

SCI 2020 Compiled Reference List from Keynote address by Michael L. Boninger, MD

Thanks to all the SCI 2020 Session Speakers for sending these reference suggestions and associated notes to Dr. Boninger to help inform his talk.

Wearable Monitors

Eldahan, K. C., & Rabchevsky, A. G. (2018). Autonomic dysreflexia after spinal cord injury: Systemic pathophysiology and methods of management. *Autonomic Neuroscience*, 209, 59–70. <https://doi.org/10.1016/j.autneu.2017.05.002>

Olney, C. M., Vos-Draper, T., Egginton, J., Ferguson, J., Goldish, G., Eddy, B., ... Morrow, M. (2019). Development of a comprehensive mobile assessment of pressure (Cmap) system for pressure injury prevention for veterans with spinal cord injury. *The Journal of Spinal Cord Medicine*, 1–10. <https://doi.org/10.1080/10790268.2019.1570437>

Vos-Draper, T. L., & Morrow, M. M. B. (2016). Seating-related pressure injury prevention in spinal cord injury: a review of compensatory technologies to improve in-seat movement behavior. *Current Physical Medicine and Rehabilitation Reports*, 4(4), 320–328. <https://doi.org/10.1007/s40141-016-0140-7>

Acute Cell Transplant

Gollihue, J. L., & Rabchevsky, A. G. (2017). Prospects for therapeutic mitochondrial transplantation. *Mitochondrion*, 35, 70–79. <https://doi.org/10.1016/j.mito.2017.05.007>

Levine, J. M., Cohen, N. D., Fandel, T. M., Levine, G. J., Mankin, J., Griffin, J. F., ... Noble-Haeusslein, L. J. (2017). Early blockade of matrix metalloproteinases in spinal-cord-injured dogs results in a long-term increase in bladder compliance. *Journal of Neurotrauma*, 34(18), 2656–2667. <https://doi.org/10.1089/neu.2017.5001>

McCree, D. A., Lee, S., Sontag, C. J., Weinstein, P., Olivas, A. D., Martinez, A. F., ... Noble-Haeusslein, L. J. (2018). Early targeting of I-selectin on leukocytes promotes recovery after spinal cord injury, implicating novel mechanisms of pathogenesis. *Eneuro*, 5(4), ENEURO.0101-18.2018. <https://doi.org/10.1523/ENEURO.0101-18.2018>

Coupling BCI and Exercise

About | improving patient medical device access. (n.d.). Retrieved February 8, 2019, from <https://mdic.org/about/mission-purpose/>

Anderson, K. D. (2004). Targeting recovery: priorities of the spinal cord-injured population. *Journal of Neurotrauma*, 21(10), 1371–1383. <https://doi.org/10.1089/neu.2004.21.1371>

Awad, B. I., Carmody, M. A., Zhang, X., Lin, V. W., & Steinmetz, M. P. (2015). Transcranial magnetic stimulation after spinal cord injury. *World Neurosurgery*, 83(2), 232–235. <https://doi.org/10.1016/j.wneu.2013.01.043>

Badran, B. W., Jenkins, D. D., DeVries, W. H., Dancy, M., Summers, P. M., Mappin, G. M., ... George, M. S. (2018). Transcutaneous auricular vagus nerve stimulation (Tavns) for improving oromotor function in newborns. *Brain Stimulation*, 11(5), 1198–1200. <https://doi.org/10.1016/j.brs.2018.06.009>

European patients' academy (Eupati) – patient education! (n.d.). Retrieved February 8, 2019, from <https://www.eupati.eu>

Guest Editors, French, J., Bardot, D., Graczyk, E., Hess-Dunning, A., Lujan, J. L., ... Zbrzeski, A. (2018). The need for understanding and engaging the patient as consumer of products developed by neural engineering. *Journal of Neural Engineering*, 15(4), 040201. <https://doi.org/10.1088/1741-2552/aac668>

Early Electrophysiological Studies

Bryden, A., Kilgore, K. L., & Nemunaitis, G. A. (2018). Advanced assessment of the upper limb in tetraplegia: a three-tiered approach to characterizing paralysis. *Topics in Spinal Cord Injury Rehabilitation*, 24(3), 206–216. <https://doi.org/10.1310/sci2403-206>

Dhall, S. S., Haefeli, J., Talbott, J. F., Ferguson, A. R., Readdy, W. J., Bresnahan, J. C., ... Whetstone, W. D. (2018). Motor evoked potentials correlate with magnetic resonance imaging and early recovery after acute spinal cord injury. *Neurosurgery*, 82(6), 870–876. <https://doi.org/10.1093/neuros/nyx320>

Nemunaitis, G., Roach, M. J., Claridge, J., & Mejia, M. (2016). Early predictors of functional outcome after trauma. *PM&R*, 8(4), 314–320. <https://doi.org/10.1016/j.pmrj.2015.08.007>

Treatment of Pain

Eick, J., & Richardson, E. J. (2015). Cortical activation during visual illusory walking in persons with spinal cord injury: a pilot study. *Archives of Physical Medicine and Rehabilitation*, 96(4), 750–753. <https://doi.org/10.1016/j.apmr.2014.10.020>

Moreno-Duarte, I., Morse, L. R., Alam, M., Bikson, M., Zafonte, R., & Fregni, F. (2014). Targeted therapies using electrical and magnetic neural stimulation for the treatment of chronic pain in spinal cord injury. *NeuroImage*, 85, 1003–1013. <https://doi.org/10.1016/j.neuroimage.2013.05.097>

Richardson, E. J., McKinley, E. C., Rahman, A. K. M. F., Klebine, P., Redden, D. T., & Richards, J. S. (2019). Effects of virtual walking on spinal cord injury-related neuropathic pain: A randomized, controlled trial. *Rehabilitation Psychology, 64*(1), 13–24. <https://doi.org/10.1037/rep0000246>

Wrigley, P. J., Press, S. R., Gustin, S. M., Macefield, V. G., Gandevia, S. C., Cousins, M. J., ... Siddall, P. J. (2009). Neuropathic pain and primary somatosensory cortex reorganization following spinal cord injury: *Pain, 141*(1), 52–59. <https://doi.org/10.1016/j.pain.2008.10.007>

Neuroprosthetics

Contreras-Vidal, J. L., Kilicarslan, A., Huang, H. (Helen), & Grossman, R. G. (2015). Human-centered design of wearable neuroprostheses and exoskeletons. *AI Magazine, 36*(4), 12. <https://doi.org/10.1609/aimag.v36i4.2613>

Flesher, S. N., Collinger, J. L., Foldes, S. T., Weiss, J. M., Downey, J. E., Tyler-Kabara, E. C., ... Gaunt, R. A. (2016). Intracortical microstimulation of human somatosensory cortex. *Science Translational Medicine, 8*(361), 361ra141-361ra141. <https://doi.org/10.1126/scitranslmed.aaf8083>

Formento, E., Minassian, K., Wagner, F., Mignardot, J. B., Le Goff-Mignardot, C. G., Rowald, A., ... Courtine, G. (2018). Electrical spinal cord stimulation must preserve proprioception to enable locomotion in humans with spinal cord injury. *Nature Neuroscience, 21*(12), 1728–1741. <https://doi.org/10.1038/s41593-018-0262-6>

Ganzer, P. D., Darrow, M. J., Meyers, E. C., Solorzano, B. R., Ruiz, A. D., Robertson, N. M., ... Rennaker, R. L. (2018). Closed-loop neuromodulation restores network connectivity and motor control after spinal cord injury. *ELife, 7*. <https://doi.org/10.7554/eLife.32058>

Kilgore, K. L., Bryden, A., Keith, M. W., Hoyen, H. A., Hart, R. L., Nemunaitis, G. A., & Peckham, P. H. (2018). Evolution of neuroprosthetic approaches to restoration of upper extremity function in spinal cord injury. *Topics in Spinal Cord Injury Rehabilitation, 24*(3), 252–264. <https://doi.org/10.1310/sci2403-252>

Peckham, P. H., & Kilgore, K. L. (2013). Challenges and opportunities in restoring function after paralysis. *IEEE Transactions on Biomedical Engineering, 60*(3), 602–609. <https://doi.org/10.1109/TBME.2013.2245128>

Russo, M., Cousins, M. J., Brooker, C., Taylor, N., Boesel, T., Sullivan, R., ... Parker, J. (2018). Effective relief of pain and associated symptoms with closed-loop spinal cord stimulation system: preliminary results of the avalon study: closed-loop feedback control scs for pain relief. *Neuromodulation: Technology at the Neural Interface, 21*(1), 38–47. <https://doi.org/10.1111/ner.12684>

Savage, N. (2018). "The Power of Thought." *Nature, 555*, S12-S14; <https://www.depts.ttu.edu/biology/people/Faculty/Held/FoM6-Paralysis.pdf>

Wodlinger, B., Downey, J. E., Tyler-Kabara, E. C., Schwartz, A. B., Boninger, M. L., & Collinger, J. L. (2015). Ten-dimensional anthropomorphic arm control in a human brain-machine interface: difficulties, solutions, and limitations. *Journal of Neural Engineering*, 12(1), 016011. <https://doi.org/10.1088/1741-2560/12/1/016011>

Bladder Neuroprosthetics

Jezernik, S., Craggs, M., Grill, W. M., Creasey, G., & Rijkhoff, N. J. M. (2002). Electrical stimulation for the treatment of bladder dysfunction: Current status and future possibilities. *Neurological Research*, 24(5), 413–430. <https://doi.org/10.1179/016164102101200294>

Wenzel, B. J., Boggs, J. W., Gustafson, K. J., & Grill, W. M. (2006). Closed loop electrical control of urinary continence. *Journal of Urology*, 175(4), 1559–1563. [https://doi.org/10.1016/S0022-5347\(05\)00657-9](https://doi.org/10.1016/S0022-5347(05)00657-9)

Combined Therapeutics

Sofroniew, M. V. (2018). Dissecting spinal cord regeneration. *Nature*, 557(7705), 343–350. <https://doi.org/10.1038/s41586-018-0068-4>

Spinal Cord Stimulation

Capogrosso, M., Milekovic, T., Borton, D., Wagner, F., Moraud, E. M., Mignardot, J.-B., ... Courtine, G. (2016). A brain-spine interface alleviating gait deficits after spinal cord injury in primates. *Nature*, 539(7628), 284–288. <https://doi.org/10.1038/nature20118>

LeVins, A., & Moritz, C. T. (2017). Therapeutic stimulation for restoration of function after spinal cord injury. *Physiology*, 32(5), 391–398. <https://doi.org/10.1152/physiol.00010.2017>

Inanici, F., Samejima, S., Gad, P., Edgerton, V. R., Hofstetter, C. P., & Moritz, C. T. (2018). Transcutaneous electrical spinal stimulation promotes long-term recovery of upper extremity function in chronic tetraplegia. *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, 26(6), 1272–1278. <https://doi.org/10.1109/TNSRE.2018.2834339>

Mignardot, J.-B., Le Goff, C. G., van den Brand, R., Capogrosso, M., Fumeaux, N., Vallery, H., ... Courtine, G. (2017). A multidirectional gravity-assist algorithm that enhances locomotor control in patients with stroke or spinal cord injury. *Science Translational Medicine*, 9(399), eaah3621. <https://doi.org/10.1126/scitranslmed.aah3621>

Moritz, C. T. (2018). Now is the critical time for engineered neuroplasticity. *Neurotherapeutics: The Journal of the American Society for Experimental Neurotherapeutics*, 15(3), 628–634. <https://doi.org/10.1007/s13311-018-0637-0>

Wagner, F. B., Mignardot, J.-B., Le Goff-Mignardot, C. G., Demesmaeker, R., Komi, S., Capogrosso, M., ...

Courtine, G. (2018). Targeted neurotechnology restores walking in humans with spinal cord injury. *Nature*, 563(7729), 65–71. <https://doi.org/10.1038/s41586-018-0649-2>

Rehabilitation Exercises and Dosing

Estes, S., Iddings, J. A., Ray, S., Kirk-Sanchez, N. J., & Field-Fote, E. C. (2018). Comparison of single-session dose response effects of whole body vibration on spasticity and walking speed in persons with spinal cord injury. *Neurotherapeutics*, 15(3), 684–696. <https://doi.org/10.1007/s13311-018-0644-1>

Gomes-Osman, J., Cortes, M., Guest, J., & Pascual-Leone, A. (2016). A systematic review of experimental strategies aimed at improving motor function after acute and chronic spinal cord injury. *Journal of Neurotrauma*, 33(5), 425–438. <https://doi.org/10.1089/neu.2014.3812>

Robotics

Candiotti, J. L., Kamaraj, D. C., Daveler, B., Chung, C.-S., Grindle, G. G., Cooper, R., & Cooper, R. A. (2018). Usability evaluation of a novel robotic power wheelchair for indoor and outdoor navigation. *Archives of Physical Medicine and Rehabilitation*. <https://doi.org/10.1016/j.apmr.2018.07.432>

Ka, H. W., Chung, C.-S., Ding, D., James, K., & Cooper, R. (2018). Performance evaluation of 3D vision-based semi-autonomous control method for assistive robotic manipulator. *Disability and Rehabilitation: Assistive Technology*, 13(2), 140–145. <https://doi.org/10.1080/17483107.2017.1299804>

Neuromodulation to Enhance Outcomes

Estes, S. P., Iddings, J. A., & Field-Fote, E. C. (2017). Priming neural circuits to modulate spinal reflex excitability. *Frontiers in Neurology*, 8. <https://doi.org/10.3389/fneur.2017.00017>

James, N. D., McMahon, S. B., Field-Fote, E. C., & Bradbury, E. J. (2018). Neuromodulation in the restoration of function after spinal cord injury. *The Lancet Neurology*, 17(10), 905–917. [https://doi.org/10.1016/S1474-4422\(18\)30287-4](https://doi.org/10.1016/S1474-4422(18)30287-4)

Karri, J., Li, S., Zhang, L., Chen, Y.-T., Stampas, A., & Li, S. (2018). Neuropathic pain modulation after spinal cord injury by breathing-controlled electrical stimulation (Breestim) is associated with restoration of autonomic dysfunction. *Journal of Pain Research*, Volume 11, 2331–2341. <https://doi.org/10.2147/jpr.s174475>

Stampas, A., Korupolu, R., Zhu, L., Smith, C. P., & Gustafson, K. (2018). Safety, feasibility, and efficacy of transcutaneous tibial nerve stimulation in acute spinal cord injury neurogenic bladder: a randomized control pilot trial: bladder neuromodulation of acute sci with ttns. *Neuromodulation: Technology at the Neural Interface*. <https://doi.org/10.1111/ner.12855>

Infection, Prevention and Improved Outcomes

- Failli, V., Kopp, M. A., Gericke, C., Martus, P., Klingbeil, S., Brommer, B., ... Schwab, J. M. (2012). Functional neurological recovery after spinal cord injury is impaired in patients with infections. *Brain*, 135(11), 3238–3250. <https://doi.org/10.1093/brain/aws267>
- Kopp, M. A., Watzlawick, R., Martus, P., Failli, V., Finkenstaedt, F. W., Chen, Y., ... Schwab, J. M. (2017). Long-term functional outcome in patients with acquired infections after acute spinal cord injury. *Neurology*, 88(9), 892–900. <https://doi.org/10.1212/WNL.0000000000003652>
- Prüss, H., Tedeschi, A., Thiriot, A., Lynch, L., Loughhead, S. M., Stutte, S., ... Schwab, J. M. (2017). Spinal cord injury-induced immunodeficiency is mediated by a sympathetic-neuroendocrine adrenal reflex. *Nature Neuroscience*, 20(11), 1549–1559. <https://doi.org/10.1038/nn.4643>
- Stampas, A., Dominick, E., & Zhu, L. (2018). Evaluation of functional outcomes in traumatic spinal cord injury with rehabilitation-acquired urinary tract infections: A retrospective study. *The Journal of Spinal Cord Medicine*, 1–14. <https://doi.org/10.1080/10790268.2018.1452389>

Prevention

- Dicianno, B. E., Lovelace, J., Peele, P., Fassinger, C., Houck, P., Bursic, A., & Boninger, M. L. (2016). Effectiveness of a wellness program for individuals with spina bifida and spinal cord injury within an integrated delivery system. *Archives of Physical Medicine and Rehabilitation*, 97(11), 1969–1978. <https://doi.org/10.1016/j.apmr.2016.05.014>
- Nemunaitis, G., Roach, M. J., Boulet, M., Nagy, J. A., Kaufman, B., Mejia, M., & Hefzy, M. S. (2015). The effect of a liner on the dispersion of sacral interface pressures during spinal immobilization. *Assistive Technology*, 27(1), 9–17. <https://doi.org/10.1080/10400435.2014.940473>
- Nemunaitis, G., Roach, M. J., Hefzy, M. S., & Mejia, M. (2016). Redesign of a spine board: Proof of concept evaluation. *Assistive Technology*, 28(3), 144–151. <https://doi.org/10.1080/10400435.2015.1131759>

Knowledge Translation

- Coffey, N. T., Cassese, J., Cai, X., Garfinkel, S., Patel, D., Jones, R., ... Weinstein, A. A. (2017). Identifying and understanding the health information experiences and preferences of caregivers of individuals with either traumatic brain injury, spinal cord injury, or burn injury: a qualitative investigation. *Journal of Medical Internet Research*, 19(5), e159. <https://doi.org/10.2196/jmir.7027>
- Gerber, L. H., Bush, H., Holavanahalli, R., Esselman, P., Schneider, J., Heinemann, A., ... Cai, C. (2018). A scoping review of burn rehabilitation publications incorporating functional outcomes. *Burns*. <https://doi.org/10.1016/j.burns.2018.09.029>

Patel, D., Koehmstedt, C., Jones, R., Coffey, N., Cai, X., Garfinkel, S., ... Weinstein, A. (2017). A qualitative study examining methods of accessing and identifying research relevant to clinical practice among rehabilitation clinicians. *Journal of Multidisciplinary Healthcare, Volume 10*, 429–435. <https://doi.org/10.2147/jmdh.s146097>

Science for Acute (at the scene) Intervention

Chen, B., Li, Y., Yu, B., Zhang, Z., Brommer, B., Williams, P. R., ... He, Z. (2018). Reactivation of dormant relay pathways in injured spinal cord by kcc2 manipulations. *Cell, 174*(3), 521–535.e13. <https://doi.org/10.1016/j.cell.2018.06.005>

Hosier, H., Peterson, D., Tsymbalyuk, O., Keledjian, K., Smith, B. R., Ivanova, S., ... Simard, J. M. (2015). A direct comparison of three clinically relevant treatments in a rat model of cervical spinal cord injury. *Journal of Neurotrauma, 32*(21), 1633–1644. <https://doi.org/10.1089/neu.2015.3892>

Liu, Y., Wang, X., Li, W., Zhang, Q., Li, Y., Zhang, Z., ... He, Z. (2017). A sensitized igf1 treatment restores corticospinal axon-dependent functions. *Neuron, 95*(4), 817–833.e4. <https://doi.org/10.1016/j.neuron.2017.07.037>

Simard, J. M., Tsymbalyuk, O., Ivanov, A., Ivanova, S., Bhatta, S., Geng, Z., ... Gerzanich, V. (2007). Endothelial sulfonyleurea receptor 1-regulated NC Ca-ATP channels mediate progressive hemorrhagic necrosis following spinal cord injury. *The Journal of Clinical Investigation, 117*(8), 2105–2113. <https://doi.org/10.1172/JCI32041>

Thibault-Halman, G., Rivers, C. S., Bailey, C. S., Tsai, E. C., Drew, B., Noonan, V. K., ... The RHSCIR Network. (2017). Predicting recruitment feasibility for acute spinal cord injury clinical trials in Canada using national registry data. *Journal of Neurotrauma, 34*(3), 599–606. <https://doi.org/10.1089/neu.2016.4568>

Wang, C., Li, X., Hu, H., Zhang, L., Huang, Z., Lin, M., ... Xu, S. (2018). Monitoring of the central blood pressure waveform via a conformal ultrasonic device. *Nature Biomedical Engineering, 2*(9), 687–695. <https://doi.org/10.1038/s41551-018-0287-x>

Difficulty Recruiting in Acute SCI Trials

Thibault-Halman, G., Rivers, C. S., Bailey, C. S., Tsai, E. C., Drew, B., Noonan, V. K., ... The RHSCIR Network. (2017). Predicting recruitment feasibility for acute spinal cord injury clinical trials in Canada using national registry data. *Journal of Neurotrauma, 34*(3), 599–606. <https://doi.org/10.1089/neu.2016.4568>

Biomarkers to Inform Treatment and Prognosis

Kwon, B. K., Streijger, F., Fallah, N., Noonan, V. K., Bélanger, L. M., Ritchie, L., ... Dvorak, M. F. (2017). Cerebrospinal fluid biomarkers to stratify injury severity and predict outcome in human

traumatic spinal cord injury. *Journal of Neurotrauma*, 34(3), 567–580.
<https://doi.org/10.1089/neu.2016.4435>

Yousefifard, M., Sarveazad, A., Babahajian, A., Baikpour, M., Shokrane, F., Vaccaro, A. R., ... Rahimi-Movaghar, V. (2019). Potential diagnostic and prognostic value of serum and cerebrospinal fluid biomarkers in traumatic spinal cord injury: A systematic review. *Journal of Neurochemistry*.
<https://doi.org/10.1111/jnc.14637>

Exercise to Maintain Health

Draghici, A. E., Potart, D., Hollmann, J. L., Pera, V., Fang, Q., DiMarzio, C. A., ... Shefelbine, S. J. (2017). Near infrared spectroscopy for measuring changes in bone hemoglobin content after exercise in individuals with spinal cord injury: NIRS FOR BONE HEMOGLOBIN CONTENT. *Journal of Orthopaedic Research*. <https://doi.org/10.1002/jor.23622>

Taylor, J. A., Picard, G., Porter, A., Morse, L. R., Pronovost, M. F., & Deley, G. (2014). Hybrid functional electrical stimulation exercise training alters the relationship between spinal cord injury level and aerobic capacity. *Archives of Physical Medicine and Rehabilitation*, 95(11), 2172–2179.
<https://doi.org/10.1016/j.apmr.2014.07.412>

System Level Impact of SCI

Brennan, F. H., & Popovich, P. G. (2018). Emerging targets for reprogramming the immune response to promote repair and recovery of function after spinal cord injury. *Current Opinion in Neurology*, 31(3), 334–344. <https://doi.org/10.1097/WCO.0000000000000550>

Kim, D.-I., & Tan, C. O. (2018b). Alterations in autonomic cerebrovascular control after spinal cord injury. *Autonomic Neuroscience*, 209, 43–50. <https://doi.org/10.1016/j.autneu.2017.04.001>

Solinsky, R., Bunnell, A. E., Linsenmeyer, T. A., Svircev, J. N., Engle, A., & Burns, S. P. (2017b). Pharmacodynamics and effectiveness of topical nitroglycerin at lowering blood pressure during autonomic dysreflexia. *Spinal Cord*, 55(10), 911–914. <https://doi.org/10.1038/sc.2017.58>

Exoskeleton Assisted Walking

Asselin, P. K., Avedissian, M., Knezevic, S., Kornfeld, S., & Spungen, A. M. (2016). Training persons with spinal cord injury to ambulate using a powered exoskeleton. *Journal of Visualized Experiments*, (112). <https://doi.org/10.3791/54071>

Asselin, P., Knezevic, S., Kornfeld, S., Cirnigliaro, C., Agranova-Breyter, I., Bauman, W. A., & Spungen, A. M. (2015). Heart rate and oxygen demand of powered exoskeleton-assisted walking in persons with paraplegia. *Journal of Rehabilitation Research and Development*, 52(2), 147–158.
<https://doi.org/10.1682/JRRD.2014.02.0060>

Fineberg, D. B., Asselin, P., Harel, N. Y., Agranova-Breyter, I., Kornfeld, S. D., Bauman, W. A., & Spungen, A. M. (2013). Vertical ground reaction force-based analysis of powered exoskeleton-assisted walking in persons with motor-complete paraplegia. *The Journal of Spinal Cord Medicine*, 36(4), 313–321. <https://doi.org/10.1179/2045772313Y.0000000126>

Spungen AM, Asselin P, Fineberg D, Harel NY, Kornfeld S, Bauman WA. (2013). Beneficial changes in body composition after exoskeletal-assisted walking: Implications for improved metabolic function. *Top Spinal Cord Inj Rehabil.*, 19(5):8–9.

Stem Cells and Spinal Cord Regeneration

Filous, A. R., & Schwab, J. M. (2018). Determinants of axon growth, plasticity, and regeneration in the context of spinal cord injury. *The American Journal of Pathology*, 188(1), 53–62. <https://doi.org/10.1016/j.ajpath.2017.09.005>

Benefit of Peer Counseling

Teng, Y. D., Wang, L., Zeng, X., Wu, L., Toktas, Z., Kabatas, S., & Zafonte, R. D. (2018). Updates on human neural stem cells: from generation, maintenance, and differentiation to applications in spinal cord injury research. In L. Buzanska (Ed.), *Human Neural Stem Cells* (Vol. 66, pp. 233–248). Cham: Springer International Publishing. https://doi.org/10.1007/978-3-319-93485-3_10

Benefit of Sport

Blauwet, C., Sudhakar, S., Doherty, A. L., Garshick, E., Zafonte, R., & Morse, L. R. (2013). Participation in organized sports is positively associated with employment in adults with spinal cord injury: *American Journal of Physical Medicine & Rehabilitation*, 92(5), 393–401. <https://doi.org/10.1097/PHM.0b013e3182876a5f>

Compton, S., Trease, L., Cunningham, C., & Hughes, D. (2015). Australian Institute of Sport and the Australian Paralympic Committee position statement: urinary tract infection in spinal cord injured athletes. *British Journal of Sports Medicine*, 49(19), 1236–1240. <https://doi.org/10.1136/bjsports-2014-094527>

Pelliccia, A., Quattrini, F. M., Squeo, M. R., Caselli, S., Culasso, F., Link, M. S., ... Bernardi, M. (2016). Cardiovascular diseases in Paralympic athletes. *British Journal of Sports Medicine*, 50(17), 1075–1080. <https://doi.org/10.1136/bjsports-2015-095867>

Treating Depression

Bombardier, C. H., Adams, L. M., Fann, J. R., & Hoffman, J. M. (2016). Depression trajectories during the first year after spinal cord injury. *Archives of Physical Medicine and Rehabilitation*, 97(2), 196–203. <https://doi.org/10.1016/j.apmr.2015.10.083>

Bombardier, C., Fann, J. R., Ehde, D., Reyes, M. R., & Hoffman, J. M. (2016). Collaborative care for pain, depression and physical inactivity in an outpatient sci clinic: the sci-care study. *Archives of Physical Medicine and Rehabilitation*, 97(10), e78–e79.
<https://doi.org/10.1016/j.apmr.2016.08.239>

Early Surgery

Burke, J. F., Yue, J. K., Ngwenya, L. B., Winkler, E. A., Talbott, J. F., Pan, J. Z., ... Dhall, S. S. (2018). Ultra-early (<12 hours) surgery correlates with higher rate of american spinal injury association impairment scale conversion after cervical spinal cord injury. *Neurosurgery*.
<https://doi.org/10.1093/neuros/nyy537>