroke", April 23, 2013.

SIU Neurology Grand Rounds, May 1, 2013.

SIU Family Medicine, Lecture to Family Medicine Residents on "Stroke Management", May 22, 2013.

Radio Interview with Ruth Slottag on "Stroke", May 24, 2013.

Radio Interview, SIU Weekly Medical Update, on "Stroke", Dewitt Daily News, Clinton, IL, June 8, 2013.

Present at the First Regional Stroke Net Weaving Collaborative conference, Carpenter Conference Center, Springfield, IL., June 28, 2013.

Neurology Day, Farmers Market in Downtown Springfield, IL, "Stroke Assessment, Screening for the public, and interpret results", July 13, 2013.

SIU Neurology Grand Rounds, September 4, 2013.

Stroke Presentation at the September Clinical Performance Committee at Memorial Medical Center, September 5, 2013.

Stroke Presentation at the September Clinical Performance Committee at Memorial Medical Center, September 12, 2013.

Radio Interview at WTAX with Bob Murray "MMC Stroke Podcast", October 24, 2013.

SIU Neurology Grand Rounds, "Stroke Conference", September 25, 2013.

SIU Neurology Grand Rounds, "Stroke", October 2, 2013.

SIU Neurology Grand Rounds, "Stroke", October 16, 2013.

Memorial Medical Center Cafeteria "World Stroke Day" answers questions on Stroke to the public, October 29, 2013.

SIU Neurology Grand Rounds, November 6, 2013.

SIU Neurology Grand Rounds, December 4, 2013.

Presentation on "Stroke" to EMS at Chatham Fire Department, Chatham, IL, December 16, 2013.

SIU Neurology Grand Rounds, January 8, 2014.

Radio Interview on "Stroke" with Capitol Radio Group, Springfield, IL, January 14, 2014.

Busting the Top 3 Myths About Strokes, Live Well Magazine by Memorial Medical Center, January 21, 2014.

SIU Neuroscience Course, "Part VII - The Unconscious and Conscious Processing of Neural Information weeks", February 21, 2014.

SIU Neuroscience Course, "Part VII - The Unconscious and Conscious Processing of Neural Information weeks", February 28, 2014.

SIU Neuroscience Course, "Part VII - The Unconscious and Conscious Processing of Neural Information weeks", March 7, 2014.

SIU Neuroscience Course, "Part VII - The Unconscious and Conscious Processing of Neural Information weeks", March 21, 2014.

SIU Neurology Grand Rounds, "Stroke", April 2, 2014.

Taylorville Hospital, Educational Presentation on "Stroke", May 5, 2014.

Radio Interview with Ruth Slottag on "Stroke", May 16, 2014.

SIU Family Medicine, Lecture to Family Medicine Residents on "Stroke", May 28, 2014.

Memorial Medical Center Residents FCC lecture on "Neurocritical Care", 901 N. First, Near Wound Center, August 21, 2014.

Memorial Medical Center Residents FCC lecture on "Neurocritical Care", 701 N. First, September 11, 2014.

Washington University in St. Louis, "Brain Attack! 2014 Cerebrovascular and Stroke Update, October 11, 2014.

SIU Grand Rounds, "Stroke", November 19, 2014.

SIU Healthy Dose (blog by SIU/SOM) "Stop a stroke before it starts: 10 Risk Factors for Stroke", December 11, 2014.

SIU Grand Rounds, "Stroke", February 25, 2015.

Memorial Medical Center Education presentation (taped) with Therapy Staff, "NIHSS as a part of our Stroke Education Series on Evidence Based Stroke Intervention", March 24, 2015.

Memorial Medical Center Emergency Medical Service (EMS) Training, Lecture on "Stroke background assessment and protocols", "Case studies, including IR cases, and how the patient treatment flows after EMS handoff". Jacksonville, IL, March 24, 2015.

Memorial Medical Center Inpatient Rehab Unit, CISPA-Central Illinois Speech Pathology Association Lecture, "EMS process and the "rules" for t-PA and mechanical clot retrieval", May 12, 2015.

SIU Neurology Grand Rounds, "Stroke", June 3, 2015.

SIU Resident Boot Camp Specialty Lecture "Neuro Imaging", July 13, 2015.

SIU Neurology Grand Rounds, Clinical Pathology Conference, September 9, 2015.

SIU Neurology Grand Rounds, "Stroke", October 28, 2015.

SIU Neurology Grand Rounds, "Sleep Disorders and Stroke", February 17, 2016.

SJR Expo Community Presentation on Stroke, March 22, 2016.

SIU Neuroscience Course, "Stroke", March 25, 2016.

SIU Neuroscience Course, "Vascular Neurology (Stroke): Acute and secondary medical management", May 6, 2016.

FCC Lecture, SIU SOM, Multiple Department Residents, NeuroCritical, May 19, 2016.

Memorial Medical Center, Seminar on "Advanced Stroke Care: Prevention and Intervention", May 24, 2016.

SIU Neurology Grand Rounds, "Some Interesting Stroke Cases", September 28, 2016.

SIU Journal Club, "Intensive Blood-Pressure Lowering in Patients with Acute Cerebral Hemorrhage", October 24, 2016.

NMBU Year 2 Neuro Exam Practice Session, January 20, 2017.

NMBU Year 2 Medical Students – CNS infection Neurology/Pathology/Pharamacology. January 30, 2017.

SIU Neurology Grand Rounds, "Some Interesting Stroke Cases", February 15, 2017.

SIU Psychiatry Grand Rounds, "Sleep Disorders", March 17, 2017.

SIU Family Medicine Hospital Service lecture on "Stroke", May 8, 2017.

Memorial Medical Center, Reviewing the NIHSS to new ER interns, July 7, 2017.

SIU Resident Boot Camp Specialty Lecture "Neuro Imaging", July 17, 2017.

SIU Neurology Educational Series, Grand Rounds, "Interesting Stroke Cases", September 20, 2017.

World Stroke Day interview, Memorial Medical Center, Posted in Stroke Center. October 27, 2017.

SIU Neurology Educational Series, Grand Rounds, Clinical Pathology Conference, "81-Year-Old Male Presenting with Progressive Generalized Weakness". November 1, 2017.

NMB Year 2 Medical Students Neuro Exam, observer for one half day January 19, 2018.

SIU Journal Club, "Thrombectomy for Stroke at 6 to 16 Hours with Selection by Perfusion Imaging", March 26, 2018.

Presentation on Stroke, Memorial Medical Center, May 9, 2018.

Presentation on Time is Brain: Stroke Prevention, Intervention and Recovery, Memorial Medical Center, May 15, 2018.

SIU Resident Boot Camp Specialty Lecture "Neuro Imaging", July 16, 2018.

#### **CONTINUING MEDICAL EDUCATION**

Advanced Course in Sleep Medicine, Palo Alto, CA, 2003, 2004.

Neurosonology Minifellowship, Winston-Salem NC, July 2003.

Neurosonology Preceptorship, Houston TX, June 2003.

Management of Headache, AAN/AHS, Indianapolis IN, Sep. 2003.

Sleep Scoring Workshop, Atlanta, 2003.

Annual Meeting, AANEM, 2002, 2004, 2005, 2006, 2008

National Sleep Medicine Course, Dallas TX, 2002.

Clinical Polysomnography Course, Atlanta, 2002.

Annual Meeting, AAN, 1997, 1998, 2000, 2018

Annual Meeting, AES, 1998, 1999.

Super EMG, Ohio State University, Kauai, HI, 2006.

American Society of Neuroimaging, Annual Meeting, 2007, 2008, 2009, 2010, 2011, 2013.

Sleep Scoring Workshop, Atlanta GA, 2010.

Continuum – Neuroimaging 2008, February 5, 2010.

Continuum – Neuro-ophthalmology 2009, February 18, 2010.

Continuum – Critical Care Neurology 2009, February 23, 2010.

Continuum – Acute Ischemic Stroke 2008, March 2, 2010.

Continuum – Myasthenic Disorders and ALS 2009, March 8, 2010.

Continuum – Spinal Cord, Root, and Plexus Disorders 2008, April 27, 2010.

Continuum – Dementia 2010, May 21, 2010.

Continuum – Sleep Disorders 2007, May 27, 2010.

American Stroke Association, International Stroke Conference, Los Angeles, CA, February 9-11, 2011.

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Continuum – Epilepsy 2010, March 29, 2011.

Memorial Medical Center, Training for Computerized Provider Order Entry and Provider Documentation, March 30 - June 3, 2011.

The American Clinical Neurophysiology Society, "Neurophysiologic Intraoperative Monitoring Course and ICU EEG Monitoring Course" in Atlanta, GA, September 17-18, 2011.

The American Heart Association, "Stroke in the Real World: Advances in Emergency Treatment and Prevention", Los Angeles, CA, February 8, 2011.

American Academy of Sleep Medicine, Interpreting Sleep Studies Course, Darien, IL, September 25-26, 2011.

Memorial Health System Executive Lean Six Sigma White Belt Training Course, Springfield, IL, March 3, 2012.

American Heart Association "NIH Stroke Scale – Group Test B", May 10, 2012.

Brain Attack! 2012, Update on Comprehensive Stroke Care, Washington University in St. Louis, MO., October 27, 2012.

SIU School of Medicine, Neurology Grand Rounds, February 1, 2013.

SIU School of Medicine, Neurology Grand Rounds, March 1, 2013.

SIU School of Medicine, Internal Medicine Grand Rounds, April 1, 2013.

SIU School of Medicine, Neurology Grand Rounds, May 1, 2013.

Clinical Research Training Course, Presented by SIU/SOM Center for Clinical Research, May 9, 2013.

Brain Attack! 2013, Comprehensive Care of Ischemic and Hemorrhagic Stroke, Washington University in St. Louis, MO., October 19, 2013.

SIU Internal Medicine Grand Rounds, March 1, 2014.

Clinical Radiologists S.C., NeuroEndovascular Conference, April 15, 2014.

SIU Internal Medicine Grand Rounds, May 1, 2014.

SIU Neurology Grand Rounds, May 7, 2014.

National Stroke Association, NIH Stroke Scale Test, NI HSS-English Group A-V3, May 22, 2014.

SIU Neurology Grand Rounds, June 4, 2014.

Continuum – Neurorehabilitation 2011, June 27, 2014.

Continuum – Pre and Post Test Cerebrovascular Disease 2014, July 11, 2014.

Continuum – Secondary Stroke Prevention 2011, July 16, 2014.

Brain Attack! 2014, Cerebrovascular and Stroke Update, Washington University in St. Louis, MO., October 11, 2014.

NeuroSAE – NeuroSAE Vascular Edition, March 17, 2015.

NeuroSAE – NeuroSAE Clinical Neurophysiology Edition, March 23, 2015.

CITI - Collaborative Institutional Training Initiative, Human Subjects protection Course, April 20, 2015.

Online Learning – Recurrent Ischemic Stroke Prevention, April 23, 2015.

NeuroSAE – Neuro SAE Sixth Edition, May 3, 2015.

NYU Post-Graduate Medical School "Comprehensive Review of Physical Medicine and Rehabilitation 2013, May 6, 2015.

Continuum – Pre and Post Test Peripheral Nervous System Disorders, 2014, May 11, 2015.

2015 Stroke Certification Seminar (EDU1513), Lombard, IL, May 21, 2015.

Memorial Health System Executive Lean Six Sigma White Belt Training Course, May 28, 2015.

SIU Neurology Grand Rounds, June 1, 2015.

A007 – Rankin Scale mRS – 4<sup>th</sup> Certification – E V.1, Certification of completion, August 18, 2015.

American Academy of Sleep Medicine, Interpreting Sleep Studies Course, Darien, IL., October 3, 2015.

Washington University School of Medicine, St. Louis, MO, Brain Attack! 2015, "Year of the Catheter: Innovation in Endovascular Therapy", October 24, 2015.

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Rush University Medical Center, "Treatment of Dystonia & Spasticity"; April 9, 2016.

American Academy of Physical Medicine and Rehabilitation, REMS Playbook for Opioid Prescribing: Online Interactive Learning Experience; June 18, 2016.

NIH Stroke Scale Test, "NIHSS-English Group B-V3 – 2<sup>nd</sup> Certification, August 31, 2016.

Emergency Neurological Life Support (ENLS) Certificate of Completion, September 4, 2016.

Midwest Healthcare Quality Alliance (MHQA) Symposium, Memorial Medical Center, Springfield, IL., September 22, 2016.

Attend American Clinical Neurophysiology Society (ACNS) 2016 Fall Course, Nashville, TN, September 24-25, 2016.

Attend the 2017 Stroke Certification Conference, Chicago, IL., June 8, 2017.

Brain Attack! 2017, Personalized Medicine: Individualizing the Therapeutic Window for Acute Stroke, Washington University Medical Center, St. Louis, MO., June 10, 2017.

Attend American Clinical Neurophysiology Society (ACNS) 2017 Fall Course in Chicago, IL., October 14-15, 2017.

2018 EPIC Training – Inpatient Provider, Regularly Scheduled Series, Prairie Cardiovascular Consultants, Ltd., Springfield, IL. Series one, January 29, 2018.

2018 EPIC Training – Inpatient Provider, Regularly Scheduled Series, Prairie Cardiovascular Consultants, Ltd., Springfield, IL. Series two, February 2, 2018

2018 AAN Annual Meeting, Critical Care EEG Monitoring – C106, April 24, 2018.

2018 AAN Annual Meeting, Frontiers in Neuroscience Plenary Session – PL5, April 25, 2018.

2018 AAN Annual Meeting, Eye Movement Disorders: A Systematic Approach to the Evaluation of Diplopia – C167, April 25, 2018.

2018 AAN Annual Meeting, Mastering EMG Waveform Recognition Skills in Just Two Hours! – C142, April 25, 2018.

2018 AAN Annual Meeting, Controversies in Neurology Plenary Session – PL6, April 26, 2018.

2018 AAN Annual Meeting, Case Studies: Test Your Knowledge: A Case-based Approach to Neuroimaging – C212, April 26, 2018.

2018 AAN Annual Meeting, Neuroimaging for the General Neurologist II: Spine and Peripheral Nerve – C202, April 26, 2018.

2018 AAN Annual Meeting, Neurology Year in Review: Emerging Therapies Plenary Session – PL7, April 27, 2018.

2018 AAN Annual Meeting, Epilepsy Skills Workshop: Focus on Treatment – C234, April 27, 2018.

Memorial Medical Center, CME Addiction Training, May 11, 2018.

American Academy of Addiction Psychiatry (AAAP), attended MAT Waiver Training, May 29, 2018.

Attend Brain Attack! 2018 at Washington University in St. Louis, School of Medicine, in St. Louis, MO., June 9, 2018

Attend Neuromuscular Review Course, The University of Kansas, Chicago, IL., July 14, 2018.

Web DCU, Clinical Trail Management System, Certificate of Successful Completion of the Modified Rankin Scale Test, July 16, 2018.