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### J. Riley McCarten, MD.

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- **Medical Director**, Geriatric Research, Education and Clinical Center (GRECC), Minneapolis VA Health Care System, Minneapolis, MN
- **Medical Director**, University of Minnesota Medical Center – Fairview Memory Clinic, Minneapolis, MN
- **Associate Director**, University of Minnesota N. Bud Grossman Center for Memory Research and Care (CMRC), Minneapolis, MN
- **Staff Neurologist**, GRECC, Minneapolis VA Health Care System, Minneapolis, MN
- **Associate Professor**, Department of Neurology, University of Minnesota Medical School, Minneapolis, MN

#### Research Interests:

The focus of my research is in the early diagnosis and treatment of Alzheimer's disease. Fundamental to those efforts are the development of a patient database, the opening of the University of Minnesota – Fairview (UMMC-FV) Memory Clinic, and several ongoing clinical protocols.

In 2004, a group of scientists and clinicians from the University of Minnesota and the Veterans Affairs Medical Center began meeting weekly to discuss issues of dementia assessment and treatment with the goal of bringing a federally funded Alzheimer's Disease Research Center (ADRC) to the Twin Cities. The Clinical Research Integration Program (CRIPs) led to the development and implementation of a sophisticated dementia evaluation protocol and related computer-based database of patients from the Minneapolis VA Health Center GRECC and the UMMC-FV Memory Clinic. The database is central to enrolling and following patients and families in several innovative clinical research protocols, including: longitudinal studies of normal elderly and patients with dementia; brain imaging with magnetoencephalography (MEG; through the VAMC Brain Sciences Center), MRI (U of M Center for Magnetic Resonance Research), and PET (VAMC Cognitive Neuroimaging Unit); driving and dementia; use of the Cognitive Performance Test (CPT), a performance-based functional assessment; drug treatment for dementia; biochemical analysis of serum and cerebrospinal fluid in dementia; and brain autopsy studies.

#### Research Support:

Title: **VA Cooperative Study #546: A Randomized Clinical Trial of Vitamin E and Memantine in Alzheimer's Disease**

Role: Site PI

Source: VA Cooperative Studies Program (CSP)

Amount: \$445,000 (\$8,100,885 over 5 years)

Period: 5/07 – 9/30/12

% Effort: 10%; no salary support

Title: **Incidence of Epilepsy/Seizures & Outcomes in Nursing Homes: A 5 Year Cohort**  
Role: Consultant  
Source: CDC and the Association of Schools of Public Health (ASPH)  
Amount: \$1,199,797 over 3 years  
Period: 6/08 – 5/11  
% Effort: 1% and salary support

Title: **MRI Derived Brain Functional Connectivity to Distinguish AD, MCI and Normals**  
Role: PI  
Source: Minnesota Veterans Research and Education Foundation  
Amount: \$9,011 over 2 years  
% Effort: 5%; no salary support

Title: **The Dementia Demonstration Project**  
Role: Physician Champion  
Source: VISN 23 Strategic Initiative and Strategic Initiative Plus funding  
Amount: \$3.1 M  
Period: 10/07 – 12/09  
% Effort: 15%; no salary support

**Recent Publications:**

Burns T, **McCarten JR**, Adler G, Bauer M, Kuskowski M. Effects of repetitive work on maintaining function in Alzheimer's disease. *American Journal of Alzheimer's Disease* 19(1):39-44, 2004.

**McCarten JR**, Rottunda SJ, Kuskowski MA. Change in the Mini-Mental State Exam in Alzheimer's Disease Over 2 Years: The Experience of a Dementia Clinic. *Journal of Alzheimer's Disease* 6(1):11-15, 2004.

Georgopoulos AP, Karageorgiou E, Leuthold AC, Lewis SM, Lynch JK, Alonso AA, Aslam Z, Carpenter AF, Georgopoulos A, Hemmy LS, Koutlas IG, Langheim FJP, **McCarten JR**, McPherson SE, Pardo JV, Pardo PJ, Parry GJ, Rottunda SJ, Segal BM, Sponheim SR, Stanwyck JJ, Stephane M, Westermeyer JJ. Synchronous neural interactions assessed by magnetoencephalography: A functional biomarker for brain disorders. *J Neural Engineering* 4:349-355, 2007.

**McCarten JR**, Hemmy LS, Rottunda SJ, Kuskowski MA. Patient Age Influences Recognition of Alzheimer's Disease. *Journal of Gerontology: Medical Sciences* 63A(6):625-628, 2008.

Anderson P, **McCarten JR**. *Advances in Geriatrics: An Innovative Approach to Managing Alzheimer's Disease*. *Federal Practitioner* 26(11):32-36, 2009.

Rottunda SJ, Lawler KL, **McCarten JR**. Advances in Geriatrics: The Driving Clinic: A Pilot Program for Veterans with Dementia. Federal Practitioner 27(4):34-38, 2010.

Pardo JV, Lee JT, Kuskowski MA, Munch KR, Carlis JV, Sheikh SA, Surerus C, Lewis SM, **McCarten JR**, Fink H, McPherson S, Hemant HH, Rottunda S, Dysken MW. Fluorodeoxyglucose positron emission tomography of mild cognitive impairment with clinical follow-up at 3 years. Alzheimer's & Dementia 6(4):326-333, July 2010.

**McCarten JR**, Anderson P, Kuskowski MA, McPherson SE, Borson S. Screening for Cognitive Impairment in an Elderly Veteran Population: Acceptability and Results Using Different Versions of the Mini-Cog™. J Am Geriatr Soc 59:309–313, 2011.

Verdoorn TA, **McCarten JR**, Arciniegas D, Golden R, Moldauer L, Georgopoulos A, Lewis S, Cassano M, Hemmy L, Orr W, Rojas D. Evaluation and tracking of Alzheimer's disease severity using resting state magnetoencephalography. J of Alz Dis (accepted 6.21.2011).

**McCarten JR**, Anderson P, Kuskowski MA, McPherson SE, Borson S, Dysken MW. Finding Dementia in Primary Care: The Results of a Clinical Demonstration Project. J Am Geriatr Soc (submitted 2.24.2011).

#### **Education:**

- **BS Psychology** – Georgetown University, Washington, D.C., 1976
- **M.D.** – University of Minnesota Medical School, Minneapolis, MN 1980
- **Postdoctoral Fellow** – Sleep Disorders Medicine, Minnesota Regional Sleep Disorder Center, Hennepin County Medical Center, Minneapolis, MN 1984-1985
- **Postdoctoral Fellow** – Clinical and Research Fellow in Alzheimer's Disease, Department of Neurology, Harvard Medical School at the Massachusetts General Hospital, Boston, MA 1985-1987
- **Postdoctoral Fellow** – Research Scientist, Department of Psychology, Massachusetts Institute of Technology, Boston, MA 1985-1987

#### **Licensure:**

- Licensed by Minnesota Board of Medical Examiners 1983
- Board Certified in Neurology by American Board of Psychiatry and Neurology 1991

#### **Contact Information:**

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