BIOGRAPHICAL SKETCH

NAME: Julia C. Johnson

eRA COMMONS USER NAME (credential, e.g., agency login): JULIACJOHNSON

POSITION TITLE: Clinical Director, HealthPartners Parkinson's Center

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	Completion Date	FIELD OF STUDY
University of Greifswald, School of Medicine, Greifswald, Germany		2000	Medicine
University of Heidelberg, School of Medicine, Faculty Mannheim, Germany	MD	2005	Medicine
University of North Carolina, Chapel Hill, NC	Internship	2006	Internal Medicine
University of North Carolina, Chapel Hill, NC	Residency	2009	Neurology
Duke University, Durham, NC	Fellowship	2010	Movement Disorders

A. Personal Statement

I am the Clinical Director at HealthPartners Parkinson's Center and Adjunct Assistant Professor in Neurology at the University of Minnesota. I have a particular interest in movement disorders and my research in recent years has primarily focused on Parkinson's disease. As the Clinical Director of the HealthPartners Parkinson's Center, my goal is to provide patient care with a focus on education and communication.

1. Parkinson Study Group SURE-PD Investigators, Schwarzschild MA, Ascherio A, Beal MF, Cudkowicz ME, Curhan GC, Hare JM, Hooper DC, Kieburtz KD, Macklin EA, Oakes D, Rudolph A, Shoulson I, Tennis MK, Espay AJ, Gartner M, Hung A, Bwala G, Lenehan R, Encarnacion E, Ainslie M, Castillo R, Togasaki D, Barles G, Friedman JH, Niles L, Carter JH, Murray M, Goetz CG, Jaglin J, Ahmed A, Russell DS, Cotto C, Goudreau JL, Russell D, Parashos SA, Ede P, Saint-Hilaire MH, Thomas CA, James R, Stacy MA, **Johnson J**, Gauger L, Antonelle de Marcaida J, Thurlow S, Isaacson SH, Carvajal L, Rao J, Cook M, Hope-Porche C, McClurg L, Grasso DL, Logan R, Orme C, Ross T, Brocht AF, Constantinescu R, Sharma S, Venuto C, Weber J, Eaton K. Inosine to increase serum and cerebrospinal fluid urate in Parkinson disease: a randomized clinical trial. JAMA Neurol. 2014 Feb;71(2):141-50. PMCID: PMC3940333.
2. Lewek M, Poole R, **Johnson J**, Halawa O, Huang X. Arm swing magnitude and asymmetry during gait in the early stages of Parkinson's disease. Gait Posture 2010 Feb;31(2):256-60. PMCID: PMC2818433.

B. Positions and Honors

Positions and Employment

2010-2012 Assistant Professor, Duke University, Division of Neurology, Durham, NC
2013-pres. Clinical Director, HealthPartners Parkinson's Center, St Paul, MN
2013-pres. Adjunct Assistant Professor in Neurology at the University of Minnesota, Minneapolis, MN

Professional Memberships

Movement Disorder Society
American Academy of Neurology
Parkinson Study Group

Certification and Licensure

2013 Minnesota State License
2009 American Board of Psychiatry and Neurology (ABPN)

C. Contribution to Science

1. **Movement disorders.** While completing my residency in Neurology at the University of North Carolina – Chapel Hill, I developed an interest in movement disorders, particularly Parkinson's disease (PD). I have been involved in pharmacy sponsored trials and investigator initiated trials in PD. My research in PD has ranged from measuring arm swing magnitude to the effects of exercise on cognition in PD. In a randomized controlled trial studying arm swing magnitude in a gait lab, we found that arm swing asymmetry among patients with PD was significantly greater compared to the control group, which shows that this simple measure may be useful for early diagnosis, as well as tracking disease progression. In a study of a 12-week exercise program using a treadmill to investigate the effect of exercise on cognition in Parkinson's disease, we found positive trends toward improvement of cognition, quality of life and motor scores. We are now able to offer the exercise program to all Parkinson's patients at our Parkinson's Center.

   a. Parkinson Study Group SURE-PD Investigators, Schwarzschild MA, Ascherio A, Beal MF, Cudkowicz ME, Curhan GC, Hare JM, Hooper DC, Kieburtz KD, Macklin EA, Oakes D, Rudolph A, Shoulson I, Tennis MK, Espay AJ, Gartner M, Hung A, Bwala G, Lenehan R, Encarnacion E, Ainslie M, Castillo R, Togasaki D, Barles G, Friedman JH, Niles L, Carter JH, Murray M, Goetz CG, Jaglin J, Ahmed A, Russell DS, Cotto C, Goudreau JL, Russell D, Parashos SA, Ede P, Saint-Hilaire MH, Thomas CA, James R, Stacy MA, **Johnson J**, Gauger L, Antonelle de Marcaida J, Thurlow S, Isaacson SH, Carvajal L, Rao J, Cook M, Hope-Porche C, McClurg L, Grasso DL, Logan R, Orme C, Ross T, Brocht AF, Constantinescu R, Sharma S, Venuto C, Weber J, Eaton K. Inosine to increase serum and cerebrospinal fluid urate in Parkinson disease: a randomized clinical trial. JAMA Neurol. 2014 Feb;71(2):141-50. PMCID: PMC3940333.
   b. Lewek M, Poole R, **Johnson J**, Halawa O, Huang X. Arm swing magnitude and asymmetry during gait in the early stages of Parkinson's disease. Gait Posture 2010 Feb;31(2):256-60. PMCID: PMC2818433.
   c. **Johnson J**, Svitak A, Farrell M, Mosch S, Yu F, Parker E, Hanson L. Effects of a 12- week exercise program on cognition in Parkinson's disease. Poster presentation at the International Congress of Parkinson's Disease and Movement Disorders in Berlin, Germany, June 19-23, 2016.
   d. **Johnson J**, Stacy M. Unusual causes of tremor. In Uncommon causes of Movement Disorders; Galvez-Jimenez N, Tuite P, ed. Cambridge University Press, 2011.

2. **Sleep Medicine.** As part of my doctoral thesis at the University of Heidelberg School of Medicine, Germany I focused research on sleep medicine and seasonal allergic rhinitis, more commonly referred to as hay fever. This research added to the literature by finding that seasonal allergic rhinitis leads to increased daytime sleepiness, as well as impairs quality of life.

   a. Stuck BA, **Czajkowski J**, Hagner AE, Klimek L, Verse T, Hörmann, Maurer JT. Changes in daytime sleepiness, quality of life and objective sleep patterns in seasonal allergic rhinitis: a controlled clinical trial. J Allergy Clin Immunol. 2004 Apr;113(4):663-8.
   b. Stuck BA, **Czajkowski J**, Hagner AE, Klimek L, Maurer JT, Hörmann K, Verse T. Daytime sleepiness in seasonal allergic rhinitis. Allergologie 2004 Feb;2:45-48.
   c. Stuck BA, Hummel T, Hecksteden K, **Czajkowski J**, Klimek L, Hüttenbrink KB, Hörmann K. Mometasone furoate in the therapy of allergic rhinitis. Allergologie 2003;5:196-201.
   d. Stuck BA, **Czajkowski J**, Hagner AE, Klimek L, Verse T, Hörmann K, Maurer JT. Changes in sleep pattern in seasonal allergic rhinitis. 22th Congress of the European Academy of Allergology and Clinical Immunology. Paris, June 07-11, 2003. Allergy 2003; 58 (Suppl 74):75.

D. Research Support

Ongoing Research Support

None

Completed Research Support

Imaging of Intrinsic Connectivity Networks (Chen)
Source: NINDS/R01NS074045
Role: Site PI 09/30/2011-06/30/2016
The proposed methods enable reliable measurements of the intrinsic neuronal connectivity in patients with neurological diseases (including the Parkinson's disease). From the proposed studies we will gain in-depth knowledge on alternations of the neuronal architectures during the progression of neurological diseases.

Cognition Linked to Endurance & Vigorous Exercise Research for Patients with Parkinson's Disease (CLEVER – PD)
Source: Institute Discovery Grant Program 06/01/2014-05/31/2016
Role: Principal Investigator
The main goals of this study are to determine the feasibility of conducting a trial of the "CLEVER - PD" (Cognition Linked to Endurance & Vigorous Exercise Research) aerobic endurance exercise program in patients with a diagnosis of Parkinson's disease (PD), to estimate its effectiveness to improve cognition, and to explore the association between changes in cardiovascular fitness and cognition.

Investigating the Effect of Vigorous Exercise on Cognition in Parkinson's Disease (Johnson)
Source: HealthPartners Parkinson's Center
Role: Principal Investigator 04/01/2014-05/31/2015

Pilot Study Investigating Parkinson's Disease Tremor Using fMRI in Collaboration with Duke-UNC Brain Imaging and Analysis Center (BIAC) (Johnson)
Source: Duke University
Role: Principal Investigator 09/01/2010-12/31/2011

SURE PD Study, Inosine for Parkinson's Disease
Source: MJF Foundation
Role: Site PI 01/01/2010-12/31/2011

Genetics of Dystonia Study (Calakos)
In collaboration with Nicole Calakos, MD, PhD; Duke University. 07/01/2009-06/30/2010
Role: Leading role in writing study protocol, IRB application, enrolling patients, examining patients, maintaining database.

Symmetry of Arm Swing in Early Parkinson's Disease (Huang)
Source: University of North Carolina
Role: Co-Investigator 01/01/2008-06/30/2008
Clinical study under the direction of Dr. Xuemi Huang, University of North Carolina, Department of Neurology

Influence of Seasonal Allergic Rhinitis on Sleep Patterns (Stuck)
Source: University of Heidelberg/Mannheim
Role: Co-Investigator 05/01/2001-12/31/2002
Clinical study investigating the influence of seasonal allergic rhinitis on sleep patterns, under the direction of Dr. Boris Stuck, University of Heidelberg, ENT Department Faculty Mannheim, Germany.