

BEVERLY CHRISTINE BUTLER, PH.D.

NEUROPSYCHOLOGIST

NSBEP Registration #R0592

CLINICAL ADDRESS

Genest Psychological Services Inc.
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RESEARCH ADDRESS

Dalhousie Department of Psychiatry
8th floor, Abbie J. Lane Building
5909 Veterans Memorial Lane
Halifax, NS B3H 2E2

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EDUCATION

Doctor of Philosophy 2006 Clinical Psychology (Concentration in Neuropsychology)
Dalhousie University, Halifax, NS

Thesis Title: 'Effect of arm movements on attention after right hemisphere stroke'

Dissertation Supervisor: Gail Eskes, Ph.D.

External Examiner: Patricia Reuter-Lorenz, Ph.D., University of Michigan

Bachelor of Science 1999 Neuroscience (First Class Honours)
Dalhousie University, Halifax, NS

Bachelor of Science 1989 General Science
Acadia University, Wolfville, NS

PROFESSIONAL ASSOCIATIONS

2008 – present: Nova Scotia Board of Examiners in Psychology (NSBEP) – Psychologist Register

2008 – present: Canadian Psychological Association (CPA)

2008 – present: Brain Injury Association of Nova Scotia (BIANS)

2003 – present: Association of Psychologists of Nova Scotia (APNS)

2002 – present: International Neuropsychological Society (INS)

2006 – 2008: Nova Scotia Board of Examiners in Psychology (NSBEP) – Candidate Register

CLINICAL EXPERIENCE

Clinical Neuropsychologist

Genest Psychological Services Inc.

Jan. 2007 – Present: Clinical practice engaging in neuropsychological assessment and treatment of adults following stroke, traumatic brain injury, and other neurological or medical conditions.

Psychology Technician (part-time)

Psychology Department, QEII Health Sciences Centre

Oct 2005 – Oct 2006: Administered neuropsychological assessments to inpatient acquired brain injury survivors (traumatic brain injury, stroke, and brain tumor cases).

Clinical Internship rotations

Psychology Department, QEII Health Sciences Centre

Sep 2004 – Aug 2005:

- 1) Neuropsychology: Neuropsychological and psychological assessment and treatment of inpatient and outpatient acquired brain injury survivors.
- 2) Neuropsychology: Pre-surgical neuropsychological assessments and amytal testing of epilepsy patients, post-surgical epilepsy and brain tumor outcome assessments, and neuropsychological assessment of suspected or diagnosed neurodegenerative disorders.
- 3) Health Psychology: Psychological assessment and treatment of inpatients and outpatients with chronic pain, diabetes, or gastrointestinal problems. Co-leader of groups for chronic pain and diabetes coping.

Clinical Psychology Practicum

Dartmouth Mental Health Team, Nova Scotia Hospital

2003: Outpatient Mental Health: Initial mental health assessments, individual therapy, and group therapy (Depression & Cognitive-Behavioral Therapy training).

Clinical Psychology Practica

Psychology Department, QEII Health Sciences Centre

2002:

- 1) Health Psychology: Psychological assessment and treatment of patients with cardiovascular disease and heart transplant candidates.
- 2) Neuropsychology: Neuropsychological and psychological assessment and treatment of individuals with acquired brain injury

Clinical Psychology Practicum

Psychology Department, QEII Health Sciences Centre

2001: Neuropsychology: Neuropsychological assessment of stroke survivors.

RESEARCH APPOINTMENTS

- Mar 2010 – Mar 2014: Research Neuropsychologist
Research Services – Psychiatry Dept., Capital District Health Authority
- Jan 2010 – Sep 2010: Research Associate
Dr. Gail Eskes, Dalhousie University
- Oct 2009 – May 2010: Affiliated Scientist
Department of Psychiatry, Capital District Health Authority
- May 2008 – Dec 2009: Academic Post-doctoral Fellow
Department of Psychiatry, Dalhousie University
- Dec 2007 – Jun 2012: Assistant Professor
Department of Psychiatry, Dalhousie University
- Nov 2006 – Oct 2007: Post-doctoral Fellow
Department of Psychiatry, Dalhousie University
- Sep 2005 – Apr 2008: Research Assistant/Research Coordinator
Department of Psychiatry, QEII Health Sciences Centre
- May 1998 – Aug 1999: Research Assistant
Department of Psychology, QEII Health Sciences Centre

RESEARCH GRANTS AWARDED

- 2009 – 2014: Private donation through the Mental Health Foundation of Nova Scotia for the conduct of mental health research (~\$825,000)
Milliken, H., Tibbo, P., Delva, N., Robertson, G., Good, K., Gardner, D., **Butler, B.C.** (collaborator)
'A 1-year randomized, controlled, open-label study of the impact of flexible doses of niacin (Niaspan) as an adjunct to antipsychotic medication in the treatment of first episode psychosis'
- 2008 – 2011: Dalhousie Psychiatry Research Grant (\$5,937)
Butler, B.C., Eskes, G., Klein, R., Robertson, G.
'Development of the Dalhousie Computerized Attention Battery (DalCAB): Phase I'
- 2007 – 2010: Dalhousie Psychiatry Research Grant (\$10,212)
Eskes, G. **Butler, B.**, Lyons, R.
'Making the Most of Your Memory: Effects of a Cognitive Skills Training Group on Cognitive Functioning and Quality of Life'

RESEARCH GRANTS AWARDED (CONT.)

- 2004 – 2008: 1) Dalhousie Psychiatry Research Grant (\$5,000)
Butler, B., Eskes, G., Phillips, S., Vandompe, R.
'Effects of arm movements on attention after right hemisphere stroke'
- 2) Capital Health Research Fund – Grant-in-Aid (\$1,700)
Butler, B., Eskes, G.
'Effects of arm movements on attention after right hemisphere stroke'

RESEARCH SCHOLARSHIPS & FELLOWSHIPS - AWARDED

- 2002 – 2004: Heart and Stroke Foundation of Canada Doctoral Research Award
Butler, B.C.
'Attention and Motor Interactions in Neglect Subjects and Controls'
- 1999 – 2002: Izaak Walton Killam Memorial Scholarship
Dalhousie University, Department of Psychology
- 1999 – 2001: PGS-A Postgraduate Scholarship
Natural Science and Engineering Research Council of Canada (NSERC)

GRANTS, SCHOLARSHIPS & FELLOWSHIPS – APPLIED FOR

- 2002 – 2004: PGS-B Postgraduate Scholarship (awarded - declined)
Natural Science and Engineering Research Council of Canada (NSERC)

ACADEMIC & RESEARCH AWARDS

- May 2006: Atlantic Rehabilitation Research Association Award
4th Annual Meeting at the Crossroads: Graduate Research in Health
- Mar 2004: Best Platform Presentation: Graduate Student
13th Atlantic Rehabilitation research Association Symposium
- Oct 1999: D.O. Hebb Post Graduate Prize
Dalhousie University, Department of Psychology
- May 1999: University Medal in Neuroscience
Dalhousie University, Department of Psychology/Neuroscience
- 1998 – 1999: Dean's List Scholar
Dalhousie University

RESEARCH ACTIVITIES - DETAILS

Principle Investigator:

Development of the Dalhousie Computerized Attention Battery (DalCAB)

Co-investigators: Raymond Klein, Ph.D., Gail Eskes, Ph.D., George Robertson, Ph.D.

Funded by Dalhousie Psychiatry Research Grant. Full ethical approval granted.

Co-Investigator:

Making the Most of your Memory: A Pilot Study of a Community Based Memory Program for Stroke Survivors

Principle Investigator: Gail Eskes, Ph.D.

Co-investigators/Collaborators: Patricia Ebert, Ph.D., Renee Lyons, Ph.D.

Funded by Dalhousie Psychiatry Research Grant. Full ethical approval granted.

Collaborator:

A 1-year randomized, controlled, open-label study of the impact of flexible doses of niacin (Niaspan) as an adjunct to antipsychotic medication in the treatment of first episode psychosis

Principle Investigator: Dr. Heather Milliken

Co-investigators/Collaborators: Dr. Phil Tibbo, Dr. Nick Delva, George Robertson, Ph.D., Kim Good, Ph.D., Dr. David Gardner

Funded by private donation through the Mental Health Foundation of Nova Scotia. Full approval granted by Health Canada and the Capital Health Research Ethics Board.

Collaborator: Academic Post-doctoral Fellowship

SMARTease Trial – Turning SMART goals into smart actions: Evaluating ‘Stroke Help’ distance interventions to improve cognitive performance post-stroke

Principle Investigator: Gail Eskes, Ph.D.

Co-investigators/Collaborators: Patrick McGrath, Ph.D., Renee Lyons, Ph.D.

Funded by Canadian Stroke Network/CIHR Institute of Aging Vascular: Cognitive Impairment Development Grant. Full ethical approval granted (stage 1).

Principle Investigator: PhD. Thesis

Effect of arm movements on attention after right hemisphere stroke

Supervisor: Gail Eskes, Ph.D.

This thesis was successfully defended and initial publication submitted

PUBLICATIONS

REFEREED JOURNALS AND BOOK CHAPTERS:

- Butler, B.C. & Klein, R. (2009)** Inattention blindness for ignored words: Comparison of explicit and implicit memory. *Consciousness and Cognition*, 18(3): 811-819.
- Butler, B.C., Lawrence, M., Eskes, G.A. & Klein, R. (2009)** Visual search patterns in neglect: Comparison of peripersonal and extrapersonal space. *Neuropsychologia*, 47(3): 869-878.
- Eskes, G.A and **Butler, B. (2006)** Using limb movements to improve spatial neglect: The role of functional electrical stimulation. *Restorative Neurology and Neuroscience*, 24(4-6): 385-398.
- Butler, B.C. & Eskes, G.A. (2004)** Gradients of detection in neglect: Comparison of peripersonal and extrapersonal space. *Neuropsychologia*, 42(3): 346-358.
- Eskes, G.A., **Butler, B.**, McDonald, A., Harrison, E.R., and Phillips, S.J. (2003) Limb activation effects in hemi-spatial neglect. *Archives of Physical Medicine and Rehabilitation*, 84 (3): 323-328

NON-REFEREED PUBLICATIONS:

- Gail A. Eskes and **Beverly C. Butler (2001)** Rehabilitation of Neglect. *Geriatrics and Aging*, 4(9): 42-45.

ABSTRACTS, POSTERS AND PAPERS PRESENTED:

- Butler, B.C., Eskes, G.A. and Klein, R.M. (2010)** Measuring the Components of Attention with the Dalhousie Computerized Attention Battery. **Presentation** at the Department of Psychiatry 20th Annual Research Day, Halifax, Nova Scotia, October 2010.
- Butler, B.C., Eskes, G.A., Lyons, R., and Ebert, P. (2010)** ‘Making the Most of Your Memory’: A Pilot Study of a Cognitive Rehabilitation Group for Stroke Survivors. **Poster** at the 6th Atlantic Canada Stroke Conference, Halifax, Nova Scotia, September 2010.
- Butler, B. and Eskes, G. (2010)** Effects of Limb Movements on Exogenous Orienting of Attention after Right Hemisphere Stroke. **Presentation** at the post-BBCS Attention Meeting on Temporal and Spatial Orienting, Halifax, Nova Scotia, June 2010.
- Butler, B.C., Eskes, G.A. and Klein, R.M. (2010)** Measuring the Components of Attention. **Poster** at the 25th Annual Meeting of the Canadian Society for Brain Behaviour and Cognitive Science (CSBBCS), Halifax, Nova Scotia, June 2010.
- Butler, B.C., Eskes, G.A., Lyons, R., and Ebert, P. (2010)** ‘Making the Most of Your Memory’: A Pilot Study of a Cognitive Skills Training Group for Community-Dwelling Stroke Survivors. **Presentation** at the Psychology and Neuroscience 36th Annual In-House Convention, Dalhousie University, Halifax, Nova Scotia, April 2010.
- Butler, B.C., Eskes, G., Lyons, R., Ebert, P. (2009)** Making the most of your memory: A cognitive skills training group for stroke survivors. **Presentation** at Rehabilitation Research Day, Halifax, Nova Scotia, September 2009.

ABSTRACTS, POSTERS AND PAPERS PRESENTED (CONT):

- Butler, B.C. (2008)** Cognitive rehabilitation after stroke: Opportunities near and far. **Presentation** at the Shears' Lectureship Day: Research in Progress Session, Halifax, Nova Scotia, October 2008.
- Butler, B.** and Eskes, G. (2007) The effect of left limb movements on the orienting of attention after right hemisphere stroke. **Poster** at the Festival of International Conferences on Caregiving, Disability, Aging, and Technology (FICCDAT), Toronto, Ontario, June 2007
- Butler, B.** and Eskes, G. (2007) The effect of left limb movements on the orienting of attention after right hemisphere stroke. **Poster** at the 35th Annual Meeting of the International Neuropsychological Society, Portland, Oregon, February 2007. *Journal of the International Neuropsychological Society*, 2007, 13(S1): 56.
- Butler, B.C.** and Eskes, G.A. (2006) Effect of left limb movements on leftward orienting of attention after right hemisphere stroke. **Poster** at the Department of Psychiatry 16th Annual Research Day, Halifax, Nova Scotia, October 2006.
- Butler, B.C.** and Eskes, G.A. (2006) Effect of left limb movements on leftward orienting of attention after right hemisphere stroke. **Poster** at the 4th Annual Atlantic Canada Stroke Conference, Halifax, Nova Scotia, September 2006 (Atlantic Rehabilitation Research Association Award).
- Butler, B.C.** and Eskes, G.A. (2006) Effect of left limb movements on leftward orienting of attention after right hemisphere stroke. **Presentation** at the 4th Annual Meeting at the Crossroads: Graduate Research in Health Conference, Halifax, Nova Scotia, May 2006.
- Butler, B.C. (2006)** Orienting attention in visuospatial neglect: How limb movements affect the disengage deficit. **Presentation** at the Psychology and Neuroscience 32nd Annual In-House Convention, Dalhousie University, Halifax, Nova Scotia, April 2006.
- Butler, B.C.** and Eskes, G.A. (2005) Effect of left limb movements on leftward orienting of attention after right hemisphere stroke. **Poster** at the Rotman Research Institute 15th Annual Conference, Toronto, Ontario, March 2005. *Brain & Cognition*, 2006, 62(1), 85.
- Butler, B.** and Schmidt, M. (2004) Checking the checklist: Reliability of brain lesion analysis using a novel checklist. **Poster** at the Psychology and Neuroscience 30th Annual In-House Convention, Dalhousie University, Halifax, Nova Scotia, April 2004.
- Butler, B.C.** and Klein, R. (2004) Inattention blindness for ignored words: Comparison of explicit and implicit memory tasks. **Presentation** at the Psychology and Neuroscience 30th Annual In-House Convention, Dalhousie University, Halifax, Nova Scotia, April 2004.
- Butler, B.C.,** and Eskes, G.A. (2004) Gradients of attention in neglect: Comparison of peripersonal and extrapersonal space. **Presentation** at the 13th Atlantic Rehabilitation Research Symposium, Halifax, Nova Scotia, March 2004 (Best Platform Presentation: Graduate Student).
- Butler, B.** and Eskes, G. (2003) Gradients of attention in visuo-spatial neglect after right hemisphere stroke. **Poster** at the Dalhousie University Department of Psychiatry Research Day, Halifax, Nova Scotia, March 2003.

ABSTRACTS, POSTERS AND PAPERS PRESENTED (CONT):

- Butler, B.**, Harrison, E., MacDonald, A., Eskes, G. (2002) Gradient of detection in neglect: Comparing peripersonal and extrapersonal space. **Presentation** at the 30th Annual Meeting of the International Neuropsychological Society, Toronto, Ontario, February 2002. *Journal of the International Neuropsychological Society*, 2002, 8(2): 317.
- Butler, B.**, Eskes, G., Harrison, E., MacDonald, A. (2001) The gradient of detection in hemispatial neglect: Comparison of peripersonal and extrapersonal space. **Poster** at the Canadian Society for Brain, Behaviour and Cognitive Science, Laval, Quebec, June 2001.
- ***Dunlop, B.**, Eskes, G., Harrison, E., MacDonald, A. (1999) Passive left limb movement improves visual scanning in hemispatial neglect. **Poster** at the 60th Annual Convention of the Canadian Psychological Association in Halifax, Nova Scotia, May 1999. *Canadian Psychology*, 1999, 40(2a): 65.

* Name change from Dunlop to Butler after this abstract was published.

REVIEWS AND REFEREEING

ARTICLES REVIEWED FOR PUBLICATION:

- | | |
|------|--|
| 2010 | Neurology (co-reviewer) |
| 2008 | Neurology (co-reviewer) |
| 2008 | The Clinical Neuropsychologist (co-reviewer) |
| 2007 | Journal of Clinical and Experimental Neuropsychology (co-reviewer) |

TEACHING EXPERIENCE

TEACHING APPOINTMENTS:

- | | |
|----------------------|--|
| Sep 2001 – Apr 2002: | Teaching Assistant (Research Methods)
Department of Psychology, Dalhousie University |
| Sep 2000 – Apr 2001: | Teaching Assistant (Advanced Research Methods)
Department of Psychology, Dalhousie University |
| Sep 1999 – Aug 2000: | Teaching Assistant (Cognitive Psychology)
Department of Psychology, Dalhousie University |

STUDENT RESEARCH SUPERVISED:

- | | |
|----------------------|---|
| Sep 2010 – Apr 2011: | Co-Supervisor – Independent Research (PSYO/NESC 3000)
Jacqueline Vincent: <i>'The niacin skin flush test'</i> |
| Sep 2000 – Apr 2001: | Supervisor - Advanced Research Methods (PSYC 2500) Projects
Erin Lecky: <i>'The effects of personality characteristics and anticipated interaction on likeability'</i>
Nermine Gorguy: <i>'The Effects of Gender on the Cross-Race Recognition Deficit'</i>
Lindsay Leighton: <i>'The Effects of Color and Quality Distortion on Facial Recognition'</i>
Heather Power: <i>'Time Delay and Accuracy of Vehicle Recognition'</i> |

WORKSHOP PRESENTATIONS:

Beyond the Physical - Cognitive and Perceptual Disorders after Stroke - Nursing workshop

Assistant Facilitator, Produced by the Heart and Stroke Foundation of PEI
Summerside, PEI, May 12, 2006

Accepting Diabetes. Presented at Diabetes: Take Charge – Adult Workshop

Dartmouth, NS, September 2, 2005

Stress Management for Chronic Illness. Presented to the Halifax Chapter of the Diabetes Support Group.

Halifax, NS, January 18, 2005

GUEST LECTURES & RESEARCH PRESENTATIONS:

- Apr 14, 2010: Acquired Brain Injury: Causes and Effects
Halifax Chapter, BIANs Chapter Meeting
- Nov 3, 2009: Stroke and Your Brain
Truro Stroke Club
- Oct 28, 2009: Making the Most of Your Memory: A Cognitive Skills Training Group for Stroke Survivors
Rehabilitation Research Day
- May 9, 2009: Coping Tips for Caregivers of Brain Injury Survivors
Brain Injury Association of Nova Scotia Annual General Meeting
- Nov 24, 2008: Health Psychology and Stroke
Dalhousie Health Psychology (PSYO 3225).
- Oct 28, 2008: Cognitive Rehabilitation after Stroke: Opportunities Near & Far
Rehabilitation Research Day
- Oct 8, 2008: Niacin in Mental Health: Past, Present and Future
QEII Clinical Conference

CONTINUING EDUCATION & OTHER SKILLS

CERTIFICATES:

Workplace Hazardous Materials Information System (WHMIS) Training. *Capital Health Certification (annual renewal)*; September 2009

Tri-Council Policy Statement: Ethical Conduct for Research Involving Humans (TCPS). *Interagency Advisory Panel on Research Ethics Introductory Tutorial Certificate*; October 6, 2006

CONTINUING EDUCATION HOURS:

- 2010 Communicating with Adult Children of Elderly Patients (2.0 CE hours)
Seniors Mental Health Tele-education Session; November 3, 2010
- 2010 Advances in Stroke Care (10 CE hours)
6th Atlantic Canada Stroke Conference; September 17 & 18, 2010
- 2010 The Frontal Lobes (30 CE hours - OPA)
20th Annual Rotman Research Institute Conference; March 22-26, 2010
- 2009 Cognitive Aging: Research and Practice (17.5 CE hours – OPA).
19th Annual Rotman Research Institute Conference; March 9 & 10, 2009
- 2007 Neuropsychology of Blast and War-related Traumatic Brain Injuries (3 CE hours).
International Neuropsychological Society (INS) Meeting; February 7, 2007
- 2007 Scientific Evidence in the Courtroom: Legal Requirements and Ethical Dilemmas for the
Expert Neuropsychologist (3 CE hours).
International Neuropsychological Society (INS) Meeting; February 7, 2007

SEMINARS & WORKSHOPS ATTENDED:

Integrated Health Research Training Partnership (IH RTP): Research Skills Program

Patents in the Life Sciences; November 17, 2009

Media Relations 101; May 5, 2009

Regulatory Requirements for Research: Drugs Devices & Natural Health Products;
February 18, 2009

Management of Research: An Introduction; February 16, 2009

Research Management: Assessing, Planning, Budgeting for Success; January 26, 2009

Privacy and Confidentiality in Research; November 24, 2008

Applying for Salary Support Grants; September 22, 2008

Workshop on Building Research Capacity to Examine Nursing Home Resident and Family Quality of
Life. *Centre for Interdisciplinary Research on Human Development, Mount Saint Vincent
University*; June 18, 2009

Supervision Workshop. *Nova Scotia Board of Examiners in Psychology (NSBEP)*; March 28, 2009

Institute for Applied Health Research and Design. *Nova Scotia Health Research Foundation
(NSHRF)*; October 7&8, 2008

Research on Aging in Nova Scotia: The Northwood Research Agenda. *Northwood and the Nova
Scotia Health Research Foundation (NSHRF)*; May 8, 2008

Ethics Update: Common Audit Findings (1.0 CE hour – Society of Clinical Research Associates).
Capital Health Centre for Clinical Research; April 15, 2008

Clinical Trials Applications Seminar. *CanReg Inc., Capital Health, and Pharmahorizons.com*;
September 28, 2006

PROFESSIONAL AND ACADEMIC CONTRIBUTIONS

- 2010 – Present: Board of Directors – President
Halifax Chapter, Brain Injury Association of Nova Scotia (BIANS)
- 2008 – 2010: Board of Directors - Treasurer
Halifax Chapter, Brain Injury Association of Nova Scotia (BIANS)
- 2002 – 2004: Membership Committee - Secretary
Association of Psychologists of Nova Scotia (APNS)
- 2001 – 2002: Clinical Working Group - Member
Dalhousie University, Department of Psychology
- 1999 – 2001: Clinical Community Recognition Award Committee - Member
Dalhousie University, Department of Psychology