



PRESS RELEASE

William L. Brooks
Communications Coordinator

E: William.Brooks2@LIFE.edu 1269 Barclay Circle
P: (678) 331-4342 Marietta, GA 30060
F: (770) 218-2850 www.LIFE.edu

THE RUBICON GROUP ANNOUNCES \$20,000 (NZD) FUNDING COMMITMENT TO NEW ZEALAND COLLEGE OF CHIROPRACTIC'S CENTRE FOR CHIROPRACTIC RESEARCH

Press Release via The Rubicon Group

San Leandro, California, April 29, 2016 – The Rubicon Group (TRG) is pleased to announce a funding commitment of \$20,000 (NZD) to the Centre for Chiropractic Research at the New Zealand College of Chiropractic, Auckland, New Zealand in support of a randomized clinical trial entitled “The Effects of Chiropractic Care on Functional Outcomes, Somatosensory Processing and Motor Control in Patients Who Have Suffered from a Stroke.”

The clinical trial will involve scientists from Aalborg University Hospital, Denmark, Riphah International University, Pakistan, and the New Zealand College of Chiropractic.

Participants in this study must have had a stroke at least 6 weeks prior to their involvement in the study and have ongoing neurological deficits due to the stroke. A crossover design will be used, and participants will act as their own controls. The study will compare the effects of a single session of chiropractic care addressing vertebral subluxations to a passive movement control intervention on outcome measures that assess sensorimotor function. The outcome measures for the trial will assess whether a single session of chiropractic care improves performance in the Timed Up and Go Test (TUG) and whether it increases muscle power, strength and cortical drive and reduces fatigue in stroke survivors who have muscle weakness. The TUG and measures of strength and fatigue are clinically relevant outcome measures in the assessment of stroke rehabilitation. The H reflex, m waves, strength, fatigue and v waves are clinical and neurophysiological measures that have previously been shown to change following chiropractic care, and they are also important indicators of changes in central nervous system function that are important for motor recovery following a stroke.

This trial will also assess motor unit recruitment pattern changes after chiropractic care. This will be achieved with multi-array EMG electrodes (Subject to the ability of the participant to move their own muscles). Other outcome measures will assess how the brain and target muscles communicate (EEG- EMG coherence) and will also assess which brain regions are involved with any changes that are observed in somatosensory processing following the chiropractic care session. Identifying the relevant brain regions involved will be assessed using somatosensory evoked potentials (SEPs) and a cap that has 62 EEG recording electrodes. In several past studies utilizing SEPs, it has been shown that adjusting vertebral subluxations can



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alter the way the brain processes and responds to sensory information from the upper limb. It was recently demonstrated, in an award winning international collaboration, that the brain changes that occur after a single session of chiropractic care take place in the prefrontal cortex.

The proposed stroke study will be the first of its kind, and groundbreaking, particularly if it's possible to show that chiropractic care improves brain function and neuromuscular control in people who have suffered from a stroke.

The Rubicon Group is pleased to join the United Chiropractic Association (UK), the Australian Spinal Research Foundation and the chiropractic profession in New Zealand in supporting this study.

About The Rubicon Group

The Rubicon Group (TRG) is a collaboration of chiropractic educational institutions, emerging educational efforts and interested parties. The seven institutional members include Barcelona College of Chiropractic (Barcelona, Spain), the Chiropraktik Akademie (Dresden, Germany), Life Chiropractic College West (San Francisco, California, USA), Life University (Atlanta, Georgia, USA), McTimoney College of Chiropractic (Abingdon, Oxfordshire, UK), New Zealand College of Chiropractic (Auckland, New Zealand) and Sherman College of Chiropractic, Spartanburg, South Carolina, USA). Information about The Rubicon Group can be found at <http://www.TheRubiconGroup.org>. For additional information, please direct questions to: <mailto:info@TheRubiconGroup.org>.

About the Centre for Chiropractic Research

The Centre for Chiropractic Research at the New Zealand College of Chiropractic aims to explore the effects of chiropractic care on brain function, human performance, health, wellness and quality of life. More specifically, the objective of their research programme is to examine the impact of chiropractic care on brain function, and how this translates into improved proprioception, sensorimotor integration and better overall bodily control and function. Within this programme, they are not only exploring how chiropractic care may help restore dysfunctional central nervous system processes, but also whether chiropractic care prevents problems from developing in the first place. More information about the Centre for Chiropractic Research can be found at <http://chiropracticresearch.ac.nz/>.

About Life University

Founded in Marietta, Georgia in 1974, Life University is a health sciences institution most known for its chiropractic program, the largest single campus chiropractic



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program in the world. Life University is regionally accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award baccalaureate, master's and Doctor of Chiropractic degrees, and also has programmatic accreditation through the Council on Chiropractic Education (CCE), the Accreditation Council for Education in Nutrition and Dietetics (ACEND) and the Commission on Accreditation of Athletic Training Education (CAATE). The mission of Life University is to empower students with the education, skills and values necessary for career success and life fulfillment, based on a vitalistic philosophy.