Comprehensive Neurofeedback Bibliography

D. Corydon Hammond, PhD
Professor, Physical Medicine & Rehabilitation
University of Utah School of Medicine

D. Allen Novian, PhD, LMFT, LPC-S

President
Novian Counseling & Consulting INC

Frank H. Duffy, M.D., Professor and Pediatric Neurologist at Harvard Medical School, stated in an editorial in the January 2000 issue of the journal Clinical Electroencephalography that the scholarly literature suggests that neurofeedback should play a major therapeutic role in many difficult areas. "In my opinion, if any medication had demonstrated such a wide spectrum of efficacy it would be universally accepted and widely used" (p. v). "It is a field to be taken seriously by all" (p. vii).

An objective guideline for evaluating the efficacy of neurofeedback treatments:

La Vaque, T. J., Hammond, D. C., Trudeau, D., Monastra, V., Perry, J., Lehrer, P., Matheson, D., & Sherman, R. (2002). Template for developing guidelines for the evaluation of the clinical efficacy of psychophysiological interventions. Applied Psychophysiology & Biofeedback, 27(4), 273–281.

Contents:

Comprehensive Neurofeedback Bibliography 1

ADD/ADHD, Learning & Developmental Disabilities 3

Addictive Disorders 13

Adverse Reactions and Side Effects 15

Anxiety 16

Autism and Asperger's 18

Chronic Fatigue Syndrome and Fibromyalgia 20

Cognitive Decline 21

Cognitive Enhancement 22

Criminals and Juvenile Offenders 30

Depression, Hemispheric Asymmetry 31

Dissociative Disorders 33

Epilepsy 35

Functional MRI (fMRI) Neurofeedback 39

Hemoencephalography 41

Hypertension 42

LENS (Low Energy Neurofeedback System) 43

LORETA Neurofeedback 44

Medical Conditions 45

Obsessive Compulsive Disorder 47

Optimal Functioning, Peak Performance 48

Parkinson's Dystonia 49

Post Traumatic Stress 50

Pain & Headache 51

rTMS 53

Schizophrenia 54

Sleep 55

Slow Cortical Potential Neurofeedback 56

TBI, Stroke, Coma, & Cerebral Palsy 58

Theoretical, Conceptual, Standards, & Review Articles 61

Tourette's Syndrome 66

Z-Score Neurofeedback 67

ADD/ADHD, Learning & Developmental Disabilities

Alegria AA, Wulff M, Brinson H, Barker GJ, Norman LJ, Brandeis D, Stahl D, David AS, Taylor E, Giampietro V, Rubia K. Real-time fMRI neurofeedback in adolescents with attention deficit hyperactivity disorder. Hum Brain Mapp. 2017 Jun;38(6):3190-3209.

Alhambra, M. A., Fowler, T. P., & Alhambra, A. A. (1995). EEG biofeedback: A new treatment option for ADD/ADHD. Journal of Neurotherapy, 1(2), 39–43.

Arns, M. (2012). EEG-based personalized medicine in ADHD: Individual alpha peak frequency as an endophenotype associated with nonresponse. Journal of Neurotherapy.

Arns, M., Conners, C. K., Kraemer, H.C. (2013). A decade of EEG theta/beta ratio research in ADHD: a meta-analysis. Journal of Attention Disorders, 17(5), 374-383. doi: 10.1177/1087054712460087

Arns, M, de Ridder, S, Strehl, U, Breteler, M, & Coenen, A. (2009). Efficacy of neurofeedback treatment in ADHD: The effects on inattention, impulsivity and hyperactivity: A meta-analysis. Clinical EEG and Neuroscience, 40(3) 180–189.

Arns, M, Feddema, I, & Kenemans, J. (2014) Differential effects of Theta/Beta and SMR neurofeedback in ADHD on sleep onset latency. Frontiers in Human Neuroscience 8:1019. doi:10.3389/fnhum.2014.01019

Barabasz, A., & Barabasz, M. (1996). Neurotherapy and alert hypnosis in the treatment of attention deficit disorder. Chapter in S. J. Lynn, I. Kirsch, & J. W. Rhue (Eds.), Casebook of Clinical Hypnosis. Washington, D.C.: American Psychological Association Press, 271–292.

Barabasz, A., & Barabasz, M. (2000). Treating AD/HD with hypnosis and neurotherapy. Child Study Journal, 30(1), 25–42.

Beauregard, M., & Levesque, J. (2006). Functional magnetic resonance imaging investigation of the effects of neurofeedback training on the neural bases of selective attention and response inhibition in children with attention-deficit/hyperactivity disorder. Applied Psychophysiology & Biofeedback, 31(1), 3–20.

Becerra J, Fernndez T, Harmony T, Caballero MI, Garcia F, Fernandez-Bouzas A, Santiago-Rodriguez E, Prado-Alcalá RA. (2006) "Follow-up study of Learning Disabled children treated with Neurofeedback or placebo." Clinical EEG & Neuroscience, 37 (3), 198–203.

Bhayee S, Tomaszewski P, Lee DH, Moffat G, Pino L, Moreno S, Farb NA. Attentional and affective consequences of technology supported mindfulness training: a randomised, active control, efficacy trial. BMC Psychol. 2016 Nov 29;4(1):60.

Bink, M., Nieuwenhuizen, C., Popma, A., Bongers, I., Boxtel, G. (2015). Behavioral effects of neurofeedback in adolescents with ADHD: a randomized controlled trial. European Child & Adolescent Psychiatry, 24(9), 1035-1048. doi: 10.1007/s00787-014-0655-3

Boyd, W. D., & Campbell, S. E. (1998). EEG biofeedback in the schools: The use of EEG biofeedback to treat ADHD in a school setting. Journal of Neurotherapy, 2(4), 65–71.

Breteler, M. H. M., Arns, M., Peters, S., Giepmans, I., & Verhoeven, L. (2010). Improvements in spelling after QEEG-based neurofeedback in dyslexia: A randomized controlled treatment study. Applied Psychophysiology & Biofeedback, 35(1), 5–11.

Breteler, R., Pesch, W., Nadorp, M. (2012) Neurofeedback in residential children and adolescents with mild mental retardation and ADHD behavior. Journal of Neurotherapy.

Carmody, D. P., Radvanski, D. C., Wadhwani, S., Sabo, J. J., & Vergara, L. (2001). EEG biofeedback training and attention-deficit/hyperactivity disorder in an elementary school setting. Journal of Neurotherapy, 4(3), 5–27.

Carter, J. L., & Russell, H. L. (1991). Changes in verbal performance IQ discrepancy scores after left hemisphere frequency control training: A pilot report. American Journal of Clinical Biofeedback, 4(1), 66–67

Coben, R., Wright, E. K., Decker, S. L., Morgan, T. (2015). The Impact of Coherence Neurofeedback on Reading Delays in Learning Disabled Children: A Randomized Controlled Study. NeuroRegulation 2(4), 158-178.

Cunningham, M., & Murphy, P. (1981). The effects of bilateral EEG biofeedback on verbal, visuospatial and creative skills in LD male adolescents. Journal of Learning Disabilities, 14(4), 204–208.

Drechsler R, Straub M, Doehnert M, Heinrich H, Steinhausen H, Brandeis D. (2007). Controlled evaluation of a neurofeedback training of slow cortical potentials in children with ADHD. Behavioral & Brain Functions, 3, 35.

Dupuy, E. F., & Clarke, A.(2012). EEG activity in females with attention-deficit/ hyperactivity disorder.

Duric NS, Assmus J, Gundersen D, Duric Golos A, Elgen IB. Multimodal treatment in children and adolescents with attention-deficit/hyperactivity disorder: a 6-month follow-up. Nord J Psychiatry. 2017 Jul;71(5):386-394. doi: 10.1080/08039488.2017.1305446. Epub 2017 Mar 27.

Egner, T., & Gruzelier, J. H. (2001). Learned self-regulation of EEG frequency Components affects attention and event-related brain potentials in humans. NeuroReport, 12, 4155–4159.

Egner, T., & Gruzelier, J. H. (2004). EEG biofeedback of low beta band components: Frequency-specific effects on variables of attention and event-related brain potentials. Clinical Neurophysiology, 115, 131–139.

Escolano, C., Navarro-Gil, M., Garcia-Campayo, J., Congedo, M., Minguez, J. (2014). The effects of individual upper alpha neurofeedback in ADHD: an open-label pilot study. Applied Psychophysiology & Biofeedback, 39(3-4), 193-202. doi: 10.1007/s10484-014-9257-6

Eugene, A. L., Arns, M., Conners, K. deBeus, R., Hirshberg, L., Kerson, C. … Monastra, V. (2013). A proposed multisite double-blind randomized clinical trial of neurofeedback for ADHD: need, rationale, and strategy. Journal of Attention Disorders, 17(5), 420–436. doi: 10.1177/1087054713482580

Eugene, A. L., Lofthouse, N., Hersch, S., Pan, X., Hurt, E., Bates, B., … Grantier, C. (2013). EEG neurofeedback for ADHD: double-blind sham-controlled randomized pilot feasibility trial. Journal of Attention Disorders, 17(5), 410–419. doi: 10.1177/1087054712446173

Fehmi, L. G. (2007). Multichannel EEG phase synchrony training and verbally guided attention training for disorders of attention. Chapter in J. R. Evans (Ed.), Handbook of Neurofeedback. Binghampton, NY: Haworth Medical Press, 301–319.

Fehmi, L. G. (1978). EEG biofeedback, multichannel synchrony training, and attention. Chapter in A. A. Sugarman & R. E. Tarter (Eds.), Expanding Dimensions of Consciousness. New York: Springer.

Fehmi, L. G., & Selzer, F. A. (1980). Biofeedback and attention training. Chapter in S. Boorstein (Ed.), Transpersonal Psychotherapy. Palo Alto: Science and Behavior Books.

Fernandez, T., Herrera, W., Harmony, T., Diaz-Comas, L., Santiago, E., Sanchez, L., Bosch, J., Fernandez-Bouzas, A., Otero, G., Ricardo-Garcell, J., Barraza, C., Aubert, E., Galan, L., & Valdes, P. (2003). EEG and behavioral changes following neurofeedback treatment in learning disabled children. Clinical Electroencephalography, 34(3), 145–150.

Fleischman, M. J., & Othmer, S. (2005). Case study: Improvements in IQ score and maintenance of gains following EEG biofeedback with mildly developmentally delayed twins. Journal of Neurotherapy, 9(4), 35–46.

Foks, M. (2005). Neurofeedback training as an educational intervention in a school setting: How the regulation of arousal states can lead to improved attention and behaviour in children with special needs. Educational & Child Psychology, 22(3), 6777.

Fox, D. J., Tharp, D. F., & Fox, L. C. (2005). Neurofeedback: An alternative and efficacious treatment for attention deficit hyperactivity disorder. Applied Psychophysiology & Biofeedback, 30(4), 365–274.

Fritson, K. K., Wadkins, T. A., Gerdes, P., & Hof, D. (2007). The impact of neurotherapy on college students' cognitive abilities and emotions. Journal of Neurotherapy, 11(4), 1–9.

Fuchs, T., Birbaumer, N., Lutzenberger, W., Gruzelier, J. H., & Kaiser, J. (2003). Neurofeedback treatment for attention deficit/hyperactivity disorder in children: A comparison with methylphenidate. Applied Psychophysiology and Biofeedback, 28, 112.

Gani C., Birbaumer N. & Strehl U.(2008). Long term effects after feedback of slow cortical potentials and of theta-beta amplitudes in children with attention-deficit/hyperactivity disorder(ADHD). International Journal of Bioelectromagnetism, 10(4), 209–232.

Geladé K, Janssen TW, Bink M, van Mourik R, Maras A, Oosterlaan J. Behavioral Effects of Neurofeedback Compared to Stimulants and Physical Activity in Attention-Deficit/ Hyperactivity Disorder: A Randomized Controlled Trial. J Clin Psychiatry. 2016 Oct; 77(10):e1270-e1277. doi: 10.4088/JCP.15m10149.

González-Castro, P., Cueli, M., Rodríguez, C., García, T., Álvarez, L. (2016). Efficacy of

neurofeedback versus pharmacological support in subjects with ADHD. Applied Psychophysiology & Biofeedback, 41(1),17-25. doi: 10.1007/s10484-015-9299-4

Gross, E., El-Baz-Ayman A, S., Sokhadze, G, E. (2012). Induced EEG gamma oscillation alignment improves differentiation between autism and ADHD group responses in a facial categorization task. Journal of Neurotherapy.

Hansen, L. M., Trudeau, D., & Grace, L. (1996). Neurotherapy and drug therapy in combination for adult ADHD, personality disorder, and seizure. Journal of Neurotherapy, 2(1), 6–14.

Heinrich, H., Gelvensleben, H, & Strehl, U. (2007). Annotation: Neurofeedback- train your brain to train behavior. Journal of Child Psychology & Psychiatry, 48(1), 3-16.

Heywood, C., Beale, I. (2003). EEG biofeedback vs. placebo treatment for attention

deficit/hyperactivity disorder: A pilot study. Journal of Attention, 7(1), 43-55. doi: 10.1177/108705470300700105

Hirshberg, L. M. (2007). Place of electroencephalographic biofeedback for attention-deficit/ hyperactivity disorder. Expert Review of Neurotherapeutics, 7(4), 315–319.

Hodgson, K., Hutchinson, A. D., Denson, L. (2012). Nonpharmacological treatments for

ADHD: a meta-analytic review. Journal of Attention Disorders, 18(4), 275-282. doi: 10.1177/1087054712444732

Hong, C., Lee, I. (2012). Effects of neurofeedback training on attention in children with intellectual disability. Journal of Neurotherapy

Jackson, G. M., & Eberly, D. A. (1982). Facilitation of performance on an arithmetic task as a result of the application of a biofeedback procedure to suppress alpha wave activity. Biofeedback & Self-Regulation, 7(2), 211–221.

Jacobs, E. H. (2005). Neurofeedback treatment of two children with learning, attention, mood, social, and developmental deficits. Journal of Neurotherapy, 9(4), 55–70.

Janssen TWP, Bink M, Weeda WD, Geladé K, van Mourik R, Maras A, Oosterlaan J. Learning curves of theta/beta neurofeedback in children with ADHD. Eur Child Adolesc Psychiatry. 2017 May;26(5):573-582. doi: 10.1007/s00787-016-0920-8. Epub 2016 Nov 19.

Kaiser, D. A., & Othmer, S. (2000). Effect of Neurofeedback on variables of attention in a large multi-center trial. Journal of Neurotherapy, 4(1), 5–15.

Kirk, L. (2007). Neurofeedback protocols for subtypes of attention deficit/hyperactivity disorder. Chapter in J. R. Evans (Ed.), Handbook of Neurofeedback. Binghampton, NY: Haworth Medical Press, 267–299.

Kotwal, D. B., Burns, W. J., & Montgomery, D. D. (1996). Computer-assisted cognitive training for ADHD: A case study. Behavior Modification, 20(1), 85–96.

Kropotov, J. D., Grin-Yatsenko, V. A., Ponomarev, V. A., Chutko, L. S., Yakovenko, E. A., & Nikishena, I. S. (2007). Changes in EEG spectograms, event-related potentials and event-related desynchronization induced by relative beta training in ADHD children. Journal of Neurotherapy, 11(2), 3–11.

Kropotov, J. D., Grin-Yatsenko, V. A., Ponomarev, V. A., Chutko, L. S., Yakovenko, E. A., Nildshena, I. S. (2005). ERPs correlates of EEG relative beta training in ADHD children. International Journal of Psychophysiology, 55(1), 23–34.

Kwon, H., Cho, J., Lee, E. (2009). EEG asymmetry analysis of the left and right brain activities during simple versus complex arithmetic learning. Journal of Neurotherapy, 13(2), 109–116.

La Marca, J. P., O'Connor, R. E. (2016). Neurofeedback as an Intervention to Improve Reading Achieement in Students with Attention Deficit Hyperactivity Disorder, Inattentive Subtype. NeuroRegulation 3(2), 55-77.

Lee EJ, Jung CH. Additive effects of neurofeedback on the treatment of ADHD: A randomized controlled study. Asian J Psychiatr. 2017 Feb;25:16-21. doi: 10.1016/j.ajp.2016.09.002. Epub 2016 Sep 30.

Leins, U., Goth, G., Hinterberger, T., Klinger, C., Rumpf, N., & Strehl, U. (2007). Neurofeedback for children with ADHD: A comparison of SCP and theta/beta protocols. Applied Psychophysiology & Biofeedback, 32(2), 73–88.

Levesque, J., Beauregard, M., & Mensour, B. (2006). Effect of neurofeedback training on the neural substrates of selective attention in children with attention–deficit/hyperactivity disorder: a functional magnetic resonance imaging study. Neuroscience Letters, 394(3), 216–221.

Linden, M., Habib, T., & Radojevic, V. (1996). A controlled study of the effects of EEG biofeedback on cognition and behavior of children with attention deficit disorder and learning disabilities. Biofeedback & Self-Regulation, 21(1), 35–49.

Lofthouse, N., Eugene, A.L., Hersch, S., Hurt, E., DeBeus, R. (2012). A review of

neurofeedback treatment for pediatric ADHD. Journal of Attention Disorders, 16(5), 351–372. doi: 10.1177/1087054711427530

Loo, S., & Barkley, R. (2005). Clinical utility of EEG in attention deficit hyperactivity disorder. Applied Neuropsychology, 12(2), 64–76.

Lubar, J. F. (1985). EEG biofeedback and learning disabilities. Theory into Practice, 26, 106–111

Lubar, J. F. (1995). Neurofeedback for the management of attention-deficit/hyperactivity disorders. Chapter in M. S. Schwartz (Ed.), Biofeedback: A Practitioner's Guide. New York, Guilford, 493–522.

Lubar, J. F. (2003). Neurofeedback for the management of attention-deficit / hyperactivity disorders. Chapter in M. S. Schwartz & F. Andrasik (Eds.), Biofeedback: A Practitioner's Guide (Third Edition New York, Guilford), 409–437.

Lubar, J. O., & Lubar, J. F. (1984). Electroencephalographic biofeedback of SMR and beta for treatment of attention deficit disorders in a clinical setting. Biofeedback & Self-Regulation, 9, 1–23.

Lubar, J. F., & Shouse, M. N. (1976). EEG and behavioral changes in a hyperactive child concurrent with training of the sensorimotor rhythm (SMR): A preliminary report. Biofeedback & Self-Regulation, 1(3), 293–306.

Lubar, J. F., & Shouse, M. N. (1977). Use of biofeedback in the treatment of seizure disorders and hyperactivity. Advances in Clinical Child Psychology, 1, 204–251.

Lubar, J. F., Swartwood, M. O., Swartwood, J. N., & O'Donnell, P. H. (1995). Evaluation of the effectiveness of EEG neurofeedback training for ADHD in a clinical setting as measured by changes in T.O.V.A., scores, behavioral ratings, and WISC-R performance. Biofeedback & Self-Regulation, 20(1), 83–99.

Lutzenberger W, Elbert T, Rockstroh B, Birbaumer N. (1982) Biofeedback produced slow brain potentials and task performance. Biological Psychology, 14, 99–111.

Malyutina, S. den Ouden, D.B. (2015). High-Definition tDCS of Noun and Verb Retrieval in Naming and Lexical Decision. NeuroRegulation 2(3), 111-125.

Mayer, K., Wyckoff, S. N. (2012). Neurofeedback for adult attention-deficit/hyperactivity disorder: Investigation of slow cortical potential neurofeedback-Preliminary results. Journal of Neurotherapy

McKnight, J. T., & Fehmi, L. G. (2001). Attention and neurofeedback synchrony training: Clinical results and their significance. Journal of Neurotherapy, 5(1–2), 45–62.

Mohagheghi A, Amiri S, Moghaddasi Bonab N, Chalabianloo G, Noorazar SG,

Tabatabaei SM, Farhang S. A Randomized Trial of Comparing the Efficacy of Two Neurofeedback Protocols for Treatment of Clinical and Cognitive Symptoms of ADHD: Theta Suppression/Beta Enhancement and Theta Suppression/Alpha Enhancement. Biomed Res Int. 2017;2017:3513281. doi: 10.1155/2017/3513281. Epub 2017 Feb 9.

Monastra, V. J., (2005). Electroencephalographic biofeedback (neurotherapy) as a treatment for attention deficit hyperactivity disorder: Rationale and empirical foundation. Child & Adolescent Psychiatric Clinics of North America, 14(1), 55–82.

Monastra, V. J., Lynn, S., Linden, M., Lubar, J. F., Gruzelier, J., & LaVaque, T. J. (2005). Electroencephalographic biofeedback in the treatment of attention-deficit/hyperactivity disorder. Applied Psychophysiology & Biofeedback, 30(2), 95–114.

Monastra, V. J., Monastra, D. M., & George, S. (2002). The effects of stimulant therapy, EEG biofeedback, and parenting style on the primary symptoms of attentiondeficit/ hyperactivity disorder. Applied Psychophysiology & Biofeedback, 27(4), 231–249.

Moghanloo, M., Aguilar Vafaie, M. E., Rostami, R., & Farahani, H. (2014). Determination of the Effects of Neurofeedback Training in the Neuropsychological Rehabilitation in Inattentive and Combined Subtypes of Attention Deficit/Hyperativity Disorder. Journal of NeuroRegulation, 1(2), 131-150.

Mulholland, T. Goodman, D., & Boudrot, R. (1983). Attention and regulation of EEG alpha-attenuation responses. Biofeedback & Self-Regulation, 8(4), 585–600.

Nash, J. K. (2000). Treatment of attention-deficit hyperactivity disorder with neurotherapy. Clinical Electroencephalography, 31(1), 30–37.

Norris, S. L., Lee, C-T., Burshteyn, D., & Cea-Aravena, J. (2001). The effects of performance enhancement training on hypertension, human attention, stress, and brain wave patterns: A case study. Journal of Neurotherapy, 4(3), 29–44.

Norris, S. L., Lee, C., Cea, J., & Burshteyn, D. (1998). Performance enhancement training effects on attention: A case study. Journal of Neurotherapy, 3(1), 19–25.

Orlando, P. C., & Rivera, R. O. (2004). Neurofeedback for elementary students with identified learning problems. Journal of Neurotherapy, 8(2), 5–19.

Othmer, S., Othmer, S. F., & Kaiser, D. A. (1999). EEG biofeedback: Training for AD/HD and related disruptive behavior disorders. Chapter in J. A. Incorvaia & B. F. Mark-Goldstein, & D. Tessmer (Eds.), Understanding, Diagnosing, & Treating AD/HD in Children and Adolescents. New York: Aronson, 235–297

Patrick, G. J. (1996). Improved neuronal regulation in ADHD: An application of 15 sessions of photic-driven EEG neurotherapy. Journal of Neurotherapy, 1(4), 27–36.

Perreau-Linck, E., Lessard, N., Lévesque, J., Beauregard, M. (2010). Effects of neurofeedback training on inhibitory capacities in ADHD children: A single-blind, randomized, placebo-controlled study. Journal of Neurotherapy, 14(3), 229–242.

Pigott, E. H., Bodenhamer-Davis, E., Davis, E. (2013). Ending the evidentiary & insurance reimbursement bias against neurofeedback to treat ADHD: It will take clinician action in addition to the compelling science. Journal of Neurotherapy

Pigott, E. H. & Cannon, R. (2014). Neurofeedback is the Best Available First-Line

Treatment for ADHD: What is the Evidence for this Claim?. Journal of NeuroRegulation, 1(1), 4-23.

Pigott, E. H. & Cannon, R. (2014). Neurofeedback Requires Better Evidence of Efficacy Before It Should Be Considered a Legitimate Treatment for ADHD: What is the Evidence for this Claim?. Journal of NeuroRegulation, 1(1), 25-45.

Pratt, R. R., Abel, H., & Skidmore, J. (1995). The effects of neurofeedback training with background music on EEG patterns of ADD and ADHD children. International Journal of Arts Medicine, 4(1), 24–31.

Pulvermuller, F., Mohr, B., Schleichert, H., & Veit, R. (2000). Operant conditioning of left-hemispheric slow cortical potentials and its effect on word processing. Biological Psychology, 53, 177–215.

Putman, J. A., Othmer, S. F., Othmer, S., & Pollock, V. E. (2005). TOVA results following interhemispheric bipolar EEG training. Journal of Neurotherapy, 9(1), 37–52.

Rasey, H. W., Lubar, J. E., McIntyre, A., Zoffuto, A. C., & Abbott, P. L. (1996). EEG biofeedback for the enhancement of attentional processing in normal college students. Journal of Neurotherapy, 1(3), 15–21.

Rockstroh, B., Elbert, T., Lutzenberger, W., & Birbaumer, N. (1990). Biofeedback: Evaluation and therapy in children with attentional dysfunction. Chapter in A. Rothenberger (Ed.), Brain and Behaviour in Child Psychiatry. Berlin: Springer Verlag, 345–357.

Ros T, Baars BJ, Lanius RA, & Vuilleumier P. (2014), Tuning pathological brain oscillations with neurofeedback: A systems neuroscience framework. Frontiers in Human Neuroscience 8(1008).

Rossiter, T. R. (2004). The effectiveness of neurofeedback and stimulant drugs in treating AD/HD: Part I. Review of methodological issues. Applied Psychophysiology & Biofeedback, 29(2), 135–140.

Rossiter, T. R. (2005). The effectiveness of neurofeedback and stimulant drugs in treating AD/HD: Part II. Replication. Applied Psychophysiology & Biofeedback, 29(4), 233–243.

Rossiter, T. (2002). Neurofeedback for AD/HD: A ratio feedback case study. Journal of Neurotherapy, 6(3), 9–35.

Rossiter, T. R. (1998). Patient directed neurofeedback for ADHD. Journal of Neurotherapy, 2(4), 54–63.

Rossiter, T. R., & La Vaque, T. J. (1995). A comparison of EEG biofeedback and psychostimulants in treating attention deficit/hyperactivity disorders. Journal of Neurotherapy, 1(1), 48–59.

Russell, H. L., & Carter, J. L. (1997). EEG driven audio-visual stimulation unit for enhancing cognitive abilities of learning disordered boys: Final report. Washington, D.C.: U.S. Department of Education (SBIR), Contract number RA94130002.

Russell-Chapin, L., Kemmerly, T., Wen-Ching, L., (2013). The effects of neurofeedback in the default mode network: pilot study results of medicated children with ADHD. Journal of Neurotherapy

Scheinbaum, S., Zecker, S., Newton, C. J., & Rosenfeld, P. (1995). A controlled study of EEG biofeedback as a treatment for attention-deficit disorders. In Proceedings of the 26th Annual Meeting of the Association for Applied Psychophysiology and Biofeedback, 131–134.

Sheer, D. E. (1975). Biofeedback training of 40-Hz EEG and behavior. Chapter in N. Burch & H. I. Altshuler (Eds.), Behavior and Brain Electrical Activity. New York: Plenum.

Sheer, D. E. (1977). Biofeedback training of 40-Hz EEG and behavior. Chapter in J. Kamiya et al., Biofeedback and Self-Control 1976/1977. An Annual Review. Chicago: Aldine.

Shin, D. I., Lee, J. H., Lee, S. M., Kim, I. Y., & Kim, S. I. (2004). Neurofeedback training with virtual reality for inattention and impulsiveness. Cyberpsychology & Behavior, 7(5), 519–526.

Shouse, M. N., & Lubar, J. F. (1979). Operant conditioning of EEG rhythms and Ritalin in the treatment of hyperkinesis. Biofeedback & Self-Regulation, 4(4), 299–311.

Stökl-Drax, T. (2014). QEEG and 19-Channel Neurofeedback as a Clinical Evaluation Tool for Children with Attention, Learning, and Emotional Problems. Journal of NeuroRegulation, 1(2), 173-182

Sokhadze, E. M., Baruth, J, M. (2012). Event-related potential study of attention regulation during illusory figure categorization task in ADHD, autism spectrum disorder, and typical children. Journal of Neurotherapy.

Stankus, T. (2008). Can the brain be trained? Comparing the literature on the use of EEG biofeedback/neurofeedback as an alternative or complementary therapy for attention deficit disorder (ADHD). Behavioral & Social Sciences Librarian, 26(4), 20–56.

Strehl, U., Leins, U., Goth, G., Klinger, C., Hinterberger, T., and Birbaumer, N. (2006). Self-regulation of slow cortical potentials: A new treatment for children with attentiondeficit/hyperactivity disorder. Pediatrics, 118, 1530–1540.

Surmeli, T., & Ertem, A. (2007). EEG neurofeedback treatment of patients with Down Syndrome. Journal of Neurotherapy, 11(1), 63–68.

Swatzyna, R.J., Tarnow, J.D., Roark, A., & Mardick, J. (2016). The Utility of EEG in Attention Deficit Hyperactivity Disorder: A Replication Study. Clinical EEG and Neuroscience. DOI 10.1177-1550059416640441.

Swingle, P. G. (2002). Parameters associated with rapid neurotherapeutic treatment of common ADD (CADD). Journal of Neurotherapy, 5(4), 73–84.

Swingle, P. G. (1996). Sub threshold 10-Hz sound suppresses EEG theta: Clinical application for the potentiation of neurotherapeutic treatment of ADD/ADHD. Journal of Neurotherapy, 2(1), 15–22.

Tansey, M. A. (1984). EEG sensorimotor rhythm biofeedback training: Some effects on the neurological precursors of learning disabilities. International Journal of Psychophysiology, 3, 85–99.

Tansey, M. A. (1985). Brainwave signatures—An index reflective of the brain=s functional neuroanatomy: Further findings on the effect of EEG sensorimotor rhythm biofeedback training on the neurologic precursors of learning disabilities. International Journal of Psychophysiology, 3, 85–89.

Tansey, M. A. (1990). Righting the rhythms of reason: EEG biofeedback training as a therapeutic modality in a clinical office setting. Medical Psychotherapy, 3, 57–68.

Tansey, M. A. (1991). Wechsler (WISC-R) changes following treatment of learning disabilities via EEG biofeedback in a private practice setting. Australian Journal of Psychology, 43, 147–153.

Tansey, M. A. (1993). Ten-year stability of EEG biofeedback results for a hyperactive boy who failed fourth grade perceptually impaired class. Biofeedback & Self-Regulation, 18, 33–44.

Tansey, M. A., & Bruner, R. L. (1983). EMG and EEG biofeedback training in the treatment of 10-year old hyperactive boy with a developmental reading disorder. Biofeedback & Self-Regulation, 8(1), 25–37.

Thompson, L., & Thompson, M. (1998). Neurofeedback combined with training in metacognitive strategies: Effectiveness in students with ADD. Applied Psychophysiology & Biofeedback, 23(4), 243–263.

Thornton, K. E., & Carmody, D. P. (2005). Electroencephalogram biofeedback for reading disability and traumatic brain injury. Child & Adolescent Psychiatric Clinics of North America, 14(1), 137–162.

Tinius, T. P., & Tinius, K. A. (2001). Changes after EEG biofeedback and cognitive retraining in adults with mild traumatic brain injury and attention deficit disorder. Journal of Neurotherapy, 4(2), 27–44.

Williams, J. (2010). Does neurofeedback help reduce attention-deficit hyperactivity disorder? Journal of Neurotherapy, 14(4), 261–279.

Vachon-Presseau, E., Achim, A., Benoit-Lajoie, A. (2009). Direction of SMR and beta change with attention in adults. Journal of Neurotherapy, 13(1), 22–29.

Valdez, M. (1985). Effects of biofeedback-assisted attention training in a college population. Biofeedback & Self-Regulation, 10(4), 315–324.

Vernon, D., Egner, T., Cooper, N., Compton, T., Neilands, C., Sheri, A., & Gruzelier, J. (2003). The effect of training distinct neurofeedback protocols on aspects of cognitive performance. International Journal of Psychophysiology, 47, 75–85.

Vollebregt, M. A., Dongen-Boomsma, M., Buitelaar, J.K., Slaats-Willemse, D. (2014). Does EEG-neurofeedback improve neurocognitive functioning in children with attention-deficit/hyperactivity disorder? a systematic review and a double-blind placebo-controlled study. Journal of Child Psychology and Psychiatry, 55(5), 460–472. doi:10.1111/jcpp.12143

Wadhwani, S., Radvanski, D. C., & Carmody, D. P. (1998). Neurofeedback training in a case of attention deficit hyperactivity disorder. Journal of Neurotherapy, 3(1), 42–49.

Walker, J. E., & Norman, C. A. (2006). The neurophysiology of dyslexia: A selective review with implications for neurofeedback remediation and results of treatment in twelve consecutive patients. Journal of Neurotherapy, 10(1), 45–55.

Warner, D.A., Barabasz, A., & Barabasz, M. (2000). The efficacy of Barabasz's alert hypnosis and neurotherapy on attentiveness, impulsivity and hyperactivity in children with ADHD. Child Study Journal, 30(1), 43–49.

Xiong, Z., Shi, S., & Xu, H. (2005). A controlled study of the effectiveness of EEG biofeedback training on children with attention deficit hyperactivity disorder. Journal of Huazhong University of Science & Technology, 25(3), 368–370.

Zilverstand A, Sorger B, Slaats-Willemse D, Kan CC, Goebel R, Buitelaar JK. fMRI Neurofeedback Training for Increasing Anterior Cingulate Cortex Activation in Adult Attention Deficit Hyperactivity Disorder. An Exploratory Randomized, Single-Blinded Study. PLoS One. 2017 Jan 26;12(1):e0170795. doi: 10.1371/journal.pone.0170795. eCollection 2017.

Addictive Disorders

Burkett, V. S., Cummins, J. M., Dickson, R. M., & Skolnick, M. (2005). An open clinical trial utilizing real-time EEG operant conditioning as an adjunctive therapy in the treatment of crack cocaine dependence. Journal of Neurotherapy, 9(2), 27–48.

Callaway, T.G, Bodenhamer-Davis, E. (2008). Long-term follow-up of a clinical replication of the Peniston Protocol for chemical dependency. Journal of Neurotherapy, 12(4), 243–259.

deBeus, R. J. (2007). Quantitative electroencephalography-guided versus Scott/Peniston neurofeedback with substance abuse outpatients: A pilot study. Biofeedback, 35(4), 146–151.

Fahrion, S. L., Walters, E. D., Coyne, L., & Allen, T. (1992). Alterations in EEG amplitude, personality factors and brain electrical mapping after alpha theta brainwave training: A controlled case study of an alcoholic in recovery. Alcoholism: Clinical & Experimental Research, 16, 547–552.

Fahrion, S. L. (1995). Human potential and personal transformation. Subtle Energies, 6, 55–88.

Goldberg, R. J., et al. (1976). Alpha conditioning as an adjunct treatment for drug dependence: Part I. International Journal of Addiction, 11, 1085–1089.

Goldberg, R. J., et al. (1977). Alpha conditioning as an adjunct treatment for drug dependence: Part II. International Journal of Addiction, 12, 195–204.

Horrell, T., El-Baz, A., Baruth, J., Tasman, A., Sokhadze, G., Stewart, C., Sokhadze, E. (2010). Neurofeedback effects on evoked and induced EEG gamma band reactivity to drug-related cues in cocaine addiction. Journal of Neurotherapy, 14(3), 195–216.

Kelly, M. J. (1997). Native Americans, neurofeedback, and substance abuse theory: Three year outcome of alpha/theta neurofeedback training in the treatment of problem drinking among Dine= (Navajo) people. Journal of Neurotherapy, 2(3), 24–60.

Lamontague, Y., Hand, I., Annable, L., et al. (1975). Physiological and psychological effects of alpha and EMG feedback training with college drug users: A pilot study. Canadian Psychiatric Association Journal, 20, 337–349.

Passini, F., Watson, C. G., Dehnel, L., Herder, J., & Watkins, B. (1977). Alpha wave biofeedback training therapy in alcoholics. Journal of Clinical Psychology, 33(1), 292299.

Peniston, E. G., & Kulkosky, P. J. (1989). Alpha-theta brainwave training and beta-endorphin levels in alcoholics. Alcohol: Clinical & Experimental Research, 13(2), 271279.

Peniston, E. G., & Kulkosky, P. J. (1991). Alcoholic personality and alpha-theta brainwave training. Medical Psychotherapy, 2, 37–55.

Peniston, E. G., Marrinan, D. A., Deming, W. A., & Kulkosky, P. J. (1993). EEG alpha-theta brainwave synchronization in Vietnam theater veterans with combat-related post-traumatic stress disorder and alcohol abuse. Advances in Medical Psychotherapy, 6, 37–50.

Saxby, E., & Peniston, E. G. (1995). Alpha-theta brainwave neurofeedback training: An effective treatment for male and female alcoholics with depressive symptoms. Journal of Clinical Psychology, 51(5), 685–693.

Schneider, F., Elbert, T., Heimann, H., Welker, A., Stetter, F., Mattes, R., Birbaumer, N., & Mann, K. (1993). Self-regulation of slow cortical potentials in psychiatric patients: Alcohol dependency. Biofeedback & Self-Regulation, 18, 23–32.

Scott, W., & Kaiser, D. (1998). Augmenting chemical dependency treatment with neurofeedback training. Journal of Neurotherapy, 3(1), 66.

Scott, W. C., Kaiser, D., Othmer, S., Sideroff, S. I. (2005) Effects of an EEG Biofeedback Protocol on a Mixed Substance Abusing Population. American Journal of Drug and Alcohol Abuse, 31(3), 455-469

Sokhadze, E., Stewart, C., Hollifield, M., Tasman, A. (2008). Event-related potential study of executive dysfunctions in a speeded reaction task in cocaine addiction. Journal of Neurotherapy, 12(4), 185–204.

Sokhadze, E., Singh, S., Stewart, C., Hollifield, M., El-Baz, A., Tasman, A. (2008). Attentional bias to drug-and stress-related pictorial cues in cocaine addiction comorbid with Posttraumatic Stress Disorder. Journal of Neurotherapy, 12(4), 205–225.

Sokhadze, E. M., Cannon R. L., & Trudeau D. L. (2008) EEG biofeedback as a treatment for Substance Use Disorders: review, rating of efficacy, and recommendations for further research. Journal of Neurotherapy, 12(1), 5–43.

Sokhadze, T. M., Stewart, C. M., & Hollifield, M. (2007). Integrating cognitive neuroscience and cognitive behavioral treatment with neurofeedback therapy in drug addiction comorbid with posttraumatic stress disorder: A conceptual review. Journal of Neurotherapy, 11(2), 13–44.

Sokhadze, T. M., Cannon, R. L., & Trudeau, D. L. (2008). EEG biofeedback as a treatment for substance use disorders: Review, rating of efficacy, and recommendations for further research. Applied Psychophysiology & Biofeedback, 33(1), 1–28.

Trudeau, D. L. (2008) Brainwave biofeedback for addictive disorder. Journal of Neurotherapy, 12(4), 181–183.

Trudeau, D. L. (2005). Applicability of brain wave biofeedback to substance use disorder in adolescents. Child & Adolescent Psychiatric Clinics of North America, 14(1), 125136.

Trudeau, D. L. (2000). The treatment of addictive disorders by brain wave biofeedback: A review and suggestions for future research. Clinical Electroencephalography, 31(1), 1322.

Watson, C. G., Herder, J., & Passini, F. T. (1978). Alpha biofeedback therapy in alcoholics: An 18-month follow-up. Journal of Clinical Psychology, 34(3), 765–769.

Adverse Reactions and Side Effects

Cannon, R. (2012). LORETA neurofeedback: odd reports, observations, and findings associated with spatial specific neurofeedback training. Journal of Neurotherapy, 16(2), 164-167.

Hammond, D. C., Stockdale, S., Hoffman, D., Ayers, M. E., & Nash, J. (2001). Adverse reactions and potential iatrogenic effects in neurofeedback training. Journal of Neurotherapy, 4(4), 57–69.

Hammond, D. C., & Kirk, L. (2008). First, do no harm: Adverse effects and the need for practice standards in neurofeedback. Journal of Neurotherapy, 12(1), 79–88.

Lubar, J. F., Shabsin, H. S., Natelson, S. E. et al. (1981). EEG operant conditioning in intractable epileptics. Archives of Neurology, 38, 700–704.

Lubar, J. F. & Shouse, M. N. (1976). EEG and behavioral changes in a hyperactive child concurrent with training of the sensorimotor rhythm (SMR): A preliminary report. Biofeedback & Self-Regulation, 1(3), 293–306.

Lubar, J. F., & Shouse, M. N. (1977). Use of biofeedback in the treatment of seizure disorders and hyperactivity. Advances in Clinical Child Psychology, 1, 204–251.

Matthews, T. V. (2007). Neurofeedback overtraining and the vulnerable patient. Journal of Neurotherapy, 11(3), 63–66

Ochs, L. (2007). Comment on “neurofeedback overtraining and the vulnerable patient. Journal of Neurotherapy, 11(3), 67–71.

Rogel, A., Guez, J., Getter, N., Keha, E., Cohen, T., Amor, T., Todder, D. (2015).Transient adverse side effects during neurofeedback training: a randomized, sham-controlled, double blind study. Applied Psychophysiology & Biofeedback, (40)3, 209-218. doi: 10.1007/s10484-015-9289-6

Todder, D., Levine, J., Dwolatzky, T., & Kaplan, Z. (2010). Case report: impaired memory and disorientation induced by delta band down-training over the temporal brain regions by neurofeedback treatment. Journal of Neurotherapy, 14(2), 153–155.

Whitsett, S. F., Lubar, J. F., Holder, G. S., & Natelson, S. (1982). A double-blind investigation of the relationship between seizure activity and the sleep EEG following EEG biofeedback training. Biofeedback & Self-Regulation, 7, 193–209.

Anxiety

Burti, L., & Siciliani, O. (1983). Increase in alpha-rhythm in anxious subjects using biofeedback: A preliminary study. Psichiatria Generale e dell Eta Evolutiva, 21(2–4), 79–97.

Chisholm, R. C., DeGood, D. E., & Hartz, M. A. (1977). Effects of alpha feedback training on occipital EEG, heart rate, and experiential reactivity to a laboratory stressor. Psychophysiology, 14(2), 157–163.

Dreis, S. M., Gouger, A. M., Perez, E. G., Ruso, G. M., Fitzsimmons, M. A., Jones, M. S. (2015) Using Neurofeedback to Lower Anxiety Symptoms Using Individualized qEEG Protocols: A Pilot Study. NeuroRegulation 2(3), 137-148.

Garrett, B. L., & Silver, M. P. (1976). The use of EMG and alpha biofeedback to relieve test anxiety in college students. Chapter in I. Wickramasekera (Ed.), Biofeedback, Behavior Therapy, and Hypnosis. Chicago: Nelson–Hall.

Hammond, D. C. (2005). Neurofeedback with anxiety and affective disorders. Child & Adolescent Psychiatric Clinics of North America, 14(1), 105–123.

Hardt, J. V., & Kamiya, J. (1978). Anxiety change through electroencephalographic alpha feedback seen only in high anxiety subjects. Science, 201, 79–81.

Holmes, D. S., Burish, T. G., & Frost, R. O. (1980). Effects of instructions and biofeedback in EEG-alpha production and the effects of EEG-alpha biofeedback training for controlled arousal in a subsequent stressful situation. Journal of Research in Personality, 14(2), 212–223.

Huang-Storms, L., Bodenhamer-Davis, E., Davis, R., & Dunn, J. (2006). QEEG-guided neurofeedback for children with histories of abuse and neglect: Neurodevelopmental rationale and pilot study. Journal of Neurotherapy, 10(4), 3–16.

Keller, I. (2001). Neurofeedback therapy of attention deficits in patients with traumatic brain injury. Journal of Neurotherapy, 5(1-2), 19–32.

Kerson, C., Sherman, R.A., Kozlowski, G.P. (2009). Alpha suppression and symmetry training for generalized anxiety symptoms. Journal of Neurotherapy, 13(3), 146–155.

Kirschbaum, J., & Gisti, E. (1973). Correlations of alpha percentage in EEG, alpha feedback, anxiety scores from MAS and MMQ. Archives fur Psychologie, 125(4), 263273.

McKnight, J. T., & Fehmi, L. G. (2001). Attention and neurofeedback synchrony training: Clinical results and their significance. Journal of Neurotherapy, 5(1–2), 45–62.

Mennella R, Patron E, Palomba D. Frontal alpha asymmetry neurofeedback for the reduction of negative affect and anxiety. Behav Res Ther. 2017 May;92:32-40. doi: 10.1016/j.brat.2017.02.002. Epub 2017 Feb 20.

Moore, N. C. (2000). A review of EEG biofeedback treatment of anxiety disorders. Clinical Electroencephalography, 31(1), 1–6.

Norris, S. L., Lee, C-T., Burshteyn, D., & Cea-Aravena, J. (2001). The effects of performance enhancement training on hypertension, human attention, stress, and brain wave patterns: A case study. Journal of Neurotherapy, 4(3), 29–44.

Plotkin, W. B., & Rice, K. M. (1981). Biofeedback as a placebo: Anxiety reduction facilitated by training in either suppression or enhancement of alpha brainwaves. Journal of Consulting & Clinical Psychology, 49, 590–596.

Rice, K. M., Blanchard, E. B., & Purcell, M. (1993). Biofeedback treatments of generalized anxiety disorder: Preliminary results. Biofeedback & Self-Regulation, 18, 93–105.

Sattlberger, E., & Thomas, J. E. (2000). Treatment of anxiety disorder with slow-wave suppression EEG feedback: A case study. Biofeedback, 28(4), 17–19.

Thomas, J. E., & Sattlberger, B. A. (1997). Treatment of chronic anxiety disorder with neurotherapy: A case study. Journal of Neurotherapy, 2(2), 14–19.

Valdez, M. (1988). A program of stress management in a college setting. Psychotherapy in Private Practice, 6(2), 43–54.

Vanathy, S., Sharma, P. S. V. N., & Kumar, K. B. (1998). The efficacy of alpha and theta neurofeedback training in treatment of generalized anxiety disorder. Indian Journal of Clinical Psychology, 25(2), 136–143.

White, E. K., Groeneveld, K. M., Tittle, R. K., Bolhuis, N. A., Martin, R. E., Royer, T. G., Fotuhi, M. (2017) Combined Neurofeedback and Hearth Rate Variability Training for Individuals with Symptoms of Anxiety and Depression: A Retrospective Study. NeuroRegulation 4(1) 37-55.

Autism and Asperger's

Baruth, J., Casanova, M., El-Baz, A., Horrell, T., Mathai, G., Sears, L., Sokhadze, E. (2010). Low-frequency repetitive transcranial magnetic stimulation modulates evoked gamma frequency oscillations in autism spectrum disorder. Journal of Neurotherapy, 14(3), 179–194.

Coben, R., Mohammad-Rezazadeh, I., Cannon, R. (2014). Using quantitative and analytic EEG methods in the understanding of connectivity in autism spectrum disorders: a theory of mixed over- and under-connectivity. Frontiers in Human Neuroscience 8:45. doi: 10.3389/fnhum.2014.00045.

Coben, R., & Myers, T. E. (2010). The relative efficacy of connectivity guided and symptom based EEG biofeedback for autistic disorders. Applied Psychophysiology & Biofeedback, 35(1), 13–23.

Coben, R., & Pudolsky, I. (2007). Assessment-guided neurofeedback for autistic spectrum disorder. Journal of Neurotherapy, 11(1), 5–23.

Coben, R. (2007). Connectivity-guided neurofeedback for autistic spectrum disorder. Biofeedback, 35(4), 131–135.

Coben, R. Sherlin, L., Hudspeth, W. J., McKeon, K., & Ricca, R. (2014) Connectivity-Guided EEG Biofeedback for Autism Spectrum Disorder: Evidence of Neurophysiological Changes. Journal of NeuroRegulation, 1(2) 109-130.

Drysdale, M,T,B., Martinez, Y, J., Thompson, L. (2012). The effects of humorous literature on emotion: A pilot project comparing children with asperger's syndrome before and after neurofeedback training and controls. Journal of Neurofeedback.

Friedrich, E., Sivanathan, A., Lim, T., Suttie, N., Louchart, S., Pillen, S., Pineda, J. (2015). An effective neurofeedback intervention to improve social interactions in children with autism spectrum disorder. Journal of Autism & Developmental Disorders, 45(12), 4084-4100. doi: 10.1007/s10803-015-2523-5

Frye, R., Rossignol, D., Casanova, M., Martin, V., Brown, G., Edelson, S., Coben, R., Lewine, J., Slattery, J., Lau, C., Hardy, P., Fatemi, S., Folsom, T., MacFabe, D., Adams, J. (2013). A review of traditional and novel treatments for seizures in autism spectrum disorder. Findings from a systematic review and expert panel. Public Health 1:31. doi: 10.3389/fpubh.00031

Goodman, M. S., Castro, N., Sloan, M., Sharma, R., Widdowson, M., Herrera, E., Pineda, J. A. (2018). A Neurovisceral Approach to Autism: Targeting Self-Regulation and Core Symptoms Using Neurofeedback and Biofeedback. NeuroRegulation 5(1), 9-29.

Jarusiewicz, G. (2007). Use of neurofeedback with autistic spectrum disorders. Chapter in J. R. Evans (Ed.), Handbook of Neurofeedback. Binghampton, NY: Haworth Medical Press, pp. 321–339.

Jarusiewicz, B. (2002). Efficacy of neurofeedback for children in the autistic spectrum: A pilot study. Journal of Neurotherapy, 6(4), 39–49.

Knezevic, B., Thompson, L., & Thompson, M. (2010). Pilot project to ascertain the utility of Tower of London Test to assess outcomes of neurofeedback in clients with Asperger's Syndrome. Journal of Neurotherapy, 14(3), 3–19.

Kouijzer, M. E. UJ., de Moor, J. M. H., Gerrits, B. J. L., Buitelaar, J. K., & van Schie, H. T. (2009). Long-term effects of neurofeedback treatment in autism. Research in Autism Spectrum Disorders, 3(2), 496–501.

Pineda J. A., Brang D, Hecht E, Edwards L, Carey S, Bacon M, Futagaki C, Suk D, Tom J, Birnbaum C, Rork A.(2008). Positive behavioral and electrophysiological changes following neurofeedback training in children with autism. Research in Autism Spectrum Disorders, 2, 557–581.

Scolnick, B. (2005). Effects of electroencephalogram biofeedback with Asperger's syndrome. International Journal of Rehabilitation Research, 28(2), 159–163.

Sichel, A. G., Fehmi, L. G., & Goldstein, D. M. (1995). Positive outcome with neurofeedback treatment of a case of mild autism. Journal of Neurotherapy, 1(1), 6064.

Sokhadze, E., Baruth, J., El-Baz, A., Horrell, T., Sokhadze, G., Carroll, T., Tasman, A., Sears, L., Casanova, M. (2010). Impaired error monitoring and correction function in Autism. Journal of Neurotherapy, 14(2), 79–95.

Sokhadze, E. M., Casanova, M. F., El-Baz, A. S., Farag, H. E., Li, X. & Wang, Y. (2016). TMS-based Neuromodulation of Evoked and Induced Gamma Oscillations and Event-related Potentials in Children with Autism. NeuroRegulation, 3.(3), 101-126.

Sokhadze, G., Casanova, M. F., Kelly, D., Casanova, E., Russell, B., Sokhadze E. M. (2017). Neuromodulation based on rTMS affects behavioral measures and autonomic nervous system activity in children with autism. NeuroRegulation 4(2), 65-78.

Sokhadze, E., El-Baz, A., Tasman, A., Sears, L., Wang, Y., Lamina, E., Casanova, M. (2014). Neuromodulation integrating rTMS and neurofeedback for the treatment of autism spectrum disorder: an exploratory study. Applied Psychophysiology & Biofeedback, 39(3-4), 237-257. doi: 10.1007/s10484-014-9264-7

Steiner, N., Frenette, E., Hynes, C., Pisarik, E., Tomasetti, K., Perrin, E., Rene, K. (2014). A pilot feasibility study of neurofeedback for children with autism. Applied Psychophysiology & Biofeedback, 39(2), 99-107. doi: 10.1007/s10484-014-9241-1

Wang, Y., Sokhadze, E. M., El-Baz, A. S., Li, X., Sears, L., Casanova, M. F., Tasman, A. (2015). Relative power of specific EEG bands and their ratios during neurofeedback training in children with Autism Spectrum Disorder. Frontiers in Human Neuroscience, 9, 723. doi:

Chronic Fatigue Syndrome and Fibromyalgia

Donaldson, C. C. S., Sella, G. E., & Mueller, H. H. (1998). Fibromyalgia: A retrospective study of 252 consecutive referrals. Canadian Journal of Clinical Medicine, 5 (6), 116127.

Hammond, D. C. (2001). Treatment of chronic fatigue with neurofeedback and self-hypnosis. NeuroRehabilitation, 16, 295–300.

James, L. C., & Folen, R. A. (1996). EEG biofeedback as a treatment for chronic fatigue syndrome: A controlled case report. Behavioral Medicine, 22(2), 77–81.

Kayrian, S., Dursun, E., Ermutlu, N., Dursun, N., & Karamursel, S. (2007). Neurofeedback in fibromyalgia syndrome. The Journal of the Turkish Society of Algology, 19(3), 47–53.

Mueller, H. H., Donaldson, C. C. S., Nelson, D. V., & Layman, M. (2001). Treatment of fibromyalgia incorporating EEG-driven stimulation: A clinical outcomes study. Journal of Clinical Psychology, 57(7), 933–952.

Tansey, M. A. (1993). Neurofeedback and chronic fatigue syndrome: New findings with respect to diagnosis and treatment. CFIDS Chronicle, 9, 30–32.

Zinn, M. A., Zinn, M. L., Jason, L. A. (2017). Small-World Network Analysis of Cortical Connectviity in Chronic Fatigue Syndrome using Quantitative EEG. NeuroRegulation 4(3-4), 125-137.

Cognitive Decline

Albert, A. O., Andrasik, F., Moore, J. L., & Dunn, B. R. (1998). Theta/beta training for attention, concentration and memory improvement in the geriatric population. Applied Psychophysiology & Biofeedback, 23(2), 109. Abstract.

Angelakis, E., Stathopoulou, S., Frymiare, J. L., Green, D. L., Lubar, J. F., & Kounios, J. (2007). EEG neurofeedback: A brief overview and an example of peak alpha frequency training for cognitive enhancement in the elderly. Clinical Neuropsychology, 21(1), 110129.

Budzynski, T., Budzynski, H. K., &l Tang, H-Y. (2007). Brain brightening: restoring the aging mind. Chapter in J. R. Evans (Ed.), Handbook of Neurofeedback. Binghampton, NY: Haworth Medical Press, 231–265.

Gomez-Pilar J, Corralejo R, Nicolas-Alonso LF, Álvarez D, Hornero R. Neurofeedback training with a motor imagery-based BCI: neurocognitive improvements and EEG changes in the elderly. Med Biol Eng Comput. 2016 Nov;54(11):1655-1666. Epub 2016 Feb 23.

Cognitive Enhancement

Albert, A. O., Andrasik, F., Moore, J. L., & Dunn, B. R. (1998). Theta/beta training for attention, concentration and memory improvement in the geriatric population. Applied Psychophysiology & Biofeedback, 23(2), 109. Abstract.

Alhambra, M. A., Fowler, T. P., & Alhambra, A. A. (1995). EEG biofeedback: A new treatment option for ADD/ADHD. Journal of Neurotherapy, 1(2), 39–43.

Arns, M., Kleinnijenhuis, M., Fallahpour, K., & Bretler, R. (2007). Golf performance enhancement and real-life neurofeedback training using personalized event-locked EEG profiles. Journal of Neurotherapy, 11(4), 11–18.

Barabasz, A., & Barabasz, M. (1996). Neurotherapy and alert hypnosis in the treatment of attention deficit disorder. Chapter in S. J. Lynn, I. Kirsch, & J. W. Rhue (Eds.), Casebook of Clinical Hypnosis. Washington, D.C.: American Psychological Association Press, 271–292.

Barabasz, A., & Barabasz, M. (2000). Treating AD/HD with hypnosis and neurotherapy. Child Study Journal, 30(1), 25–42.

Bazanova, O.M., Aftanas, L.I. (2010). Individual EEG alpha activity analysis for enhancement neurofeedback efficiency: Two case studies. Journal of Neurotherapy, 14(3), 244–253.

Beauregard, M., & Levesque, J. (2006). Functional magnetic resonance imaging investigation of the effects of neurofeedback training on the neural bases of selective attention and response inhibition in children with attention-deficit/hyperactivity disorder. Applied Psychophysiology & Biofeedback, 31(1), 3–20.

Becerra J, Fernndez T, Harmony T, Caballero MI, Garcia F, Fernandez-Bouzas A, Santiago-Rodriguez E, Prado-Alcalá RA. (2006) Follow-up study of Learning Disabled children treated with Neurofeedback or placebo. Clinical EEG & Neuroscience, 37 (3), 198–203.

Boyd, W. D., & Campbell, S. E. (1998). EEG biofeedback in the schools: The use of EEG biofeedback to treat ADHD in a school setting. Journal of Neurotherapy, 2(4), 65–71.

Breteler, M. H. M., Arns, M., Peters, S., Giepmans, I., & Verhoeven, L. (2010). Improvements in spelling after QEEG-based neurofeedback in dyslexia: A randomized controlled treatment study. Applied Psychophysiology & Biofeedback, 35(1), 5–11.

Budzynski, T. H. (1996). Brain brightening: Can neurofeedback improve cognitive process? Biofeedback, 24(2), 14–17.

Carmody, D. P., Radvanski, D. C., Wadhwani, S., Sabo, J. J., & Vergara, L. (2001). EEG biofeedback training and attention-deficit/hyperactivity disorder in an elementary school setting. Journal of Neurotherapy, 4(3), 5–27.

Carter, J. L., & Russell, H. L. (1991). Changes in verbal performance IQ discrepancy scores after left hemisphere frequency control training: A pilot report. American Journal of Clinical Biofeedback, 4(1), 66–67

Cunningham, M., & Murphy, P. (1981). The effects of bilateral EEG biofeedback on verbal, visuospatial and creative skills in LD male adolescents. Journal of Learning Disabilities, 14(4), 204–208.

Drechsler R, Straub M, Doehnert M, Heinrich H, Steinhausen H, Brandeis D. (2007). Controlled evaluation of a neurofeedback training of slow cortical potentials in children with ADHD. Behavioral & Brain Functions, 3, 35.

Escolano, C., Navarro-Gil, M., Garcia-Campayo, J., Minguez, J. (2014). The effects of a single

session of upper alpha neurofeedback for cognitive enhancement: a sham-controlled study. Applied Psychophysiology & Biofeedback. 39(3-4), 227-236. doi: 10.1007/s10484-014-9262-9

Egner, T., & Gruzelier, J. H. (2001). Learned self-regulation of EEG frequency Components affects attention and event-related brain potentials in humans. NeuroReport, 12, 4155–4159.

Egner, T., & Gruzelier, J. H. (2004). EEG biofeedback of low beta band components: Frequency-specific effects on variables of attention and event-related brain potentials. Clinical Neurophysiology, 115(1), 131–139.

Fehmi, L. G. (2007). Multichannel EEG phase synchrony training and verbally guided attention training for disorders of attention. Chapter in J. R. Evans (Ed.), Handbook of Neurofeedback. Binghampton, NY: Haworth Medical Press, 301–319.

Fehmi, L. G. (1978). EEG biofeedback, multichannel synchrony training, and attention. Chapter in A. A. Sugarman & R. E. Tarter (Eds.), Expanding Dimensions of Consciousness. New York: Springer.

Fehmi, L. G., & Selzer, F. A. (1980). Biofeedback and attention training. Chapter in S. Boorstein (Ed.), Transpersonal Psychotherapy. Palo Alto: Science and Behavior Books.

Fernandez, T., Herrera, W., Harmony, T., Diaz-Comas, L., Santiago, E., Sanchez, L., Bosch, J., Fernandez-Bouzas, A., Otero, G., Ricardo-Garcell, J., Barraza, C., Aubert, E., Galan, L., & Valdes, P. (2003). EEG and behavioral changes following neurofeedback treatment in learning disabled children. Clinical Electroencephalography, 34(3), 145–150.

Fleischman, M. J., & Othmer, S. (2005). Case study: Improvements in IQ score and maintenance of gains following EEG biofeedback with mildly developmentally delayed twins. Journal of Neurotherapy, 9(4), 35–46.

Foks, M. (2005). Neurofeedback training as an educational intervention in a school setting: How the regulation of arousal states can lead to improved attention and behaviour in children with special needs. Educational & Child Psychology, 22(3), 6777.

Fox, D. J., Tharp, D. F., & Fox, L. C. (2005). Neurofeedback: An alternative and efficacious treatment for attention deficit hyperactivity disorder. Applied Psychophysiology & Biofeedback, 30(4), 365–274.

Fritson, K. K., Wadkins, T. A., Gerdes, P., & Hof, D. (2007). The impact of neurotherapy on college students' cognitive abilities and emotions. Journal of Neurotherapy, 11(4), 1–9.

Fuchs, T., Birbaumer, N., Lutzenberger, W., Gruzelier, J. H., & Kaiser, J. (2003). Neurofeedback treatment for attention deficit/hyperactivity disorder in children: A comparison with methylphenidate. Applied Psychophysiology and Biofeedback, 28, 112.

Gani C, Birbaumer N & Strehl U.(2008). Long term effects after feedback of slow cortical potentials and of theta-beta amplitudes in children with attention-deficit/hyperactivity disorder(ADHD). International Journal of Bioelectromagnetism, 10(4), 209–232.

Guez, J., Rogel, A., Getter, N., Keha, E., Cohen, T., Amor, T.,…Todder, D. (2015).

Influence of electroencephalography neurofeedback training on episodic memory: a randomized, sham-controlled, double-blind study. Memory, 23(5), 683-694. doi: 10.1080/09658211.2014.921713

Hansen, L. M., Trudeau, D., & Grace, L. (1996). Neurotherapy and drug therapy in combination for adult ADHD, personality disorder, and seizure. Journal of Neurotherapy, 2(1), 6–14.

Hanslmayer, S., Sauseng, P., Doppelmayr, M., Schabus, M., & Klimesch, W. (2005). Increasing individual upper alpha by neurofeedback improves cognitive performance in human subjects. Applied Psychophysiology & Biofeedback, 30(1), 1–10.

Hirshberg, L. M. (2007). Place of electroencephalographic biofeedback for attention-deficit/hyperactivity disorder. Expert Review of Neurotherapeutics, 7(4), 315–319.

Hosseini SMH, Pritchard-Berman M, Sosa N, Ceja A, Kesler SR. Task-based neurofeedback training: A novel approach toward training executive functions. Neuroimage. 2016 Jul 1;134:153-159. doi: 10.1016/j.neuroimage.2016.03.035. Epub 2016 Mar 22.

Hsueh JJ, Chen TS, Chen JJ, Shaw FZ. Neurofeedback training of EEG alpha rhythm enhances episodic and working memory. Hum Brain Mapp. 2016 Jul;37(7):2662-75. doi:10.1002/hbm.23201. Epub 2016 Apr 1. Erratum in: Hum Brain Mapp. 2017 Jun;38(6):3315.

Jackson, G. M., & Eberly, D. A. (1982). Facilitation of performance on an arithmetic task as a result of the application of a biofeedback procedure to suppress alpha wave activity. Biofeedback & Self-Regulation, 7(2), 211–221.

Jacobs, E. H. (2005). Neurofeedback treatment of two children with learning, attention, mood, social, and developmental deficits. Journal of Neurotherapy, 9(4), 55–70.

Kaiser, D. A., & Othmer, S. (2000). Effect of Neurofeedback on variables of attention in a large multi-center trial. Journal of Neurotherapy, 4(1), 5–15.

Kirk, L. (2007). Neurofeedback protocols for subtypes of attention deficit/hyperactivity disorder. Chapter in J. R. Evans (Ed.), Handbook of Neurofeedback. Binghampton, NY: Haworth Medical Press, 267–299.

Kotwal, D. B., Burns, W. J., & Montgomery, D. D. (1996). Computer-assisted cognitive training for ADHD: A case study. Behavior Modification, 20(1), 85–96.

Kropotov, J. D., Grin-Yatsenko, V. A., Ponomarev, V. A., Chutko, L. S., Yakovenko, E. A., & Nikishena, I. S. (2007). Changes in EEG spectograms, event-related potentials and event-related desynchronization induced by relative beta training in ADHD children. Journal of Neurotherapy, 11(2), 3–11.

Kropotov, J. D., Grin-Yatsenko, V. A., Ponomarev, V. A., Chutko, L. S., Yakovenko, E. A., Nildshena, I. S. (2005). ERPs correlates of EEG relative beta training in ADHD children. International Journal of Psychophysiology, 55(1), 23–34.

Kwon, H., Cho, J., Lee, E. (2009). EEG asymmetry analysis of the left and right brain activities during simple versus complex arithmetic learning. Journal of Neurotherapy, 13(2), 109–116.

Leins, U., Goth, G., Hinterberger, T., Klinger, C., Rumpf, M., & Strehl, U. (2007). Neurofeedback for children with ADHD: A comparison of SCP and theta/beta protocols. Applied Psychophysiology & Biofeedback, 32

Leins, U., Goth, G., Hinterberger, T., Klinger, C., Rumpf, N., & Strehl, U. (2007). Neurofeedback for children with ADHD: A comparison of SCP and theta/beta protocols. Applied Psychophysiology & Biofeedback, 32(2), 73–88.

Levesque, J., Beauregard, M., & Mensour, B. (2006). Effect of neurofeedback training on the neural substrates of selective attention in children with attention–deficit/hyperactivity

disorder: a functional magnetic resonance imaging study. Neuroscience Letters, 394(3), 216–221.

Linden, M., Habib, T., & Radojevic, V. (1996). A controlled study of the effects of EEG biofeedback on cognition and behavior of children with attention deficit disorder and learning disabilities. Biofeedback & Self-Regulation, 21(1), 35–49.

Loo, S., & Barkley, R. (2005). Clinical utility of EEG in attention deficit hyperactivity disorder. Applied Neuropsychology, 12(2), 64–76.

Lubar, J. F. (1985). EEG biofeedback and learning disabilities. Theory into Practice, 26, 106–111

Lubar, J. F. (1995). Neurofeedback for the management of attention-deficit/hyperactivity disorders. Chapter in M. S. Schwartz (Ed.), Biofeedback: A Practitioner's Guide. New York, Guilford, 493–522.

Lubar, J. F. (2003). Neurofeedback for the management of attention-deficit / hyperactivity disorders. Chapter in M. S. Schwartz & F. Andrasik (Eds.), Biofeedback: A Practitioner's Guide (Third Edition. New York, Guilford, 409–437.

Lubar, J. O., & Lubar, J. F. (1984). Electroencephalographic biofeedback of SMR and beta for treatment of attention deficit disorders in a clinical setting. Biofeedback & Self-Regulation, 9, 1–23.

Lubar, J. F., & Shouse, M. N. (1976). EEG and behavioral changes in a hyperactive child concurrent with training of the sensorimotor rhythm (SMR): A preliminary report. Biofeedback & Self-Regulation, 1(3), 293–306.

Lubar, J. F., & Shouse, M. N. (1977). Use of biofeedback in the treatment of seizure disorders and hyperactivity. Advances in Clinical Child Psychology, 1, 204–251.

Lubar, J. F., Swartwood, M. O., Swartwood, J. N., & O'Donnell, P. H. (1995). Evaluation of the effectiveness of EEG neurofeedback training for ADHD in a clinical setting as measured by changes in T.O.V.A., scores, behavioral ratings, and WISC-R performance. Biofeedback & Self-Regulation, 20(1), 83–99.

Lutzenberger W, Elbert T, Rockstroh B, Birbaumer N. (1982) Biofeedback produced slow brain potentials and task performance. Biological Psychology, 14, 99–111.

McKnight, J. T., & Fehmi, L. G. (2001). Attention and neurofeedback synchrony training: Clinical results and their significance. Journal of Neurotherapy, 5(1–2), 45–62.

Monastra, V. J., (2005). Electroencephalographic biofeedback (neurotherapy) as a treatment for attention deficit hyperactivity disorder: Rationale and empirical foundation. Child & Adolescent Psychiatric Clinics of North America, 14(1), 55–82.

Monastra, V. J., Lynn, S., Linden, M., Lubar, J. F., Gruzelier, J., & LaVaque, T. J. (2005). Electroencephalographic biofeedback in the treatment of attention-deficit/hyperactivity disorder. Applied Psychophysiology & Biofeedback, 30(2), 95–114.

Monastra, V. J., Monastra, D. M., & George, S. (2002). The effects of stimulant therapy, EEG biofeedback, and parenting style on the primary symptoms of attentiondeficit/ hyperactivity disorder. Applied Psychophysiology & Biofeedback, 27(4), 231–249.

Mulholland, T. Goodman, D., & Boudrot, R. (1983). Attention and regulation of EEG alpha-attenuation responses. Biofeedback & Self-Regulation, 8(4), 585–600.

Nash, J. K. (2000). Treatment of attention-deficit hyperactivity disorder with neurotherapy. Clinical Electroencephalography, 31(1), 30–37.

Norris, S. L., Lee, C-T., Burshteyn, D., & Cea-Aravena, J. (2001). The effects of performance enhancement training on hypertension, human attention, stress, and brain wave patterns: A case study. Journal of Neurotherapy, 4(3), 29–44.

Norris, S. L., Lee, C., Cea, J., & Burshteyn, D. (1998). Performance enhancement training effects on attention: A case study. Journal of Neurotherapy, 3(1), 19–25.

Orlando, P. C., & Rivera, R. O. (2004). Neurofeedback for elementary students with identified learning problems. Journal of Neurotherapy, 8(2), 5–19.

Othmer, S., Othmer, S. F., & Kaiser, D. A. (1999). EEG biofeedback: Training for AD/HD and related disruptive behavior disorders. Chapter in J. A. Incorvaia & B. F. Mark-Goldstein, & D. Tessmer (Eds.), Understanding, Diagnosing, & Treating AD/HD in Children and Adolescents. New York: Aronson, 235–297

Patrick, G. J. (1996). Improved neuronal regulation in ADHD: An application of 15 sessions of photic-driven EEG neurotherapy. Journal of Neurotherapy, 1(4), 27–36.

Perreau-Linck, E., Lessard, N., Lévesque, J., Beauregard, M. (2010). Effects of neurofeedback training on inhibitory capacities in ADHD children: A single-blind, randomized, placebo-controlled study. Journal of Neurotherapy, 14(3), 229–242.

Pratt, R. R., Abel, H., & Skidmore, J. (1995). The effects of neurofeedback training with background music on EEG patterns of ADD and ADHD children. International Journal of Arts Medicine, 4(1), 24–31.

Pulvermuller, F., Mohr, B., Schleichert, H., & Veit, R. (2000). Operant conditioning of left-hemispheric slow cortical potentials and its effect on word processing. Biological Psychology, 53, 177–215.

Putman, J. A., Othmer, S. F., Othmer, S., & Pollock, V. E. (2005). TOVA results following interhemispheric bipolar EEG training. Journal of Neurotherapy, 9(1), 37–52.

Rasey, H. W., Lubar, J. E., McIntyre, A., Zoffuto, A. C., & Abbott, P. L. (1996). EEG biofeedback for the enhancement of attentional processing in normal college students. Journal of Neurotherapy, 1(3), 15–21.

Rockstroh, B., Elbert, T., Lutzenberger, W., & Birbaumer, N. (1990). Biofeedback: Evaluation and therapy in children with attentional dysfunction. Chapter in A. Rothenberger (Ed.), Brain and Behaviour in Child Psychiatry. Berlin: Springer Verlag, 345–357.

Rossiter, T. R. (2004). The effectiveness of neurofeedback and stimulant drugs in treating AD/HD: Part I. Review of methodological issues. Applied Psychophysiology & Biofeedback, 29(2), 135–140.

Rossiter, T. R. (2005). The effectiveness of neurofeedback and stimulant drugs in treating AD/HD: Part II. Replication. Applied Psychophysiology & Biofeedback, 29(4), 233–243.

Rossiter, T. (2002). Neurofeedback for AD/HD: A ratio feedback case study. Journal of Neurotherapy, 6(3), 9–35.

Rossiter, T. R. (1998). Patient directed neurofeedback for ADHD. Journal of Neurotherapy, 2(4), 54–63.

Rossiter, T. R., & La Vaque, T. J. (1995). A comparison of EEG biofeedback and psychostimulants in treating attention deficit/hyperactivity disorders. Journal of Neurotherapy, 1(1), 48–59.

Russell, H. L., & Carter, J. L. (1997). EEG driven audio-visual stimulation unit for enhancing cognitive abilities of learning disordered boys: Final report. Washington, D.C.: U.S. Department of Education (SBIR), Contract number RA94130002.

Scheinbaum, S., Zecker, S., Newton, C. J., & Rosenfeld, P. (1995). A controlled study of EEG biofeedback as a treatment for attention-deficit disorders. In "Proceedings of the 26th Annual Meeting of the Association for Applied Psychophysiology and Biofeedback" 131–134.

Sheer, D. E. (1975). Biofeedback training of 40-Hz EEG and behavior. Chapter in N. Burch & H. I. Altshuler (Eds.), Behavior and Brain Electrical Activity. New York: Plenum.

Sheer, D. E. (1977). Biofeedback training of 40-Hz EEG and behavior. Chapter in J. Kamiya et al., Biofeedback and Self-Control 1976/1977. An Annual Review. Chicago: Aldine.

Shin, D. I., Lee, J. H., Lee, S. M., Kim, I. Y., & Kim, S. I. (2004). Neurofeedback training with virtual reality for inattention and impulsiveness. Cyberpsychology & Behavior, 7(5), 519–526.

Shouse, M. N., & Lubar, J. F. (1979). Operant conditioning of EEG rhythms and Ritalin in the treatment of hyperkinesis. Biofeedback & Self-Regulation, 4(4), 299–311.

Stankus, T. (2008). Can the brain be trained? Comparing the literature on the use of EEG biofeedback/neurofeedback as an alternative or complementary therapy for attention deficit disorder (ADHD). Behavioral & Social Sciences Librarian, 26(4), 20–56.

Strehl, U., Leins, U., Goth, G., Klinger, C., Hinterberger, T., and Birbaumer, N. (2006). Self-regulation of slow cortical potentials: A new treatment for children with attentiondeficit/ hyperactivity disorder. Pediatrics, 118, 1530–1540.

Surmeli, T., & Ertem, A. (2007). EEG neurofeedback treatment of patients with Down Syndrome. Journal of Neurotherapy, 11(1), 63–68.

Surmeli, T., & Ertem, A. (2010). Post WISC-R and TOVA improvement with QEEG guided neurofeedback training in mentally retarded: A clinical case series of behavioral problems. Clinical EEG & Neuroscience Journal, 41(1), 32–41.

Swingle, P. G. (2002). Parameters associated with rapid neurotherapeutic treatment of common ADD (CADD). Journal of Neurotherapy, 5(4), 73–84.

Swingle, P. G. (1996). Sub threshold 10-Hz sound suppresses EEG theta: Clinical application for the potentiation of neurotherapeutic treatment of ADD/ADHD. Journal of Neurotherapy, 2(1), 15–22.

Tansey, M. A. (1984). EEG sensorimotor rhythm biofeedback training: Some effects on the neurological precursors of learning disabilities. International Journal of Psychophysiology, 3, 85–99.

Tansey, M. A. (1985). Brainwave signatures—An index reflective of the brain=s functional neuroanatomy: Further findings on the effect of EEG sensorimotor rhythm biofeedback training on the neurologic precursors of learning disabilities. International Journal of Psychophysiology, 3, 85–89.

Tansey, M. A. (1990). Righting the rhythms of reason: EEG biofeedback training as a therapeutic modality in a clinical office setting. Medical Psychotherapy, 3, 57–68.

Tansey, M. A. (1991). Wechsler (WISC-R) changes following treatment of learning disabilities via EEG biofeedback in a private practice setting. Australian Journal of Psychology, 43, 147–153.

Tansey, M. A. (1993). Ten-year stability of EEG biofeedback results for a hyperactive boy who failed fourth grade perceptually impaired class. Biofeedback & Self-Regulation, 18, 33–44.

Tansey, M. A., & Bruner, R. L. (1983). EMG and EEG biofeedback training in the treatment of 10-year old hyperactive boy with a developmental reading disorder. Biofeedback & Self-Regulation, 8(1), 25–37.

Thompson, L., & Thompson, M. (1998). Neurofeedback combined with training in metacognitive strategies: Effectiveness in students with ADD. Applied Psychophysiology & Biofeedback, 23(4), 243–263.

Thornton, K. E., & Carmody, D. P. (2005). Electroencephalogram biofeedback for reading disability and traumatic brain injury. Child & Adolescent Psychiatric Clinics of North America, 14(1), 137–162.

Thornton, K. E., & Carmody, D. P. (2013). The relation between memory improvement and QEEG changes in three clinical groups as a result of EEG biofeedback treatment. Journal of Neurofeedback

Thornton, K. E., & Carmody, D. P. (2014). The Coordinated Allocation of Resource (CAR) Electrophysiological Patterns of Recalling Names of Faces in Children, Adolescents and Adults and the Central Processing Unit (CPU) of the Brain. Journal of NeuroRegulation, 1(1), 87-104.

Tinius, T. P., & Tinius, K. A. (2001). Changes after EEG biofeedback and cognitive retraining in adults with mild traumatic brain injury and attention deficit disorder. Journal of Neurotherapy, 4(2), 27–44.

Williams, J. (2010). Does neurofeedback help reduce attention-deficit hyperactivity disorder? Journal of Neurotherapy, 14(4), 261–279.

Vachon-Presseau, E., Achim, A., Benoit-Lajoie, A. (2009). Direction of SMR and beta change with attention in adults. Journal of Neurotherapy, 13(1), 22–29.

Valdez, M. (1985). Effects of biofeedback-assisted attention training in a college population. Biofeedback & Self-Regulation, 10(4), 315–324.

Vernon, D., Egner, T., Cooper, N., Compton, T., Neilands, C., Sheri, A., & Gruzelier, J. (2003). The effect of training distinct neurofeedback protocols on aspects of cognitive performance. International Journal of Psychophysiology, 47, 75–85.

Wadhwani, S., Radvanski, D. C., & Carmody, D. P. (1998). Neurofeedback training in a case of attention deficit hyperactivity disorder. Journal of Neurotherapy, 3(1), 42–49.

Walker, J. E., & Norman, C. A. (2006). The neurophysiology of dyslexia: A selective review with implications for neurofeedback remediation and results of treatment in twelve consecutive patients. Journal of Neurotherapy, 10(1), 45–55.

Warner, D.A., Barabasz, A., & Barabasz, M. (2000). The efficacy of Barabasz's alert hypnosis and neurotherapy on attentiveness, impulsivity and hyperactivity in children with ADHD. Child Study Journal, 30(1), 43–49.

Xiong, Z., Shi, S., & Xu, H. (2005). A controlled study of the effectiveness of EEG biofeedback training on children with attention deficit hyperactivity disorder. Journal of Huazhong University of Science & Technology, 25(3), 368–370.

Criminals and Juvenile Offenders

Martin, G., & Johnson, C. L. (2005). The Boys Totem Town Neurofeedback Project: A pilot study of EEG biofeedback with incarcerated juvenile felons. Journal of Neurotherapy, 9(3), 71–86.

Quirk, D. A. (1995). Composite biofeedback conditioning and dangerous offenders: III. Journal of Neurotherapy, 1(2), 44–54.

Smith, P. N., & Sams, M. W. (2005). Neurofeedback with juvenile offenders: A pilot study in the use of QEEG-based and analog-based remedial neurofeedback training. Journal of Neurotherapy, 9(3), 87–99.

Depression, Hemispheric Asymmetry

Allen, J. B., & Cavendar, J. H. (1996). Biofeedback alters EEG asymmetry. Psychophysiology, 33(suppl), S17, (Abstract).

Baehr, E., & Baehr, R. (1997). The use of brainwave biofeedback as an adjunctive therapeutic treatment for depression: Three case studies. Biofeedback, 25(1), 10–11.

Baehr, E., Miller, E., Rosenfeld, J. P., & Baehr, R. (2004). Changes in frontal brain asymmetry associated with premenstrual dysphoric disorder: A single case study. Journal of Neurotherapy, 8(1), 29–42.

Baehr, E., Rosenfeld, J. P., & Baehr, R. (1997). The clinical use of an alpha asymmetry protocol in the neurofeedback treatment of depression: Two case studies. Journal of Neurotherapy, 2(3), 10–23.

Baehr, E., Rosenfeld, J. P., & Baehr, R. (2001). Clinical use of an alpha asymmetry neurofeedback protocol in the treatment of mood disorders: Follow-up study one to five years post therapy. Journal of Neurotherapy, 4(4), 11–18.

Berg, K., Siever, D. (2009). A controlled comparison of audio-visual entrainment for treating Seasonal Affective Disorder. Journal of Neurotherapy, 13(3), 166–175.

Bodurka J. Randomized Clinical Trial of Real-Time fMRI Amygdala Neurofeedback for Major Depressive Disorder: Effects on Symptoms and Autobiographical Memory Recall. Am J Psychiatry. 2017 Aug 1;174(8):748-755. doi: 10.1176/appi.ajp.2017.16060637. Epub 2017 Apr 14.

Cantor, D.S., Stevens, E. (2009). QEEG correlates of auditory-visual entrainment treatment efficacy of refractory depression. Journal of Neurotherapy, 13(2), 100–108.

Cheon, E.J., Koo, B.H., Choi, J.H. (2016). The efficacy of neurofeedback in patients with major depressive disorder: an open labeled prospective study. Applied Psychophysiology & Biofeedback, 41(1), 103-110. doi: 10.1007/s10484-015-9315-8

Grin-Yatsenko, V. A., Othmer, S, Ponomarev, V. A., Evdokimov, S. A., Konoplev, Y. Y., Kroptov, J. D. (2018) Infra-Low Frequency Neurofeedback in Depression: Three case studies. NeuroRegulation 5(1), 30-42.

Hammond, D. C. (2005). Neurofeedback with anxiety and affective disorders. Child & Adolescent Psychiatric Clinics of North America, 14(1), 105–123

Hammond, D. C. (2001). Neurofeedback treatment of depression with the Roshi. Journal of Neurotherapy, 4(2), 45–56.

Hammond, D. C. (2002). Neurofeedback training for anger control. Journal of Neurotherapy, 5(4), 98–103.

Hardman, E., Gruzelier, J., Chessman, K., Jones, C., Liddiard, D., Schleichert, H., & Birbaumer, N. (1997). Frontal interhemispheric asymmetry: Self-regulation and individual differences in humans. Neuroscience Letters, 221, 117–120.

Jenkins, P., & Moore, W. H. (1985).The effects of visual feedback on hemispheric alpha asymmetries and reported processing strategies: A single-subject experimental design. Brain & Cognition, 4(1), 47–58.

Kotchoubey, B., Schleichert, H., Lutzenberger, W., Anokhin, A. P., & Birbaumer, N. (1996). Self-regulation of interhemispheric asymmetry in humans. Neuroscience Letters, 215, 91–94.

Kumano, H., Horie, H., Shidara, T., Kuboki, T. et al. (1996). Treatment of a depressive disorder patient with EEG-driven photic stimulation. Biofeedback & Self-Regulation, 21(4), 323–334.

Putman, J. A., (2002). EEG biofeedback on a female stroke patient with depression: A case study. Journal of Neurotherapy, 5(3), 27–38.

Raymond, J., Varney, C., Parkinson, L. A., & Gruzelier, J. H. (2005). The effects of alpha/theta neurofeedback on personality and mood. Cognitive Brain Research, 23, 287–292.

Rosenfeld, J. P. (2000). An EEG biofeedback protocol for affective disorders. Clinical Electroencephalography, 31(1), 7–12.

Rosenfeld, J. P. (1997). EEG biofeedback of frontal alpha asymmetry in affective disorders. Biofeedback, 25(1), 8–25.

Rosenfeld, J. P., Baehr, E., Baehr, R., Gotlib, I. H., & Ranganath, C. (1996). Preliminary evidence that daily changes in frontal alpha asymmetry correlate with changes in affect in therapy sessions. International Journal of Psychophysiology, 23, 137–141.

Rosenfeld, J. P., Cha, G., Blair, T., & Gotlib, I. (1995). Operant biofeedback control of left-right frontal alpha power differences. Biofeedback & Self-Regulation, 20, 241–258.

Saxby, E., & Peniston, E. G. (1995). Alpha-theta brainwave neurofeedback training: an effective treatment for male and female alcoholics with depressive symptoms. Journal of Clinical Psychology, 51, 685–693.

Schneider, F., Heimann, H., Mattes, R., Lutzenberger, W., & Birbaumer, N. (1992). Self-regulation of slow cortical potentials in psychiatric patients: Depression. Biofeedback & Self-Regulation, 17, 203–214.

Tsai, H., Peper, E. Lin, I. (2016). EEG patterns under positive/negative body postures and emotion recall tasks. NeuroRegulation 3(1), 23-27.

Uhlmann, C., & Froscher, W. (2001). Biofeedback treatment in patients with refractory epilepsy: Changes in depression and control orientation. Seizure, 10, 34–38.

Walker, J. E., Lawson, R., & Kozlowski, G. (2007). Current status of QEEG and neurofeedback in the treatment of depression. Chapter in J. R. Evans (Ed.), Handbook of Neurofeedback. Binghampton, NY: Haworth Medical Press, 341–351.

Walker, J., (2013). QEEG-guided neurofeedback for anger/anger control disorder. Journal of Neurotherapy

Wang, S.-Y., Lin, I.-M., Peper, E., Chen, Y.-T., Yeh, Y.-C., …. Chu, C.-C. (2016). The efficacy of neurofeedback among patients with major depressive disorder. Preliminary study. NeuroRegulation, 3(3), 127-134.

Young KD, Siegle GJ, Zotev V, Phillips R, Misaki M, Yuan H, Drevets WC,

Jacobs, R.L. (2009). Rhythms of healing: A case study. Journal of Neurotherapy, 13(4), 228–238.

Manchester, C., Allen, T., & Tachiki, K. H. (1998). Treatment of dissociative identity disorder with neurotherapy and group self-exploration. Journal of Neurotherapy, 2(4), 40–53.

Mason, L. A., & Brownback, T. S. (2001). Optimal functioning training with EEG biofeedback for clinical populations: A case study. Journal of Neurotherapy, 5(1–2), 3344.

Eating Disorders

Schmidt, J., Martin, A. (2015). Neurofeedback reduces overeating episodes in female restrained eaters: a randomized controlled pilot-study. Applied Psychophysiology & Biofeedback, 40(4), 283-295. doi: 10.1007/s10484-015-9297-6

Schmidt J, Martin A. (2016). Neurofeedback Against Binge Eating: A Randomized Controlled Trial in a Female Subclinical Threshold Sample. Eur Eat Disord Rev. 2016 Sep;24(5): 406-16. doi: 10.1002/erv.2453. Epub 2016 Apr 27.

Epilepsy

Achinivu, K., Staufenberg, E., Cull, C. (2012). Cognitive function during vagus nerve stimulation for treatment-refractory epilepsy: A pilot study using the critical flicker fusion test. Journal of Neurotherapy.

Andrews, D. J., & Schonfeld, W. H. (1992). Predictive factors for controlling seizures using a behavioural approach. Seizure, 1(2), 111–116.

Ayers, M. E. (1988). Long-term clinical treatment follow-up of EEG neurofeedback for epilepsy. Epilepsy Support Program Newsletter, 3(2), 8–9.

Ayers, M. E. (1995). Long-term follow-up of EEG neurofeedback with absence seizures. Biofeedback & Self-Regulation, 20(3), 309–310.

Birbaumer, N., Elbert, T., Rockstroh, B., Daum, I., Wolf, P., & Canavan, A. (1991). Clinical psychological treatment of epileptic seizures: A controlled study. Chapter in A. Ehlers et al. (Eds.), Perspectives and Promises of Clinical Psychology. New York: Plenum Press.

Cott, A., Pavloski, R. P., & Black, A. H. (1979). Reducing epileptic seizures through operant conditioning of central nervous system activity: Procedural variables. Science, 203, 73–75.

Daum, I., Rockstroh, B., Birbaumer, N., Elbert, T., Canavan, A., Lutzenberger, W. (1993). Behavioral treatment of slow cortical potentials in intractable epilepsy: Neuropsychological predictors of outcome. Journal of Neurosurgery & Psychiatry, 56 94–97.

Elbert, T., Rockstroh, B., Canavan, A., Birbaumer, N., Lutzenberger, W., von Bulow, I., & Linden, A. (1990). Self-regulation of slow cortical potentials and its role in epileptogenesis. Chapter in J. Carlson & R. Seifert (Eds.), Biobehavioral Self-Regulation and Health. New York: Plenum Press.

Elbertsen, B., & Klove, H. (1976). Clinical application of biofeedback training in epilepsy. Scandinavian Journal of Behavior Therapy, 5, 133–144.

Engel, J., Troupin, A. S., Crandall, P. H., Sterman, M. B., & Wasterlain, C. G. (1982). Recent developments in the diagnosis and therapy of epilepsy. Annals of Internal Medicine, 97, 584–598.

Finley, W. W. (1976). Effects of sham-feedback following successful SMR training in an epileptic: A follow-up study. Biofeedback & Self-Regulation, 1, 227–235.

Finley, W. W. (1977). Operant conditioning of the EEG in two patients with epilepsy: Methodologic and clinical considerations. Pavlovian Journal of Biological Science, 12(2), 93–111.

Finley, W. W., Smith, H. A., & Etherton, M. D. (1975). Reduction of seizures and normalization of the EEG in a severe epileptic following sensorimotor biofeedback training: Preliminary study. Biological Psychiatry, 2, 189–203.

Fischer-Williams, M., & Clifford, B. C. (1988). Biofeedback treatment of patients with seizures: A pilot study of EEG feedback. Electroencephalography & Clinical Neurophysiology, 70(1), 18.

Frey, L. (2016). Impact of sensorimotor rhythm neurofeedback on quality of life in patients with medically-refractory seizures. NeuroRegulation 3(1). 3-6.

Hanson, L. M., Trudeau, D. L., & Grace, D. L. (1996). Neurotherapy and drug therapy in combination for adult ADHD, personality disorder, and seizure disorder: A case report. Journal of Neurotherapy, 2(1), 6–14.

Kaplan, B. J. (1975). Biofeedback in epileptics: Equivocal relationship of reinforced EEG frequency to seizure reduction. Epilepsia, 16, 477–485.

Kotchoubey, B., Busch, S., Strehl, U., & Birbaumer, N. (1999). Changes in EEG power spectra during biofeedback of slow cortical potentials in epilepsy. Applied Psychophysiology & Biofeedback, 24(4), 213–233.

Kotchoubey, B., Strehl, U., Uhlmann, C., Holzapfel, S., Konig, M., Froscher, W., Blankenhorn, V., & Birbaumer, N. (2001). Modification of slow cortical potentials in patients with refractory epilepsy: A controlled outcome study. Epilepsia, 42(3), 406–416.

Kuhlman, W. N. (1978). EEG feedback training of epileptic patients: Clinical and electroencephalographic analysis. Electroencephalography & Clinical Neurophysiology, 45(6), 699–710.

Kuhlman, W. N., & Allison, T. (1977). EEG feedback training in the treatment of epilepsy: Some questions and some answers. Pavlovian Journal of Biological Science, 12(2), 112–122.

Lantz, D., & Sterman, M. B. (1988). Neuropsychological assessment of subjects with uncontrolled epilepsy: Effects of EEG biofeedback training. Epilepsia, 29(2), 163–171.

Legarda, S., McMahon, D., Othmer, S., and Othmer, S. F. (2011). Clinical Neurofeedback: Case Studies, Proposed Mechanism, and Implications for Pediatric Neurology Practice. Journal of Child Neurology,(26)8:1045-1051.

Lubar, J. F., & Bahler, W. W. (1976). Behavioral management of epileptic seizures following EEG biofeedback training of the sensorimotor rhythm. Biofeedback & Self-Regulation, 7, 77–104.

Lubar, J. F., Shabsin, H. S., Natelson, S. E. et al. (1981). EEG operant conditioning in intractable epileptics. Archives of Neurology, 38, 700–704.

Lubar, J. F., & Shouse, M. N. (1977). Use of biofeedback in the treatment of seizure disorders and hyperactivity. Advances in Clinical Child Psychology, 1, 204–251.

Monderer, R. S., Harrison, D. M., & Haut, S. R. (2002). Review: Neurofeedback and epilepsy. Epilepsy & Behavior, 3, 214–218.

Quy, R. J., Hutt, S. J., & Forrest, S. (1979). Sensorimotor rhythm feedback training and epilepsy: Some methodological and conceptual issues. Biological Psychology, 9, 129149.

Rockstroh, B., Elbert, T., Birbaumer, N., Wolf, P., Duchting-Roth, A., Reker, M., Daum, I., Lutzenberger, W., & Dichgans, J. (1993). Cortical self-regulation in patients with epilepsies. Epilepsy Research, 14. 63–72.

Rudrud, E., & Striefel, S. (1981). Eight to twelve hertz occipital EEG training with moderate and severely retarded epileptic individuals. Australian Journal of Developmental Disabilities, 7(4), 173–179.

Seifert, A. R.,& Lubar, J. F. (1975). Reduction of epileptic seizures through EEG biofeedback training. Biological Psychology, 3, 157–184.

Sterman, M. B., & Friar, L. (1972). Suppression of seizures in epileptics following sensorimotor EEG feedback training. Electroencephalography & Clinical Neurophysiology, 33, 89–95.

Sterman, M. B. (1973a). Neurophysiological and clinical studies of sensorimotor EEG biofeedback training: Some effects on epilepsy. Seminars in Psychiatry, 5(4), 507–525.

Sterman, M. B. (1973b). Neurophysiological and clinical studies of sensorimotor EEG biofeedback training: Some effects on epilepsy. Chapter in L. Birk (Ed.), Biofeedback: Behavioral Medicine. New York: Grune & Stratton, pp. 147–165.

Sterman, M. B. (1977). Effects of sensorimotor EEG feedback on sleep and clinical manifestations of epilepsy. Chapter in J. Beatty & H. Legewie (Eds.), Biofeedback and Behavior. New York: Plenum, pp. 167–200.

Sterman, M. B. (1977). Sensorimotor EEG operant conditioning: Experimental and clinical effects. Pavlovian Journal of Biological Sciences, 12(2), 63–92.

Sterman, M. B. (1986). Epilepsy and its treatment with EEG feedback therapy. Annals of Behavioral Medicine, 8, 21–25.

Sterman, M. B. (1997).The challenge of EEG biofeedback in the treatment of epilepsy: A view from the trenches. Biofeedback, 25(1), 6–7, 20–21, 23.

Sterman, M. B. (2000). Basic concepts and clinical findings in the treatment of seizure disorders with EEG operant conditioning. Clinical Electroencephalography, 31(1), 4555.

Sterman, M. B., Macdonald, L. R., & Stone, R. K. (1974). Biofeedback training of the sensorimotor electroencephalogram rhythm in man: Effects on epilepsy. Epilepsia, 15(3), 395–416.

Sterman, M. B., & Macdonald, L. R. (1978). Effects of central cortical EEG feedback training on incidence of poorly controlled seizures. Epilepsia, 19(3), 207–222.

Sterman, M. B., & Shouse, M. N. (1980). Quantitative analysis of training, sleep EEG and clinical response to EEG operant conditioning in epileptics. Electroencephalography & Clinical Neurophysiology, 49, 558–576.

Sterman, M. B., & Lantz, D. (2001). Changes in lateralized memory performance in subjects with epilepsy following neurofeedback training. Journal of Neurotherapy, 5(1-2), 63–72.

Sterman, M. B., & Egner, T. (2006). Foundation and practice of neurofeedback for the treatment of epilepsy. Applied Psychophysiology & Biofeedback, 31(1), 21–36.

Strehl, U., Trevorrow, T., Veit, R., Hinterberger, T., Kotchoubey, B., Erb, M., & Birbaumer,N. (2006). Deactivation of brain areas during self-regulation of slow cortical potentials in seizure patients. Applied Psychophysiology & Biofeedback, 31(1), 85–94.

Süreli, T., Ertem A. (2009). QEEG guided neurofeedback therapy in personality disorders: 13 case studies. Clinical EEG Neuroscience Journal. 40(1), 5-10.

Swingle, P. G. (1998). Neurofeedback treatment of pseudo seizure disorder. Biological Psychiatry, 44(11), 1–4.

Tan, G., Thornby, J., Hammond, D. C., Strehl, U., Canady, B., Arnemann, K., & Kaiser, D.K. (2009). Meta-analysis of EEG biofeedback in treating epilepsy. Clinical EEG & Neuroscience, 40(3), 173–179.

Tansey, M. A. (1985). The response of a case of petit mal epilepsy to EEG sensorimotor rhythm biofeedback training. International Journal of Psychophysiology, 3, 81–84.

Tozzo, C.A., Elfner, L. F., & May Jr., J. G. (1988). Biofeedback and relaxation training in the control of epileptic seizures. International Journal of Psychophysiology, 6, 185–194.

Uhlmann, C., & Froscher, W. (2001). Biofeedback treatment in patients with refractory epilepsy: Changes in depression and control orientation. Seizure, 10(1), 34–38.

Upton, A. R., & Longmere, D. (1975). The effects of feedback on focal epileptic discharges in man: A preliminary report. Canadian Journal of Neurological Sciences, 2, 153–167.

Walker, J. E. (2008). Power spectral frequency and coherence abnormalities in patients with intractable epilepsy and their usefulness in long-term remediation of seizures using neurofeedback. Clinical EEG & Neuroscience, 39(4), 203–204.

Walker, J. E., & Kozlowski, G. P. (2005). Neurofeedback treatment of epilepsy. Child & Adolescent Psychiatric Clinics of North America, 14(1), 163–176

Whitsett, S. F., Lubar, J. F., Holder, G. S., et al. (1982). A double-blind investigation of the relationship between seizure activity and the sleep EEG following EEG biofeedback training. Biofeedback & Self-Regulation, 7, 193–209.

Wyler, A. R., Robbins, C. A., & Dodrill, C. B. (1979). EEG operant conditioning for control of epilepsy. Epilepsia, 20, 279–286.

Zhao, L., Liang, Z., Hu, G., & Wu, W. (2005). Nonlinear analysis in treatment of intractable epilepsy with EEG biofeedback. Conference Proceedings IEEE Engineering, Medical, & Biological Science, 5, 4568–4571

Functional MRI (fMRI) Neurofeedback

Beauregard, M., & Levesque, J. (2006). Functional magnetic resonance imaging investigation of the effects of neurofeedback training on the neural bases of selective attention and response inhibition in children with attention-deficit/hyperactivity disorder. Applied Psychophysiology & Biofeedback, 31(1), 3–20.

Bray, S., Shimojo, S. & O'Doherty, J. P. (2007). Direct instrumental conditioning of neural activity using functional magnetic resonance imaging-derived reward feedback. Journal of Neuroscience, 27, 7498–7507.

Caria, A., Sitaram, R., Veit, R., Begliomini, C., & Birbaumer, N. (2010). Volitional control of anterior insula activity modulates the response to aversive stimuli. A real-time functional magnetic resonance imaging study. Biological Psychiatry, 68(5), 425–432.

Caria, A., Veit, R., Sitaram, R., Lotze, M., Weiskopf, N., Grodd, W. & Birbaumer, N. (2007). Regulation of anterior insular cortex activity using real-time fMRI. Neuroimage, 35, 1238–1246.

Cortese A, Amano K, Koizumi A, Lau H, Kawato M. Decoded fMRI neurofeedback can induce bidirectional confidence changes within single participants. Neuroimage. 2017 Apr 1;149:323-337. doi: 10.1016/j.neuroimage.2017.01.069. Epub 2017 Feb 3.

deCharms, R. C. (2008). Applications of real-time fMRI . Nature Reviews, Neuroscience, 9, 720–729.

deCharms, R. (2007). Reading and controlling human brain activation using real-time functional magnetic resonance imaging. Trends in Cognitive Science, 11, 473–481.

deCharms, R.C., Maeda, F., Glover, G.H., Ludlow, D., Pauly, J.M., Soneji, D., Gabrieli, J.D. & Mackey, S.C. (2005). Control over brain activation and pain learned by using real-time functional MRI. Proceedings of the National Academy of Sciences, 102, 18626–18631.

deCharms, R., Christoff, K., Glover, G., Pauly, J., Whitfield, S. & Gabrieli, J. (2004). Learned regulation of spatially localized brain activation using real-time fMRI. Neuroimage, 21, 436–443.

Fetz, E. E. (2007). Volitional control of neural activity: implications for brain-computer interfaces. Journal of Physiology, 579(Pt 3), 571–579.

Johnston, S.J., Boehm, S.G., Healy, D., Goebel, R. & Linden, D.E.J. (2010). Neurofeedback: A promising tool for the self-regulation of emotion networks. Neuroimage, 49(1), 1066–1072.

Rota, G., Sitaram, R., Veit, R., Erb, M., Weiskopf, N., Dogil, G. & Birbaumer, N. (2009). Self-regulation of regional cortical activity using real-time fMRI: The right inferior frontal gyrus and linguistic processing. Human Brain Mapping, 30, 1605–1614.

Weiskopf, N., Scharnowski, F., Veit, R., Goebel, R., Birbaumer, N. & Mathiak, K. (2004). Self-regulation of local brain activity using real-time functional magnetic resonance imaging (fMRI). Journal of Physiology (Paris) 98, 357–373.

Weiskopf, N., Veit, R., Erb, M., Mathiak, K., Grodd, W., Goebel, R. & Birbaumer, N. (2003). Physiological self-regulation of regional brain activity using real-time functional magnetic resonance imaging (fMRI): methodology and exemplary data. Neuroimage, 19, 577–586.

Yoo, S., O'Leary, H., Fairneny, T., Chen, N., Panych, L., Park, H. & Jolesz, F. (2006). Increasing cortical activity in auditory areas through neurofeedback functional magnetic resonance imaging. Neuroreport, 17, 1273–1278.

Yoo, S. S., & Jolesz, F. A. (2002). Functional MRI for neurofeedback: feasibility study on a hand motor task. Neuroreport, 13, 1377–1381.

Hemoencephalography

Carmen, J. A. (2004). Passive infrared hemoencephalography: Four years and 100 migraines. Journal of Neurotherapy, 8(3), 23–51.

Coben, R., & Pudolsky, I. (2007). Infrared imaging and neurofeedback: Initial reliability and validity. Journal of Neurotherapy, 11(3), 3–13.

Friedes, D., & Aberbach, L. (2003). Exploring hemispheric differences in infrared brain emissions. Journal of Neurotherapy, 8(3), 53–61.

Mize, W. (2004). Hemoencephalography–A new therapy for attention deficit hyperactivity disorder (ADHD): Case report. Journal of Neurotherapy, 8(3), 77–97.

Serra-Sala, M. (2012). Evaluating prefrontal activation and its relationship with cognitive and emotional process by means of hemocephalography (HEG). Journal of Neurotherapy.

Sherrill, R. (2004). Effects of hemoencephalography (HEG) training at three prefrontal locations using EEG ratios at Cz. Journal of Neurotherapy, 8(3), 63–76.

Stokes, D. A., & Lappin, M. (2010) Neurofeedback and biofeedback with 37 migraineurs: a clinical outcome study. Behavioral and Brain Functions, 6(9)

Toomim, H., Mize, W., Kwong, P. C., Toomim, M., Marsh, R., Kozlowski, G. P., Kimball, M., & Remond, A. (2004). Intentional increase of cerebral blood oxygenation using hemoencephalography (HEG). Journal of Neurotherapy, 8(3), 5–21.

Walker, A. K., Lyle, R. (2016). Passive Infrared Hemoencephalography (pIR HEG) for the Treatment of Migraine without Aura. NeuroRegulation 3(2), 78-91.

Hypertension

Norris, S. L., Lee, C-T., Burshteyn, D., & Cea-Aravena, J. (2001). The effects of performance enhancement training on hypertension, human attention, stress, and brain wave patterns: A case study. Journal of Neurotherapy, 4(3), 29–44.

LENS (Low Energy Neurofeedback System)

Cripe, C. T. (2006). Effective use of LENS unit as an adjunct to cognitive neurodevelopmental training. Journal of Neurotherapy, 10(2–3), 79–87.

Donaldson, C. C. S., Sella, G. E., & Mueller, H. H. (1998). Fibromyalgia: A retrospective study of 252 consecutive referrals. Canadian Journal of Clinical Medicine, 5 (6), 116–127.

Esty, M. L. (2006). Reflections on FMS treatment, research, and neurotherapy: Cautionary tales. Journal of Neurotherapy, 10(2–3), 63–68.

Hammond, D, C. (2012). Lens neurofeedback treatment with fetal alcohol spectrum disorder and neglect. Journal of Neurotherapy.

Hammond, D. C. (2010). LENS neurofeedback treatment of anger: preliminary reports. Journal of Neurotherapy, 14(2), 162–169.

Hammond, D. C. (2010). QEEG evaluation of the LENS treatment of TBI. Journal of Neurotherapy, 14(2), 170–177.

Hammond, D. C. (Ed.). LENS: The Low Energy Neurofeedback System. Binghampton, NY: Haworth Medical Press.

Hammond, D. C. (2007). Can LENS neurofeedback treat anosmia resulting from a head injury? Journal of Neurotherapy, 11(1), 57–62.

Kravitz, H. M., Esty, M. L., Katz, R. S., & Fawcett, J. (2006). Treatment of fibromyalgia syndrome using low-intensity neurofeedback with the Flexyx Neurotherapy System: A randomized controlled clinical trial. Journal of Neurotherapy, 10(2–3), 41–58.

Larsen, S. (2006). The healing power of neurofeedback. Rochester, VT: The Healing Arts Press.

Larsen, S., Harrington, K., & Hicks, S. (2006). The LENS (Low Energy Neurofeedback System): A clinical outcomes study of one hundred patients at Stone Mountain Center, New York. Journal of Neurotherapy, 10(2–3), 69–78.

Larsen, S., Larsen, R., Hammond, D. C., Sheppard, S., Ochs, L., Johnson, S., Adinaro, C., & Chapman, C. (2006). The LENS neurofeedback with animals. Journal of Neurotherapy, 10(2–3), 89–104.

Mueller, H. H., Donaldson, C. C. S., Nelson, D. V., & Layman, M. (2001). Treatment of fibromyalgia incorporating EEG-driven stimulation: A clinical outcomes study. Journal of Clinical Psychology, 57(7), 933–952.

Ochs, L. (2006). The Low Energy Neurofeedback System (LENS): Theory, background, and introduction. Journal of Neurotherapy, 10(2–3), 5–39.

Ochs, L. (2006). Comment on the treatment of fibromyalgia syndrome using low-intensity neurofeedback with the Flexyx Neurotherapy System: A randomized controlled clinical trial, or how to go crazy over nearly nothing. Journal of Neurotherapy, 10(2–3), 59–61.

Schoenberger, N. E., Shiflett, S. C., Esty, M. L., Ochs, L., & Matheis, R. J. (2001). Flexyx neurotherapy system in the treatment of traumatic brain injury: An initial evaluation. Journal of Head Trauma Rehabilitation, 16(3), 260–274.

LORETA Neurofeedback

Cannon, R, L. (2012). LORETA neurofeedback: odd reports, observations, and findings associated with spatial specific neurofeedback training. Journal of Neurotherapy.

Cannon, R., Congredo, M., Lubar, J., and Hutchens, T. (2009). Differentiating a network of executive attention: LORETA neurofeedback in anterior cingulate and dorsolateral prefrontal cortices. International Journal Neuroscience. 119(3):404–441.

Cannon, R., Lubar, J., Sokhadze, E., & Baldwin, D. (2008). LORETA neurofeedback for addiction and the possible neurophysiology of psychological processes influenced: A case study and region of interest analysis of LORETA neurofeedback in right anterior cingulate cortex. Journal of Neurotherapy, 12(4), 227–241.

Cannon, R., & Lubar, J. (2007). EEG spectral power and coherence: Differentiating effects of spatial-specific neuro-operant learning (SSNOL) utilizing LORETA neurofeedback training in the anterior cingulate and bilateral dorsolateral prefrontal cortices. Journal of Neurotherapy, 11(3), 25–44.

Cannon, R., Lubar, J., Congedo, M., Thornton, K., Towler, K., & Hutchens, T. (2007). The effects of neurofeedback training in the cognitive division of the anterior cingulate gyrus. International Journal of Neuroscience, 117(3), 337–357.

Cannon, R., Lubar, J. F., Congedo, M., Gerke, A., Thornton, K., Kelsay, B., et al. (2006b). The effects of neurofeedback training in the cognitive division of the anterior cingulate gyrus. International Journal of Science (in press).

Cannon, R., Lubar, J., Gerke, A., Thornton, K., Hutchens, T., & McCammon, V. (2006). EEG spectral-power and coherence: LORETA neurofeedback training in the anterior cingulate gyrus. Journal of Neurotherapy, 10(1), 5–31.

Cannon, R., Lubar, J., Thornton, K., Wilson, S., & Congedo, M. (2005) Limbic beta activation and LORETA: Can hippocampal and related limbic activity be recorded and changes visualized using LORETA in an affective memory condition? Journal of Neurotherapy, 8 (4), 5–24.

Congedo, M., & Joffe, D. (2007). Multichannel tomographic neurofeedback: Wave of the future? Chapter in J. R. Evans (Ed.), Handbook of Neurofeedback. Binghampton, NY: Haworth Medical Press, pp. 85–107.

Congedo, M., Lubar, J. F., & Joffe, D. (2004). Low-resolution electromagnetic tomography neurofeedback. IEEE Transactions on Neural Systems & Rehabilitation Engineering, 12(4), 387–397.

Lubar, J., Congedo, M., & Askew, J. H. (2003). Low-resolution electromagnetic tomography (LORETA) of cerebral activity in chronic depressive disorder. International Journal of Psychophysiology, 49(3), 175–185.

Johnson, M.,L (2012). Spectral dynamics and therapeutic implications of the theta/alpha crossover in alpha-theta neurofeedback. Journal of Neurotherapy

Thatcher, R. W., (2012). Latest developments in live z-score training: symptom check list, phase reset, and loreta z-score biofeedback. Journal of Neurotherapy

Medical Conditions

Brown, V. W. (1995). Neurofeedback and Lyme's Disease: A clinical application of the five phase model of CNS functional transformation and integration. Journal of Neurotherapy, 1(2), 60–73.

Busse, lM., Low, Y. F., Corona-Strauss, F. I., & Strauss, D. J. (2008). Neurofeedback by neural correlates of auditory selective attention as possible application for tinnitus therapies. Conference Proceedings, IEEE Engineering Medical & Biological Society, 5136–5139.

Dohrmann, K, Weisz, N., Schlee, W., Hartmann, T., & Elbert, T. (2007). Neurofeedback for treating tinnitus. Chapter in B. Langguth, G. Hajak, T. Kleinjung, A. Cacace, & A. R. Moller (Eds.). Progress in Brain Research, Vol. 166. London: Elsevier, pp. 473–485.

Emmert K, Kopel R, Koush Y, Maire R, Senn P, Van De Ville D, Haller S. Continuous vs. intermittent neurofeedback to regulate auditory cortex activity of tinnitus patients using real-time fMRI - A pilot study. Neuroimage Clin. 2017 Jan

6;14:97-104. doi: 10.1016/j.nicl.2016.12.023. eCollection 2017.

Glucek, B. C., & Stroebel, C. F. (1975). Biofeedback and meditation in the treatment of psychiatric illness. Comprehensive Psychiatry, 16(4), 303–321.

Gosepath, K., Nafe, B., Ziegler, E., & Mann, W. J. (2001). Neurofeedback training as a therapy for tinnitus. HNO (German), 49(1), 29–35.

Hallman, D, W. (2012) 19-Channel neurofeedback in an adolescent with FASD. Journal of Neurotherapy.

Hammond, D. C (2012). Neurofeedback treatment of restless legs syndrome and periodic leg movements in sleep. Journal of Neurotherapy.

Johnson, M. L., Bodenhamer-Davis, E., Gates, M. S. (2016). Neuromodulation Methods to Suppress Tinnitus in Somatosensory Subtypes: A Case Series. NeuroRegulation, 3(4). 150-161.

Malkowicz, D., Martinez, D. (2009). Role of quantitative electroencephalography, neurotherapy, and neuroplasticity in recovery from neurological and psychiatric disorders. Journal of Neurotherapy, 13(3), 176–188.

Monjezi, S., & Lyle, R. R. (2006). Neurofeedback treatment of type I diabetes mellitus: Perceptions of quality of life and stabilization of insulin treatment–Two case studies. Journal of Neurotherapy, 10(4),17–23.

Montgomery, P. S. (2006). Allergy pattern in the EEG. Journal of Neurotherapy, 10(1), 89–92.

Packard, R. C., & Ham, L. R. (1995). EEG biofeedback in the treatment of Lyme Disease: A case study. Journal of Neurotherapy, 1(3), 22–30.

Prinsloo, S, Gabel, S., Park, L., & Lyle, R. (2014). Neurofeedback for Chemotherapy Induced Neuropathic Symptoms: A Case Study. Journal of NeuroRegulation, 1(2), 165-172.

Prinsloo S, Novy D, Driver L, Lyle R, Ramondetta L, Eng C, McQuade J, Lopez G, Cohen L. Randomized controlled trial of neurofeedback on chemotherapy-induced peripheral neuropathy: A pilot study. Cancer. 2017 Jun 1;123(11):1989-1997. doi: 10.1002/cncr. 30649. Epub 2017 Mar 3.

Schenk, S., Lamm, K., Gundel, H., & Ladwig, K. H. (2005). Effects of neurofeedback-based EEG alpha and EEG beta training in patients with chronically decompensated tinnitus. HNO (German), 53(1), 29–38.

Sterman, M. B., Ayers, M. E., & Goodman, S. J. (1976). Case study: Effects of SMR suppression on EEG and motor patterns in a quadriplegic patient. Biofeedback & Self-Regulation, 1(3), 340–341.

Tansey, M. A. (1992). EEG sensorimotor biofeedback training and the treatment of a six-year old asthmatic child. American Journal of Clinical Biofeedback, 5,(2), 145–149.

Weiler, E. W., Brill, K., Tachiki, K. H., & Schneider, D. (2001). Neurofeedback and quantitative electroencephalography. International Tinnitus Journal, 8(2), 87–93.

Obsessive Compulsive Disorder

Hammond, D. C. (2003). QEEG-guided neurofeedback in the treatment of obsessive compulsive disorder. Journal of Neurotherapy, 7(2), 25–52.

Hammond, D. C. (2004). Treatment of the obsessional subtype of obsessive compulsive disorder with neurofeedback. Biofeedback, 32, 9–12.

Mills, G. K., & Solyom, L. (1974). Biofeedback of EEG alpha in the treatment of obsessive ruminations: An exploration. Journal of Behaviour Therapy & Experimental Psychiatry, 5, 37–41.

Sürmeli T, Ertem A. (2011) Obsessive compulsive disorder and the efficacy of qEEG-guided neurofeedback treatment: a case series. Clinical EEG Neuroscience Journal. 42(3), 195-201.

Optimal Functioning, Peak Performance

Arns, M., Kleinnijenhuis, M., Fallahpour, K., & Bretler, R. (2007). Golf performance enhancement and real-life neurofeedback training using personalized event-locked EEG profiles. Journal of Neurotherapy, 11(4), 11–18.

Boynton, T. (2001). Applied research using alpha/theta training for enhancing creativity and well-being. Journal of Neurotherapy, 5(1–2), 5–18.

Egner, T., & Gruzelier, J. H. (2003). Ecological validity of neurofeedback: Modulation of slow wave EEG enhances musical performance. NeuroReport, 14(9), 1221–1224.

Gruzelier, J., Egner, T., & Vernon, D. (2006). Validating the efficacy of neurofeedback for optimising performance. Progress in Brain Research, 159, 421–431.

Gruzelier, J. (2009). A theory of alpha/theta neurofeedback, creative performance enhancement, long distance functional connectivity and psychological integration. Cognitive Processing, 10 (Suppl 1), S101–109.

Peper, E., Lee, S., Harvey, R., Lin I. (2016). Breathing and Math Performance: Implications for Performance and Neurotherapy. NeuroRegulation 3(4). 142-149.

Raymond, J., Sajid, I., Parkinson, L. A., & Gruzelier, J. H. (2005). Biofeedback and dance performance: A preliminary investigation. Applied Psychophysiology & Biofeedback, 30(1), 65–74.

Thompson, M. & Thompson, L. (2003) The neurofeedback book: An Introduction to basic Concepts in Applied Psychophysiology, Wheat Ridge, CO: Association for Applied Psychophysiology

Thompson, T., Steffert, T., Ros, T., Leach, J., & Gruzelier, J. (2008). EEG applications for sport and performance. Methods, 45, 279–288.

Vernon, D., Dempster, T., Bazanova, O., Rutterford, N., Pasqualini, M., Andersen, S. (2009). Alpha neurofeedback training for performance enhancement: Reviewing the methodology. Journal of Neurotherapy, 13(4), Pages 214–227.

Vernon, D. J. (2005). Can neurofeedback training enhance performance? An evaluation of the evidence with implications for future research. Applied Psychophysiology & Biofeedback, 30(4), 347–364.

Parkinson's Dystonia

Cordelia, R., Anderson, J.S (2012). Evaluation of neurofeedback training in the treatment of parkinson’s disease: A pilot study. Journal of Neurotherapy.

Dogris, N, J. (2012). The effect of neurofield pusled EMF on parkinson’s disease symptoms and QEEG. Jornal of neurotherapy

Naros G, Naros I, Grimm F, Ziemann U, Gharabaghi A. Reinforcement learning of self-regulated sensorimotor β-oscillations improves motor performance. Neuroimage. 2016 Jul 1;134:142-152. doi: 10.1016/j.neuroimage.2016.03.016. Epub 2016 Apr 2.

Thompson, M., & Thompson, L. (2002). Biofeedback for movement disorders (dystonia with Parkinson's disease): Theory and preliminary results. Journal of Neurotherapy, 6(4), 51–70.

Post Traumatic Stress

Bracciano, A,G., Chang, W-P., Kokesh, S. (2012). Cranial electrotherapy stimulation in the treatment of posttraumatic stress disorder: A pilot study of two military veterans. Journal of Neurotherapy.

Fragedakis, T.M., Toriello, P. (2014). The Development and experience of combat-related

PTSD: a demand for neurofeedback as an effective form of treatment. Journal of Counseling & Development, 92(4), 481-488. doi: 10.1002/j.1556-6676.2014.00174.x

Gapen, M., van der Kolk, B. A., Hamlin, E., Hirshberg, L., Suvak, M., Spinazzola J. (2016). A pilot study of neurofeedback for chronic PTSD. Applied Psychophysiology and Biofeedback. doi:

Graap, K., Ready, D. J., Freides, D., Daniels, B., & Baltzell, D. (1997). EEG biofeedback treatment for Vietnam veterans suffering from posttraumatic stress disorder. Journal of Neurotherapy, 2(3), 65–66. [Conference Paper]

Kluetsch, R. C., Ros, T., Théberge, J., Frewen, P. A., Calhoun, V. D., Schmahl, C., …Lanius, R. A. (2014). Plastic modulation of PTSD resting-state networks and subjective wellbeing by EEG neurofeedback. Acta Psychiatrica Scandinavica, 130(2),123-136. doi: 10.1111/acps.12229

McReynolds, C., Bell J., Lincourt, T. M. (2017)Neurofeedback: A noninvasive treatment for symptoms of posttraumatic stress disorder in veterans. NeuroRegulation 4(3-4), 114-124.

Peniston, E. G., & Kulkosky, P. J. (1991). Alpha-theta brainwave neuro-feedback therapy for Vietnam veterans with combat-related post-traumatic stress disorder. Medical Psychotherapy, 4, 47–60.

Peniston, E. G., Marrinan, D. A., Deming, W. A., & Kulkosky, P. J. (1993). EEG alpha-theta brainwave synchronization in Vietnam theater veterans with combat-related post-traumatic stress disorder and alcohol abuse. Advances in Medical Psychotherapy, 6, 37–50.

Putman, J. (2000). The effects of brief, eyes-open alpha brain wave training with audio and video relaxation induction on the EEG of 77 Army reservists. Journal of Neurotherapy, 4(1), 17–28.

Nelson, D., & Esty, M. (2012). Neurotherapy of traumatic brain injury/posttrumatic stress symptoms in oef/oif veterans. The Journal of Neuropsychiatry and Clinical Neurosciences, 24(2), 237-240.

Reiter, K., Andersen, S. B., Carlsson, J. (2016). Neurofeedback treatment and posttraumatic stress disorder: effectiveness of neurofeedback on posttraumatic stress disorder and the optimal choice of protocol. The Journal of Nervous and Mental Disease, 204(2), 69-77. doi:

Russo, G. M., Novian, D. A. (2014). A Research Analysis of Neurofeedback Protocols for PTSD and Alcoholism. Journal of NeuroRegulation, 1(2), 183-186.

van der Kolk BA, Hodgdon H, Gapen M, Musicaro R, Suvak MK, Hamlin E, Spinazzola J. A Randomized Controlled Study of Neurofeedback for Chronic PTSD. PLoS One. 2016 Dec 16;11(12):e0166752. doi: 10.1371/journal.pone.0166752. eCollection 2016.

Pain & Headache

Bazanova, O.M., Aftanas, L.I. (2010). Individual EEG alpha activity analysis for enhancement neurofeedback efficiency: Two case studies. Journal of Neurotherapy, 14(3), 244–253.

Coger, R., & Werbach, M. (1975). Attention, anxiety, and the effects of learned enhancement of EEG alpha in chronic pain: A pilot study in biofeedback. Chapter in B. L. Drue, Jr. (Ed.), Pain Research and Treatment. New York: Academic Press.

Gannon, L., & Sternbach, R. A. (1971). Alpha enhancement as a treatment for pain: A case study. Behavior Therapy & Experimental Psychiatry, 2, 209–213.

Ham, L. P., & Packard, R. C. (1996). A retrospective, follow-up study of biofeedback-assisted relaxation therapy in patients with posttraumatic headache. Biofeedback & Self-Regulation, 21(2), 93–104.

Jensen, M.P., Sherlin, L.H., Hakimian, S., Fregni, F. (2009). Neuromodulatory approaches for chronic pain management: Research findings and clinical implications. Journal of Neurotherapy, 13(4), 196–213.

Lehmann, D., Lang, W., & Debruyne, P. (1976). Controlled EEG alpha feedback training in normals and headache patients. Archives of Psychiatry, 221, 331–343.

Matthew, A., Mishm, H., & Kumamiah, V. (1987). Alpha feedback in the treatment of tension headache. Journal of Personality & Clinical Studies, 3(1), 17–22.

McKenzie, R., Ehrisman, W., Montgomery, P. S., & Barnes, R. H. (1974). The treatment of headache by means of electroencephalographic biofeedback. Headache, 13, 164–172.

Jensen, M. P., Grierson, C., Tracy-Smith, V., Bacigalupi, S. C., Othmer, S. (2007). Neurofeedback treatment for pain associated with complex regional pain syndrome. Journal of Neurotherapy, 11(1), 45–53.

Pelletier, K. R., & Pepper, E. (1977). Developing a biofeedback model: Alpha EEG feedback as a means for pain control. International Journal of Clinical & Experimental Hypnosis, 25, 361–371.

Rosenfeld, J. P., Dowman, R., Heinricher, N., & Silvia, R. (1984). Operantly controlled somatosensory evoked potentials: Specific effects on pain processes. Chapter in B. Rockstroh, T. Elbert, W. Lutzenberger, & N. Birbaumer (Eds.), Self-Regulation of the Brain and Behavior. Proceedings of the Second International Symposium on Biofeedback and Self-Regulation, held May 15-19, 1983 at the University of Tübingen. Berlin: Springer-Verlag, pp. 164–179.

Rosenfeld, J. P., Silvia, R., Weitkunat, R., & Dowman, R. (1985). Operant control of human somatosensory evoked potentials alters experimental pain perception. Chapter in H. L. Fields, R. Dubner, & F. Cervero (Eds.), Advances in Pain Research and Therapy, Volume 9: Proceedings of the Fourth World Congress on Pain. New York: Raven Press, 343–349.

Sime, A. (2004). Case study of trigeminal neuralgia using neurofeedback and peripheral biofeedback. Journal of Neurotherapy, 8(1), 59–71.

Siniatchkin, M., Hierundar, A., Kropp, P., Kuhnert, R., Gerber, W-D., & Stephani, U. (2000). Self-regulation of slow cortical potentials in children with migraine: An exploratory study. Applied Psychophysiology & Biofeedback, 25(1), 13–32.

Stokes, D. A., & Lappin, M. (2010) Neurofeedback and biofeedback with 37 migraineurs: a clinical outcome study. Behavioral and Brain Functions, 6(9)

Tansey, M. A. (1991). A neurobiological treatment for migraine: The response of four cases of migraine to EEG biofeedback training. Headache Quarterly: Current Treatment & Research, 90–96.

rTMS

Baruth, J., Casanova, M., El-Baz, A., Horrell, T., Mathai, G., Sears, L. & Sokhadze, E. (2010). Low-frequency repetitive transcranial magnetic stimulation modulates evoked-gamma frequency oscillations in autism spectrum disorder. Journal of Neurotherapy, 14(3), 179–194.

Salehinejad, M. A., Rostami, R., Ghanavati, E. (2015) Transcranial Direct Current Stimulation of Dorsolateral Prefrontal Cortex of Major Depression: Improving Visual Working Memory, Reducing Depressive Symptoms. NeuroRegulation 2(1), 37-49.

Sokhadze, E. M, Casanova, M. F., El-Baz, A. S., Farag, H. E., Li, Z., Wang, Y. (2016) RMS-based neuromodulation of evoked and induced gamma oscillations and event-related potentials in children with autism. NeuroRegulation 3(3), 101-126.

Thomasson, F. & Arns, M. (2010) Are the effects of rTMS in Parkinson's disease clinically relevant? Journal of Neurotherapy, 14(2), 96–101.

Richardson, J., Fillmore, P., Datta, A., Truong, D., Bikson, M., Fridriksson, J. (2014). Toward Development of Sham Protocols for High-Definition Trans-Cranial Direct Current Stimulation (HD-tCDS). Journal of NeuroRegulation, 1(1) 62-72.

Schizophrenia

Bolea, A. S. (2010). Neurofeedback treatment of chronic inpatient schizophrenia. Journal of Neurotherapy, 14(1), 47–54.

Gruzelier, J. (2000). Self regulation of electrocortical activity in schizophrenia and schizotypy: A review. Clinical Electroencephalography, 31(1), 23–29.

Gruzelier, J., Hardman, E., Wild, J., Zaman, R., Nagy, A., & Hirsch, S. (1999). Learned control of interhemispheric slow potential negativity in schizophrenia. International Journal of Psychophysiology, 34, 341–348.

Schneider, F., Rockstroh, B., Heimann, H. et al. (1992). Self-regulation of slow cortical potentials in psychiatric patients: Schizophrenia. Biofeedback & Self-Regulation, 17, 277–292.

Sürmeli T, Ertem A, EralpE, Kos IH. (2012). Schizophrenia and the efficacy of qEEG-guided neurofeedback treatment: a clinical case series. Clinical EEG& Neuroscience Journal, 43(2), 133-44.

Sleep

Arns, M., Swatzyna, R.J., Gunkelman, J., & Olbrich, S. (2015). Sleep maintenance, spindling excessive beta and regulatory systems approach? Neuropsychiatric Electrophysiology electronically published June 2015.

Bell, J. S. (1979). The use of EEG theta biofeedback in the treatment of a patient with sleep-onset insomnia. Biofeedback & Self Regulation, 4(3), 229–236.

Berner, I., Schabus, M., Wienerroither, T., & Klimesch, W. (2006). The significance of sigma neurofeedback training on sleep spindles and aspects of declarative memory. Applied Psychophysiology & Biofeedback, 31(2), 97–114.

Buckelew, S., Degood, D., Taylor. J., (2013). Neuroflexibilty and sleep onset insomnia among college students: Implication for neurotherapy. Journal of Neurotherapy.

Hoedlmoser, K., Pecherstorfer, T., Gruber, E., Anderer, P., Doppelmayr, M., Klimesch, W., & Schabus, M. (2008). Instrumental conditioning of human sensorimotor rhythm (12–15 Hz) and its impact on sleep as well as declarative learning. Sleep, 31(10), 1401–1408.

Hammond, D. C (2012). Neurofeedback treatment of restless legs syndrome and periodic leg movements in sleep. Journal of Neurotherapy.

Feinstein, B., Sterman, M. B., & MacDonald, L. R. (1974). Effects of sensorimotor rhythm training on sleep. Sleep Research, 3, 134.

Sterman, M. B., Howe, R. D., & Macdonald, L. R. (1970). Facilitation of spindle-burst sleep by conditioning of electroencephalographic activity while awake. Science, 167, 1146–1148

Slow Cortical Potential Neurofeedback

Birbaumer, N., Elbert, T., Canavan, A. G. M., & Rockstroh, B. (1990). Slow potentials of the cerebral cortex and behavior. Physiological Reviews, 70, 1–41.

Birbaumer, N., Roberts, L. E., Lutzenberger, W., Rockstroh, B., & Elbert, T. (1992). Area-specific self-regulation of slow cortical potentials on the saggital midline and its effects on behavior. Electroencephalography & Clinical Neurophysiology, 84 353–361.

Brody, S., Rau, H., Kohler, F., Schupp, H., Lutzenberger, W., & Birbaumer, N. (1994).Slow cortical potential biofeedback and the startle reflex. Biofeedback & Self-Regulation, 19(1), 1–12.

Doehnert, M. Brandeis, D., Straub, M., Steinhausen, H. C., & Drechsler, R. (2008). Slow cortical potential neurofeedback in attention deficit hyperactivity disorder: Is there neurophysiological evidence for specific effects? Journal of Neural Transmission, 115, 1445–1456.

Drechsler R, Straub M, Doehnert M, Heinrich H, Steinhausen H, Brandeis D. (2007). Controlled evaluation of a neurofeedback training of slow cortical potentials in children with ADHD. Behavioral & Brain Functions, 3, 35.

Elbert, T. (1980). Biofeedback of slow cortical potentials. Part I. Journal of Electroencephalography & Clinical Neurophysiology, 48, 293–301.

Elbert, T., Lutzenberger, W., Rockstroh, B., & Birbaumer, N. (1983). When regulation of slow brain potentials fails BA contribution to the psychophysiology of perceptual aberration and anhedonia. Advances in Biological Psychiatry, 13, 98–106.

Gani C, Birbaumer N & Strehl U.(2008). Long term effects after feedback of slow corticalpotentials and of theta-beta amplitudes in children with attention-deficit/ hyperactivity disorder(ADHD). International Journal of Bioelectromagnetism, 10(4), 209–232.

Kleinnijenhuis, M., Arns, M., Spronk, D., Bretler, R., & Duysens, J. (2007). Comparison of discrete-trial-based SMR and SCP training and the interrelationship between SCP and SMR networks: Implications for brain-computer interfaces and neurofeedback. Journal of Neurotherapy, 11(4), 19–35.

Kotchoubey, B., Schleichert, H., Lutzenberger, W., & Birbaumer, N. (1997). A new method for self-regulation of slow cortical potentials in a timed paradigm. Applied Psychophysiology & Biofeedback, 22(2), 77–93.

Kropp, P., Siniatchkin, M., & Gerber, W. D. (2002). On the pathophysiology of migraine: Links for Aempirically based treatment@ with neurofeedback. Applied Psychophysiology & Biofeedback, 27(3), 203–213.

Leins, U., Goth, G., Hinterberger, T., Klinger, C., Rumpf, N., & Strehl, U. (2007). Neurofeedback for children with ADHD: A comparison of SCP and theta/beta protocols. Applied Psychophysiology & Biofeedback, 32(2), 73–88.

Mayer, K., Wyckoff, S. N., Strehl, U. (2013). One size fits all? slow cortical potentials neurofeedback: a review. Journal of Attention Disorders, 17(5) 393-409. doi: 10.1177/1087054712468053

Roberts, L. E., Birbaumer, N., Rockstroh, B., Lutzenberger, W., & Elbert, T. (1989). Self-report during feedback regulation of slow cortical potentials. Psychophysiology, 26(4), 392–403.

Rockstroh, B. (1987). Operant control of slow brain potentials. Chapter in J. N. Hengtgen, D. Hellhammer, & G. Huppmann (Eds.), Advanced Methods in Psychobiology. C. H. Hogrefe, 179-190.

Rockstroh, B., Birbaumer, N., Elbert, T., & Lutzenberger, W. (1984). Operant control of spontaneous EEG, evoked potentials and slow potentials of the brain. Biofeedback & Self-Regulation, 9(2), 139–160.

Rockstroh, B., Elbert, T., Birbaumer, N. J., & Lutzenberger, W. (1990). Biofeedback-produced hemispheric asymmetry of slow cortical potentials and its behavioural effects. International Journal of Psychophysiology, 9, 151–165.

Rockstroh, B., Elbert, T., Lutzenberger, W., & Birbaumer, N. (1982). The effects of slow cortical potentials on response speed. Psychophysiology, 19, 211–217.

Siniatchkin, M., Kropp, P., & Gerber, W-D. (2000). Neurofeedback: The significance of reinforcement and the search for an appropriate strategy for the success of self-regulation. Applied Psychophysiology & Biofeedback, 25(3), 167–175.

Spronk, D.S., Kleinnijenhuis, M., van Luijtelaar, G., Arns, M. (2010). Discrete-trial SCP and GSR training and the interrelationship between central and peripheral arousal. Journal of Neurotherapy, 14(3), 217–228.

Strehl, U. (2009). Slow cortical potentials neurofeedback. Journal of Neurotherapy, 13(2), 117–126.

TBI, Stroke, Coma, & Cerebral Palsy

Ayers, M. E. (1981). A report on a study of the utilization of electroencephalography for the treatment of cerebral vascular lesion syndromes. Chapter in L. Taylor, M. E. Ayers, & C. Tom (Eds.), Electromyometric Biofeedback Therapy. Los Angeles: Biofeedback and Advanced Therapy Institute, 244–257.

Ayers, M. E. (1987). Electroencephalic neurofeedback and closed head injury of 250 individuals. Head Injury Frontiers. National Head Injury Foundation, 380–392.

Ayers, M. E. (1991). A controlled study of EEG neurofeedback training and clinical psychotherapy for right hemispheric closed head injury. Paper presented at the National Head Injury Foundation, Los Angeles, 1991.

Ayers, M. E. (1995a). A controlled study of EEG neurofeedback and physical therapy with pediatric stroke, age seven months to age fifteen, occurring prior to birth. Biofeedback & Self-Regulation, 20(3), 318.

Ayers, M. E. (1995b). EEG neurofeedback to bring individuals out of level 2 coma. Biofeedback & Self-Regulation, 20(3), 304–305.

Ayers, M. E. (1999). Assessing and treating open head trauma, coma, and stroke using real-time digital EEG neurofeedback. Chapter in J. R. Evans & A. Abarbanel (Eds.), Introduction to Quantitative EEG and Neurofeedback. New York: Academic Press, 203–222.

Ayers, M. E. (2004). Neurofeedback for cerebral palsy. Journal of Neurotherapy, 8(2), 9394.

Bachers, A. (2004). Neurofeedback with cerebral palsy and mental retardation. Journal of Neurotherapy, 8(2), 95–96.

Bearden, T. S., Cassisi, J. E., & Pineda, M. (2003). Neurofeedback training for a patient with thalamic and cortical infarctions. Applied Psychophysiology & Biofeedback, 28(3), 241–253.

Bounias, M., Laibow, R. E., Bonaly, A., & Stubblebine, A. N. (2002). EEGneurobiofeedback treatment of patients with brain injury: Part 1: Typological classification of clinical syndromes. Journal of Neurotherapy, 5(4), 23–44.

Bounias, M., Laibow, R. E., Stubbelbine, A. N., Sandground, H., & Bonaly, A. (2002). EEGneurobiofeedback treatment of patients with brain injury Part 4: Duration of treatments as a function of both the initial load of clinical symptoms and the rate of rehabilitation. Journal of Neurotherapy, 6(1), 23–38.

Byers, A. P. (1995). Neurofeedback therapy for a mild head injury. Journal of Neurotherapy, 1(1), 22–37.

Cannon, K. B., Sherlin, L., & Lyle, R. R. (2010). Neurofeedback efficacy in the treatment of a 43-year-old female stroke victim: a case study. Journal of Neurotherapy, 14(2), 107–121.

Doppelmayr, M., Nosko, H., Pecherstorfer, T., & Fink, A. (2007). An attempt to increase cognitive performance after stroke with neurofeedback. Biofeedback, 35(4), 126–130.

Duff, J. (2004). The usefulness of quantitative EEG (QEEG) and neurotherapy in the assessment and treatment of post-concussion syndrome. Clinical EEG & Neuroscience, 35(4), 198–209.

Hammond, D. C. (2005). Neurofeedback to improve physical balance, incontinence, and swallowing. Journal of Neurotherapy, 9(1), 27–48.

Hammond, D. C. (2007). Can LENS neurofeedback treat anosmia resulting from a head injury? Journal of Neurotherapy, 11(1), 57–62.

Hoffman, D. A., Stockdale, S., & Van Egren, L. (1996a). Symptom changes in the treatment of mild traumatic brain injury using EEG neurofeedback [Abstract]. Clinical Electroencephalography, 27(3), 164.

Hoffman, D. A., Stockdale, S., & Van Egren, L. (1996b). EEG neurofeedback in the treatment of mild traumatic brain injury [Abstract]. Clinical Electroencephalography, 27(2), 6.

Keller, I. (2001). Neurofeedback therapy of attention deficits in patients with traumatic brain injury. Journal of Neurotherapy, 5(1-2), 19–32.

Keller, I., Garbacenkaite, R., (2015). Neurofeedback in three patients in the state of unresponsive wakefulness. Applied Psychophysiology & Biofeedback, 40(4), 349-356. doi: 10.1007/s10484-015-9296-7

Laibow, R E., Stubblebine, A. N., Sandground, H.,& Bounias, M. (2002). EEG neurobiofeedback treatment of patients with brain injury: Part 2: Changes in EEG parameters versus rehabilitation. Journal of Neurotherapy, 5(4), 45–71

Nelson, D., & Esty, M. (2012). Neurotherapy of traumatic brain injury/posttrumatic stress symptoms in oef/oif veterans. The Journal of Neuropsychiatry and Clinical Neurosciences, 24(2), 237-240.

Putman, J. A., (2002). EEG biofeedback on a female stroke patient with depression: A case study. Journal of Neurotherapy, 5(3), 27–38.

Rozelle, G. R., & Budzynski, T. H. (1995). Neurotherapy for stroke rehabilitation: A single case study. Biofeedback & Self-Regulation, 20(3), 211–228.

Schoenberger, N. E., Shiflett, S. C., Esty, M. L., Ochs, L., & Matheis, R. J. (2001). Flexyx neurotherapy system in the treatment of traumatic brain injury: An initial evaluation. Journal of Head Trauma Rehabilitation, 16(3), 260–274.

Swatzyna, R.J. (2009). The Elusive Nature of Mild Traumatic Brain Injury. Biofeedback, 37(3): 92-95.

Thatcher, R. W. (2000). EEG operant conditioning (biofeedback) and traumatic brain injury. Clinical Electroencephalography, 31(1), 38–44.

Thornton, K. (2000). Improvement/rehabilitation of memory functioning with neurotherapy/QEEG biofeedback. Journal of Head Trauma Rehabilitation, 15(6), 12851296.

Thornton, K. (2002) The improvement/rehabilitation of auditory memory functioning with EEG biofeedback. Neurorehabilitation, 17(1), 69–81

Thornton, K. E., & Carmody, D. P. (2005). Electroencephalogram biofeedback for reading disability and traumatic brain injury. Child & Adolescent Psychiatric Clinics of North America, 14(1), 137–162.

Thornton, K. E., & Carmody, D. P. (2008). Efficacy of traumatic brain injury rehabilitation: Interventions of QEEG-guided biofeedback, computers, strategies, and medications. Applied Psychophysiology & Biofeedback, 33(2), 101–124.

Tinius, T. P., & Tinius, K. A. (2001). Changes after EEG biofeedback and cognitive retraining in adults with mild traumatic brain injury and attention deficit disorder. Journal of Neurotherapy, 4(2), 27–44.

Walker, J. E. (2007). A neurologist's experience with QEEG-guided neurofeedback following brain injury. Chapter in J. R. Evans (Ed.), Handbook of Neurofeedback. Binghampton, NY: Haworth Medical Press, 353–361.

Wing, K. (2001). Effect of neurofeedback on motor recovery of a patient with brain injury: A case study and its implications for stroke rehabilitation. Topics in Stroke Rehabilitation, 8(3), 45–53.

Yoo, S. S., & Jolesz, F. A. (2002). Functional MRI for neurofeedback: feasibility study on a hand motor task. Neuroreport, 13, 1377–1381.

Theoretical, Conceptual, Standards, & Review Articles

Aguilar-Prinsloo, S., Lyle, R. (2010). Client perception of the neurofeedback experience: The untold perspective. Journal of Neurotherapy, 14(1), 55–60.

Abarbanel, A. (1995). Gates, states, rhythms, and resonances: The scientific basis of neurofeedback training. Journal of Neurotherapy, 1(2), 15–38.

Balconi, M. (2012). Encoding of emotional facial expression in direct and incidental tasks: An event-related potentials N200 effect. Journal of Neurotherapy.

Black, L.M., Hudspeth, W.J., Townsend, A.L., Bodenhamer-Davis, E. (2008). EEG connectivity patterns in childhood sexual abuse: A multivariate application considering curvature of brain space. Journal of Neurotherapy, 12(2–3), Pages 141–160.

Butnik, S. M. (2005). Neurofeedback in adolescents and adults with attention deficit disorder. Journal of Clinical Psychology, 61(5), 621–625.

Coben, R., Hudspeth, W.J. (2008). Introduction to advances in EEG connectivity. Journal of Neurotherapy, 12(2–3), 93–98.

Coben, R., & Myers, T. E. (2008). Connectivity theory of autism: Use of connectivity measures in assessing and treating autistic disorders. Journal of Neurotherapy, 12(2-3), 161–179.

Collura, T. (2008). Toward a coherent view of brain connectivity. Journal of Neurotherapy, 12(2–3), 99–110.

Egner, T., Zech, T. F., & Gruzelier, J. H. (2004). The effects of neurofeedback training on the spectral topography of the electroencephalogram. Clinical Neurophysiology, 115, 2452–2460.

Egner, T., & Gruzelier, J. H. (2004). The temporal dynamics of electrode encephalographic responses to alpha/theta neurofeedback training in healthy subjects. Journal of Neurotherapy, 8(1), 43–57.

Egner, T., Strawson, E., & Gruzelier, J. H. (2002). EEG signature and phenomenology of alpha/theta neurofeedback training versus mock feedback. Applied Psychophysiology & Biofeedback, 27(4), 261–270.

Egner, T., & Sterman, M. B. (2006). Neurofeedback treatment of epilepsy: From basic rationale to practical application. Expert Review of Neurotherapeutics, 6(2), 247–257.

Engelbregt HJ, Keeser D, van Eijk L, Suiker EM, Eichhorn D, Karch S, Deijen JB, Pogarell O. Short and long-term effects of sham-controlled prefrontal EEG-neurofeedback training in healthy subjects. Clin Neurophysiol. 2016 Apr;127(4):1931-7. doi: 10.1016/j.clinph.2016.01.004. Epub 2016 Jan 22.

Fehmi, L. G., & Collura, T. (2007). Effects of electrode placement upon EEG biofeedback training: The monopolar-bipolar controversy. Journal of Neurotherapy, 11(2), 45–63.

Fehmi, L. G. (2007). Multichannel EEG phase synchrony training and verbally guided attention training for disorders of attention. Chapter in J. R. Evans (Ed.), Handbook of Neurofeedback, Binghampton, NY: Haworth Medical Press, pp. 301–319.

Fehmi, L. G., & Sundor, A. (1989). The effects of electrode placement upon EEG biofeedback training: The monopolar-bipolar controversy. International Journal of Psychosomatics, 36(1–4), 23–33.

Frederick, J. A., Dunn, K. N., Collura, T. F. (2015) Interactions Between Discrimination and Control of EEG Alpha. NeuroRegulation 2(3). 126-136.

Fox, D. J., Tharp, D. F., & Fox, L. C. (2005). Neurofeedback: An alternative and efficacious treatment for attention deficit hyperactivity disorder. Applied Psychophysiology & Biofeedback, 30(4), 365–274.

Grechko, O., Gontar, V. (2009). Visual stimuli generated by biochemical reactions discrete chaotic dynamics as a basis for neurofeedback. Journal of Neurotherapy, 13(1), 30–40.

Gruzelier, J., & Egner, T. (2005). Critical validation studies of neurofeedback. Child & Adolescent Psychiatric Clinics of North America, 14(1), 83–104.

Gruzelier, J. (2009). A theory of alpha/theta neurofeedback, creative performance enhancement, long distance functional connectivity and psychological integration. Cognitive Processing, 10 (Suppl 1), S101–109.

Hammond, D. C., Walker, J., Hoffman, D., Lubar, J. F., Trudeau, D., Gurnee, R., & Horvat, J. (2004). Standards for the use of quantitative electroencephalography (QEEG) in neurofeedback: A position paper of the International Society for Neuronal Regulation. Journal of Neurotherapy, 8(1), 5–27.

Hammond, D. C. (2005). Temporal lobes and their importance in neurofeedback. Journal of Neurotherapy, 9(1), 67–87.

Hammond, D. C. (2006). What is neurofeedback? Journal of Neurotherapy, 10(4), 25–36.

Hammond, D. C. (2007). Comprehensive neurofeedback bibliography: 2007 update. Journal of Neurotherapy, 11(3), 45–60.

Heinrich, H., Gevensleben, H., & Strehl, U. (2007). Annotation: Neurofeedback—Train your brain to train behaviour. Journal of Child Psychology and Psychiatry, 48, 3–16

Hillman, H., Chapman, C. (2018). Biofeedback and Anger Management: A Literature Review. NeuroRegulation 5(1), 43.

Hirshberg, L. M. (2007). Place of electroencephalographic biofeedback for attentiondeficit/ hyperactivity disorder. Expert Review of Neurotherapeutics, 7(4), 315–319.

Holtmann, M., Stadler, C., Leins, U., Strehl, U., Birbaumer, N.,& Poustka, F. (2004). Neurofeedback for the treatment of attention-deficit/hyperactivity disorder (ADHD) in childhood and adolescence. Zeitschrift fur Kinder-und Jugendpsychiatrie und Psychotherapie, 32(3), 187–200.

Horvat, J. J. (2007). Coherence and the quirks of coherence/phase training: A clinical perspective. Chapter in J. R. Evans (Ed.), Handbook of Neurofeedback. Binghampton, NY: Haworth Medical Press, pp. 213–227.

Ibric, V.L., Dragomirescu, L.G., Hudspeth, W.J. (2009). Real-time changes in connectivities during neurofeedback. Journal of Neurotherapy, 13(3), 156–165.

Joffe, D. (2008). Connectivity assessment and training: A partial directed coherence approach. Journal of Neurotherapy, 12(2–3), 111–122.

Johnson, M.L., Bodenhamer-Davis, E. (2009). QEEG-based protocol selection: A study of level of agreement on sites, sequences, and rationales among a group of experienced QEEG-based neurofeedback practitioners. Journal of Neurotherapy, 13(1), 41–66.

Jones, M. S. (2015). Comparing DC offset and impedance readings in the assessment of electrode connection quality. NeuroRegulation, 2(1), 29-36.

Kaiser, D. A. (2006). What is quantitative EEG? Journal of Neurotherapy, 10(4), 2536.

Kaiser, D. A. (2008). Functional connectivity and aging: Comodulation and coherence differences. Journal of Neurotherapy, 12(2–3), 123–139.

Kirk, L. (2007). Neurofeedback protocols for subtypes of attention deficit/hyperactivity disorder. Chapter in J. R. Evans (Ed.), Handbook of Neurofeedback. Binghampton, NY: Haworth Medical Press, pp. 267–299.

Krigbaum, G & Wigton, N (2014). When Discussing Neurofeedback, Does Modality Matter?. Journal of NeuroRegulation, 1(1), 48-60.

Larson, J., Apa, B., Sheehan, L. L., Cothran, T. P, & O'Neill, K. (2014), Quality of Work Life Factors for Mental Health Therapists Providing Neurofeedback. Journal of NeuroRegulation, 1(2), 151-164.

Larson, J., Ryan, C., Baerentzen, M. (2010). Practitioner perspectives of neurofeedback therapy for mental health and physiological disorders. Journal of Neurotherapy, 14(4), 280–290.

Larson, J., Sheehan, L., Cothran, T. P., O'Neill, K., & Apa, B. (2014) Neurofeedback Practicioner Factors Related to Client Adherence. Journal of NeuroRegulation, 1(1) 73-85.

Llewellyn Smith, M., Collura, T. F, Ferrera, J., & de Vries, J. (2014) Infro-slow Fluctuation Training in Clinical Practice: A Technical History. Journal of NeuroRegulation, 1(2), 187-207.

Lubar, J. F. (1991). Discourse on the development of EEG diagnostics and biofeedback for attention-deficit/hyperactivity disorders. Biofeedback & Self-Regulation, 16(3), 201225.

Lubar, J. F. (1997). Neocortical dynamics: Implications for understanding the role of neurofeedback and related techniques for the enhancement of attention. Applied Psychophysiology & Biofeedback, 22(2), 111–126.

Lubar, J. F. (2003). Neurofeedback for the management of attention-deficit/hyperactivity disorders. Chapter in M. S. Schwartz & F. Andrasik (Eds.), Biofeedback: A Practitioner's Guide (Third Edition). New York, Guilford, 409–437.

Monastra, V. J. (2003). Clinical applications of electroencephalographic biofeedback. Chapter in M. S. Schwartz & F. Andrasik (Eds.), Biofeedback: A Practitioner's Guide (Third Edition). New York, Guilford, 438–463.

Monastra, V. J. (2005). Electroencephalographic biofeedback (neurotherapy) as a treatment for attention deficit disorder: Rational and empirical foundation. Child & Adolescent Psychiatric Clinics of North America, 14(1), 53–82.

Monastra, V. J., Lynn, S., Linden, M., Lubar, J. F., Gruzelier, J., & LaVaque, T. J. (2005). Electroencephalographic biofeedback in the treatment of attention-deficit/hyperactivity disorder. Applied Psychophysiology & Biofeedback, 30(2), 95–114.

Montopoli, M., Stevens, L. C., Smith, C., Montopoli, G., Passino, S., Brown, S., Camou, L., Carson, K., Maaske, S., Knights, K., Gibson, W., Wu, J. (2015). The Acute Electrocortical and Blood Pressure Effects of Chocolate. NeuroRegulation, 2(1) 3-29.

Moore, J. P., Trudeau, D. L., Thuras, P. D., Rubin, Y., Stockley, H., & Dimond, T. (2000). Comparison of alpha-theta, alpha and EMG neurofeedback in the production of alpha-theta crossover and the occurrence of visualizations. Journal of Neurotherapy, 4(1), 2942.

Myers, J. & Young, J. S. (2012). Brain wave biofeedback: Benefits of integrating neurofeedback in counseling. Journal of Counseling and Development. 90(1), 20-29.

Nelson, L. A. (2003). Neurotherapy and the challenge of empirical support: A call for a neurotherapy practice research network. Journal of Neurotherapy, 7(2), 53–67.

Othmer, S. (2005). Interhemispheric EEG training. Journal of Neurotherapy, 9(2), 87–96.

Othmer, S., Othmer, S.F., Legarda, S. (2011). Clinical Neurofeedback: Training Brain Behavior. Treatment Strategies—Pediatric Neurology and Psychiatry, 2(1):67-73

Pineda, J. A., Silverman, D. S., Vankov, A., & Hestenes, J. (2003). Learning to control brain rhythms: making a brain-computer interface possible. Neural Systems & Rehabilitation Engineering, IEEE Transactions, 11(2), 181–184.

Raymond, J., Varney, C., Parkinson, L. A., & Gruzelier, J.H. (2005). The effects of alpha/theta neurofeedback on personality and mood. Brain Research & Cognitive Brain Research, 23(2–3), 287–292.

Richardson, J., Fillmore, P., Datta, A., Truong, D., Bikson, M., Fridriksson, J. (2014). Toward Development of Sham Protocols for High-Definition Trans-Cranial Direct Current Stimulation (HD-tCDS). Journal of NeuroRegulation, 1(1) 62-72.

Roberts, A. M., Fillmore, P., Decker, S. L. (2016) Clinical Applicability of the Test-retest Reliability of qEEG Coherence. NeuroRegulation 3(1), 7-22.

Rossiter, T. R. (2004). The effectiveness of neurofeedback and stimulant drugs in treating AD/HD: Part I. Review of methodological issues. Applied Psychophysiology & Biofeedback, 29(2), 135–140.

Sams, M. W., (1995). Mathematically derived frequency correlates in cerebral function: Theoretical and clinical implications for neurofeedback treatment. Journal of Neurotherapy, 1(2), 1–14.

Sherlin, L., Arns, M., Lubar, J., & Sokhadze, E. (2010). A position paper on neurofeedback for the treatment of ADHD. Journal of Neurotherapy, 14(2), 66–78.

Sittenfeld, P., Budzynski, T. H., & Stoyva, J. M. (1976). Differential shaping of EEG theta rhythms. Biofeedback & Self-Regulation, 1, 31–46.

Stankus, T. (2008). Can the brain be trained? Comparing the literature on the use of EEG biofeedback/neurofeedback as an alternative or complementary therapy for attention deficit disorder (ADHD). Behavioral & Social Sciences Librarian, 26(4), 20–56.

Sterman, M. B., & Egner, T. (2006). Foundation and practice of neurofeedback for the treatment of epilepsy. Applied Psychophysiology & Biofeedback, 31(1), 21–36.

Strehl, U. (2009) Slow cortical potentials neurofeedback. Journal of Neurotherapy, 13(2), 117–126.

Strehl U (2014) What learning theories can teach us in designing neurofeedback treatments. Front. Hum. Neurosci. 8:894. doi: 10.3389/fnhum.2014.00894

Strehl, U., Leins, U., Goth, G., Klinger, C., Hinterberger, T., and Birbaumer, N. (2006). Self-regulation of slow cortical potentials: A new treatment for children with attentiondeficit/ hyperactivity disorder. Pediatrics, 118, 1530–1540.

Strehl, U., Trevorrow, T., Veit, R., Hinterberger, T., Kotchoubey, B., Erb, M., & Birbaumer, N. (2006). Deactivation of brain areas during self-regulation of slow cortical potentials in seizure patients. Applied Psychophysiology & Biofeedback, 31(1), 85–94.

Swatzyna, R.J., Kozlowski, G.P. & Tarnow, J.D. (2015). Pharmaco-EEG: A Study of Individualized Medicine in Clinical Practice. Clinical EEG and Neuroscience. Vol. 46(3) 192-196: DOI: 10.1177/15500594|4556|20

Swatzyna, R.J., Tarnow, J.D., Tannous, J., Schieszler, C., Pillai, V.J. & Kozlowski, G.P. (2014). EEG/QEEG Technology Identifies Neurobiomarkers Critical to Medication Selection and Treatment: A Preliminary Study. Journal of Psychology and Clinical Psychiatry.

Tan G, Thornby J, Hammond DC, Strehl U, Canady B, Arnemann K, & Kaiser DA (2009/in press). Meta-analysis of EEG biofeedback in treating epilepsy. Clinical EEG and Neuroscience, 40 (3).

Thatcher, R. W. (2010). Validity and reliability of quantitative electroencephalography. Journal of Neurotherapy,14(2), 122–152.

Thomas, James L. (2012). Neurofeedback: A new modality for treating brain problems. Archives of Medical Psychology, 3(1), 21-35.

Thornton, K. (2001). Electrophysiology of auditory memory of paragraphs towards a projection/ activation theory of the mind. Journal of Neurotherapy, 4(3), 45–72.

Thornton, K.E., Carmody, D.P. (2009). Eyes-closed and activation QEEG databases in predicting cognitive effectiveness and the inefficiency hypothesis. Journal of Neurotherapy, 13(1), 1–21.

Thornton, K. E., & Carmody, D. P. (2009). Traumatic brain injury rehabilitation: QEEG biofeedback treatment protocols. Applied Psychophysiology & Biofeedback, 34(1), 5968.

Thornton, K. E., & Carmody, D. P. (2009). Traumatic brain injury rehabilitation: QEEG biofeedback treatment protocols. Applied Psychophysiology & Biofeedback, 34, 59–68.

Thorton, Kirtley, E. Carmodly, D, P. (2012). Symbol digit and quantitative EEG. Journal of Neurotherapy

Vernon, D., Frick, A., & Gruzelier, J. (2004). Neurofeedback as a treatment for ADHD: A methodological review with implications for future research. Journal of Neurotherapy, 8(2), 53–82.

Walker, J. E., & Horvat, J. (2010). Is it better to train power first or coherence first? Journal of Neurotherapy, 14(2), 102–106.

Walker, J. (2004). A neurologist's advice for mental health professionals on the use of QEEG and neurofeedback. Journal of Neurotherapy, 8(2), 97–103.

Walker, J. E., Kozlowski, G. P., & Lawson, R. (2007). A modular activation/coherence approach to evaluating clinical/QEEG correlations and for guiding neurofeedback training: Modular insufficiencies, modular excesses, disconnections, and hyperconnnections. Journal of Neurotherapy, 11(1), 25–44.

Tansey, M. A. (1986). A simple and a complex tic (Gilles de la Tourette's syndrome): Their response to EEG sensorimotor rhythm biofeedback training. International Journal of Psychophysiology, 4(2), 91–97.

Bonnstetter, R. J., Hebets, D., Wigton, N. L., (2015). Frontal Gamma Asymmetry in Response to Soft Skills Stimuli: A Pilot Study. NeuroRegulation 2(2), 70-85.

Collura, T. F., Guan, J., Tarrant, J., Bailey, J., & Starr, F. (2010). EEG biofeedback case studies using live Z-score training and a normative database. Journal of Neurotherapy, 14(1), 22–46.

Collura, T. F. (2009). Neuronal dynamics in relation to normative electroencephalography assessment and training. Biofeedback, 36, 134–139.

Hammer, B.U., Colbert, A.P., Brown, K.A. and Ilioi, E. C. (2011). Neurofeedback for Insomnia: A Pilot Study of Z-Score SMR and Individualized Protocols. Applied Psychophysiology and Biofeedback, DOI 10.1007/s10484-011-9165-y

Koberda, J.L. (2011). Clinical advtabges of quantitative electroencephalogram (QEEG) application in general neurology ractice. Neuroscience Letters, 500(Suppl.), e32.

Koberda, J.L, Moses, A., Koberda, L. and Koberda, P. (2012). Cognitive enhancement using 19-Electrode Z-score neurofeedback. Journal of Neurotherapy, 16(3): 224-230.

Koberda, J.L, Hiller, D.S., Jones, B., Moses, A., and Koberda, L. (2012). Application of Neurofeedback in general neurology practice. Journal of Neurotherapy, 16(3): 231-234.

Koberda, J.L. (2014). Neuromodulation-An Emerging Therapeutic Modality in Neurology. Journal of Neurology and Stroke 2014, 1(4): 00027

Koberda J, L. and Stodolska-Koberda U (2014). Z-score LORETA Neurofeedback as a Potential Rehabilitation Modality in Patients with CVA. Journal of Neurology and Stroke 1(5): 00029.

Koberda, J.L. et al. 2012. Cognitive enhancement using 19-electrode Z-score Neurofeedback. Journal of Neurotherapy 3.

Koberda JL, Koberda P, Bienkiewicz A, Moses A, Koberda L. Pain Management Using 19-Electrode Z-Score LORETA Neurofeedback. Journal of Neurotherapy, 2013, 17:3, 179-190.

Koberda,J.L. (2012). Comparison of the effectiveness of Z-score Surface/LORETA 19- electrode Neurofeedback to standard 1-electrode Neurofeedback- Journal of Neurotherapy.

Kodebra, J. L. (2015). LORETA z-score neurofeedback-effectiveness in rehabilitation of patients suffering from traumatic brain injury. Journal of Neurology and Neurobiology, 1 (4). doi:

Koberda, J. L., Koberda, P., Moses, A., Winslow, J., Bienkiewicz, A., Koberda, L. (2014). Z-score LORETA neurofeedback as a potential therapy for ADHD. Biofeedback, 42(2), 74-81. doi: 10.5298/1081-5937-42.2.05

Koberda, J. L. (2014). Z-score LORETA neurofeedback as a potential therapy in cognitive dysfunction and dementia. Journal of Psychology & Clinical Psychiatry, 1(6). doi: 10.15406/jpcpy.2014.01.00037

Koberda, J. L., Frey L. C. (2015). Z-score LORETA neurofeedback as a potential therapy for patients with seizures and refractory epilepsy. Journal of Neurology and Neurobiology, 1(1) doi: http://dx.doi. org/10.16966/noa.101\

Frey, L.C., Koberda J.L. (2015). LORETA Z-score neurofeedback in patients with medically refractory epilepsy. Journal of Neurology and Neurobiology, 1(1). doi:

Krigbaum, G., Wigton, N. (2015). A methodology of analysis for monitoring treatment

progression with 19-channel z-score neurofeedback (19ZNF) in a single-subject design. Applied Psychophysiology & Biofeedback, 40(3), 139-149. doi: 10.1007/s10484-015-9274-0

Thompson, M., Thompson, L., & Reid, A. (2010). Functional Neuroanatomy and the Rationale for Using EEG Biofeedback for Clients with Asperger's Syndrome. Journal of Applied Psychophysiology and Biofeedback, 35(1), 39-61.

Thatcher, R.W. (2013): Latest Developments in Live Z-Score Training: Symptom Check List, Phase Reset, and Loreta Z-Score Biofeedback, Journal of Neurotherapy, 17(1), 69- 87.

Thatcher, R.W. (2013). Latest Developments in Live Z-Score Training: Symptom Check List, Phase Reset, and Loreta Z-Score Biofeedback. Version of record first published: Journal of Neurotherapy. 17(1)

Wigton, N.L. (2013) Clinical Perspectives of 19-Channel Z-Score Neurofeedback: Benefits and Limitations, Journal of Neurotherapy, 17(4), 259-264.

Disclaimer: All articles, documents and publications mentioned by or linked by this site or hosted at this site have been provided by The International Society for Neurofeedback and Research (ISNR) as a public service. There is absolutely no endorsement by ISNR of any statement made in any of these documents, articles, or publications.

Expect to see differences of opinion between authors. That is the essence of free and open scientific study.

Last updated BAT 11/11/2016 1588