**Michelle Hu Leppert, M.D., M.B.A.**

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**Education**

M.S. in Health Services Research, Colorado School of Public Health 2016-Present

Bugher Stroke Research Fellowship, University of Colorado, Aurora, CO 2016-2018

Vascular Neurology Fellowship, University of Colorado, Aurora, CO 2015-2016
Neurology Residency, University of Colorado, Aurora, CO 2011-2015
M.B.A., Emory University, Atlanta, GA 2009-2011

M.D., Emory University, Atlanta, GA 2006-2011

B.S., Duke University, Durham, NC 2001-2005

# Academic Appointments

**Assistant Professor** 2018 - Present
Department of Neurology
University of Colorado
Aurora, CO

**Honors and Awards**

Junior Investigator Travel Award, International Stroke Conference 2019

Bugher Research Fellow, American Heart Association- Salary Support, Project Funding and Tuition 2016

Resident Research Award, University of Colorado Hospital, Department of Neurology 2015

Merit Based Scholarship, Emory University Goizueta Business School - 75% of full tuition awarded. 2009

Medical Student Summer Research Fellowship, Emory University School of Medicine 2007

Graduated with Distinction, Duke University 2005

Dean’s List, Duke University 2002 - 2005

Dean’s Summer Research Fellowship, Duke University 2003/2004

Center for International Studies Overseas Summer Awards, Duke University 2004

**Memberships in Profession Organizations**

Neurohospitalist Society, Member 2018 - Present

American Heart Association, Member 2014 - Present

American Academy of Neurology, Member 2012 - Present

**Major Committee and Service Responsibilities**

Colorado Stroke Advisory Board, Vascular Neurologist Representative 2019 - Present

Governor Appointed Member

American Heart Association, Stroke Quality and Outcomes Committee 2019 - Present

Appointed Member

Prevention and Outcomes in Women Enhancing Stroke Support 2019 - Present

Member

Faculty Senate, University of Colorado School of Medicine 2018 - Present

Representative for the Department of Neurology

Stroke Alert Development Working Group 2018 - Present

Rocky Mountain Regional VA Medical Center

Stroke Council, Member 2018 - Present

University of Colorado Hospital

House Officer’s Association, University of Colorado Hospital 2013 – 2016

Representative for Neurology Residency Program

Governing Board - GME Health Benefits Plan, University of Colorado Hospital 2013 - 2014/

Resident Representative 2015 - 2016

Clinical Effectiveness and Patient Safety Committee, University of Colorado Hospital 2013 - 2014

Resident Representative

**Licensure and Board Certification**

State of Colorado Medical License 2014 - Present

State of Wyoming Medical License 2017 - Present

Diplomat, American Board of Psychiatry and Neurology 2015 - Present

Diplomat, American Board of Psychiatry and Neurology, Vascular Neurology 2016 - Present

**Review and Referee Work**

<https://publons.com/researcher/1111630/michelle-leppert/>

Stroke, reviewer 2019

Circulation: Cardiovascular Quality and Outcomes, ad hoc reviewer 2019

Neurology, ad hoc reviewer 2019

Journal of the American Heart Association, ad hoc reviewer 2019

Journal of Stroke and Cerebrovascular Diseases, ad hoc reviewer 2019

The Neurohospitalist, ad hoc reviewer 2018

Journal of Neurointerventional Surgery, ad hoc reviewer 2018

Pre-K Career Development Program, CCTSI, invited grant reviewer 2017

University of Colorado Neurology Research Retreat, resident research award judge 2017/2019

Austin Journal of Cerebrovascular Disease and Stroke, ad hoc reviewer 2017

Applied Health Economics and Health Policy, ad hoc reviewer 2017

Journal of Medical Economics, ad hoc reviewer 2017

Therapeutics and Clinical Risk Management, ad hoc reviewer 2015 - 2018

American Journal of Neuroradiology, reviewer for Socioeconomics 2015 - Present

Stroke & Vascular Neurology, ad hoc reviewer 2015

International Medical Case Reports Journal, ad hoc reviewer 2015

**Invited extramural lectures, presentations and visiting professorships**

**Local**

**Michelle Leppert**. “Cost Effectiveness Evaluation in Stroke”. University of Colorado, Department of Neurology 8th Annual Research Retreat. June 6th, 2018.

Meghan Barry, **Michelle Leppert**, John Carroll, Karen Orjuela. “Quit Playing Games with My Heart: Patent Foramen Ovale Closure and Cryptogenic Stroke.” Department of Neurology Grand Rounds. University of Colorado. February 14th, 2018.

Cameron Ludt, **Michelle Leppert**, Sharon Poisson, Daniel Vela Duarte. “Arterial Dissection- Investigating A Possible Cluster and Review of a Common Cause of Stroke in the Young”. Department of Neurology Grand Rounds. University of Colorado. November 3rd, 2016.

**Michelle Leppert**. “Cost Effectiveness Evaluation of Stroke Treatments”. University of Colorado, Department of Neurology 5th Annual Research Retreat. June 17th, 2015.

Steve Ringel, Debra O’Reilly, Dianna Quan, Jason Fleming, Douglas Ney, **Michelle Leppert**, Christopher Schneck. “Detecting and treating depression in progressing neurological disorders”. Department of Neurology Grand Rounds. University of Colorado. August 14th, 2013.

**National**

**Michelle Leppert**. “Young Adult Strokes”. Neurology Resident Lectures. University of Michigan, Ann Arbor, MI. September 25th, 2017.

**Michelle Leppert**. “Bugher Fellow Update“. ASA/Bugher Foundation Centers for Excellence in Stroke Research Annual Scientific Meeting. University of California Los Angeles, Los Angeles, CA. October 20th, 2017.

**Michelle Leppert.** “Trends in Stroke Hospitalizations, Associated Risk Factors and Treatments among Young Adult Ischemic Strokes in the US, 2001-2014 “. ASA/Bugher Foundation Center for Excellence in Stroke Research Annual Scientific Meeting. University of Miami, Miami, FL. October 21st, 2016.

**International**

**Michelle Leppert**, Stefan Sillau, Richard Lindrooth, Sharon Poisson, Jonathan Campbell, Jennifer Simpson. “Relationship Between Early Outpatient Visits and Readmission at 30 and 90 Days in Patients After Acute Ischemic Stroke”. International Stroke Conference, Honolulu, HI. February 6th, 2019.

**Teaching Record**

**Teaching**

Lecturer, Vascular Neurology Didactics 2016 – Present

Lecturer, Stroke/ Neurological Emergencies Block 2015 – Present

Clinical Education of Medical Students, Residents and Fellows 2016 – Present

**Mentoring**

Jarret Leech, Neurology resident, research, career counseling 2018 - Present

Rebecca Pollard, Neurology resident, research study design and publication 2017 - Present

Gary Walker, Stroke Fellow, career counseling, research study design 2017 - Present

Camron Ludt, Stroke Fellow, career counseling, research publication 2016 - 2017

Meghan Barry, Stroke Fellow, career counseling, research study design 2017 - 2018

**Grants Support**

**Principle Investigator** 2019 - Present

Sex Differences in Young Adult Strokes

To examine sex differences in young adult strokes incidence and etiology by using the Colorado statewide All Payer Claims Database, a large population-based sample of young adults with both commercial and Medicaid coverage.

University of Colorado School of Medicine, Department of Neurology Intradepartmental Pilot Grant, awarded **$40,000**

**Co-Principle Investigator** 2017 - Present

The Association between Age, Exercise and Brain Volume after MCA Stroke: From Childhood to Elderly Stroke Imaging Study (FaCE-SIS)

To explore patterns of secondary neurodegeneration across the age spectrum in children and adults with middle cerebral artery distribution strokes.

Bugher’s Fellows Collaborative Project, awarded **$144,240** by the AHA Bugher Foundation.

**Co-Investigator** 2018 - Present

Study of Allogeneic Umbilical Cord Blood Infusion for Adults With Ischemic Stroke (CoBIS 2)

To determine the efficacy of a single intravenous infusion of unrelated donor umbilical cord blood (UCB) for improving functional outcomes in patients with ischemic stroke.

**Co-Investigator** 2017 - Present BEnefits of Stroke Treatment Delivered Using a Mobile Stroke Unit (BEST-MSU)

Trial comparing pre-hospital diagnosis and treatment of patients with stroke symptoms using a Mobile Stroke Unit (MSU) with subsequent transfer to a Comprehensive Stroke Center (CSC) Emergency Department (ED) for further management.

**Co-Investigator** 2016 - 2017

Boehringer Ingelheim - RE-SPECT ESUS

Randomized, Double-blind Evaluation in Secondary Stroke Prevention Comparing the EfficaCy and Safety of the Oral Thrombin Inhibitor Dabigatran Etexilate (110 mg or 150 mg, Oral b.i.d.) Versus Acetylsalicylic Acid (100 mg Oral q.d.) in Patients With Embolic Stroke of Undetermined Source.

**Co-Investigator** 2015 - 2017 Platelet-Oriented Inhibition in New TIA and Minor Ischemic Stroke (POINT)

Evaluation of clopidogrel as a treatment to reduce risk of stroke and heart attack after TIA in patients also prescribed aspirin. The aim is to substantially reduce the stroke burden in the US and substantially reduce cost of care.

**Bibliography**

**Peer Reviewed Publications**

<https://www.ncbi.nlm.nih.gov/labs/bibliography/1ROVfCHFvtQA5/bibliography/public/>

\*\* Indications First or Last Author Publication

\*\***Leppert M**, Stefan S, Lindrooth R, Poisson S, Campbell J, Simpson J. Relationship Between Early Follow-up and Readmission within 30 and 90 Days After Ischemic Stroke. Neurology. In Press.

**\*\*Leppert M**, Poisson S, Sillau S, Campbell J, Ho PM, Burke J. Is Prevalence of Atherosclerotic Risk Factors Increasing Among Young Adults? It Depends on how you Ask. J Am Heart Assoc. 2019 Mar 19;8(6):e010883.

Pollard R, **Leppert M**, Rawson C, Boehnke M, Honce J, Nagae L, Poisson S, Nyberg E. A Clinical Paradigm for Classifying Neurologic Symptoms to Screen for Emergent Large Vessel Occlusions. J Stroke Cerebrovasc Dis. 2019 Apr;28(4):929-934.

Johnston SC, Easton JD, Farrant M, Barsan W, Conwit RA, Elm JJ, Kim AS, Lindblad AS, Palesch YY; Clinical Research Collaboration, Neurological Emergencies Treatment Trial Network, and the **POINT Investigators**. Clopidogrel and Asprin in Acute Ischemic Stroke and High-Risk TIA. N Eng J Med. 2018;379:215-255.

**\*\*Leppert, MH**, Poisson SN, Carroll JD, Thaler DE, Kim CH, Orjuela KD, Ho PM, Burke JF, Campbell JD. Cost-Effectiveness of Patent Foramen Ovale Closure Versus Medical Therapy for Secondary Stroke Prevention. Stroke. 2018;49:1443-1450.

Nguyen DH, Mohler A, **Leppert M**, Parra C, Zeng YP, Prok L, Schowinsky J, Margo CM, Pacheco T, Ney D. Index Case of Cutaneous Follicular Mycosis Fungoides with Central Nervous System Involvement and Review of Literature. Am J Dermatopathol. 2018;40:185-190.

Ludt C, **Leppert M**, Jones A, Song J, Kuwayama D, Pastula DM, Poisson S. Multiple Strokes Associated with Elongation of the Hyoid Bone. Neurohospitalist. 2018; 8:35-37.

\*\*Nyberg EM, Case D, Nagae LM, Honce JM, Reyenga W, Seinfeld J, Poisson S, **Leppert MH**. “The Addition of Endovascular Intervention for Dural Venous Sinus Thombosis: Single-Center Experience and Review of Literature”. J of Stroke and Cereb Dis. 2017;26:2240-7.

**\*\*Leppert M**, Poisson SN, Carroll JD. “Atrial Septal Defects in Cardioembolic Stroke”. Cardiol Clin. 2016;34:225-30.

Schowinsky J, **Leppert M**, Ney D, Kleinschmidt-DeMaster BK. “Prominent Vascular and Perivascular Eosinophilic Infiltrates Heralding CNS Mycosis Fungoides”. J Neuropathol Exp Neurol. 2015; 74:948-51.

**\*\*Leppert MH**, Campbell JD, Simpson JR, Burke JF. “Cost-Effectiveness of Intra-Arterial Treatment as an adjunct to Intravenous Tissue Type Plasminogen Activator for Acute Ischemic Stroke”. Stroke. 2015;46:1870-6.

Randleman JB, White AJ Jr, Lynn MJ, **Hu MH**, Stulting RD. “Incidence, outcomes, and risk factors for retreatment after wavefront-optimized ablations with PRK and LASIK.” J Refract Surg. 2009 Mar;25(3):273-6.

Randleman JB, Perez-Straziota CE, **Hu MH**, White AJ, Loft ES, Stulting RD. “Higher-order aberrations after wavefront-optimized photorefractive keratectomy and laser in situ keratomileusis.” J Cataract Refract Surg. 2009 Feb;35(2):260-4.

**Posters and Abstracts**

**Leppert MH,** Cotton E, Weitzencamp D, Campbell J, Ho PM, Burke J, Poisson S. Sex Differences in the Development of Cardiovascular Disease in Young Adults. (WP244) Poster presented at: The International Stroke Conference; 2018 Feb 6th, 2019. Honolulu, HI.

**Leppert MH**, Burke J, Campbell J et al. Trends in Young Adult Stroke and Acute Myocardial Infarction, Is Atherosclerosis to Blame? (WP183) Poster presented at: The International Stroke Conference; 2018 Jan 24-26. Los Angeles, CA.

**Leppert MH**, Campbell J, Burke J, et al. Treatment Rate of Atherosclerotic Risk Factors Among Young Adults Compared to Older Adults. (TMP120) Poster presented at: The International Stroke Conference; 2018 Jan 24-26. Los Angeles, CA.

**Leppert M**, Burke JF, Simpson JR, Campbell J. Unreliable Long-term Cost Data Introduces Substantial Uncertainty into Stroke Cost-Effectiveness Models. International Stroke Conference, February 17, 2014.

**Leppert M**, McConnell B, Finseth T, Simpson JR. Challenge of Diagnosing Neuromyelitis Optica in an Elderly Patient without the Use of MRI. Second Annual Neurohospitalist Society Meeting, September 27, 2014.

**Leppert M**, Damek D, Palmer L, Ney D. “Depression Screening in Patients with Primary Brain Tumor”. Second Annual Neurohospitalist Society Meeting, September 27, 2014.

**Oral Presentations**

**Michelle Leppert**, Stefan Sillau, Richard Lindrooth, Sharon Poisson, Jonathan Campbell, Jennifer Simpson. “Relationship Between Early Outpatient Visits and Readmission at 30 and 90 Days in Patients After Acute Ischemic Stroke”. International Stroke Conference, Honolulu, HI. February 6th, 2019.

**Michelle Leppert**. “Cost Effectiveness Evaluation in Stroke”. University of Colorado, Department of Neurology 8th Annual Research Retreat. June 6th, 2018.

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Steve Ringel, Debra O’Reilly, Dianna Quan, Jason Fleming, Douglas Ney, **Michelle Leppert**, Christopher Schneck. “Detecting and treating depression in progressing neurological disorders”. Department of Neurology Grand Rounds. University of Colorado. August 14, 2013.

**Television**

Fox 31 News. Fox 31 Denver. 6 Feb 2015. “Women More Susceptible to Stroke: Know the Signs”. Shaul Turner Reporting. Television.

 <https://kdvr.com/2015/02/06/women-more-susceptible-to-stroke-know-the-signs/>

9News. 9News Denver. 4 March 2019. “Neurologist Discusses Warning Signs of a Stroke”. 9News at 4PM with Kim Christiansen and Tom Green. Television. <https://www.9news.com/video/entertainment/television/programs/9news-on-demand/neurologist-discusses-warning-signs-of-a-stroke/73-b4c12814-d616-4f27-b133-1e2d00c3ac1c>