

## Sampling of 2994 THRIM PUBLICATIONS:

**Impedance Systems** 37. L.D. Montgomery, H.M. Hanish, and J.W. Burns, "A system to measure lower body volume changes during rapid onset high G acceleration," Aviat. Space Environ. Med., 59:1098-102 (1988).

**Impedance Systems** 38. L.D. Montgomery, H.M. Hanish, and R.A. Marker, "An impedance device for study of multisegment hemodynamic changes during orthostatic stress," Aviat. Space Environ. Med., 60:1116-22 (1989).

**Cerebral EEG/REG** 39. L. D. Montgomery, R. W. Montgomery, W. A. Gerth, and R. Guisado, "Rheoencephalographic and electroencephalographic analysis of cognitive workload," Proceedings of The Third IEEE Symposium on Computer-Based Medical Systems, IEEE Computer Society Press, Los Angeles, 220-227, 1990.

**Impedance Systems** 40. W. A. Gerth, L. D. Montgomery, and Y. C. Wu, "A computer- based bioelectrical impedance spectroscopic system for noninvasive assessment of compartmental fluid redistribution," Proceedings of The Third IEEE Symposium on Computer-Based Medical Systems, IEEE Computer Society Press, Los Angeles, 446-453, 1990.

**Cerebral EEG/REG** 41. L.D. Montgomery and C.R. Gleason, "Simultaneous use of rheoencephalography and electroencephalography for the monitoring of cerebral function," Aviat. Space Environ. Med., 63; 314-321 (1992).

**LBNP** 42. A. Polese, H. Sandler, and L.D. Montgomery, "Hemodynamic responses to seated and supine lower body negative pressure: Comparison with +Gz acceleration," Aviat. Space Environ. Med., 63; 467-475 (1992).

**Cerebral EEG/REG** 43. R. W. Montgomery, L.D. Montgomery, and R. Guisado, "Cortical localization of cognitive function by regression of performance on event related potentials," Aviat. Space Environ. Med. 63; 919-924 (1992).

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**Cerebral EEG/REG** 45. L.D. Montgomery, R.W. Montgomery, and R. Guisado, "Continuous monitoring of cerebral blood flow: Correlation of rheoencephalographic activity during cognition," Journal of Clinical Engineering, 18(3): 235-244 (1993).

**Impedance Systems** 46. L. D. Montgomery, "Guest Editorial: Overview of the special issue on applications of bioelectrical impedance," Journal of Clinical Engineering, 18(3): 219 (1993).

**Cerebral EEG/REG** 51. L. D. Montgomery, R.W. Montgomery and R. Guisado, "Rheoencephalographic and electro-encephalographic measures of cognitive workload: Analytical procedures," Biological Psychology, 40: 143-159 (1995).

**Multiple Sclerosis** 53. Y.E. Ku, L.D. Montgomery, and B.W. Webbon, "Hemodynamic and thermal responses to head and neck cooling," Am. J. Phys. Med, Rehabil., 75: 443-450 (1996).

**Multiple Sclerosis** 54. Y.E. Ku, L.D. Montgomery, B.W. Webbon, and J.S. Burks, "Physiological and thermal responses of male and female MS patients to head and neck cooling," Am. J. Phys. Med. Rehabil., 78: 447 - 456 (1999).

**Multiple Sclerosis** 55. Y.E. Ku, L.D. Montgomery, H.C. Lee, B. Luna, and B.W. Webbon, "Physiologic and functional responses of MS patients to body cooling," Am. J. Phys. Med. Rehabil., 79: 427 - 434 (2000).

**Multiple Sclerosis** 57. NASA/MS Cooling Study Group, "A randomized controlled study of the acute and chronic effects of cooling therapy for MS," Neurology, 60:1955-1960 (2003).

**Effect Assessment using Impedance** 58. J.M. Stewart, M.S. Medow, and L.D. Montgomery, "Local vascular responses affecting blood flow in postural tachycardia syndrome," Am J Physiol Heart Circ Physiol, 285: H2749-H2756 (2003).

**Effect Assessment using Impedance** 59. J.M. Stewart, M.S. Medow, L.D. Montgomery, and K. McLeod, "Decreased skeletal muscle pump activity in patients with postural tachycardia and low peripheral blood flow," Am J Physiol Heart Circ Physiol. 286:H1216-H1222 (2004).

**Effect Assessment using Impedance** 60. J.M. Stewart, M.S. Medow, and L.D. Montgomery, "Regional blood volume and peripheral blood flow in the postural tachycardia syndrome," Am J Physiol Heart Circ Physiol. 287:H1319-H1327 (2004)

**Effect Assessment using Impedance** 61. J.M. Stewart, K.J. McLeod, S. Sanyal, G. Herzberg, L.D. Montgomery, "The relation of postural vasovagal syncope to splanchnic hypervolemia in adolescents," Circulation 110:2575-2581 (2004).

**Effect Assessment using Impedance** 62. J.M. Stewart, M.S. Medow, B. Bassett, and L.D. Montgomery, "The effect of thoracic blood volume on Valsalva maneuver," Am J Physiol Heart Circ Physiol. 287:H798-H804 (2004).

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**NEDU Tourniquet** 64. V.L. Ruterbusch, M.J. Swiergosz, L.D. Montgomery, K.W. Hopper, and W.A. Gerth, "ONR/MARCORSYSCOM evaluation of self-applied tourniquets for combat applications," Navy Experimental Diving Unit, NEDU TR 05-15, Naval Sea Systems Command, (November 2005).

**Effect Assessment using Impedance** 65. J. M. Stewart and L. D. Montgomery. "Reciprocal splanchnic-thoracic blood volume changes during the Valsalva maneuver". Am J Physiol Heart Circ Physiol. Feb; 288(2):H752-8. Epub 2004 Oct 7,(2005).

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**Cerebral EEG/REG** 67. L. J. Trejo, R. Kochavi, K. Kubitz, L. D. Montgomery, R. Rosipal, and B. Matthews. "EEG-based estimation of cognitive fatigue". Psychological Assessment. 5797:1 - 11 (2005).

**Effect Assessment using Impedance** 68. J.M. Stewart, M.S. Medow, J.L. Glover, and L.D. Montgomery, "Persistent splanchnic hyperemia during upright tilt in postural tachycardia syndrome," Am J Physiol Heart Circ Physiol. 290:H665-H673 (2006).

**LBNP** 69. I. Taneja, C. Moran, M. S. Medow, J. L. Glover, L. D. Montgomery and J. M. Stewart. "Differential effects of lower body negative pressure and upright tilt on splanchnic blood volume". Am J Physiol Heart Circ Physiol. 2007 Mar;292(3):H1420-6. Epub (Nov 3, 2006).

**Effect Assessment using Impedance** 70. J. M. Stewart, L. D. Montgomery, J. L. Glover and M. S. Stewart. "Changes in regional blood volume and blood flow during static handgrip". Am J Physiol Heart Circ Physiol. 2007 Jan;292(1):H215-23. Epub (Aug 25, 2006).

**Lymphoedema** 71. S. H. Ridner, L. D. Montgomery, J. T. Hepworth, B. R. Stewart and J. M. Armer. "Comparison of upper limb volume measurement techniques and arm symptoms between healthy volunteers and individuals with known lymphedema". Lymphology. 40(1):35-46 (March 2007).

**NEDU Tourniquet** 72. J. P. Hill, L.D. Montgomery, K.W. Hopper, and L. A. Roy, "Evaluation of self-applied tourniquets for combat applications, Second Phase". Navy Experimental Diving Unit, NEDU TR 07-07, Naval Sea Systems Command, (April 2007).

**Lymphoedema** 73. S. H. Ridner, L. D. Montgomery, J. T. Hepworth, B. R. Stewart and J. M. Armer. "Comparison of arm volume measurement techniques in lymphoedema". *Phlebology Digest*. 21(1):23-25 (2008).

**Lymphoedema** 74. L. D. Montgomery, M. S. Dietrich, J. M. Armer, B. R. Stewart and S. H. Ridner. "Segmental blood flow and hemodynamic state of lymphedematous and non-lymphedematous arms". *Lymphatic Research and Biology*, 9(1):31-42. (2011).

**Dialysis** 75. Montgomery LD, Gerth WA, Montgomery RW, Lew SQ, Klein MM, Stewart JM, Velasquez MT. Monitoring intracellular, interstitial, and intravascular volume changes during fluid management procedures *Med Biol Eng Comput*. 2013 Apr 3. [Epub ahead of print]