

## **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)

#### Business Address:

Buffalo General Hospital  
Neurology, Suite (E2)  
100 High Street, Buffalo, NY 14203  
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Erie County Medical Center  
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#### Home Address:

57 Longleat Park, Amherst, New York 14226  
Phone: (716) 838-9306

### **EDUCATION and TRAINING**

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|------|--|
| 1996 | American Board of Professional Psychology (ABPP)<br>Diploma, American Academy of Clinical Neuropsychology              |
| 1992 | Residency/Postdoctoral Fellowship in Clinical Neuropsychology<br>Johns Hopkins School of Medicine, Baltimore, Maryland |
| 1990 | Ph.D. in Clinical Psychology (APA accredited)<br>Arizona State University, Tempe, Arizona                              |
| 1987 | M.A. in Clinical Psychology (APA accredited)<br>Arizona State University, Tempe, Arizona                               |
| 1983 | B.S. in Psychology<br>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.
- 1998 - present      Director, UB Clinical Neuropsychology Training Program. Serving University at Buffalo, psychology 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. Training in clinical neuropsychology.
- 1988
- 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**

*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.*

*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.*

*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 – 12/31/2021, \$2,350,000.*

*Role of cognitive dysfunction in defining MS relapses and freedom from disease activity. Role = PI, National MS Society, 04/01/2015 – 03/31/2017, \$1,079,943.*

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

*Influence of technician on computer-based cognitive testing in multiple sclerosis. Role = PI, Biogen Idec, 01/15/2015 – 01/30/2016, \$228,690.*

*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.*

*Fall risk and incidence reduction in multiple sclerosis. Role = Consultant, J Sosnoff PI, National Multiple Sclerosis Society, 10/01/2014 – 9/30/2017, \$656,314.*

*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.*

*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 – 9/30/2015, \$321,750.

*The effect of aerobic exercise on cognition in multiple sclerosis.* Role = Col, C Bombardier PI, National Multiple Sclerosis Society, 08/01/2013 – 7/31/2018, \$1,214,262.

*Effects of adenocorticotrophic hormone (Acthar gel®) on recovery from cognitive relapses in MS.* Role = PI, Questcor Pharmaceuticals, Inc, 08/01/2013 – 7/31/2018, \$286,391.

*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, Accordia, 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 Stuijbergen, 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**

International Neuropsychological Society, Arthur Benton Mid-Career Award, 2016

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

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

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, 2004 and 2008

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: R 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 ACTIVITIES and COMMUNITY SERVICE**

International Multiple Sclerosis Cognition Society (IMSCOGS), President, 2015 - **present**  
Promotions Committee for Tenure, UB School of Medicine and Biomedical Sciences, 2014 - **present**  
Western NY Chapter of the National MS Society, Health Advisory Committee, 2014 - **present**  
Multiple Sclerosis Outcome Assessments Consortium (MSOAC), Coordinating Committee, 2012 - **present**  
Organizing Committee, International MS Cognition Society, 2011 to **present**  
NINDS Task Force on Common Data Element (DCE) for MS, Chair, Cognition Work Group, 2010 - **present**  
University at Buffalo, SUNY, Faculty Council, 2012 to **present**, Steering Committee 2015 to **present**  
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  
Elected President, International Society for Cognition in MS, 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  
Faculty Council Appeals Committee, University at Buffalo, SUNY, School of Medicine, 2004 to 2010  
MS Comprehensive Care Preceptorships for Rehabilitation , Consortium of MS Centers, 2008  
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, General and Division 40  
American Academy of Neurology  
International Neuropsychological Society  
New York State Association of Neuropsychology



## REVIEW ACTIVITIES

Acta Psychiatrica Scandinavica  
Aging, Neuropsychology, and Cognition  
American Journal of Geriatric Psychiatry  
Annals of Neurology  
Archives of Neurology  
BMC Neurology  
Center for Scientific Review  
Clinical Neuropsychologist  
Cognitive and Behavioral Neurology  
European Charcot Foundation  
International Journal of MS Care **[editorial board 2008 to 2014]**  
Journal of Clinical and Experimental Neuropsychology  
Journal of Neuroimaging  
Journal of Neurology  
Journal of Neurology, Neurosurgery and Psychiatry  
Journal of the International Neuropsychological Society **[editorial board present]**  
Journal of the Neurological Sciences  
Journal of Neuropsychiatry and Clinical Neurosciences  
Journal of Thoracic and Cardiovascular Surgery  
Lancet  
Law and Human Behavior  
Multiple Sclerosis Journal **[editorial board; guest editor 2009, 2016]**  
Multiple Sclerosis Society of Canada  
National Institutes of Health, CSR, Challenge Grants 2009  
National Multiple Sclerosis Society **[grant review committee C, 2008 to 2014]**  
Neurology  
NeuroImage  
Neuropsychologica  
Neuropsychology **[editorial board 2009 to 2013]**  
Neuropsychology Review  
Neurotherapeutics  
Proceedings of the National Academy of Sciences  
Psychological Assessment  
Psychiatry Research  
Schizophrenia Research  
Wellcome Trust, London UK

## **PUBLICATIONS** [h index 66]

### 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.
38. **Benedict RHB**, Bakshi R, Simon JH, Priore R, Miller C, Munschauer F. (2002). Frontal cortex atrophy predicts cognitive impairment in multiple sclerosis. *Journal of Neuropsychiatry and Clinical Neurosciences*, 14:44-51.
39. Bakshi R, **Benedict RHB**, Bermel RA, Puli SR, Tjoa CW, Caruthers SD, Jacobs L. (2002). T2 hypointensity in the deep gray matter of MS patients: A quantitative magnetic resonance imaging study. *Archives of Neurology*, 59:62-68.
40. **Benedict RHB**, Shucard DW, Santa Maria MP, Shucard JL, Abara JP, Coad ML, Wack D, Sawusch J, Lockwood A (2002). Covert auditory attention generates activation in rostral/dorsal anterior cingulate cortex. *Journal of Cognitive Neuroscience*, 14:637-645.
41. **Benedict RHB**, Fischer JS, Archibald CJ, Arnett PA, Beatty WW, Bobholz J, Chelune GJ, Fisk JD, Langdon DW, Caruso L, Foley F, LaRocca NG, Vowels L, Weinstein A, DeLuca J, Rao SM, Munschauer F (2002). Minimal Neuropsychological Assessment of MS Patients: A Consensus Approach. *Clinical Neuropsychologist*, 16:381-397.
42. **Benedict RHB**, Munschauer F, Linn R, Miller C, Murphy E, Foley F, Jacobs L (2003). Screening for MS Cognitive Impairment using a Self-Administered 15-Item Questionnaire. *Multiple Sclerosis*, 9:95-101.
43. Ciubotaru CR, Esfahani F, **Benedict RHB**, Wild LR, Baer AN (2003). Chorea and rapidly progressive subcortical dementia in antiphospholipid syndrome. *Journal of Clinical Rheumatology*, 8:332-339.
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- Vanotti S, Benedict RHB, Caceres F (2015). Validation of the Brief International Cognitive Assessment for Multiple Sclerosis (BICAMS) in Argentina. *Neurology*.

Book Chapters, Letters to the Editor, Editorials, and Non-Refereed Articles:

- Magaro P, Johnson M, Boring (Benedict) RH (1986). Information processing approaches to the treatment of schizophrenia. In R. Ingram (ed.), *Information Processing Approaches to the Treatment of Psychopathology*. New York:Academic Press, pgs. 285-304.
- Benedict RHB (1990). Behavioral reinforcement as an adjunct to memory retraining. Invited paper for *Behavioral Neuropsychology Newsletter*, 13:4-5.
- Benedict RHB, Horton AM (1991). Evaluation of consumer satisfaction with information derived from neuropsychological assessment. *Evaluation Practice*, 12:33-38.
- Benedict RHB (1991). Perspectives on the efficacy of cognitive rehabilitation. Invited paper for *Community Integration: Newsletter of the Rehabilitation Research and Training Center on Community Integration of Persons with Traumatic Brain Injury*, 1:6-7.
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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. (2008). Scales and Methods of Measuring Cognition in MS. In MS Forum Monograph. MS Forum Secretariat and Bayer Schering Pharma, Budapest, Hungary.
- Shevil E, Benedict RHB, LaRocca N, Caruso L. (2010). Rehabilitation for cognitive impairments in MS. In M Finlayson (ed), *Multiple Sclerosis Rehabilitation: From Impairment to Participation*, Taylor & Francis, New York.
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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.

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 28<sup>th</sup> 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, 13<sup>th</sup> 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 Sero Symposia 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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