

HASOMED

RehaCom®

Effectiveness Studies

Publications with clinical application to RehaCom.

RehaCom has been used in Germany and throughout Europe for over 20 years. In Germany, RehaCom is used in 90% of Rehab Hospitals and has a long history of clinical utility. The research studies highlighted here provide evidence and insight into the utility of various RehaCom therapy modules with a variety of clinical populations. Some of the research studies support the use of cognitive rehabilitation (computerized and analog) in general as part of the therapeutic process with patients. RehaCom can best be thought of as a research based toolkit for use in providing efficient, standardized therapy and results tracking for patients suffering from cognitive deficits due to a variety of trauma or degenerative diseases. RehaCom can be an effective component of the overall treatment plan for these patients.

STROKE

Effects of neurofeedback and computer-assisted cognitive rehabilitation on relative brain wave ratios and activities of daily living of stroke patients: a randomized control trial

Hwi-Young Cho et al., *J Phys Ther Sci.* 2016 Jul; 28(7): 2154-2158

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Recovery after brain damage: Is there any indication for generalization between different cognitive functions?

Richter KM, et al.

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Clinical Efficacy of Acupuncture Treatment in Combination With RehaCom Cognitive Training for Improving Cognitive Function in Stroke: A 2 × 2 Factorial Design Randomized Controlled Trial

Cai Jiang et al., December 1, 2016 Volume 17, Issue 12, Pages 1114-1122

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The Effects of a Computer-assisted Cognition Training Program (RehaCom®) in Stroke Patients

Shin SH et al., *Brain Neurorehabil.* 2008 Sep;1(2):181-189.

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The Effects of Computerized Cognitive Rehabilitation Program (RehaCom) on Executive Function in Stroke Patients

Jung et al., *Journal of Special Education & Rehabilitation Science* 53(1), 2014.03

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Effect of computerized cognitive rehabilitation program on cognitive function and activities of living in stroke patients

Chanuk Yoo et al., *Journal of Physical Therpay Science*, 27 (2015) 8 p. 2487-2489

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Effects of computer assisted cognitive rehabilitation on brain wave, memory and attention of stroke patients: a randomized control trial

Hwi-Young Cho et al., *Journal of Physical Therapy Science*, 27 (2015) Issue 4 Pages 1029–1032

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Analysis of central mechanism of cognitive training on cognitive impairment after stroke: Resting-state functional magnetic resonance imaging study

Lin et al., *Journal of International Medical Research*, 2014, Vol 42, No 3

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Effect of computerized cognitive rehabilitation program on cognitive function and activities of living in stroke patients

Chanuk Yoo et al., *Journal of Physical Therapy Science* (August 2015): 2487–2489.

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Working memory training and semantic structuring improves remembering future events, not past events

K.M. Richter et al., *Neurorehabil Neural Repair* (January 2015): 33–40. doi: 10.1177/1545968314527352.

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A Randomized Controlled Trial Comparing 2 Interventions for Visual Field Loss With Standard Occupational Therapy During Inpatient Stroke Rehabilitation

Claudia Mödden et al., *Neurorehabil & Neural Repair* (June 2012): 463–469.

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TRAUMATIC BRAIN INJURY (TBI)

Attention remediation following traumatic brain injury in childhood and adolescence

S. Galbiati et al., *Neuropsychology*. (January 2009): 40-9. doi: 10.1037/a0013409.

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Can impaired working memory functioning be improved by training? A meta-analysis with a special focus on brain injured patients

Weicker J1 et al., *Neuropsychology*. 2016 Feb;30(2):190-212. doi: 10.1037/neu0000227.

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Clinical Impact of RehaCom Software for Cognitive Rehabilitation of Patients with Acquired Brain Injury

Elizabeth Fernández et al., *MEDICC Review*, (October 2012): 32-35.

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Effectiveness of Cognitive Rehabilitation Following Acquired Brain Injury: A Meta-Analytic Re-Examination of Cicerone et al.'s (2000, 2005) systematic reviews

Martin L. Rohling et al., *American Psychological Association*, (2009) Vol. 23, No. 1: 20–39.

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Rehabilitation of TBI using RehaCom

Schuster, B. *Europa Medicophysica*; Turin Vol. 38, Iss. 1, (Mar 2002): 39.

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Working memory training and semantic structuring improves remembering future events, not past events

Richter KM et al., *Neurorehabil Neural Repair*. 2015 Jan;29(1):33-40. doi: 10.1177/1545968314527352. Epub 2014 Apr 2.

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SCHIZOPHRENIA

The effectiveness of computerized cognitive rehabilitation training program in improving cognitive abilities of schizophrenia clients.

Mohammadi MR et al., *J Psychiatry*. 2014 Oct;9(4):209-15.

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The efficacy of cognitive neurorehabilitation with RehaCom program in schizophrenia patients.

Mak M et al., *Psychiatr Pol.* 2013 Mar-Apr;47(2):213-23.

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The Effect of Attention Training Using Computer-Aided Cognitive Rehabilitation Program(REHACOM) in Chronic Schizophrenics

An SK et al., *J Korean Neuropsychiatr Assoc.* 1997 Jan;36(1):72-79. Korean.

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Impact of a new cognitive remediation strategy on interpersonal problem solving skills and social autonomy in schizophrenia

A. Cochet et al., *L'Encéphale* Volume 32, Issue 2, April 2006, Pages 189-195

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A randomized, controlled trial of computer-assisted cognitive remediation for schizophrenia

Thierry d'Amato et al., *Schizophrenia Research* vol. 125 (2011): 284-290.

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How can cognitive remediation therapy modulate brain activations in schizophrenia? An fMRI study.

Julie Bor et al., *Neuroimaging* 192 (2011): 160-166.

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Efficacy and specificity of computer-assisted cognitive remediation in schizophrenia: a meta-analytical study.

O. Grynszpan et al., *Psychological Medicine*, Cambridge University Press, 2010.

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MULTIPLE SCLEROSIS

A Randomised Controlled Trial of Efficacy of Cognitive Rehabilitation in Multiple Sclerosis: A Cognitive, Behavioural, and MRI Study

J. Campbell et al., *Neural Plasticity* Volume 2016, Article ID 4292585, 9 pages

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Cognitive Rehabilitation in Multiple Sclerosis: The Role of Plasticity

Nancy D. Chiaravalloti et al., *Front Neurol.* 2015; 6: 67. Published online 2015 Apr 2. doi: 10.3389/fneur.2015.00067

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Computer-Assisted Cognitive Rehabilitation of Attention Deficits for Multiple Sclerosis: A Randomized Trial With fMRI Correlates.

A. Cerasa et al., *Neurorehabil and Neural Repair* (May 2013): 284-95. doi: 10.1177/1545968312465194.

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Cognitive Rehabilitation in Multiple Sclerosis

Filipa Barbosa et al., *Sinapse*, Vol. 11, No. 1, (May 2011).

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Efficacy and specificity of intensive cognitive rehabilitation of attention and executive functions in multiple sclerosis.

Mattioli Flavia et al., *Journal of the Neurological Sciences* 288 (2010): 101-105.

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ADHD

Evaluation of a computer-based neuropsychological training in children with attention-deficit hyperactivity disorder (ADHD)

Frauke Amonn et al., *Neuro Rehabilitation* 32 (2013): 555-562, DOI:10.3233/NRE-130877

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The efficacy of cognitive training programs in children and adolescents: a meta-analysis.

D. Karch et al., *Dtsch Arztebl Int.* (September 2013): 643-52, doi: 10.3238/arztebl.2013.0643.

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DEMENTIA/ALZHEIMER'S

The Effects of Cognitive Rehabilitation Training on Cognitive Function of Elderly Dementia Patients

Byoung-Hoon Oh et al., *J Korean Neuropsychiatr. Assoc.* 2003, Vol 42, No 4, 514-519

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A randomised pilot study to assess the efficacy of an interactive, multimedia tool of cognitive stimulation in Alzheimer's disease

L.Tárraga et al., *Journal Neurol Neurosurg Psychiatry* (October 2006): 1116-21.

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DEPRESSION

Efficacy of Neurocognitive Remediation Therapy During an Acute Depressive Episode and Following Remission: Results From Two Randomised Pilot Studies

M. Semkovska et al., *European Psychiatry* March 28-31, 2015, Volume 30, Supplement 1, Page 403

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Online neurocognitive remediation therapy to improve cognition in community-living individuals with a history of depression: A pilot study

Maria Semkovska et al., *Internet Interventions* Volume 9, September 2017, Pages 7-14

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OTHER

Preliminary study of a rehabilitation program based on attentional processes to treat auditory hallucinations

López-Luengo B et al., *Cogn Neuropsychiatry.* 2016 Jul;21(4):315-334

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Acute social stress before the planning phase improves memory performance in a complex real life-related prospective memory task

Glienke K. et al., *Neurobiol Learn Mem.* 2016 Sep;133:171-81. doi: 10.1016/j.nlm.2016.06.025. Epub 2016 Jun 28.

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Is the Neuropsychological Treatment of Memory Specific or Unspecific? Comparing Treatment Effects on Memory and Attention.

V. Spahn et al., *Zeitschrift für Neuropsychologie*, 21 (4), (2010): 239-245.

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Neuropsychology in occupational rehabilitation: a new field of intervention?

S.V. Müller et al., *Rehabilitation* (Stuttg). (April 2007): 93-101.

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Memory enhancement in healthy older adults using a brain plasticity-based training program: A randomized, controlled study.

HW Mahncke et al., *Proc Natl Acad Sci* (August 2006):12523-8.

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Evidence-Based Cognitive Rehabilitation: Updated Review of the Literature From 1998 Through 2002.

Keith D. Cicerone et al., *Arch Phys Med Rehabil* Vol 86, (August 2005).

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