Stanford

Stephen Lawrence McKenna, MD

Clinical Professor (Affiliated), Neurosurgery

Bio

BIO

Dr. Stephen McKenna is a founding member of the Stanford Partnership for Spinal Cord Injury and Repair. He is currently the Chief of the Rehabilitation Trauma Center; as well as, the site director of the Advanced SCI Medicine Fellowship at SCVMC.

As a Neurocritical Care physician, Dr. McKenna specializes in ventilator-dependent Spinal Cord and Traumatic Brain Injury, as well as neuromuscular diseases. He has led first-in-human clinical trials ranging from vaccines for HIV to stem cell-derived oligodendrocyte progenitor cell-based therapies for SCI. Dr. McKenna is Chairman of the Respiratory Section of the International Standards to Document Autonomic Function after SCI (ISAFSCI) and co-chair of the American Spinal Cord Injury Association (ASIA) Research Education Subcommittee.

Clinical Focus:

Spinal Cord Injury

Traumatic Brain Injury

Amyotrophic lateral sclerosis (ALS)

Guillain-Barre syndrome (GBS)

Anti-NMDA receptor encephalitis

Neuromyelitis Optica (Devic disease)

Professional Education:

Board Certification: Neurocritical Care, UCNS (2008)

Board Certification: Internal Medicine, ABIM (2005)

Internship & Residency: Santa Clara Valley Medical Center (2002,2005)

Medical Education: Stanford University School of Medicine (2002)

Book Chapter:

Shah A, Shem K, McKenna SL, Berlly M. Management of Respiratory Failure in Spinal Cord Injury. Spinal Cord Medicine (Hardcover) by Steven, M.D. Kirshblum (Editor) Lippincott Williams & Wilkins; 2011

Selected Publications:

Exploration of surgical blood pressure management & expected motor recovery in individuals with traumatic SCI.

Ehsanian R, et al, McKenna SL.

Spinal Cord. 2020 Mar;58(3):377-386. PMID: 31649323

A Novel Pharyngeal Clearance Maneuver for Initial Tracheostomy Tube Cuff Deflation in High Cervical Tetraplegia.

Ehsanian R, et al, McKenna S.

Am J Phys Med Rehabil. 2019 Sep;98(9):835-838. PMID: 30973517

Burden of Care Implications & Association of Intracranial Hypertension with Extremely Severe Post-traumatic Amnesia After TBI: A 5-Year Retrospective Longitudinal Study.

Quach NT, et al

Front Neurol. 2019 Jan 29;10:34. PMID: 30761071

Venous Thromboembolism is Associated with Lack of Vitamin D Supplementation in Patients with SCI & Low Vitamin D Levels.

Ehsanian R, et al

PM R. 2019 Feb;11(2):125-134. PMID: 30300766

Pulmonary outcomes following specialized respiratory management for acute cervical SCI: a retrospective analysis.

Zakrasek EC, et al, McKenna SL

Spinal Cord, 2017; Feb 21. PMID: 28220822

Dose Response Effect of Exposure to Hypotension on Expected Neurological Recovery in Individuals with Traumatic SCI.

ARCHIVES OF PM&R

Reza, E., et al, McKenna, S.

2016: DOI: http://dx.doi.org/10.1016/j.apmr.2016.09.016

Combined SCI & TBI: recovery of forelimb function after unilateral cervical SCI is retarded by contralateral traumatic brain injury (TBI), & ipsilateral TBI balances the effects of SCI on paw placement.

EXPERIMENTAL NEUROLOGY

Inoue T, et al.

2013 Oct 248: 136-47. PMID: 23770071

Functional electrical stimulation in SCI respiratory care.

TOPICS IN SPINAL CORD REHAB.

R Jarosz, et al, S McKenna

2012:Vol. 18, No. 4, 315-321. PMID: 23459661

Impact of mean arterial blood pressure during the first seven days post SCI.

TOPICS IN SPINAL CORD REHAB.

J Cohn, et al

2010: DOI: http://dx.doi.org/10.1310/sci1503-96

Successful Pregnancy & Delivery in a C1 ASIA A spinal cord injured Woman: The Role of Coordinated Care Between PM&R & Obstetrics Services: A Case Report.

PM&R

Lin C, et al

2010: DOI: http://dx.doi.org/10.1016/j.pmrj.2010.07.461

The impact of project closure on HIV incidence and mortality in a cohort of couples in Lusaka, Zambia.

AIDS CARE

Stephenson R, et al

2008 Jul;20(6):683-91. PMID: 18576170

Rapid HIV testing & counseling for voluntary testing centers in Africa.

AIDS

McKenna SL et al

1997 Sep;11 Suppl 1:S103-10. PMID: 9376093