LANCE R. STONE, D.O.

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# PROFESSIONAL ACTIVITIES

2018 - *Present*

2011 - 2018

2010 - 2011

2010 - 2012

1994 - 2010

2006 - 2010

1997 - 2010

1989 - 1991

1988 - 1992

## Medical Director

## Acute Rehabilitation Unit

## Santa Rosa Memorial Hospital

## Santa Rosa, California

## Chair

Department of Rehabilitation Medicine Alameda Health Systems

San Leandro, California

## Associate

The Neurology Center of Southern California Physician Group Rehabilitation Center at Scripps Memorial Hospital / Encinitas

## Voluntary Faculty Instructor

Department of Neurology

University of California, San Diego, San Diego, California

## Medical Director

San Diego Rehabilitation Institute Alvarado Hospital, San Diego, California

## Medical Director

Rehabilitation Services

Scripps-Mercy Medical Center, San Diego, California

## Medical Director

Rehabilitation Services

UCSD Medical Center / Hillcrest, San Diego, California

## Assistant Medical Director

Rancho Los Amigos National Rehabilitation Center University of Southern California, Downey, California

**Service Chief, Adult Brain Injury Program** Rancho Los Amigos National Rehabilitation Center University of Southern California, Downey, California

# ACADEMIC APPOINTMENTS

1992 - 1993

1987 - 1992

1987 - 1992

1997 - 2011

**Chairman, Department of Neurosciences** Rancho Los Amigos National Rehabilitation Center University of Southern California, Downey, California

## Residency and Fellowship Program Director

Physical Medicine and Rehabilitation

Rancho Los Amigos National Rehabilitation Center/USC Affiliation - Wadsworth Veteran’s Administration Medical Center, Department of Physical Medicine and Rehabilitation

Los Angeles, California

**Clinical Assistant Professor** Department of Neurology University of Southern California Los Angeles, California

**Clinical Assistant Professor** Department of Orthopedics University of California San Diego San Diego, California

# EDUCATION

Fellowship

Residency

Internship

Medical School

Undergraduate

High School

## Neurologic Rehabilitation

Rancho Los Amigos National Rehabilitation Center University of Southern California, Downey, California 1988 – 1989

## Physical Medicine and Rehabilitation

University of Colorado Health Sciences Center and Craig Hospital Denver, Colorado

1984 – 1987, Chief Resident 1985 – 1986

**William Beaumont Hospital**

Farmington Hills, Michigan 1981 – 1982

## Midwestern University

Chicago, Illinois

1977 – 1981, Doctor of Osteopathy

## Michigan State University

East Lansing, Michigan

1976 – 1977, Baccalaureate of Science

**Tulane University** New Orleans, Louisiana 1975 – 1976

**New England College** Henniker, New Hampshire 1974 – 1975

**Cranbrook High School** Bloomfield Hills, Michigan

# LICENSURE & BOARD CERTIFICATION

**Licensure**, California 1987

**Board Certification**, American Osteopathic Board of Rehabilitation Medicine 1992

# CURRENT RESEARCH

## Feasibility Study of the Ekso Bionics Powered Eksoskeleton for Rehabilitation of Ambulatory Impairment Due to Stroke

Principal Investigator: Lance R. Stone, D.O. May 2013 – May 2014

## Neurorestorative Therapies for Stroke: Neuromodulation

Intensive Course in Transcranial Magnetic Stimulation Harvard Medical School March 7-11, 2011. Instructor: Alvaro Pascual-Leone, MD, PhD.

Beth Israel Deaconess Medical Center, Department of Neurology

Introduction to Transcranial Direct Current Stimulation (TDCS). Beth Israel Deaconess Medical Center, Department of Neurology June 30, 2012

## The Influence of Brain-Derived Neurotrophic Factor (BDNF) polymorphism on Central Post Stroke Pain (CPSP)

Principal Investigator: Lance R. Stone, DO. Department of Neurology, University of California, San Diego Co-investigator: Steven C. Cramer MD. Department of Neurology, University of California, Irvine

Scripps Research Institute Pilot Grant 2011 Finalist

## Burden of Obstructive Sleep Apnea in Stroke (BOSAST)

NIH 1 R01 HL091848-01A1. Joel Dimsdale, M.D., Principal Investigator 1 April 2009 - 31 March 2013

Major goals: This study will determine if treating apnea in stroke patients will improve burdens of fatigue, depressive symptoms, and cognitive problems.

## Effect of Ambient Light on Patient Stress Levels: A Study for Evidence Based Lighting Design

University of California, San Diego - Department of Cognitive Science David Kirsh PhD. Professor of Cognitive Science, Principal Investigator, Lance Stone, D.O. Co-Investigator

# APPOINTMENTS

## Ekso Bionics

Medical Advisory Board

# PUBLISHED ARTICLES

## Ramachandran VS, Altschuler EL, Stone LR: Can mirrors alleviate visual hemi neglect?

The Journal of Medical Hypothesis, 1999, Volume 52, No. 4, 303-305

## Stone LR, Friedlund P: Trauma top ten: Acute rehabilitation of the tetraplegic patient.

Journal of Trauma Nursing, October/December 1998, Volume 5, Issue 4, 105-107

**Altscheler EL, Wisdom SB, Stone LR, Ramachandran VS: Rehabilitation of Hemiparesis after stroke with a mirror.** The Lancet, 1999, Volume 353, No. 9169, 2035-2036.

## Kim SJ, Shin DY, Stone L: Cranial nerve injuries in the adult with traumatic brain injury.

Journal of Korean Academy of Rehabilitation Medicine, 1993, Volume 17, No. 2, 194-201.

**Stone LR, Keenan MAE: Deep Venous thrombosis of the upper extremity following traumatic brain injury.** Archives of Physical Medicine & Rehabilitation Medicine, 1992, Volume 73, No. 5, 486-489

**Drutt S, Kramer WG, Howard NW, Keenan MAE, Stone LR, Waters RL, Gellman H: Carpal tunnel syndrome secondary to wrist and finger flexor spasticity.** The Journal of Hand Surgery, 1990, Volume 15, No. 6, 940-944

## Keenan MAE, Haider TT, Stone LR: Dynamic electromyography to assess elbow spasticity.

The Journal of Hand Surgery, 1990, Volume 15, No. 6, 940-944.

**Young S, Keenan MAE, Stone L: The treatment of spastic plano valgus foot deformity in the neurologically impaired adult**. Foot and Ankle, 1990, Volume 10, No. 6.

## Keenan MAE, Tomas SE, Stone L, Gersten LM: Percutaneous phenol block of the musculocutaneous nerve to control elbow flexor spasticity.

The Journal of Hand Surgery, 1990, Volume 15A, No. 2, 340-346

## Stone LR, Keenan MAE, Shin DY: Acquired limb loss following traumatic brain injury.

American Journal of Physical Medicine and Rehabilitation, 1990, Volume 69, No. 3, 135-139.

## Aboulafia AJ, Keenan MAE, Stone LR: An uncommon cause of fever in a brain injured patient.

Brain Injury, Volume 4, Issue 3, July 1990, 307-309.

**Hurvitz SA, Stone LR, Keenan MAE, Waters RL: Acute subdural hematoma mimicking an epidural hematoma on a CT scan.** Brain Injury, 1989, Volume 3, No. 1, 63-65.

## Stone L, Keenan MAE: Peripheral nerve injuries in the adult with traumatic brain injury.

Clinical Orthopedics and Related Research, No. 233, August 1988, 136-144.

# PUBLISHED ABSTRACTS

## Stone LR, Fanchiang SP, Keenan MAE, Young S: Outcome of traumatic brain injured patients with delayed admission to inpatient rehabilitation.

Archives of Physical Medicine & Rehabilitation, October 1989, Volume 70, No. 11, A-35.

## Stone LR, Keenan MAE, Stewart CA, Hardy SE: Diagnosis and incidence of reflex sympathetic dystrophy in traumatic brain injury.

Archives of Physical Medicine & Rehabilitation, October 1989, Volume 70, No. 11, A-35

## Keenan MAE, Ahearn R, Stone LR: Selective release of spastic elbow flexor muscles in the brain injured adult.

Archives of Physical Medicine & Rehabilitation, October 1989, Volume 70, No. 11, A-10

# PUBLISHED ABSTRACTS (continued)

## Orcutt SA, Stone LR, Keenan MAE, Waters RL, Gellman H: Carpal tunnel syndrome secondary to wrist and finger flexion spasticity.

Archives of Physical Medicine & Rehabilitation, October 1989, Volume 70, No. 11, A-14.

## Payne WK, Keenan MAE, Stone LR: Foot complications in non-ambulatory spastic patients.

Archives of Physical Medicine & Rehabilitation, October 1989, Volume 70, No. 11, A-15.

**Stone LR, Cohen SA, Keenan MAE, Waters RL: Rehabilitation of combined severe traumatic brain and spinal cord injury.** American Spinal Injury Association Annual Meeting, 1989.

## Hardy S, Stewart CA, Stone L, Keenan MAE, Hung G: Incidence of diagnosis of reflex sympathetic dystrophy in traumatic brain injury: Use of bone scintigraphy.

Clinical Nuclear Medicine, Volume 13, No. 9, 16.

## Jamieson K, Stone L, Keenan MAEL Preventable complications and missed injuries in patients with severe head trauma.

Archives of Physical Medicine & Rehabilitation, September 1988, Volume 69, No. 9, 702.

## Keenan MAE, Stone L, Thomas B, Gersten LM: Percutaneous phenol block of the musculocutaneous nerve.

Archives of Physical Medicine & Rehabilitation, September 1988, Volume 69, No. 9, 702.

## Stone L, Keenan MAEL Peripheral nerve injuries in the adult with traumatic brain injury.

Archives of Physical Medicine & Rehabilitation, September 1988, Volume 69, No. 9, 702.

**Keenan MAE, Haider T, Stone L: Electromyographic assessment of hand placement in brain injured adults.** Archives of Physical Medicine & Rehabilitation, September 1988, Volume 69, No. 9, 702.

## Keenan MAE, Romanelli RR, Lunsford MS, Stone L: Evaluation of motor control in the hands of adults with spasticity from brain injury using dynamic EMG.

Archives of Physical Medicine & Rehabilitation, September 1988, Volume 69, No. 9, 702.

# SCIENTIFIC PRESENTATIONS

## Introduction to Transcranial Direct Current Stimulation (TDCS) in Neuropsychiatric Research.

Course Co-Director

Highland Hospital. Oakland California. *October 20, 2012.*

## Neural Repair: Current Trends in Restorative Therapies Following Traumatic Brain Injury.

Faculty

Scripps Memorial Hospital - 6th Annual Brain Injury Rehabilitation Conference. Carlsbad, California. *March 17 and 18, 2011.*

## Late Physical Complications Following Stroke and Traumatic Brain Injury.

Medical Grand Rounds. John F. Kennedy Memorial Hospital. Indo, California. *February 16, 1994.*

## Management of Pain and Reflex Sympathetic Dystrophy Following Traumatic Brain Injury.

International Congress of Orthopaedic Rehabilitation. Anaheim, California. *June 22 ,1990.*

## Pathophysiology of Traumatic Brain Injury.

Neurology Grand Rounds. Harbor UCLA Medical Centers, Department of Neurology. Torrance, California.

*February 26, 1990.*

# SCIENTIFIC PRESENTATIONS (continued)

## The Treatment of Spastic Plano valgus Foot Deformity in the Neurologically Impaired Adult.

The 57th American Academy of Orthopedic Surgeons. New Orleans, Louisiana. *February 10, 1990.*

## Diagnosis and Incidence of Reflex Sympathetic Dystrophy in Traumatic Brain Injury.

The 51st Annual Assembly, American Academy of Physical Medicine and Rehabilitation. San Antonio, Texas. *November 6, 1989.*

**Outcome of Traumatic Brain Injured Patients with Delayed Admission to Inpatient Rehabilitation.** The 51st Annual Assembly, American Academy of Physical Medicine and Rehabilitation. San Antonio, Texas. *November 6, 1989.*

**Rehabilitation of Trauma Patients.** Eighth Annual Modern Concepts in Trauma Care Symposium. Orange, California. *April 27, 1989.*

## Incidence and Diagnosis of Relfex Sympathetic Dystrophy in Traumatic Brain Injury:

**Use of bone Scintigraphy.** First Biennial World Congress, International Association of the Study of Traumatic Brain Injury. San Jose, California. *April 9, 1989.*

**Pathophysiology of Traumatic Brain Injury.** Medical Grand Rounds Rancho Los Amigos Medical Center. Downey, California. *March 2, 1989.*

**Peripheral Nerve Injuries in the Adult with Traumatic Brain Injury.** 50th Assembly, American Academy of Physical Medicine and Rehabilitation. Seattle, Washington. *November 3, 1988.*

**Percutaneous Phenol Block of the Musculocutaneous Nerve.** 50th Assembly, American Academy of Physical Medicine and Rehabilitation. Seattle, Washington. *November 3, 1988.*

**Evaluation of Motor Control in the Hand of Adults with Spasticity from brain Injury using Dynamic Electromyography.** 50th Assembly, American Academy of Physical Medicine and Rehabilitation. Seattle, Washington. *November 3, 1988.*

**Intrinsic Release for Spastic Hand Deformity.** American Association for Surgery of the Hand, Annual Meeting. Toronto, Canada. *October 1988.*

# POSTER EXHIBIT PRESENTATIONS

## Foot Complications in Non-Ambulatory Spastic Patients.

The 58th Annual Meeting of the American Academy of Orthopaedic Surgeons. Anaheim, California.

*March 7, 1991.*

## Autonomic Dysfunction Syndrome (ADS): Report of a case with observations at necropsy.

The 52th Annual Assembly of the American Academy of Physical Medicine and Rehabilitation. Phoenix, Arizona. *October 23, 1990.*

## Posterior Tibial Nerve Phenol Block to Control Spastic Equinus Deformity.

The 57th Annual Meeting of the American Academy of Orthopaedic Surgeons. New Orleans, Louisiana.

*February 8-12, 1990.* Course Objectives.

# COURSE FACULTY

## Critical Care Summer Session 99

UCSD School of Medicine. Rehabilitation in the Critically Ill Patients. San Diego, California. August 5, 1999. Faculty.

## Spinal Cord Injury Rehabilitation

Third Annual Neurotrama Nursing Conference. UCSD Medical Center. San Diego, California. November 10, 1998.

## Acute Rehabilitation of the Tetraplegic Patient

Trauma Grand Rounds. UCSD Medical Center, Department of Surgery. San Diego, California. October 13, 1998

**Neuropathology As A Guide to Rehabilitation Following Traumatic Brain Injury**

Trauma Grand Rounds. UCSD Medical Center, Department of Surgery. San Diego, California. May 23, 1997

## Sociedad Occidental de Medicina de Rehabilitacion Annual Internal Meeting

Puerto Vallarta, Mexico. May 15-19, 1995. Faculty.

## San Diego Head Injury Foundation, Mild Traumatic Brain Injury: The Reconstruction Phase.

San Diego, California.

## American Academy of Neurology, Traumatic Brain Injury Rehabilitation Course.

Daniel Freeman Memorial Hospital and Rancho Los Amigos Medical Center. October 14-18, 1991. Faculty.

**Third International Symposium, Neuro-Orthopeadeic Management of the Traumatic Brain Injured Adult.** Anaheim, California. June 21-23, 1990. Course Director.

# VOLUNTEER ACTIVITIES

**2005 - 2011:** Red Cross Physician Volunteer (Comprehensive Combat and Casualty Care CC5) Balboa Naval Medical Center

San Diego, California

# LETTERS TO THE EDITOR

**New England Journal of Medicine.** Editorials and Conflicts of Interest. Volume 336: 728-729, No. 10., March 6, 1997

# BOOKS

## Neuro-Orthopaedic Complication Following Traumatic Brain Injury.

Physical Medicine and Rehabilitation: State of the Art Reviews. Publisher Hanley and Belfus, Inc. 1993, Volume 7, No. 3, Editor.

# CHAPTERS

## Spasticity: Management Using Nerve Blocks.

Physical Medicine and Rehabilitation: State of the Art Reviews 1993, Volume 7, No. 3, 527-558.