

Select Publications from Dr. Boninger:

Refereed Journals: (* indicates the first author is a student)

1. Yang Y, Koontz AM, Triolo R, Cooper RA, **Boninger ML**, Biomechanical Analysis of Functional Electrical Stimulation on Trunk Musculature During Wheelchair Propulsion: A Pilot Study, *Neurorehabilitation and Neural Repair*, in press.
2. Whyte J, **Boninger ML**, Helkowski W, Braddom-Ritzler C, The Rehabilitation Medicine Scientist Training Program: Impact and Lessons Learned, *American Journal of Physical Medicine and Rehabilitation*, in press.
3. **Boninger ML**, Whyte J, DeLisa J, Zafonte R, Chan L, Building a Research Program in Physical Medicine and Rehabilitation, *American Journal of Physical Medicine and Rehabilitation*, in press.
4. Chan L, Jette AM, Ottenbacher KJ, Robinson LR, Tietsworth ML, Ricker JH, **Boninger ML**, Building a Research Program in Rehabilitation Sciences Part II, Case Studies: University of Texas Medical Branch, Boston University, University of Pittsburgh, and University of Washington, *American Journal of Physical Medicine and Rehabilitation*, in press.
5. Eggers SL, Myakovski L, Burkitt KH, Tolerico M, Switzer GE, Fine MJ, **Boninger ML**, A Descriptive Model of Wheelchair Service Delivery, *Archives of Physical Medicine and Rehabilitation*, in press.
6. *Rice I, **Boninger ML**, Impink B, Niyonkuru C, Wheelchair Stroke Characteristics During an Extended Period of Propulsion, *Spinal Cord*, in press.
7. Cowan R, Nash MS, Collinger JL, Koontz AM, **Boninger ML**, Impact of Surface Type, Wheelchair Weight, and Axle Position on Wheelchair Propulsion by Novice Older Adults, *Archives of Physical Medicine and Rehabilitation*, in press.
8. Ambrosio F, Kadi F, Lexell J, Fitzgerald GK, **Boninger ML**, Huard J. The effect of exercise on skeletal muscle regenerative potential; An update of current research findings relating to aging and neuromuscular pathology. *Am J PM&R*. In press.
9. Ambrosio F, Ferrari RJ, Fitzgerald GK, Carvell GR, **Boninger ML**, Huard J. Functional overloading of the extensor digitorum longus muscle enhances muscle derived stem cell contribution to contractile functioning of mouse dystrophic skeletal muscle. *Arch Phys Med Rehab*. In press
10. Yang J, **Boninger ML**, Leath J, Fitzgerald SG, Dyson-Hudson TA, Chang M, Carpal Tunnel Syndrome in Manual Wheelchair Users with Spinal Cord Injury: A Multi-Center Study, *American Journal of Physical Medicine and Rehabilitation*, in press.
11. Rentschler AJ, Simpson RC, Cooper RA, Blasch B, **Boninger ML**, Clinical Evaluation of the Guido Robotic Walker, *Journal of Rehabilitation Research and Development*, in press.
12. Fitzgerald SG, Kelleher AR, Teodorski E, Collins DM, **Boninger ML**, Cooper RA, The Development of a Nationwide Registry of Wheelchair Users, *Disability and Rehabilitation: Assistive Technology*, in press.
13. Kwarcia AM, Sisto SA, Yarossi M, Price R, Komaroff E, **Boninger ML**, Redefining the Manual Wheelchair Stroke Cycle: Identification and Impact of Nonpropulsive Pushrim Contact, *Archives of Physical Medicine and Rehabilitation*, pp. 66-73, Vol. 90, No. 1, January 2009.
14. Ding D, Leister E, Cooper RA, Cooper RM, Kelleher AR, Fitzgerald SG, **Boninger ML**, Usage of Tilt-in-Space, Recline, and Elevation Seating Functions in the Natural Environment of Wheelchair Users, *Journal of Rehabilitation Research and Development*, pp. 973-984, Vol. 4, No. 7, 2008.
15. Brose SW, **Boninger ML**, Fullerton B, McCann T, Collinger JL, Impink B, Dyson-Hudson TA, Shoulder Ultrasound Abnormalities, Physical Examination Findings and Pain in Manual Wheelchair Users with Spinal Cord Injury, *Archives of Physical Medicine and Rehabilitation*, pp. 2086-2093, Vol. 89, No. 11, November 2008.
16. Ding D, Souza A, Cooper RA, Fitzgerald SG, Cooper RM, Kelleher AR, **Boninger ML**, Preliminary Study on the Impact of Pushrim Activated Power Assist Wheelchairs Among Individuals with Tetraplegia, *American Journal of Physical Medicine and Rehabilitation*, pp. 821-829, Vol. 87, No. 10, October 2008.

17. Hubbard SL, Fitzgerald SG, **Boninger ML**, Cooper RA, Relationship Between Quality of Wheelchair and Quality of Life, *Topics in Geriatric Rehabilitation*, Vol. 24, No. 3, pp. 264-278, July-September 2008.
18. Cooper RA, Cooper R, **Boninger ML**, Trends and Issues in Wheelchair Technologies, pp. 61-72, *Assistive Technology*, Vol. 20, No. 2, 2008.
19. Spaeth DM, Mahajan H, Karmarkar A, Collins DM, Cooper RA, **Boninger ML**, Development of a Wheelchair Virtual Driving Environment: Trials with Subjects with Traumatic Brain Injury, *Archives of Physical Medicine and Rehabilitation*, pp. 996-1003, Vol. 89, No. 5, May 2008.
20. *Collinger JL, **Boninger ML**, Koontz AM, Price R, Sisto SA, Tolerico M, Cooper RA, Shoulder Biomechanics During the Push Phase of Wheelchair Propulsion: A Multi-Site Study of Individuals with Paraplegia, *Archives of Physical Medicine and Rehabilitation*, pp. 667-676, Vol. 89, No. 4, April 2008.
21. Kim JB, Brienza JB, Lynch RD, Cooper RA, **Boninger ML**, Effectiveness Evaluation of a Remote Accessibility Assessment System for Wheelchair Users Using Virtualized Reality, *Archives of Physical Medicine and Rehabilitation*, pp. 470-479, Vol. 89, No. 3, March 2008.
22. *Cowan R, **Boninger ML**, Sawatzky BJ, Mazoyer BD, Cooper RA, Preliminary Outcomes of the SmartWheel Users' Group Database; a Proposed Framework for Clinicians to Objectively Evaluate Manual Wheelchair Propulsion, *Archives of Physical Medicine and Rehabilitation*, pp. 260-268, Vol. 89, No.2, February 2008.
23. Ambrosio F, **Boninger ML**, Fitzgerald SG, Hubbard S, Schwid S, Cooper RA, Comparison of Mobility Device Delivery Within the Department of Veterans Affairs for Individuals with Multiple Sclerosis Versus Spinal Cord Injury, *Journal of Rehabilitation Research and Development*, pp. 693-702, Vol. 44, No. 5, 2007.
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26. Koontz AM, Yang Y, Price R, Tolerico ML, DiGiovine CP, Sisto SA, Cooper RA, **Boninger ML**, Multi-site Comparison of Wheelchair Propulsion Kinetics in Persons with Paraplegia, *Journal of Rehabilitation Research and Development*, pp. 449-458, Vol. 44, No. 3, 2007.
27. Price R, Ashwell ZR, Chang MW, **Boninger ML**, Koontz AM, Sisto SA, Upper Limb Joint Power and its Distribution in Spinal Cord Injured Wheelchair Users: Steady Self-Selected Speed vs. Maximal Acceleration Trials, *Archives of Physical Medicine and Rehabilitation*, 88(4):456-63, April 2007.
28. Dicianno B, Spaeth DM, Cooper RA, Fitzgerald SG, **Boninger ML**, Brown K, Force Control Strategies While Driving Electric Powered Wheelchairs with Isometric and Movement Sensing Joysticks, *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, pp. 144-150, Vol. 15, No. 1, March 2007.
29. Gordon AT, Lutz GE, Cooper RA, **Boninger ML**, Introduction to Nanotechnology: Potential Applications in Physical Medicine and Rehabilitation, *American Journal of Physical Medicine and Rehabilitation*, pp. 225-241, Vol. 86, No. 3, March 2007.
30. Van Drongelen S, **Boninger ML**, Impink BG, Khalaf T, Acute Biceps Tendon Changes After Wheelchair Sports, *Archives of Physical Medicine and Rehabilitation*, pp. 318-385, Vol. 88, No. 3, March 2007.
31. Schopp L, Clark MJ, Hagglund KJ, Sherman AK, Stout BJ, Gray D, **Boninger ML**, Life Activities Among Individuals with Spinal Cord Injury Living in the Community: Perceived Choice and Perceived Barriers, *Rehabilitation Psychology*, pp. 82-88, Vol. 52, No. 1, February 2007.
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33. Cooper RA, **Boninger ML**, Spaeth DM, Ding D, Guo S, Koontz AM, Fitzgerald SG, Cooper R, Kelleher AR, Collins DM, Engineering Better Wheelchairs to Enhance Community Participation, *IEEE Transactions on Neural Systems and Rehabilitation Engineering*, pp. 454, Vol. 14, No. 4, December 2006.
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36. Yang Y, Koontz AM, Triolo RJ, Mercer J, **Boninger ML**, Surface Electromyography Activity of Trunk Muscles During Wheelchair Propulsion, *Clinical Biomechanics*, pp. 1032-1041, Vol. 21, No. 10, October 2006.
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39. Collins DM, Fitzgerald SG, Sachs-Ericsson N, Scherer M, Cooper RA, **Boninger ML**, Psychosocial Well-Being and Community Participation of Service Dog Partners, *Disability and Rehabilitation: Assistive Technology*, pp. 41-48, Vol. 1, No. 1-2, January-June 2006.
40. Cooper RA, **Boninger ML**, Cooper RM, Kelleher A, Use of the Independence 3000 IBOT™ Transporter at Home and in the Community: A Case Report, *Disability and Rehabilitation: Assistive Technology*, pp. 111-117, Vol. 1, No. 1-2, January-June 2006.
41. Cole TM, Kewman D, **Boninger ML**, Development of Medical Rehabilitation Research in 20th Century America, *American Journal of Physical Medicine and Rehabilitation*, pp. 940-954, Vol. 84, No. 12, December 2005.
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45. Pearlman JL, Cooper RA, Karnawat J, Cooper R, **Boninger ML**, Evaluation of the Safety and Durability of Low-Cost Nonprogrammable Electric Powered Wheelchairs, *Archives of Physical Medicine and Rehabilitation*, pp. 2361-2370, Vol. 86, No. 12, December 2005.
46. Wolf EJ, Pearlman J, Cooper RA, Fitzgerald SG, Kelleher AR, Collins DM, **Boninger ML**, Cooper R, Vibration Exposure of Individuals Using Wheelchairs Over Sidewalk Surfaces, *Disability and Rehabilitation*, pp. 1443-1449, Vol. 27, No. 23, December 2005.
47. Ambrosio F, **Boninger ML**, Souza AL, Fitzgerald SG, Koontz AM, Cooper RA, Biomechanics and Strength of Manual Wheelchair Users, *Journal of Spinal Cord Medicine*, pp. 407-414, Vol. 58, No. 5, 2005.
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49. **Boninger ML**, Koontz AM, Sisto SA, Dyson-Hudson TA, Chang M, Price R, Cooper RA, Pushrim Biomechanics and Injury Prevention in Spinal Cord Injury: Recommendations Based on CULP-SCI Investigations, *Journal of Rehabilitation Research and Development*, Vol. 42, No. 3 (Supplement 1), pp. 9-20, May/June 2005.

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52. *Souza AL, **Boninger ML**, Fitzgerald SG, Shimada SD, Cooper RA, Ambrosio F, Upper Limb Strength in Wheelchair Users with Spinal Cord Injury Who Use Manual Wheelchairs, *Journal of Spinal Cord Medicine*, Vol. 28, No. 1, pp. 26-32, 2005.
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54. *Kwarciak AM, Cooper RA, Ammer WA, Fitzgerald SG, **Boninger ML**, Cooper R, Fatigue Testing of Selected Suspension Manual Wheelchairs Using ANSI/RESNA Standards, *Archives of Physical Medicine and Rehabilitation*, Vol. 86, No. 1, pp. 123-129, January 2005.
55. Cooper RA, Wolf EJ, Fitzgerald SG, Kelleher AR, Ammer WA, **Boninger ML**, Cooper R, Technical Perspective: Evaluation of Selected Sidewalk Pavement Surfaces for Vibration Experienced by Users of Manual and Powered Wheelchairs, *Journal of Spinal Cord Medicine*, Vol. 27, No. 5, pp. 468-475, 2004.
56. Geyer MJ, Jan YK, Brienza D, **Boninger ML**, Using Wavelet Analysis to Characterize the Thermoregulatory Mechanisms of Sacral Skin Blood Flow, *Journal of Rehabilitation Research and Development*, Vol. 41, No. 6A, pp. 797-806, November/December 2004
57. *Wolf EJ, Cooper RA, DiGiovine CP, **Boninger ML**, Guo S, Using the Absorbed Power Method to Evaluate Effectiveness of Vibration Absorption of Selected Seat Cushions During Manual Wheelchair Propulsion, *Medical Engineering and Physics*, Vol. 26, No. 9, pp. 799-806, November 2004.
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59. *Algood SD, Cooper RA, Fitzgerald SG, Cooper R, **Boninger ML**, Impact of Pushrim-Activated Power-Assisted Wheelchair on the Metabolic Demands, Stroke Frequency, and Range of Motion Among Subjects with Tetraplegia, *Archives of Physical Medicine and Rehabilitation (Model Systems Issue)*, Vol. 85, No. 11, pp. 1865-1871, November 2004.
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84. Cooper RA, Spaeth DM, Jones DK, **Boninger ML**, Fitzgerald SG, Guo S, Technical Note: Comparison of Virtual and Real Electric Powered Wheelchair Driving Using a Position Sensing Joystick and an Isometric Joystick, *Medical Engineering and Physics*, Vol. 24, No. 10, pp. 703-708, December 2002.
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