

LENORA N. BROWN, PH.D., R. Psych, ABPP-CN
Board Certified in Clinical Neuropsychology

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EDUCATIONAL BACKGROUND

University Education

B.A.	Psychology (with distinction) University of Victoria, British Columbia	1990
M.Sc.	Educational Psychology University of Calgary	1994
PH.D.	Psychology & Educational Psychology University of Calgary	1998

Postgraduate Education

Fellow	Department of Clinical Neurosciences Faculty of Medicine University of Calgary	2001- 2003
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LICENSURE

Psychologist	Alberta #3363	2008
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DIPLOMATE

Clinical Neuropsychology, American Board of Professional Psychology 2015

ACADEMIC APPOINTMENTS

- Adjunct Assistant Professor, Department of Clinical Neurosciences,
- Cumming School of Medicine, University of Calgary 2003 to present
- Assistant Professor, Department of Psychology, University of Calgary, 2003 to 2006

CURRICULUM VITAE (REVISED 2021)

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- Sessional Instructor, Department of Psychology, University of Calgary, 1998 to 2003
- Sessional Instructor, Department of Psychology, University of Calgary, 2006 to 2008
- Sessional Instructor, Business Management, University of Lethbridge, 1999 to 2008
- Sessional Instructor, Department of Behavioural Sciences, Mount Royal College, 1999 to 2008
- Sessional Instructor, Department of Psychology, Red Deer College, 1999 to 2003

PROFESSIONAL EXPERIENCE

Previous

- Clinical Neuropsychologist, Brain Injury Rehabilitation Centre, Calgary Alberta, 2008-2011.
- Clinical Neuropsychologist, Regional Capacity Assessment Team, Calgary Health Region, 2008
- Provisional Psychologist, Foothills Medical Centre, Calgary, 2006-2008
- Researcher, medicolegal cases, Langlois Legal Centre, 2002-2004
- Director, Michael's Childcare Centre, Calgary, Alberta, 1990-1992
- Counselor, Providence Children's Centre, Calgary, Alberta, 1992-1993
- Counselor, Autism Society of British Columbia. 1989-1990

Reviewer/Consultant

- Reviewer for Reports American Board of Clinical Neuropsychology, June 2015 - 2019
- endMS Summer Studentship Awards Reviewer, 2010, 2011
- Journal of International Neuropsychological Society, 2010 - 2015
- Multiple Sclerosis Society of Canada "Ask the Expert", 2008-2010
- Consultant, Alberta Civil Trial Lawyers Association, Expert Bank, 2009-present
- Psychology and Aging, 2007- 2010
- Canadian Psychology, 2007
- Personality and Individual Differences, 2006- 2017
- Perceptual and Motor Skills, 2005-2015
- Medical Science Monitor; International Reviewer's Panel, 2004
- Psychonomics Bulletin and Review, 2001

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RESEARCH GRANTS

- Neuropsychological Consultant, Using Light Based Technology to Measure Microvasculature Hemoglobin and Total Hemoglobin in Patients and Control Subjects, National MS Society July 2019.
- Principal Investigator, Measures of Corpus Callosum Function in MS: Development of an Outcome Measure, Multiple Sclerosis Society of Canada, 2010
- Principal Investigator, A Preliminary Investigation of Cognitive Rehabilitation Effects in Multiple Sclerosis, Brain Injury Rehabilitation Centre, 2009
- Principal Investigator, Psychophysical measurements as an outcome measure following brain damage University Research Grants Committee, 2004.
- Principal Investigator, A preliminary investigation of an outcome measure, Multiple Sclerosis Society of Canada, 2004.
- Principal Investigator, Temporal processing mechanisms and cognitive abilities in adults, Natural Sciences and Engineering Research Council, 2003.

PATENTS

- Sole Inventor: Method and Apparatus for Assessing and Monitoring Neurological Function. Patent No: US 6702756 B2 (March 9, 2004), <http://www.patentstorm.us/patents/6702756.html>
- Published Canadian patent: CA 2364795 AA

AWARDS

- Research Meritorious Award, International Neuropsychological Society, 2008
- Teacher's Excellence Teaching Award nomination, University of Calgary, 2008
- Teacher's Excellence Teaching Award nomination, University of Calgary, 2004 - 2005
- Multiple Sclerosis Society of Canada Fellowship-2001-2003
- University Research Grants Committee, University of Calgary-1998
- Senior Women Academic Administrators of Canada: Graduate Student-1998
- Award of Merit nomination, University of Calgary-1998.
- Graduate Research Scholarship (Winter), University of Calgary-1997
- Anita K.F. Li Graduate Scholarship (Fall), University of Calgary-1996

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- Faculty of Graduate Studies Scholarship (Fall), University of Calgary-1996
- Joe Woodsworth Memorial Scholarship (Fall), University of Calgary-1996
- Graduate Research Scholarship (Spring/Summer), University of Calgary-1996
- Dissertation Graduate Research Grant, University of Calgary-1996
- Graduate Admission Scholarship, University of Calgary-1996.
- Graduate Research Travel Grant, University of Calgary-1996
- American Psychology Association Travel Award, University of Calgary-1995
- Academic Projects Fund Award, University of Calgary-1995
- Graduate Admission Scholarship, University of Calgary-1994
- Graduate Research Scholarship, University of Calgary-1994
- Master's Graduate Research Grant, University of Calgary-1993

MEMBERSHIPS

- American Board of Professional Psychology (Clinical Neuropsychology) 2015 to present (full member)
- Associate Member of Hotchkiss Brain Institute 2004 – present
- American Psychological Association – 1994 to 2016
- Medical Science Monitor – 2004
- Canadian Psychological Association – 2006 to present
- New York Academy of Sciences - 2007–2009
- Consortium of Multiple Sclerosis Centers – 2007 to present
- National Academy of Neuropsychology (#8759) - 2010 to 2014
- North American Brain Injury Society - 2010 to 2015
- American Academy of Clinical Neuropsychology - 2010 to present
- International Neuropsychology Society – 2011 to 2014

Research Group Memberships

- Canadian Institutes of Health Research (Aging) – 2005 to 2014
- Hotchkiss Brain Institute – 2004 to present
- Alberta Centre on Aging, University of Alberta – 2004 to 2016
- Neuroscience Research Group – 2001 – 2004

PUBLICATIONS

- Zhang, Y., Komishke B., Oladosu O., Metz LM., & Brown, LN. (submitted January 2019). Segmental preference of microstructural injury in MRI in the corpus callosum of relapsing remitting and secondary progressive multiple sclerosis.

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- Brown, L.N., Woelstad, A., Zhang, Y., & Metz, L.M. (2015). Neuropsychological measures associated with corpus callosum integrity may be sensitive to minimal cognitive impairment in multiple sclerosis. *The Clinical Neuropsychologist*, V9 Supp, 354-55.
- Brown, L.N., Zhang, Y., Mitchell, J.R., Zabad, R., & Metz, L.M. (2010). Corpus Callosum Volume and Interhemispheric Transfer in Multiple Sclerosis. *Canadian Journal of Neurological Sciences*. 37(5), 615-619.
- Pachet, A., Astner, K., & Brown, L.N. (2010). Clinical utility of the Mini-Mental Status Examination when assessing decision-making capacity. *Journal of Geriatric Psychiatry and Neurology*, 23(1), 3-8
- Brown, L.N., & Metz, L.M. (2009). Comparison of quantitative functional measures in multiple sclerosis: a four-year longitudinal study. *Multiple Sclerosis*, 15, S55.
- Brown, L.N., & Metz, L.M. (2008). The test-retest reliability of outcome measures and their relationship to the Expanded Disability Status Scale in multiple sclerosis. *Archives of Clinical Neuropsychology*, 23,744.
- Brown, L.N., Madden, N., Kiss, Z., & Suchowersky, O. (2008). Sensory temporal processing in Parkinson's disease. *Journal of the International Neuropsychological Society*, 14, Suppl 1, 71.
- Brown, L.N., Zhang, Y., Zabad, R.K., Mitchell, J. Ross, & Metz, L.M. (2008). Corpus callosum volume and interhemispheric transfer of somatosensory information in multiple sclerosis. *Journal of the International Neuropsychological Society*, 14, Suppl 1, 123 (Meritorious Award).
- Brown, L.N., Eliasziw, M., & Metz, L.M., (2007). Test-rest reliability in visual temporal thresholds in multiple sclerosis: Determining reliable change. *Canadian Journal of Neurological Sciences*, 34(4), 433-437.
- Rostad, K., Mayer, A., Fung, T. & Brown, L.N., (2007). Sex-related differences in the correlations for tactile temporal thresholds, interhemispheric transfer times, and nonverbal intelligence. *Personality and Individual Differences*, 43, 1733-1743.
- Brown, L.N., (2007). APA: Dictionary of Psychology, Gary R. Vanden Bos (Ed.). The American Psychological Association (2006). *Canadian Psychology*, 48(3), 204-205.
- Brown, L.N., Metz, L.M., & Eliasziw, M. (2006). Identifying reliable change in tactile temporal thresholds in multiple sclerosis: Test-retest reliability, *Multiple Sclerosis*,12,573-577
- Brown, L.N., & Metz, L.M. (2005). Tactile temporal thresholds measure relapse-related change in multiple sclerosis: A preliminary study, *Multiple Sclerosis*, 11(6), 725-727.
- Heming, J. E., & Brown, L.N. (2005). Sensory Temporal Processing in Adults with Early Hearing Loss. *Brain and Cognition*, 59, 173-182.
- Brown, L.N. & Vickers, J.N. (2004). Temporal judgments, hemispheric equivalence, and interhemispheric transfer in adolescents with attention

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- deficit hyperactivity disorder. *Experimental Brain Research*, 154 (1), 76-84.
- Goddard, K.M., Isaac, M.I., Slawinski, E.B., & Brown, L.N., (2004). Isolating the auditory attentional blink. *Journal of Visual Impairment and Blindness*, 98(4), 241-246.
 - Brown, L.N., Metz, L.M., & Sainsbury, R.S. (2003). Sensory temporal thresholds and interhemispheric transfer times in multiple sclerosis: A preliminary study of a new outcome measure. *Journal of Clinical and Experimental Neuropsychology*. 25(6), 783-792.
 - Brown, L.N., & Sainsbury, R.S. (2002). Age and sex-related differences in temporal judgments for spatially separated visual stimuli: Support for hemispheric equivalence, *Perception and Psychophysics*, 64(5), 693-702.
 - Vickers, J.N., Rodrigues, S.T., & Brown, L.N. (2002). Gaze pursuit and arm control of adolescent males diagnosed with attention hyperactivity disorder (ADHD) as compared to normal controls: Evidence of *dissociation between short and long-duration visual information*. *Journal of Sports Sciences*, 20(3), 201-216.
 - Brown, L.N. & Metz, L.M. (2002). Sensory processing and interhemispheric transfer in multiple sclerosis. *Archives of Clinical Neuropsychology*, 17(8), 746.
 - Brown, L.N., & Sainsbury, R.S. (2000). Hemispheric equivalence and age-related differences in temporal judgements to somatosensory stimuli. *Journal of Clinical and Experimental Neuropsychology*, 22(5), 587-598.
 - Brown, L.N., Goddard, K.M., Lahar, C.J., & Mosley, J.L. (1999). Age-related deficits in cognitive functioning are not mediated by time of day. *Experimental Aging Research*, 25(1), 81-93.
 - Brown, L.N., & Goddard, K.M., & McArthur, A.D. (1998). Age-related differences and hemispheric asymmetry in the temporal resolution of visual stimuli. *Canadian Psychology*, 39(2), 8.
 - Brown, L.N., Lahar, C.J., & Mosley, J.L. (1998). Age and gender-related differences in strategy use for route information: A "map-present" direction giving paradigm. *Environment and Behavior*, 30(2), 123-143.

PRESENTATIONS

Conferences

- Adingupu D., Evans T., Soroush A., Brown L., Metz L.M., & Dunn J., Non-invasive detection of persistent cortical hypoxia in multiple sclerosis using frequency domain near-infrared spectroscopy (fdNIRS), International Society on Oxygen Transport to Tissue online Conference, July 26-30, 2021.
- Soroush A., Adingupu D., Evans T., Jarvis S., Brown L., Metz L.M., & Dunn J., NIRS studies show reduced interhemispheric functional

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connectivity in multiple sclerosis patients that exhibit cortical hypoxia, International Society on Oxygen Transport to Tissue online Conference, July 26-30, 2021.

- Hansen A, Adingupu D., Evans T., Shafqat Q., Jarvis S., Brown, L., Metz L., Dunn J. (September 11, 2020). Could light scattering measured with frequency domain near-infrared spectroscopy provide new information on cerebral edema in MS? Poster - ACTRIMS/ECTRIMS MS Virtual Conference.
- Shafqat Q., Adingupu D., Evans T., Jarvis S., Brown, L., Metz L., Dunn J. (September 11, 2020). Investigating the temporal relationship between inflammation and fdNIRS - measured hypoxia in an MS population. Oral presentation - ACTRIMS/ECTRIMS MS Virtual Conference.
- Brown, L.N., Woelstad, A., Zhang, Y., & Metz, L.M. (June 2015). Neuropsychological measures associated with corpus callosum integrity may be sensitive to minimal cognitive impairment in multiple sclerosis. The American Academy of Clinical Neuropsychology.
- Komishke, B., Metz, L., & Brown, L.N., Zhang, Y. (May 10-16, 2014). Preferably large fiber damage in the corpus callosum of progressive MS compared with relapsing MS and controls. The International Society for Magnetic Resonance Imaging in Medicine, Milan, Italy.
- Zhang, Y., Metz, L., & Brown, LN (April 20-26, 2013). MRI texture spectral similarity detects white matter microstructure as compared with diffusion tensor imaging. The 21th International Society for Magnetic Resonance in Medicine. Salt Lake City, USA.
- Brown, L.N., & Metz, L.M. (September 9-12, 2009). Comparison of Quantitative Functional Measures in Multiple Sclerosis: A Four-Year Longitudinal Study. European Committee for Treatment and Research in Multiple Sclerosis, Düsseldorf, German.
- Brown, L.N., & Metz, L.M. (October 21-26, 2008). The test-retest reliability of outcome measures and their relationship to the Expanded Disability Status Scale in multiple sclerosis. National Academy of Neuropsychology, New York.
- Brown, L.N., Madden, N., Kiss, Z., & Suchowersky, O. (February 6-9, 2008). Sensory temporal processing in Parkinson's disease. Poster presented at the 36th Annual meeting, International Neuropsychological Society, Waikoloa, Hawaii.
- Brown, L.N., Zhang, Y., Zabad, R.K., Mitchell, J. Ross, & Metz, L.M. (February 6-9, 2008). Corpus callosum volume and interhemispheric transfer of somatosensory information in multiple sclerosis. Poster presented at the 36th Annual meeting, International Neuropsychological Society, Waikoloa, Hawaii. Meritorious Award.

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- Natalia Liapounova, Brad Goodyear, Lenora Brown, Luanne Metz, & Jeff Dunn. (December 11-12, 2008). Optical imaging of cortical functional connections in multiple sclerosis patients, Poster presented at the endMS Research Conference, Banff, AB.
- Zhang, Y. Brown, L.N., Metz, L.M., Mitchell, J.R. (June 2, 2007). Corpus callosum volume correlates with tactile temporal thresholds in multiple sclerosis. Poster presented at the 12th Annual meeting, America's Committee for Treatment and Research in Multiple Sclerosis, Washington D.C. and the endMS Research Conference, Banff, AB.
- Mayer, A., Brown, L.N. (April 29, 2005). Relationships between temporal processing and cognitive functioning in adulthood. Paper presented at the 9th Annual Student Research Conference, Calgary, Alberta.
- Rostad, K. Brown, L.N. (April 30, 2004). Psychophysical measurements and cognitive functioning. Paper presented at the 8th Annual Student Research Conference, Calgary, Alberta.
- Brown, L.N., & Metz, L.M. (February 21-23, 2003). Changes in Tactile Temporal Thresholds and Interhemispheric Transfer Times as a Function of Exacerbation in Multiple Sclerosis: A Longitudinal Case Study. Poster presented at the Clinical Neuroscience 10th Annual Banff Conference.
- Brown, L.N., & Metz, L.M. (Oct 9-12, 2002). Sensory processing and interhemispheric transfer in multiple sclerosis. Poster presented at the National Academy of Neuropsychology, Miami, Florida.
- Brown, L.N., Metz, L.M., & Sainsbury, R.S. (November, 2002). Sensory Processing and Interhemispheric Transfer Times in Multiple Sclerosis. Poster presented at the Neuroscience Research Group.
- Heming, J., Truax, H., Brown, L.N., & Slawinski, E., (May 11, 2002) Sensory processing in deaf individuals: Temporal thresholds and attentional blink. Poster presented at the Banff Annual Seminar in Cognitive Science.
- Brown, L.N., Metz, L.M., & Sainsbury, R.S. (May 11, 2002). Sensory Processing and Interhemispheric Transfer Times in Multiple Sclerosis. Poster presented at the Banff Annual Seminar in Cognitive Science.
- Brown, L.N., & Sainsbury, R.S. (August, 1998) Age differences and hemispheric equivalence in processing temporal somatosensory stimuli. Presented at the 106th Annual meeting of the American Psychological Association, San Francisco, CA.
- Brown, L.N., & Goddard, K.M, & McArthur, A.D. (June, 1998) Age-related differences and hemispheric asymmetry in the temporal resolution of visual stimuli. Presented at the Canadian Psychological Association, Edmonton, AB.
- Brown, L.N., (April, 1998) Age and gender-related differences in somatosensory and visual simultaneity thresholds. Presented at the Cognitive Aging Conference, Atlanta, GA.

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- Brown, L.N., (April, 1996) Examination of age differences in cognitive performance as a function of time of testing. Poster presented at the Cognitive Aging Conference, Atlanta, GA.
- Brown, L.N., (August, 1995) Age and gender-related differences in wayfinding strategies. Poster presented at the 103rd Annual meeting of the American Psychological Association, New York, NY.

Invited Addresses

- Clinical Information Obtained from Neuropsychological Assessments, Yukon Worker's Compensation Health & Safety Board (YWCHSB), Whitehorse, Yukon, June 5, 2019.
- Clinical Assessment of Mental Disorders, YWCHSB, Investigations & Security, Whitehorse, Yukon, June 4, 2019.
- The Benefits of Neuropsychological Assessments. Newcastle University, Newcastle Australia, March 6, 2019.
- The Benefits of Neuropsychological Assessments. VRA Canada. October 3, 2015 (Calgary, AB).
- The Benefits of a Neuropsychological in Traumatic Brain injury. Worker's Compensation Board. February 5, 2015 (Calgary, AB).
- The Benefits of a Neuropsychological. LifeMark. October 28, 2014 (Calgary, AB); October 30, 2014 (Edmonton, AB).
- Post-Traumatic Stress Disorder and Mood Disorders Following Traumatic Brain Injury. Canadian Bar Association. March 6, 2012.
- 2011 endMS Summer School is "Neuroprotection and repair: From bench research to clinical application" Measuring Changes in Multiple Sclerosis, May 26, 2011
- Neuropsychological Assessment in Traumatic Brain Injury. Canadian Bar Association. March 2011.
- Neuropsychological Assessment in Traumatic Brain Injury. Workers Compensation Board. June 16, 2011.
- Evaluating Capacity in Adults. Association Community Treatment. July 2008.
- Targeting the Corpus Callosum in MS: Development of a Model to Monitor Changes. MS Clinical Rounds; Think Tank, Foothills Medical Centre. May 2010.
- Process of Evaluating Capacity in Adults. Association Community Treatment. July 2008.
- Regional Capacity Assessments and Referral Process. MS Clinical Rounds, Foothills Medical Centre, June 2008.
- Sensory Temporal Thresholds: Psychophysical Measurements of Neural Efficiency Behavioral Neuroscience Research Group, February 2006, University of Calgary.

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- Using Sensory Temporal Thresholds to Measure Neural Efficiency.
- Movement Disorders and Therapeutic Brain Stimulation Program: Neural Prosthetics Workshop. February 2006, Calgary, Alberta.
- Measurements of Psychophysics to Measure Multiple Sclerosis Progression. Multiple Sclerosis Interest Group, May 2003, Faculty of Medicine, University of Calgary.
- Sensory Processing and Interhemispheric Transfer in Patients with Multiple Sclerosis. Neuroscience Research Group Seminar, February 2003, Banff Alberta.
- Psychophysiologic Measures as Measures of Multiple Sclerosis Progression. Behavioral Neuroscience Seminar, February 2003, Department of Psychology, University of Calgary.
- Sensory Temporal Thresholds and Interhemispheric Transfer in Multiple Sclerosis Patients. Multiple Sclerosis Interest Group, September 2001, Faculty of Medicine, University of Calgary.
- Multiple Sclerosis: Causes, Diagnosis, and Treatment. Health Psychology, Winter 2002 and 2003, Department of Psychology, University of Calgary.

VOLUNTEER COMMITTEES

- American Academy of Clinical Neuropsychology, Report Sample Reviewer for the board certification process, 2015 – 2019.
- College of Alberta Psychologists, Calgary, AB 2008 –2014, Examiner, Oral Examinations Committee.
- National Academy of Neuropsychology, Education Committee, 2011 – 2014.

SUPERVISORY/EXAMINER COMMITTEES

- V.K.: (2019-2020) Ph.D. Candidate, Neuropsychology practicum.
- A.W.: (2012) Ph.D. Candidate, Neuropsychology practicum.
- K.D.: M.Sc. (2004-2006) Supervisory Committee, Department of Neurology, Faculty of Medicine, Calgary, AB.
- S.K: M.Sc. (2003-2004) Supervisory Committee, Department of Psychology, Faculty of Social Sciences, Calgary, AB.
- K.M: M.Sc. (2005): Internal/External Examiner, Department of Neurosciences, Faculty of Medicine, Calgary, AB.
- S.C.: M.Sc. (2005) Internal/External Examiner, Department of Psychology & Neuroscience, Faculty of Kinesiology, Lethbridge, AB.
- R.G.: M.Sc. (2005) Internal Examiner, Department of Psychology, Faculty of Social Sciences, Calgary, AB.

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- P.M.: Ph.D. (2005) Candidacy Examiner, Department of Psychology, Faculty of Social Sciences, Calgary, AB.

CONTINUING PROFESSIONAL DEVELOPMENT

- 2021
 - Luria Neuroscience Institute (RCS r. Cassidy Seminars) Covid-19 and Brain Dysfunction: Evolving Understanding, April 29, 2021, 3.0 Continuing Education (CE) Credits.
 - Luria Neuroscience Institute (RCS r. Cassidy Seminars) NeuroCovid-19: Cognitive, Psychiatric, and Psychological Manifestations, May 13, 2021, 3.0 CE Credits.
 - Luria Neuroscience Institute (RCS r. Cassidy Seminars) Executive Dysfunctions in Brain Disorders, October 14, 2021, 3.0 CE Credits.
- 2020
 - The National Register of Health Service Psychologists, Risk Management for Telepsychology, April 14, 2020, 1.5 CE Credits
 - Mild TBI Diagnosis and Management Strategies, Chronic Symptoms after Mild TBI: Early Research Findings from LIMBIC-CENC & Clinical Approach to Optimize Patient Brain Health, April 16, 2020, 1 CE Credit.
 - The American Psychological Association, Psychological Tele-Assessment During Covid-19: Ethical and Practical Considerations, May 6, 2020, 1.5 CE Credit.
 - Department of Clinical Neurosciences Rounds, Cumming School of Medicine, 3 Continuing Medical Credit (CME).
- 2019
 - Department of Clinical Neurosciences Rounds, Cumming School of Medicine, 1 Continuing Medical Credit (CME).
- 2017
 - American Board of Professional Psychology (ABPP), 2015 Annual Conference and Workshops, (May) 9 CE Credits, San Diego, CA.
 - American Academy of Clinical Neuropsychology (AACN), 15th Annual AACN Conference, (June), 15 CE Credits, Boston, MA.
 - Trending in Psychiatry, Conference, (December), Calgary, AB.
 - Canadian Red Cross, HCP level, Oct 16, 2017 (expires Oct 16, 2020).
 - Department of Clinical Neurosciences Rounds, Cumming School of Medicine, 1 Continuing Medical Credit (CME).

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• 2016

- Prevention and Longevity Conference: Evidence Based Medicine for you and Your Patients, (January 22), 6 CME Credits.
- The International Brain Injury Association, Eleventh World Congress on Brain Injury, 25.25 CME credits, The Hague, Netherlands.
- Grand Rounds: Cumming Scholl of Medicine, Accredited Group Learning Activities – defined Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, 1 CME Credits.
- MS Clinical Rounds: Foothills Medical Centre: Accredited Group Learning Activities – defined Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, January 2014-June 2014, 2 CME Credits.

• 2015

- American Academy of Clinical Neuropsychology (AACN), 13th Annual AACN Conference, (June), 15 Continuing Education (CE) Credits, San Francisco, CA.
- American Board of Professional Psychology (ABPP), 2015 Annual Conference and Workshops, (May) 6 CE Credits, San Diego, CA.
- American Board of Professional Psychology (ABPP), Clinical Neuropsychology Oral Examination, March 28, 2015, 20 CE Credits, Chicago, IL.

• 2014

- The International Brain Injury Association, Tenth World Congress on Brain Injury, 26.75 CME credits, San Francisco, CA.
- American Board of Professional Psychology (ABPP), Clinical Neuropsychology Written Examination, June 14, 2014, 4 CE Credits.
- Grand Rounds: Foothills Medical Centre, Accredited Group Learning Activities – defined Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, 8 CME Credits.
- MS Clinical Rounds: Foothills Medical Centre: Accredited Group Learning Activities – defined Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, January 2014-June 2014, 2 CME Credits.

• 2013

- National Association of State Head Injury Administrators & North American Brain Injury Society, University of Texas Medical Branch, Conference, 17.50 CME credits, New Orleans, LA.

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- MS Clinical Rounds: Foothills Medical Centre: Accredited Group Learning Activities – defined Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, July 2013-December 2013, 2 CME Credits.
- Grand Rounds: Foothills Medical Centre, Accredited Group Learning Activities – defined Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, 1 CME credit.
- Neuropsychology Journal Club, monthly, Foothills Medical Centre.

- 2012
 - National Academy of Neuropsychology: 32nd Annual Conference & Courses, (Nov 07-10), Nashville, TN, 13 CE Credits.
 - American Academy of Clinical Neuropsychology: 10th Annual Conference & Workshops, (June 20-23), Seattle, WA, 12 CE Credits.
 - Alberta endMS Regional Research and Training Centre: Scientific Retreat, (Jan 21-22), Red Deer, AB.
 - National Academy of Neuropsychology, Neuropsychology and Epilepsy and Epilepsy Surgery (Jan-Apr course), 16 CE Credits.
 - Neuropsychology Journal Club, monthly, Foothills Medical Centre.

- 2011
 - National Academy of Neuropsychology, Clinical Neuroanatomy course, 30 CE Credits.
 - Alberta Civil Trial Lawyers Association, Psychiatric & Psychological Injuries, Chronic Pain & Causation, Conference, Calgary, AB.
 - Grand Rounds: Foothills Medical Centre, Accredited Group Learning Activities – defined Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, 1 CME Credit.

- 2010
 - National Academy of Neuropsychology, 30th Annual Conference & Courses, (Oct 13-16), Vancouver, BC, 15 CE Credits.
 - National Association of State Head Injury Administrators & North American Brain Injury Society, University of Texas Medical Branch, Conference, 11.50 CME Credits, Minneapolis, MN.
 - MS Clinical Rounds: Foothills Medical Centre: Accredited Group Learning Activities – defined Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, 11 CME Credits.
 - American Academy of Clinical Neuropsychology. "Mild Traumatic Brain Injury and Postconcussion Syndrome: The New Evidence Base for Diagnosis and Treatment." Course, 3 CE Credits.
 - Canadian Psychological Association. "Starting and Operating an Independent Professional Practice in Psychology." Course, 3 CE Credits.

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- Grand Rounds: Foothills Medical Centre, Accredited Group Learning Activities – defined Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada. 7 CME Credits.
- endMS Conference: Research and Training Network, Whistler, BC.
- 2009
 - Alberta endMS Regional Research and Training Centre: Scientific Retreat.
 - European Committee for Treatment and Research in Multiple Sclerosis. 25th Congress, Conference, 21 CME Credits, Dusseldorf
 - MTBI: An International Conference on Mild Traumatic Brain Injury. American Psychological Association, 17 CE Credits, Vancouver, BC.
- 2008
 - National Academy of Neuropsychology, Conference, 6 CE Credits, New York, NY.
 - Wechsler Adult Intelligence Scale (WAIS) IV Training. Applied Psychology University of Calgary.
- 2007
 - Canadian endMS Research Conference, Canmore, AB.
 - Consortium of Multiple Sclerosis Centers Annual Conference, Washington, DC.
 - New York Academy of Sciences, Linking Affect to Action: Critical Contributions of the Orbitofrontal Cortex, New York, NY.
- 2006 - 2009
 - Multiple Sclerosis (MS) Rounds, Department of Clinical Neurosciences, Faculty of Medicine, University of Calgary.
 - Neuropsychology Journal Club, weekly, Foothills Medical Centre.
- 2001 - 2009
 - Grand Rounds weekly program, Department of Clinical Neurosciences, Faculty of Medicine, University of Calgary.