

CURRICULUM VITAE

Ralph H. B. Benedict, Ph.D.

Professor of Neurology, Psychiatry and Psychology
Department of Neurology, University at Buffalo
School of Medicine and Biomedical Sciences
State University of New York (SUNY)

UBMD Neurology
1010 Main Street, Buffalo, NY 14202
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Erie County Medical Center
Psychiatry, 11th Floor
462 Grider Street, Buffalo, New York 14215

EDUCATION and TRAINING

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| 1996 | American Board of Professional Psychology (ABPP)
Diploma, American Academy of Clinical Neuropsychology |
| 1992 | Residency/Postdoctoral Fellowship in Clinical Neuropsychology
Johns Hopkins School of Medicine, Baltimore, Maryland |
| 1990 | Ph.D. in Clinical Psychology (APA accredited)
Arizona State University, Tempe, Arizona |
| 1987 | M.A. in Clinical Psychology (APA accredited)
Arizona State University, Tempe, Arizona |
| 1983 | B.S. in Psychology
Ohio State University, Columbus, Ohio |

BOARD CERTIFICATION and LICENSE

American Board of Clinical Neuropsychology
Licensed Psychologist in New York State, #011422

POSITIONS and PROFESSIONAL EXPERIENCE

- 2006 - present Professor of Neurology. University at Buffalo, State University of New York (SUNY). Appointments in Psychiatry, Psychology, and Counseling and Educational Psychology.
- 2003 - present Senior Member of the Graduate Faculty. University at Buffalo, State University of New York (SUNY). Adjunct appointments in Psychiatry, Psychology, and Counseling and Educational Psychology.
- 2009 - present Director, UB Neuropsychology. Clinical services for University at Buffalo and UBMD, teaching psychology graduate students, medical students, and residents in Neurology and Psychiatry.
- 1998 - present Consultant, National Hockey League and National Football League. Neuropsychological consultations pertaining to mild head trauma, Buffalo, NY.
- 1999 - 2005 Associate Professor of Neurology. Promotion with tenure, University at Buffalo, SUNY School of Medicine, Buffalo, NY. Adjunct appointments in Psychiatry, Psychology, and Counseling and Educational Psychology.
- 1997 - 2009 Head, Clinical Neuropsychology Section. For the Division of Cognitive and Behavioral Neurosciences, SUNY Buffalo, Department of Neurology.
- 1995 - 1998 Assistant Professor. Department of Psychiatry, State University of New York 1999 (SUNY) at Buffalo School of Medicine, Buffalo, New York.
- 1992 - 1999 Assistant Professor. Dept of Neurology, State University of New York (SUNY) Buffalo School of Medicine, Buffalo, New York.
- 1992 - present Staff Psychologist. Erie County Medical Center and Kaleida Health System. Buffalo, New York.
- 1992 - 1999 Clinical Assistant Professor. Department of Psychology, State University of New York (SUNY) at Buffalo, Buffalo, New York.
- 1995 - 1997 Consultant. Erie County Department of Mental Health, Division of Forensic Mental Health Services, Buffalo, New York.
- 1990 - 1992 Postdoctoral Resident/Fellow in Clinical Neuropsychology. Johns Hopkins School of Med, Dept Psychiatry and Behavioral Sciences, Baltimore MD.

- 1989 - Clinical Psychology Internship (APA accredited). Baltimore Area Veterans Administration Consortium, Baltimore, Maryland.
- 1988 Research Assistant. Arizona State University, Tempe, Arizona.
- 1988 Psychology Predoctoral Internship. Good Samaritan Hospital, Phoenix, Arizona. Training in clinical neuropsychology.
- 1987 - Psychology Predoctoral Internship. Hope Center for Head Injury, Phoenix, Arizona.
1988 Training in clinical neuropsychology.
- 1987 Psychology Predoctoral Internship. Camelback Hospital, Phoenix, Arizona. Training in psychodynamic and existential psychotherapies.
- 1986 Psychology Predoctoral Internship. Federal Correctional Institution, Phoenix, Arizona. Training in psychological assessment and psychotherapy.
- 1985 Psychology Predoctoral Internship. Maricopa County Sheriff's Office, Phoenix, Arizona.
- 1985 Research Assistant. Arizona State University, Tempe, Arizona.

TEACHING and CLINICAL SUPERVISION

Instructor, *Research Supervision for Psychology Graduate Students*, University at Buffalo, 1995-present.

Instructor, *Clinical Practicum for Psychology Graduate Students*, University at Buffalo, 1992-present.

Lecturer, *Neuroscience Seminar*, UB Neurology, 1992 to present.

Lecturer, *Residents Seminar*, UB Psychiatry, 1992 to present.

Clinical Supervisor and Instructor, *Research and Clinical Training in Neuropsychology*, elective rotations for residents and medical students in the departments of Neurology, Psychiatry, and Rehabilitation Medicine, University at Buffalo, 1992 to present.

Instructor, *Independent Study in Psychology (PSY 498, PSY 499)*, Including Honors Program Students, Department of Psychology, University at Buffalo, Buffalo, NY, 1992 to present.

Lecturer, *Advanced Neurology 801*, SUNY Buffalo, 2011 to 2012.

Clinical Supervisor, *Clinical Neuropsychology Residency Program*, Department of Neurology, SUNY Buffalo, School of Medicine, Buffalo, NY, 1998 to 2016.

Lecturer, *Psychiatry and Behavioral Science Seminar*, Department of Psychiatry, SUNY Buffalo, School of Medicine, Buffalo, NY, 1995 to 2007.

Discussant and Clinical Supervisor, *Chairman's Rounds*, Department of Neurology, SUNY Buffalo, School of Medicine, Buffalo, NY, 1992 to 2003.

Research Supervisor, *Dissertation Committee Co-Chair*, Department of Psychology, Chicago Medical School, 1996 to 2000.

Lecturer, *Dementia and Alzheimer's Disease*, SUNY Buffalo, School of Medicine, 1993-2000.

Lecturer, *Human Behavior I*, SUNY at Buffalo, School of Medicine, Buffalo, NY, 1993-2000.

Lecturer, *Seminar in Neuropsychology*, Department of Family Medicine, SUNY Buffalo, 1998.

Lecturer, *Neuroscience Course*, SUNY Buffalo, 1995-1996.

Clinical Supervisor, supervision of junior level psychologists. Department of Psychiatry, SUNY Buffalo, School of Medicine, 1995-1996.

Clinical Supervisor, *Neuropsychology Rotation*, Clinical Psychology Internship, Buffalo VAMC 1993-94.

Clinical Supervisor, supervision of junior level postdoctoral fellows, Psychology Service, Baltimore Veteran's Administration Medical Center, Baltimore, MD, 1991-1992.

Instructor, *Introduction to Psychology*, Arizona State University, Tempe, AZ, 1985.

GRANTS and CONTRACTS

CURRENT and PENDING

Internet Delivered Lifestyle Physical Activity Intervention for Cognitive Processing Speed in Multiple Sclerosis. Role = Col, NIH, 09/01/2021 – 08/30/2026, \$2,536,000.

Multiple Sclerosis Performance Test (MSPT) Benchmarks of Employment Status and Deterioration. Role = PI, Biogen, 01/01/2020 – 12/31/2021, \$119,000.

A novel method for the investigation of the neural underpinnings of performance on the Symbol Digit Modalities Test in Multiple Sclerosis. Role = Col, T Covey PI, National MS Society, 01/01/2020 – 12/30/2021, \$55,00.

Cognitive impairment and employment status in patients with multiple sclerosis in Latin America. Role = Col, S Vanotti PI. LACTRIMS – Latin American Committee for Treatment and Research in Multiple Sclerosis, 12/17/2020 – 11/30/2021, \$50,000.

Open-label, single-blinded, observational, prospective, 36-month, longitudinal, controlled study to assess the efficacy of siponimod (Mayzent®) on microglia in patients with active secondary progressive forms of multiple sclerosis. Role = Col, R Zivadinov PI. Novartis, 11/01/2019 – 12/31/2024, \$2,475,310.

Clinical and Translational Science Award. Role = Col Core Operations Special Populations, Timothy Murphy PI, National Center for Advancing Translational Sciences, 12/1/2019 – 11/30/2024, \$2,582,050 (direct). The CTSA supports research institutions working together to develop innovative solutions that will improve the efficiency, quality and impact of the process for turning observations in the laboratory, clinic and community into interventions that improve the health of individuals and the public.

ICLIC-MS for Enhancing Outcomes Research and Clinical Care in MS. Role = Col, L Barcellos PI, National Institute of Health, RO1 NR017431, 07/01/2018 – 06/30/2023, \$3,706,429.

Benchmarks of Meaningful Improvement on Neurocognitive Tests. Role = PI, Celgene and Bristol Meyer Squibb, 05/01/2020 – 12/30/2021, \$40,000.

Centers of Excellence for Alzheimer's Disease (CEAD) Western New York. Role = Col, B Troen and K Szigeti PI, New York State Department of Health, 01/01/2016 – 12/31/2022, \$2,350,000.

COMPLETED

BAC App Metrics in Multiple Sclerosis. Role = PI, Veraci Inc, 02/01/2020 – 04/01/2021, \$55,370.

Role of cognitive dysfunction in defining MS relapses and freedom from disease activity. Role = PI, National MS Society, 04/01/2015 – 12/31/2020, \$1,079,943.

The Effects of Working Memory Training on Brain Function, Structure, and Cognition in MS. Role = Col, J Shucard PI, National MS Society, 07/01/2017 – 06/30/2020, \$761,108.

Effect of Ocrelizumab on Gray Matter Pathology, Leptomeningeal Inflammation and Cognitive Dysfunction in Multiple Sclerosis. Role = Col, R Zivadinov PI, Genentech, 10/12/2017 – 12/30/2020, \$337,490.

Teriflunomide (Aubagio®) Effects on Cognitive and Vocational Outcomes, as Related to Neurodegeneration in Multiple Sclerosis: A prospective, observational, single-blinded study. Role = PI, Genzyme, 10/01/2013 – 12/30/2020, \$321,750.

Dimethyl Fumarate (Tecfidera.) Effects on Cognitive and Work Status Outcomes in Multiple Sclerosis: A prospective, observational, single-blinded study. Role = PI, Biogen, 06/01/2014 – 12/30/2020, \$185,850.

Exploring Correlation Between BICAMS and Clinically Meaningful Outcomes in Argentina. Role = Col, F Caceres PI, Biogen, 01/01/2019 – 12/31/2020, \$40,000.

Cognitive Function and Physical Disability in White, Black and Hispanic MS Patients. Role = Consultant, L Barcellos PI, National MS Society. RG 1607-2581. 04/1/2017 - 03/31/2020, \$421,570.

Influence of technician on computer-based cognitive testing in multiple sclerosis. Role = PI, Biogen Idec, 01/15/2015 – 01/30/2019, \$228,690.

Fall risk and incidence reduction in multiple sclerosis. Role = Consultant, J Sosnoff PI, National Multiple Sclerosis Society, 10/01/2014 – 9/30/2018, \$656,314.

The effect of aerobic exercise on cognition in multiple sclerosis. Role = Col, C Bombardier PI, National Multiple Sclerosis Society, 08/01/2013 – 7/31/2019, \$1,214,262.

Effects of adenocorticotrophic hormone (Acthar gel®) on recovery from cognitive relapses in MS. Role = PI, Questcor Pharmaceuticals, Inc, 08/01/2013 – 7/31/2019, \$286,391.

Computerized cognitive training and cognitive-motor interference in MS. Role = Consultant, J Sosnoff PI, Consortium of MS Centers, 01/15/2015 – 01/30/2016, \$40,000.

Does working memory training improve brain function and cognition in MS? Role = Col, J Shucard PI, National Multiple Sclerosis Society, 09/01/2014 – 8/31/2015, \$44,000.

Collaborative medico-legal triage for work disability in multiple sclerosis. Role = PI, Multiple Sclerosis Foundation, 01/01/2015 – 12/30/2016, \$35,000.

Longitudinal Assessment of Disease Progression and Cognitive Status in Multiple Sclerosis: A Comprehensive Web-Based Approach for Clinical Research and Translation to Care. Role = Consultant, L Barcellos PI, National MS Society. RG 5278-A-2. 04/1/15-03/31/17.

- Open-label, observational, prospective, study of cognitive impairment and vocational status in fingolimod (Gilenya®) treated patients: Identifying clinically meaningful change. Role = PI, Novartis, 07/01/2013 – 6/30/2015, \$263,025.*
- Open-label, single-blinded, observational, prospective, 24-months, longitudinal, controlled study to assess the efficacy of fingolimod (Gilenya®) on development of thalamus pathology and cognitive impairment in patients with relapsing forms of multiple sclerosis. Role = Col, Novartis, 07/01/2013 – 6/30/2015, 528,750.*
- Oligodendrocyte progenitor cell delivery for restoration of function in multiple sclerosis. Role = Col, New York State Health Department, 03/01/2013 – 2/28/2016, \$12,125,444.*
- Effects of dalfampridine on cognition in multiple sclerosis. Role = PI, Accorda, 10/01/2011 – 12/31/2015, \$363,000.*
- Longitudinal Analysis of Regional Brain Atrophy and Personality Change in MS, Principle Investigator [0.25 FTE], National MS Society, 07/01/2009 – 12/31/2013, \$562,680.*
- Clinically Meaningful Changes in Cognitive Outcomes in Multiple Sclerosis, Principle Investigator [0.15 FTE], Biogen Idec, 05/01/10 – 12/30/12, \$100,000.*
- Clinical, MR, Neuropsychological and Gene-Environment Risk Factors for Progression in Multiple Sclerosis, Co-Investigator [0.05 FTE], National MS Society, 10/01/2010 – 12/31/2012, \$649,421.*
- Therapeutic Approaches to Dysarthria: Acoustic and Perceptual Correlates. Co-Investigator [0.10 FTE], NIH. 09/01/09-08/31/11, \$128,335.*
- Computer Assisted Cognitive Rehabilitation Intervention for Persons with MS. Consultant, PI Stuifbergen, National Institutes of Health, R21NR011076, 01/01/09 – 12/31/12*
- Effects of Lisdexamfetamine on Bradyphrenia in Multiple Sclerosis, Principle Investigator [0.20 FTE], Shire Inc, 06/01/2009 – 12/31/2011, \$350,000.*
- BDNF in Multiple Sclerosis, Co-Investigator [0.10 FTE], National MS Society, 10/2008 – 12/2011, \$982,000.*
- Multicenter Study to Assess Cognitive and Psychiatric Disorders in a Multiple Sclerosis Population from Latin America. Consultant. Abbott Pharmaceuticals, 9/2008 – 12/2011.*
- Developing Standardized Visual Outcome Measures for Children with Demyelinating Disease. Co-Investigator beginning 6/08. The Children's Guild Foundation, 6/2008 – 6/2010, \$90,000.*
- Gray vs White Matter Atrophy in Multiple Sclerosis. Consultant, National Institutes of Health, 4/2007 – 1/2011, \$1,500,000.*
- Gray vs White Matter Atrophy in Multiple Sclerosis. Consultant, National Multiple Sclerosis Society, 10/2006 – 11/2010, \$555,827.*
- Jacobs Center for Pediatric MS. Coordinator of Neuropsychology Research, National Multiple Sclerosis Society, 01/2006 – 12/2011, \$1,875,000.*

Neurological Indices of CNS Involvement in "Non-CNS" SLE. Co-Investigator, National Institutes of Health #1RONS049111-01, 12/2005 – 11/2009, \$1,000,000.

A Randomized, Double-blind, Placebo-controlled, Dose-titration Study to Assess the Safety, Tolerability, and Efficacy of C105 in Persons with Multiple Sclerosis with Cognitive Impairment. PI, Cognition Pharmaceuticals, 10/2006 – 6/2008, \$1,750,000.

BDNF in Multiple Sclerosis. Co-Investigator, National Multiple Sclerosis Society, 10/2005 – 9/2008, \$747,500.

Processing Speed in MS. Principle Investigator, Biogen Idec, 03/2006 – 03/2007, \$168,000.

Predicting Neuropsychological Defects in MS with Regional MTR Using Semi-Automated Extraction Technique. PI, National Multiple Sclerosis Society, 6/2005 – 5/2007, \$44,000.

Long-Term Effects of CNS Therapy on Survivors of Childhood ALL: A 25-Year Follow-Up. Co-Investigator, Roswell Park Alliance Foundation, 03/2003 – 2/2004, \$30,000.

Ryan White IIb, Outpatient Early Intervention Services with Respect to HIV Disease. Subcontract, research and clinical services, Public Health Services, 2004-2007, \$48,000.

The Effects of Noise and Hearing Loss on the Auditory System. Co-Investigator, VA Merit Review, 10/1/01 - 9/30/05, \$579,500.

Effectiveness and Tolerability of l-amphetamine (C105) for Cognitive Impairment in MS. Co-PI, Sention, 6/2004 – 4/2005, \$250,000.

Translation of the MSNQ into Five European Languages. PI, Schering AG, Inc., 04/2004 – 12/2005, \$36,000.

Cross-Validation of the MS Neuropsychological Screening Questionnaire (MSNQ). PI, Biogen Incorporated, 10/2001 - 10/2003, \$82,200.

Electrophysiological Measures of Processing Speed and Working Memory Deficits in MS. Co-Investigator, National Multiple Sclerosis Society, 2002-2003, \$30,000.

Ryan White IIb, Outpatient Early Intervention Services with Respect to HIV Disease. Subcontract, research and clinical services, Public Health Services, 2001-2003, \$48,000.

Consensus on a Minimal Neuropsychological Battery for Monitoring Disease Progression in Multiple Sclerosis. PI, Consortium of Multiple Sclerosis Centers, 2001-2002, \$125,000.

Cognitive Dysfunction and MRI Abnormalities Among Individuals with Juvenile Onset Insulin-Dependent Diabetes Mellitus. Co-Investigator, Juvenile Diabetes Foundation International, 8/2000 - 7/2002, \$350,000.

Development and Validation of a Short Screening Test for Neuropsychological Deficits in MS, Co-PI, Biogen Incorporated, 3/2000 - 4/2001, \$56,000.

Functional Neuroimaging of Auditory Attention, PI, James H. Cummings Foundation, 1998-2000, \$90,640.

Ryan White IIb, Outpatient Early Intervention Services with Respect to HIV Disease, Subcontract, research and clinical services, Public Health Services, 1998-2000, \$48,000.

Positron Emission Tomographic Studies of the Auditory System, Co-Investigator, James H. Cummings Foundation, 1997-2000, \$107,612.

Assessment and Treatment of Neuropsychological Handicaps in Multiple Sclerosis, PI, National Multiple Sclerosis Society, 1998, \$27,500.

Ryan White IIb, Outpatient Early Intervention Services with Respect to HIV Disease, Award #021650, Subcontract, research and clinical services, PHS, 1995-1997, \$75,000.

Functional Anatomy of Selective and Divided Auditory Attention. PI, SUNY at Buffalo Multi-Disciplinary Research Development Grant, 1995-1996, \$20,000.

Neuropsychological Test Development Grant - Brief Visuospatial Memory Test. PI, Psychological Assessment Resources, 1995-1996, \$19,000.

AWARDS and HONORS

Stockton Kimball Award, Jacobs School of Medicine and Biomedical Sciences, 2021

Consortium of MS Centers, Fred Foley Award, 2019

UB Department of Psychiatry, Kenneth Altshuler Award, Outstanding Contributions to Research, 2015

Mid Career Arthur Benton Award, International Neuropsychological Society, 2016

Chancellor's Award for Excellence in Scholarship, State University of New York, 2015

Recognition for leading the establishment of the New York State Association of Neuropsychology (NYSAN), 2014

Fellow, American Psychological Association, Division 40, 2013

Stephen Kelly Award for MS Research, WNY Chapter of the National MS Society, 2013

Annual Charles Matthews Lecture, University of Wisconsin School of Medicine, 2010

Nominated, Board of Governors, International Neuropsychological Society, 2006

First Prize for Best Poster, LACTRIMS, Vanotti, Benedict, Caceres, et al, 2006

Bacelli Award, SUNY Buffalo, for medical student Mike Sanfillipo, Mentor: R Benedict, 2005

Nominated, President, APA Division 40 (neuropsychology), 2004

Nelson Butters Award, INS, for fellow Mike Santa Maria, Mentor: RHB Benedict, 2002

Dubois Academic Fellowship Award, Arizona State University, 1985-1987

Predoctoral Academic Fellowship Award, Arizona State University, 1984

Graduated with Honors and Distinction, Ohio State University, 1983

PROFESSIONAL and SERVICE ACTIVITIES

University at Buffalo

Neurology Executive Leadership Committee 2013 to Present
Neuroscience Graduate Student mentorship, 2016 to Present
Director of Neuropsychology, Section Chief, UB Neurology, 2016 to Present
Research Supervision for Graduate Students 1995 to Present
Clinical Practicum for Graduate Students, 1992 to Present
Resident Physician rotations in neuropsychology, 1992 to Present
Committee for Tenure, UB School of Medicine and Biomedical Sciences, 2014 to 2017
University at Buffalo, SUNY, Faculty Council, 2012 to 2017, Steering Committee, 2015 to 2017
Faculty Council Appeals Committee, University at Buffalo, SUNY, School of Medicine, 2004 to 2010

Current UB Affiliated Clinical Service

UBMD Neuropsychology Clinic, 0.6 FTE
Erie County Medical Center, Inpatient Psychological Testing, 0.25 FTE

Other Activities

Global Neuropsychological Incorporated, Treasurer and Founder, 501c3, Non-Profit Initiative to Improve Assessment Options for Underserved Populations, 2016 to Present
International Multiple Sclerosis Cognition Society (IMSCOGS), Executive Board, 2012 to Present
National Multiple Sclerosis Society Cognition Work Group, 2017 to 2019
International Multiple Sclerosis Cognition Society (IMSCOGS), President, 2015 to 2019
NINDS Multiple Sclerosis Common Data Element (CDE) Oversight Committee, 2018 to 2019
Multiple Sclerosis Outcome Assessments Consortium (MSOAC), Cognition Lead, 2012 to 2019
NINDS Task Force on Common Data Element (DCE) for MS, Chair, Cognition Work Group, 2010 to 2016
Board of Governors, Consortium of MS Centers, 2012 to 2015
National MS Society Grant Review Board Committee C, 2008 to 2014
Invited Doctoral Committee, Faculty of Medicine, VU University, Amsterdam, 2014
Invited Doctoral Committee, Medical School, University of Illinois, 2014
President, International Society for Cognition in MS (IMSCOGS), 2014
ARSEP Foundation (Fondation pour l'aide à la Recherche sur la Sclérose En Plaques), Grant Review, 2011
International Advisory Committee on Clinical Trials in MS, 2010
Department of Defense (DoD) Peer Reviewed Medical Research Program (PRMRP) Grant Review, 2008
AAN Task Force – Cognitive and Psychiatric Disorders in MS, 2007 to 2010
Advisory Board, Kenneth Alford Medical Education Center, 2006 to 2008
Alternate, Faculty Council of the University at Buffalo, SUNY, School of Medicine, 2005 to 2008
Board of Directors, Assoc. Postdoct Programs in Clin Neuropsychol (APPCN), 2001 to 2006
NMSS Medical Advisory Board – Cognitive Assessment in MS, 2005-2006
Program Committee, International Neuropsychological Society, 2004/2005
Publicity Committee, American Academy of Clinical Neuropsychology, 1999 to 2001
Clinical Advisory Committee, WNY Chapter of the National MS Society, 1998 to 2001
Chapter Services Committee, WNY Chapter of the National MS Society, 1997 to 2001
Neuropsychology Advisory Panel, Pfizer Aricept Trial, 1999-2000
Board of Directors, Network in Aging of Western New York, 1994 to 1996
Clinical Education Committee, University at Buffalo, SUNY, 1994 to 1995
Academic Mission Committee, Department of Neurology, University at Buffalo, SUNY, 1993 to 1995

MEMBERSHIPS

American Board of Professional Psychology
American Board of Clinical Neuropsychology
American Psychological Association, Fellow, General and Division 40
American Academy of Neurology
International Neuropsychological Society
New York State Association of Neuropsychology
New York State Psychological Association

PEER REVIEW – Board Positions

International Journal of MS Care
Journal of the International Neuropsychological Society
Multiple Sclerosis Journal
National Multiple Sclerosis Society
Neuropsychology

PUBLICATIONS [h index 86. 29,017 citations]

Peer-Reviewed Journal Articles:

1. **Benedict RHB**, Harris AE (1989). Remediation of attention deficits in chronic schizophrenic patients: A preliminary study. *British Journal of Clinical Psychology*, 28:187-188.
2. **Benedict RHB** (1989). The effectiveness of cognitive remediation strategies for victims of traumatic head injury: A review of the literature. *Clinical Psychology Review*, 9:605-626.
3. Harris AE, Leek MR, **Benedict RHB** (1990). Consideration of pigeon-holing and filtering as dysfunctional attention strategies in schizophrenia. *British Journal of Clinical Psychology*, 29:23-35.
4. **Benedict RHB**, Horton AM (1990). Construct validity of the Four Word Short Term Memory Test: A preliminary study. *International Journal of Neuroscience*, 51:69-72.
5. **Benedict RHB**, Brandt J (1992). Limitation of the Mini Mental State Examination for the detection of amnesia. *Journal of Geriatric Psychiatry and Neurology*, 5:233-237.
6. Barr A, **Benedict RHB**, Brandt J, Tune L (1992). Discrimination of Alzheimer's disease from multi-infarct dementia on the basis of neuropsychological test scores. *International Journal of Geriatric Psychiatry*, 7:621-627.
7. **Benedict RHB**, Wechsler F (1992). Evaluation of memory retraining in head-injured adults: Two single-case experimental designs. *Journal of Head Trauma Rehabilitation*, 7:84-93.
8. **Benedict RHB**, Schretlen D, Bobholz JH (1992). Concurrent validity of three WAIS-R short forms in psychiatric patients. *Psychological Assessment*, 4:322-328.
9. Brandt J, **Benedict RHB** (1993). Assessment of retrograde amnesia: Findings with a new public events procedure. *Neuropsychology*, 7:217-227.
10. **Benedict RHB**, Brandt J (1993). An attempt at memory retraining in severe amnesia: An experimental single-case design. *Neuropsychological Rehabilitation*, 3:37-51.
11. **Benedict RHB**, Harris AE, Markow T, McCormick J, Nuechterlein K, Asarnow, R. (1994). Effects of attention training on information processing in schizophrenia. *Schizophrenia Bulletin*, 20:537-545.
12. Pullicino PM, Lichter D, **Benedict RHB** (1994). Micrographia with cognitive dysfunction: "Minimal" sequelae of a putaminal infarct. *Movement Disorders*, 9:371-373.
13. Schretlen D, **Benedict RHB**, Bobholz J. (1994). Composite reliability and standard errors of measurement for a seven subtest short form of the WAIS-R. *Psychological Assessment*, 6:188-191.
14. **Benedict RHB** (1994). Cognitive function after open-heart surgery: Are post-operative neuropsychological deficits caused by cardiopulmonary bypass? *Neuropsychology Review* 4:223-255.
15. **Benedict RHB**, Groninger L (1995). Preliminary standardization of a new visuospatial memory test with six alternate forms. *The Clinical Neuropsychologist*, 9:11-16.
16. **Benedict RHB**, Schretlen D, Groninger L, Dobraski M (1996). Revision of the Brief Visuospatial Memory Test: Studies of normal performance, reliability, and validity. *Psychological Assessment*, 8:145-153.

17. Pullicino P, **Benedict RHB**, Capruso DX, Vella N, Withiam-Leitch S (1996). Neuroimaging criteria for vascular dementia. *Archives of Neurology*, 53:723-728.
18. **Benedict RHB**, Goldstein MZ, Derogatis LR (1996). Assessment of mood states in psychiatrically disturbed patients with Alzheimer and vascular dementia. *American Journal of Geriatric Psychiatry*, 4:298-310.
19. Axelrod B, Woodard JL, Schretlen D, **Benedict RHB** (1996). Corrected estimates of WAIS-R short-form reliability and standard error of measurement. *Psychological Assessment*, 8:222-223.
20. Woodard JL, **Benedict RHB**, Roberts VJ, Goldstein FC, Kinner KM, Capruso DX, Clark AN (1996). The reliability and validity of alternate short forms for the Benton Judgment of Line Orientation Test. *Journal of Clinical and Experimental Neuropsychology*, 18:898-904.
21. Shucard DW, **Benedict RHB**, Kilic-Tekok A, Lichter D (1996). Slowed reaction time during a continuous performance test in children with Tourette's syndrome. *Neuropsychology*, 11:147-155.
22. **Benedict RHB**, Goldstein MZ, Dobraski M, Tannenhau J (1997). Neuropsychological predictors of adaptive kitchen behavior in geriatric psychiatry inpatients. *Journal of Geriatric Psychiatry and Neurology*, 10:146-153.
23. **Benedict RHB**, Shapiro A, Duffner P, Jeager J (1998). Acquired Oral Reading Vocabulary Following Onset of Amnesia in Childhood. *Journal of the International Neuropsychological Society*, 4:179-189.
24. Goldstein MZ, Fogel BS, Young BL, **Benedict RHB** (1998). Occurrence and predictors of short term mental status changes in older adults undergoing elective surgery and general anesthesia. *American Journal of Geriatric Psychiatry*, 6:42-52.
25. **Benedict RHB**, Schretlen D, Groninger L, Brandt J (1998). The Hopkins Verbal Learning Test-Revised: Normative data and analysis of inter-form and test-retest reliability. *Clinical Neuropsychologist*, 12:43-55.
26. **Benedict RHB**, Lockwood AH, Shucard JL, Shucard DW, Wack D, Murphy BW (1998). Functional neuroimaging of attention in the auditory modality. *NeuroReport*, 9:121-126.
27. **Benedict RHB**, Zgaljardic DJ (1998). Practice effects during repeated administrations of memory tests with and without alternate forms. *Journal of Clinical and Experimental Neuropsychology*, 20:339-352.
28. Woodard JL, **Benedict RHB**, Salthouse TA, Toth JP, Zgaljardic DJ, Hancock HE (1998). Normative data for odd and even parallel forms of the Judgment of Line Orientation Test. *Journal of Clinical and Experimental Neuropsychology*, 20:457-462.
29. **Benedict RHB**, Dobraski M, Goldstein MZ (1999). A preliminary study of the association between changes in mood and cognition in a mixed geriatric psychiatry sample. *Journal of Gerontology: Psychological Sciences*, 54B:94-100.
30. Shapiro A, **Benedict RHB**, Schretlen DS, Brandt J (1999). Construct and predictive validity of the Hopkins Verbal Learning Test-Revised. *Clinical Neuropsychologist*, 13:348-358.
31. **Benedict RHB**, Mezhir JJ, Walsh K, Hewitt RG (2000). Impact of HIV-1 associated cognitive dysfunction on activities of daily living and quality of life. *Archives of Clinical Neuropsychology*, 15:535-544.

32. **Benedict RHB**, Shapiro A, Priore R, Miller C, Munschauer F, Jacobs L (2000). Neuropsychological counseling improves social behavior in cognitively-impaired multiple sclerosis patients. *Multiple Sclerosis*, 6:391-396.
33. **Benedict RHB**, Priore RL, Miller C, Munschauer F, Jacobs L (2001). Personality disorder in MS correlates with cognitive impairment. *Journal of Neuropsychiatry and Clinical Neurosciences*, 13:70-76.
34. Bakshi R, **Benedict RHB**, Bermel RA, Jacobs L (2001). Regional brain atrophy is associated with physical disability in multiple sclerosis: Semiquantitative magnetic resonance imaging and relationship to clinical findings. *Journal of Neuroimaging*, 11:129-136.
35. Bakshi R, Ariyaratana S, **Benedict RHB**, Jacobs L (2001). Fluid-attenuated inversion-recovery MRI detects cortical and juxtacortical multiple sclerosis lesions. *Archives of Neurology*, 58:742-748.
36. Zgaljardic DJ, **Benedict RHB** (2001). Evaluation of practice effects in language and spatial processing test performance. *Applied Neuropsychology*, 8:218-223.
37. Wong EH, Pullicino PM, **Benedict RHB** (2001). Deep cerebral infarcts extending to the subinsular region. *Stroke*, 32:2272-2277.
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- Benedict RHB, Carone D (2004). Brain atrophy, cognitive dysfunction, and emotional disturbances in multiple sclerosis. In R Zivadinov (ed) *Brain and Spinal Cord Atrophy in Multiple Sclerosis*. Nova Science.
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- Benedict RHB. (2011). Cognitive Impairment in Multiple Sclerosis: Assessment Tools. In MP Amato (ed), *Cognitive Impairment in Multiple Sclerosis*, Elsevier, Milan Italy.
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Schwartz CE, Sprangers MAG, Benedict RHB, Finkelstein J (2014). Health-related quality of life and the effects of response shift. In Behavioral and Social Science in Medicine: Principles and Practice of Biopsychosocial Care. New York, NY: Springer.

Chard DT, Benedict RHBB (2015). Less is more: paradoxes in thalamic function and cognition in people with multiple sclerosis. *Neurology*, 84:1-2.

Roy S, Benedict RHB (2017). Assessment of cognitive impairment in multiple sclerosis. In Cognition and Behavior in Multiple Sclerosis, edited by John Deluca and Brian Sandroff, Oxford University Press, in press.

Weinstock-Guttman B, Eckert S, Benedict RHB (2018). A decline in cognitive function should lead to a change in disease-modifying therapy – Yes. *Multiple Sclerosis Journal*, 24:1681-1682.

Selected Invited Presentations (not including published abstracts) – Local/Regional:

Personality Changes in Patients with Cerebral Dysfunction Secondary to MS. **Invited** Workshop Presentation for the Western New York Northwestern Pennsylvania Chapter of the National Multiple Sclerosis Society, Erie, Pennsylvania, 1996.

Medical Aspects and Terminology for Article 81 Guardianship: Emphasis on Neuropsychology and Mental Competence. **Invited** Lecture for an Erie County Bar Association Seminar on Article 81, Buffalo, NY, 1997, 1998 and 2000.

Support Strategies for Caregivers: Cognitive Dysfunction in MS. **Invited** presentation for the Alzheimer's Disease Association and National MS Society, Buffalo, New York, 1999.

Issues on Incapacity and Decision Making in the Elderly: Medical and Neuropsychological Perspectives. **Invited** speaker for the Network in Aging, Buffalo, NY, 2004.

Neuropsychological Testing After Concussion. **Invited** presentation for the Fifth Annual Symposium on Sports Medicine, Amherst, NY 2004.

Cognitive Disorders and Personality Changes in MS. **Invited** presentation for the Kinkel Neurological Institute, Amherst, NY 2007.

Applications of Neuropsychological and Psychometric Evaluation in Medicolegal Environment. **Invited** Lecture for an Erie County Bar Association, Buffalo, NY, 2009.

Understanding Cognitive Disorders in Parkinson's Disease and Alzheimer's Dementia. **Invited** Lecture for the Parkinson's Association of Western New York, Buffalo, NY 2011.

Understanding Neuropsychological Testing for Disability Determination. **Invited** Lecture for an Erie County Bar Association, Buffalo, NY, 2012.

Selected Invited Presentations (not including published abstracts) – National/International:

Remediation of Episodic Memory: A Single-Case Experimental Design. Paper presented at the second annual conference, Cognitive Rehabilitation: Community Reintegration Through Scientifically Based Practice, Richmond, Virginia, 1988.

The HOPE Memory Retraining Module: A Group Therapy Program Designed for the Evaluation of the Effectiveness of Memory Retraining. Paper presented at the second annual conference, Cognitive Rehabilitation: Community Reintegration Through Scientifically Based Practice, Richmond, Virginia, 1988.

Cognitive Remediation Is Not Effective in Schizophrenia. **Invited** panel presentation at the 148th Annual meeting of the American Psychiatric Association, Miami, Florida, 1995.

Functional Neuroimaging of Focused and Divided Auditory Attention. Brain 97, Annual meeting of the Society for Cerebral Blood Flow and Metabolism, Baltimore, MD, 1997.

Practice Effects and the Use of Brief, Alternate-Form Tests in Neuropsychological Assessment. **Invited** Seminar for continuing education at the 28th Annual Meeting of the International Neuropsychological Society, Denver, Colorado, 2000.

The Effects of Cognitive-Behavioral Therapy on MS-Associated Personality Changes. Platform presentation at the meeting of Consortium of Multiple Sclerosis Centers, Halifax, Nova Scotia, 2000.

New Approaches to Screening for Neuropsychological Impairment in MS. **Invited** presentation for the Biogen Faculty Meeting, Palm Springs, CA, 2001.

Minimal Examination for MS-Related Cognitive Dysfunction: A CMSC Consensus Conference. **Co-Chair** of Expert Panel on Neuropsychology in MS, sponsored by the Consortium of Multiple Sclerosis Centers, New Orleans, LA, 2001.

Clinical Management of Cognitive and Behavior Disorders in MS Patients: A CMSC Consensus Conference. **Co-Chair** of meeting sponsored by the Consortium of Multiple Sclerosis Centers, Scottsdale, AZ, 2001.

New Directions in Neuropsychological Assessment in MS. **Invited** presentation for Cognitive Function and Quality of Life in Multiple Sclerosis, Banff, Alberta, Canada, 2002.

Screening for Cognitive Dysfunction and a Consensus on Minimal Examination. **Invited** presentation, Cognitive and Psychiatric Disorders in Multiple Sclerosis, Taormina, Italy, 2002.

Cognitive and Neurobehavioral Dysfunction in MS: Update and Approaches to Management. **Invited** symposium (co-chair) for Consortium of MS Centers, Chicago, IL, 2002.

Psychosocial Function in MS: Cognitive Impairment. **Invited** symposium for Consortium of MS Centers, San Diego, CA 2003.

Integrating Wellness into MS Management: Neuropsychological Dysfunction. **Invited** speaker for MS Achievement Center at UCLA, Los Angeles, CA 2004.

Predicting Neuropsychological Impairment in MS. **Invited** presentation for the European Charcot Foundation, Taormina, Italy, 2004.

Controversies in Neuropsychology of Multiple Sclerosis. **Invited chairperson**, design and direct symposium for Sero Symposia, New Orleans, 2005.

Cognitive Disorders, MRI and Quality of Life in MS. **Invited** presentation for the Ostsee Symposium on Multiple Sclerosis, Rostock, Germany, 2006.

Cognitive Disorders and Brain Atrophy in MS. Two **invited** presentations for Top Seminars in Sclerosi Multipla, Palermo, Italy, 2007.

- Scales of Measurement for Cognition in MS.* **Invited** lecture for the MS Forum, Budapest, Hungary, 2008.
- Assessment of Personality Change in MS.* **Invited** lecture for the Consortium of MS Centers, Denver, Colorado, 2008.
- Psychometric Considerations and Consensus Standards for Cognitive Testing in MS.* **Invited** lecture, Joint Meeting of the International Society for CNS Clinical Trials and Methodology (ISCTM) and the American Society for Experimental NeuroTherapeutics (ASENT), Washington DC, 2009
- Cognitive Profile in Multiple Sclerosis.* Invited lecture, Magnetic Resonance Techniques in Multiple Sclerosis, 13th Advanced Course, Cognitive Impairment in Multiple Sclerosis, Milan, Italy, 2009.
- Correlating Brain Atrophy with Neuropsychiatric Manifestations of Multiple Sclerosis.* Annual 2010 Charles Matthews Lecture in the Department of Neurology at the University of Wisconsin School of Medicine and Public Health, Madison, Wisconsin, 2010.
- Do cognitive outcomes (alone or as incorporated into MSFC) provide a valid means of determining outcomes for progression (and repair)?* International Conference on Disability Outcomes in Multiple Sclerosis, Washington DC, 2011.
- Cognitive Assessment Tools in MS.* Two **invited** lectures and presentations for Top Seminars in Sclerosi Multipla, Milan, Italy, 2011.
- Psychometric Assessment of the MS Patient.* Two **invited** lectures and presentations for SeroSymposia International, Florence, Italy, 2011.
- Assessment of Cognitive Function in MS.* Two **invited** lectures for the International Society for Cognition in MS meeting, Bordeaux, France, 2012.
- Cognitive Function and Gray Matter Imaging in MS.* **Invited** lecture for the Italian MS Society, Genova, Italy, 2013.
- Assessment of Cognitive Function in MS.* Two **invited** lectures for the International Society for Cognition in MS meeting, Barcelona, Spain 2014.
- The Evolving Role of Neuropsychological Assessment in MS.* **Invited lecture**, Arthur Benton Award, International Neuropsychological Society, Boston, USA, 2016.
- Assessment of Cognition in MS: Update 2016.* **Invited Lecture**, International MS Cognition Society, New York, NY, USA, 2016.
- Advances in Screening, Assessment, and Treatment of Cognitive Dysfunction in MS.* **Invited Lecture**, Consortium of MS Centers, Washington DC, USA, 2016.

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