

Scientific Publications Using MindStreams®

Peer-Reviewed Papers (*interventional trials)

Mild Cognitive Impairment (MCI) and Dementia

Balash, Y., Mordechovich, M., Shabtai, H., Giladi, N., Gurevich, T., and Korczyn, A.D. (2013). Subjective memory complaints in elders: Depression, anxiety, or cognitive decline? *Acta Neurologica Scandinavica*, 127, 344-350.

Lifshitz, M., Dwolatzky, T., and Press, Y. (2012). Validation of the Hebrew version of the MoCA test as a screening instrument for the early detection of mild cognitive impairment in elderly individuals. *Journal of Geriatric Psychiatry and Neurology*, 25, 155-161.

Dwolatzky, T., Dimant, L., Simon, E.S., and Doniger, G.M. (2010). Validity of a short computerized assessment battery for moderate cognitive impairment and dementia. *International Psychogeriatrics*, 22, 795-803.

Balash, Y., Mordechovich, M., Shabtai, H., Merims, D., and Giladi, N. (2010). Subjective memory decline in healthy community-dwelling elders: What does this complaint mean? *Acta Neurologica Scandinavica*, 121, 194-197.

Doniger, G.M., Jo, M-Y., Simon, E.S., and Crystal, H.A. (2009). Computerized cognitive assessment of mild cognitive impairment in urban African Americans. *American Journal of Alzheimer's Disease and Other Dementias*, 24, 396-403.

Doniger, G.M., and Simon, E.S. (2009). Computerized cognitive testing in aging (letter). *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, 5, 439-440.

Fillit, H.M., Simon, E.S., Doniger, G.M., and Cummings, J.L. (2008). Practicality of a computerized system for cognitive assessment in the elderly. *Alzheimer's & Dementia: The Journal of the Alzheimer's Association*, 4, 14-21.

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Giladi, N., Mordechovich, M., Gruendlinger, L., Shabtai, H., Merims, D., Naor, S., Baltadzhieva, R., Hausdorff, J.M., Gur, A.Y., and Bornstein, N.M. (2006). "Brain Screen" – a self-referral, screening program for strokes, falls and dementia risk factors. *Journal of Neurology*, 253, 307-315.

Doniger, G.M., Zucker, D.M., Schweiger, A., Dwolatzky, T., and Simon, E.S. (2005). Towards practical cognitive assessment for detection of early dementia: A 30-minute computerized battery discriminates as well as longer testing. *Current Alzheimer Research*, 2, 117-124.

Schweiger, A., Doniger, G.M., Dwolatzky, T., Jaffe, D., and Simon, E.S. (2003). Reliability of a novel computerized neuropsychological battery for mild cognitive impairment. *Acta Neuropsychologica*, 1, 407-413.

Dwolatzky, T., Whitehead, V., Doniger, G.M., Simon, E.S., Schweiger, A., Jaffe, D., and Chertkow, H. (2003). Validity of a novel computerized cognitive battery for mild cognitive impairment. *BMC Geriatrics*, 3:4.

Attention Deficit Hyperactivity Disorder (ADHD) & Obsessive-Compulsive Disorder (OCD)

Abramovitch, A., Dar, R., Hermesh, H., and Schweiger, A. (2012). Comparative neuropsychology of adult obsessive-compulsive disorder and attention deficit/hyperactivity disorder. *Journal of Neuropsychology*, *6*, 161-191.

Abramovitch, A., Dar, R., Schweiger, A., and Hermesh, H. (2011). Neuropsychological impairments and their association with obsessive-compulsive symptom severity in obsessive-compulsive disorder. *Archives of Clinical Neuropsychology*, *26*, 364-376.

Abramovitch, A., and Schweiger, A. (2009). Unwanted intrusive and worrisome thoughts in adults with Attention Deficit Hyperactivity Disorder. *Psychiatry Research*, *168*, 230-233.

*Leitner, Y., Doniger, G.M., Barak R., Simon, E.S., and Hausdorff, J.M. (2007). Attention deficit hyperactivity disorder: Evidence for widespread and circumscribed deficits. *Journal of Child Neurology*, *22*, 264-276.

Schweiger, A., Abramovitch, A., Doniger, G.M., and Simon, E.S. (2007). A clinical construct validity study of a novel computerized battery for the diagnosis of ADHD in young adults. *Journal of Clinical and Experimental Neuropsychology*, *29*, 100-111.

Parkinson's Disease and Gait Disorders

*Seri-Fainshtat, E., Israel, Z., Weiss, A., and Hausdorff, J.M. (2013). Impact of sub-thalamic nucleus deep brain stimulation on dual tasking gait in Parkinson's disease. *Journal of Neuroengineering and Rehabilitation*, *10:38*.

Thaler, A., Mirelman, A., Simon, E., Orr-Urtreger, A., Gurevich, T., and Giladi, N. (2012). Lower cognitive performance in healthy G2019S *LRRK2* mutation carriers. *Neurology*, *79*, 1027-1032.

Mirelman, A., Herman, T., Brozgol, M., Dorfman, M., Sprecher, E., Schweiger, A., Giladi, N., and Hausdorff, J.M. (2012). Executive function and falls in older adults: New findings from a five-year prospective study link fall risk to cognition. *PLoS ONE*, *7:e40297*.

Oyama, G., Rodriguez, R.L., Jones, J.D., Swartz, C., Merritt, S., Unger, R., Hubmann, M., Delgado, A., Simon, E., Doniger, G.M., Bowers, D., Foote, K.D., Fernandez, H.H., and Okun, M.S. (2012). Selection of deep brain stimulation candidates in private neurology practices: Referral may be simpler than a computerized triage system. *Neuromodulation*, *5*, 246-250.

*Yogev-Seligmann, G., Giladi, N., Brozgol, M., and Hausdorff, J.M. (2012). A training program to improve gait while dual tasking in patients with Parkinson's disease: A pilot study. *Archives of Physical Medicine and Rehabilitation*, *93*, 176-181.

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*Plotnik, M., Dagan, Y., Gurevich, T., Giladi, N., and Hausdorff, J.M. (2011). Effects of cognitive function on gait and dual tasking abilities in patients with Parkinson's disease suffering from motor response fluctuations. *Experimental Brain Research*, *208*, 169-179.

Herman, T., Mirelman, A., Giladi, N., Schweiger, A., and Hausdorff, J.M. (2010). Executive control deficits as a prodrome to falls in healthy older adults. *Journals of Gerontology Series A: Biomedical Sciences and Medical Sciences*, *65A*, 1086-1092.

Srygley, J.M., Herman, T., Giladi, N., and Hausdorff, J.M. (2009). Self-report of missteps in older adults: A

valid proxy of fall risk? *Archives of Physical Medicine and Rehabilitation*, *90*, 786-792.

Plotnik, M., Giladi, N., and Hausdorff, J.M. (2009). Bilateral coordination of gait and Parkinson's disease: The effects of dual tasking. *Journal of Neurology, Neurosurgery, and Psychiatry*, *80*, 347-350.

*Hausdorff, J.M., Schweiger, A., Herman, T., Yogev-Seligmann, G., and Giladi, N. (2008). Dual-task decrements in gait: Contributing factors among healthy older adults. *The Journals of Gerontology Series A: Biological Sciences and Medical Sciences*, *63*, 1335-1343.

*Ben-Itzhak, R., Giladi, N., Gruendlinger, L., and Hausdorff, J.M. (2008). Can methylphenidate reduce fall risk in community-living older adults? A double-blind, single-dose cross-over study. *Journal of the American Geriatrics Society*, *56*, 695-700.

*Yogev, G., Plotnik, M., Peretz, C., Giladi, N., and Hausdorff, J.M. (2007). Gait asymmetry in patients with Parkinson's disease and elderly fallers: When does the bilateral coordination of gait require attention? *Experimental Brain Research*, *177*, 336-346.

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Hausdorff, J.M., Yogev, G., Springer, S., Simon, E.S., and Giladi, N. (2005). Walking is more like catching than tapping: Gait in the elderly as a complex cognitive task. *Experimental Brain Research*, *164*, 541-548.

Multiple Sclerosis

Achiron, A., Chapman, J., Tal, S., Bercovich, E., Gil, H., and Achiron, A. (2012). Superior temporal gyrus thickness correlates with cognitive performance in multiple sclerosis. *Brain Structure and Function*.

*Singer, B., Wray, S., Miller, T., Cascione, M., Gupta, A., Pardo, G., Watsky, E., Hayward, B., Mercer, B., and Dangond, F. (2012). Patient-rated ease of use and functional reliability of an electronic autoinjector for self-injection of subcutaneous interferon beta-1a for relapsing multiple sclerosis. *Multiple Sclerosis and Related Disorders*, *1*, 87-94.

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Depression and Mood Disorders

Osher, Y., Dobron, A., Belmaker, R.H., Bersudsky, Y., and Dwolatzky, T. (2011). Computerized testing of neurocognitive function in euthymic bipolar patients compared to those with mild cognitive impairment and cognitively healthy controls. *Psychology and Psychosomatics*, *80*, 298-303.

*Isserles, M., Rosenberg, O., Dannon, P., Levkovitz, Y., Kotler, M., Deutsch, F., Lerer, B., and Zangen, A. (2011). Cognitive-emotional reactivation during deep transcranial magnetic stimulation over the prefrontal cortex of depressive patients affects antidepressant outcome. *Journal of Affective Disorders*, *128*, 235-242.

*Paleacu, D., Shutzman, A., Giladi, N., Herman, T., Simon, E.S., and Hausdorff, J.M. (2007). Effects of pharmacologic therapy on gait and cognitive function in depressed patients. *Clinical Neuropharmacology*, *30*, 63-71.

Stroke

Klipper, E., Ben Bashat, D., Bornstein, N.M., Shenhar-Tsarfaty, S., Hallevi, H., Auriel, E., Shopin, L., Bloch, S., Berliner, S., Giladi, N., Goldbourt, U., Shapira, I., Korczyn, A.D., and Ben Assayag, E. (2013). Cognitive decline after stroke: Relation to inflammatory biomarkers and hippocampal volume. *Stroke*.

Shopin, L., Shenhar-Tsarfaty, S., Ben Assayag, E., Hallevi, H., Korczyn, A.D., Bornstein, N.M., and Auriel, E. (2013). Cognitive assessment following acute ischemic stroke/TIA: A comparison of the MoCA and the computerized "MindStreams" assessments. *Dementia and Geriatric Cognitive Disorders*.

Weinstein, G., Goldbourt, U., and Tanne, D. (2013). Body height and late-life cognition among patients with atherothrombotic disease. *Alzheimer Disease and Associated Disorders*.

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Schizophrenia

*Strous, R.D., Ritsner, M.S., Adler, S., Ratner, Y., Maayan, R., Kotler, M., Lachman, H., and Weizman, A. (2009). Improvement of aggressive behavior and quality of life impairment following S-Adenosyl-Methionine (SAM-e) augmentation in schizophrenia. *European Neuropsychopharmacology*, *19*, 14-22.

*Gibel, A., and Ritsner, M.S. (2008). Neurocognitive effects of ziprasidone and related factors in patients with chronic schizophrenia undergoing usual care: A 12-month, open-label, flexible-dose, naturalistic observational trial. *Clinical Neuropharmacology*, *31*, 204-220.

*Strous, R.D., Stryker, R., Maayan, R., Gal, G., Viglin, D., Katz, E., Eisner, D., and Weizman, A. (2007). Analysis of clinical symptomatology, extrapyramidal symptoms and neurocognitive dysfunction following dehydroepiandrosterone (DHEA) administration in olanzapine treated schizophrenia patient: A randomized, double-blind placebo controlled trial. *Psychoneuroendocrinology*, *32*, 96-105.

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Factitious Disorders

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*Hegedish, O., Doniger, G.M., and Schweiger, A. (2012). Detecting response bias on the Mindstreams battery. *Psychiatry, Psychology and Law*, 19, 262-282.

Other Clinical Research

Elstein, D., Doniger, G.M., and Altarescu, G. (2012). Cognitive testing in Fabry disease: Pilot using a brief computerized assessment tool. *Israel Medical Association Journal*, 14, 624-628.

*Koberda, J.L., Moses, A., Koberda, L., and Koberda, P. (2012). Cognitive enhancement using 19-electrode z-score neurofeedback. *Journal of Neurotherapy*, 16, 224-230.

*Flinn, F., and Armstrong, C. (2011). Junior doctors' extended work hours and the effects on their performance: The Irish case. *International Journal for Quality in Health Care*, 23, 210-217.

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*Vaisman, N., Katzman, H., Carmiel-Haggai, M., Lusthaus, M., and Niv, E. (2010). Breakfast improves cognitive function in cirrhotic patients with cognitive impairment. *American Journal of Clinical Nutrition*, 92, 137-140.

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Basic Research

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*Berry, A.S., Zanto, T.P., Clapp, W.C., Hardy, J.L., Delahunt, P.B., Mahncke, H.W., and Gazzaley, A. (2010). The influence of perceptual training on working memory in older adults. *PLoS ONE*, 5:e11537.

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Technical Reports

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Reviews

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Abstracts

Zucker, D.M., Doniger, G.M., and Simon, E.S. (2013). A proportional odds approach for estimating probability of cognitive health, MCI, and dementia associated with computerized cognitive testing score. *Alzheimer's Association International Conference on Alzheimer's Disease*, Boston, MA.

Mishan-Shamay, H., Doniger, G.M., Chalom, E., Simon, E.S., and Unger, R. (2013). A machine learning approach for integration of computerized cognitive data in the neuropsychological assessment of older adults. *Alzheimer's Association International Conference on Alzheimer's Disease*, Boston, MA.

Balash, Y., Korczyn, A., Shabtai, H., Gur, A., Bornstein, N., and Gurevich, T. (2013). Latent cognitive impairment: Association with carotid disease. *65th Annual Meeting of the American Academy of Neurology*, San Diego, CA.

Shlamkovitch, N. (2012). The effect of hyperbaric oxygen treatment (HBOT) on post traumatic central-type chronic disabling tinnitus. *6th International Tinnitus Research Initiative (TRI) Conference on Tinnitus*, Bruges, Belgium.

Gudesblatt, M., Pardini, M., Zarif, M., Bumstead, B., Thotam, S., Buhse, M., Fafard, L., Thippeswamy, G., Strober, L., DeLuca, J., Doniger, G., Topalli, I., and Sormani, M.P. (2012). Multiple sclerosis: Cognitive reserve and disease impact. *28th Congress of the European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS)*, Lyon, France.

Gudesblatt, M., Zarif, M., Bumstead, B., Thotam, S., Buhse, M., Fafard, L., and Doniger, G. (2012). Relapsing-remitting multiple sclerosis: Serial computerised assessment of cognitive changes with

natalizumab therapy. *28th Congress of the European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS)*, Lyon, France.

Gudesblatt, M., Zarif, M., Gorbatssevych, O., Bumstead, B., Buhse, M., Fafard, L., Topalli, I., and Doniger, G. (2012). Multiple Sclerosis Severity Scale: Cognition and employment correlates. *28th Congress of the European Committee for Treatment and Research in Multiple Sclerosis (ECTRIMS)*, Lyon, France.

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Zion-Cohen, M., Weiner, A., Kessler, M., Shabi, A., Avdar, M., and Schweiger, A. (2012). Sleep & objective measures of cognitive function among healthy adolescents. *26th Annual Meeting of the Professional Sleep Societies*, Boston, MA.

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Achiron, A., Chapman, J., Magalashvili, D., Dolev Dolgopiat, M., Lavie, M., Bercovich, E., Stern, Y., Kishner, I., Khilkevich, O., Menascu, S., Socher, A., Harari, G., Gurevich, M., and Barak, Y. (2012). Modeling long-term cognitive decline in multiple sclerosis: A population-based cross-sectional epidemiological study. *64th Annual Meeting of the American Academy of Neurology*, New Orleans, LA.

Chahin, S., Balcer, L., Zarif, M., Bumstead, B., Fafard, L., Mebrahtu, S., Galetta, S., Doniger, G., and Gudesblatt, M. (2012). Visual evoked-potential latency prolongation in MS: Correlation with cognitive performance on a computerized testing battery. *64th Annual Meeting of the American Academy of Neurology*, New Orleans, LA.

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Abramovitz, A., Miron, S., Levy, O., Assaf, Y., and Achiron, A. (2011). Brain microstructural changes associated with cognitive decline in multiple sclerosis. *5th Joint Triennial Congress of the European and Americas Committees for Treatment and Research in Multiple Sclerosis (ECTRIMS/ACTRIMS)*, Amsterdam, The Netherlands.

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Sarne-Fleischmann, V., Tractinsky, N., Dwolatzky, T., and Rief, I. (2011). Personalized reminiscence therapy for patients with Alzheimer's disease using a computerized system. Workshop on Alzheimer's Disease – Computer-assisted Early Diagnosis and the Use of Augmentative Alternative Communication (AAC) for Families and Patients. *4th International Conference on Pervasive Technologies Related to Assistive Environments (PETRA)*, Crete, Greece.

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Gudesblatt, M., Zarif, M., Bumstead, B., Simon, E.S., Topalli, I., and Doniger, G.M. (2011). Computerized assessment of longitudinal changes in cognitive function for natalizumab-treated patients with relapsing remitting multiple sclerosis. *63rd Annual Meeting of the American Academy of Neurology*, Honolulu, HI.

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