

Accepted Manuscript

Patterns of Sacral Sparing Components on Neurological Recovery in Newly Injured Persons with Traumatic Spinal Cord Injury

Steven C. Kirshblum, MD, Amanda L. Botticello, PhD, MPH, Trevor A. Dyson-Hudson, MD, Rachel Byrne, MA, Ralph J. Marino, MD, Daniel P. Lammertse, MD



PII: S0003-9993(16)00151-9

DOI: [10.1016/j.apmr.2016.02.012](https://doi.org/10.1016/j.apmr.2016.02.012)

Reference: YAPMR 56467

To appear in: *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION*

Received Date: 14 January 2016

Accepted Date: 15 February 2016

Please cite this article as: Kirshblum SC, Botticello AL, Dyson-Hudson TA, Byrne R, Marino RJ, Lammertse DP, Patterns of Sacral Sparing Components on Neurological Recovery in Newly Injured Persons with Traumatic Spinal Cord Injury, *ARCHIVES OF PHYSICAL MEDICINE AND REHABILITATION* (2016), doi: 10.1016/j.apmr.2016.02.012.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Running Title: Neurological Change based on Sacral Sparing

Patterns of Sacral Sparing Components on Neurological Recovery in Newly Injured Persons with Traumatic Spinal Cord Injury

Steven C. Kirshblum, MD ¹⁻³, Amanda L. Botticello, PhD, MPH ^{2,3}, Trevor A. Dyson-Hudson, MD ^{2,3}, Rachel Byrne, MA ², Ralph J. Marino, MD ⁴, and Daniel P. Lammertse, MD ^{5,6}

¹ Kessler Institute for Rehabilitation, West Orange, NJ

² Kessler Foundation, West Orange, NJ

³ Department of Physical Medicine and Rehabilitation, Rutgers New Jersey Medical School, Newark, NJ

⁴ Sidney Kimmel Medical College, Thomas Jefferson University, Philadelphia PA

⁵ Craig Hospital, Englewood, CO

⁶ Department of Physical Medicine and Rehabilitation, University of Colorado School of Medicine, Aurora, CO

Acknowledgement:

The contents of this report were developed under a grant from the National Institute on Disability, Independent Living, and Rehabilitation Research (NIDILRR grants 90SI5011, 90SI5012, and H133N110006). NIDILRR is a Center within the Administration for Community Living (ACL), Department of Health and Human Services (HHS). The contents of this report do not necessarily represent the policy of NIDILRR, ACL, HHS, and you should not assume endorsement by the Federal Government.

Download English Version:

<https://daneshyari.com/en/article/5677704>

Download Persian Version:

<https://daneshyari.com/article/5677704>

[Daneshyari.com](https://daneshyari.com)