

**Ala Lysyk Smith DC, DACNB, LAc, BSc**

104 W. Lincoln Ave.  
Fergus Falls, MN 56537  
Tel: (218) 736-4113  
Fax: (218) 998-4337

**Employment History**

Smith Family Chiropractic, Inc. 1995 to present

- Owner
- Chiropractic Physician
- Chiropractic Physician specializing in Functional Neurology, Licensed Acupuncturist

**Education**

- Undergraduate: Queen's University, Kingston, Ontario Canada. Received: Bachelor of Science degree in Biology. 1991
- Graduate: Northwestern College of Chiropractic. Received: Doctor of Chiropractic Degree. 1994
- Post Graduate: Carrick Institute for Graduate Studies. Received: Diplomate of the American Chiropractic Neurology Board. 2005. Licensed Acupuncturist 2007.

**Post Doctoral Studies**

- *Autism*. Carrick Institute for Graduate Studies, October 2006.
- *Functional Neurological Assessment*. Carrick Institute for Graduate Studies, July 2008.
- *Spinal Cord*. Carrick Institute for Graduate Studies, October 2008.
- *Vestibular Rehabilitation Part 1*. Carrick Institute for Graduate Studies, November 2008.
- *Vestibular Rehabilitation Part 2*. Carrick Institute for Graduate Studies, February 2009.
- *Vestibular Rehabilitation Part 3*. Carrick Institute for Graduate Studies, March 2009.
- *Brain Dissection*. Carrick Institute for Graduate Studies, Jun 2010.
- *Brain Dissection*. Carrick Institute for Graduate Studies. December 2010.
- *Movement Disorders Part 1*. Carrick Institute for Graduate Studies, January 2011.
- *Movement Disorders Part 2*. Carrick Institute for Graduate Studies, October 2011.
- *Movement Disorders Part 3*. Carrick Institute for Graduate Studies, February 2012.
- *Neurology Review*. Carrick Institute for Graduate Studies, October 2012.
- *Introduction to the Diagnosis and Treatment of Mild Traumatic Brain Injury/Concussion*. Carrick Institute for Graduate
  - Classification
  - Epidemiology
  - Grading systems
  - Signs and symptoms
  - Clinical examination procedures
  - Cognitive and emotional consequences of MTBI
  - The mechanism of brain injury due to trauma
  - The pathophysiology of MTBI
  - Diagnostic procedures
  - Prevention of concussion and societal consequences
  - Treatment parameters and introduction to brain and vestibular rehabilitation
  - Post-concussion syndrome
  - Second-impact syndrome
- *Traumatic Brain Injury 241 Eye Movements and Brain Function*. Carrick Institute for Graduate Studies, April 2013.
  - Eye movements and visual systems

- Classification of Eye movements
  - Neural integration of vestibular ocular function
  - Brain injury and human movement
  - Volitional and reflexogenic system pathology involved in concussion
  - Spatial localization and rehabilitation strategies
  - Clinical methodology and application
- *The Role of the Vestibular-Optokinetic System.* Carrick Institute for Graduate Studies, June 2013.
    - Head rotations, translations and brain injury
    - Clinical applications of vestibular physiological responses
    - Vestibulo-ocular reflexes
    - Diagnostic applications of the vestibular-optokinetic system
    - Injury and recovery of central and peripheral vestibulopathy
    - The role of the cerebellum in concussion and vestibular integration
    - Clinical examination strategies
    - Laboratory evaluation
    - Pathophysiology of central vestibular concussion syndromes
- *Traumatic Brain Injury, Understanding Brain Function & The Saccadic System.* Carrick Institute for Graduate Studies, July 2013.
    - Neurophysiological measurements and diagnostic importance of fast eye movements
    - Brainstem integrational pathology associated with MTBI and concussion
    - The basal ganglia involvement in fast eye movement pathology
    - Cerebral cortical influences to the saccadic system
    - The midbrain and collicular phenomenology for clinicians
    - The thalamus and saccadic function
    - Clinical examination strategies for saccades
    - Pathophysiology of saccadic abnormalities
- *Traumatic Brain Injury, Concussion and Neural Integration of the Vestibular Ocular System.* Carrick Institute for Graduate Studies, September 2013.
    - Gaze stability and rehabilitation strategies
    - Smooth pursuit responses to stimuli
    - Quantitative examination techniques central to visual pursuits and fixation
    - The role of the brain in visual pursuit and fixation
    - Laboratory examination of visual pursuit and fixation
    - Pathophysiology of visual pursuit and fixation
    - Clinical applications central to disorders of visual pursuit and fixation
- *November 15-17, 13: Module (246) Brain injury and conjugate eye movements*
    - Neuroanatomical considerations for clinicians
    - Brainstem integration involved in conjugate eye movements
    - The vertical, horizontal and torsional eye movement systems
    - The role of the cerebellum in expression of pathology of eye conjugate movements
    - Volitional and reflexogenic control of eye movements and brain injury
    - Ascending, descending and integrative neurophysiological integrity of movement systems
    - Clinical applications and rehabilitation strategies
- *January 10-12, 14: Module (247) MTBI/Concussion and the consequences of Head, neck and eye function*
    - Cephalomotor systems
    - The role of the cervical spine in MTBI

- Stabilization of the head and models for application
  - Reflexogenic and volitional eye-head movement strategies
  - Clinical examination of cephalomotor systems
  - Treatment strategies of disorders of head and gaze stabilizers
  - Rehabilitation applications of head, neck and visual system integrators
- *February 21-23, 14: Module (248) Diagnosis and management of central vestibular concussions*
    - Vertigo and Dizziness
    - Acute and chronic vestibulopathy
    - Recurrent vertigo
    - BPPV
    - Treatment of vertigo, dizziness and disorders of balance
    - Oscillopsia
    - Skew deviation and clinical scenarios
    - Ocular tilt reactions and patient subjectivity
- *Diagnosis and Management of Central Vestibular Concussions.* Carrick Institute for Graduate Studies, March 2014.
    - Cortical lesions and human movement
    - Cerebellar lesions and human movement
    - Brainstem lesions and human movement
    - Paraneoplastic degeneration of neural tissue
    - Syndromes of the Pons after MTBI
    - Syndromes of the Cerebellum after MTBI
    - Syndromes of the Midbrain after MTBI
    - Syndromes of the Diencephalon after MTBI
    - Syndromes of the Basal Ganglia after MTBI
    - Syndromes of the Cerebral Cortex after MTBI
    - Treatment strategies of central disorders of human motility
- *Traumatic Brain Injury Part 2.* Carrick Institute for Graduate Studies, May 2014.

### ***Professional Associations***

Minnesota Chiropractic Association

American Chiropractic Association

Chamber of Commerce