

Referenties principe 1: Voeding

¹ Haier, R.J., Siegel, B.V.Jr., MacLachlan, A., Soderling, E., Lottenberg, S. & Buchsbaum, M.S. *Regional glucose metabolic changes after learning a complex visuospatial/motor task: a positron emission tomographic study.* *Brain Research*, 1992, 570(1), 134–143.

Haier, R.J., Siegel, B.V.Jr., Tang, C., Abel, L. & Buchsbaum, M.S. *Intelligence and changes in regional cerebral glucose metabolic rate following learning.* *Intelligence*, 1992, 16(3), 415–426.

² Haier, R.J., Siegel, B.V., Nuechterlein, K.H., Hazlett, E., Wu, J.C., Paek, J., Browning, H.L. & Buchsbaum, M.S. *Cortical glucose metabolic rate correlates of abstract reasoning and attention studied with positron emission tomography.* *Intelligence*, 1988, 12(2), 199–217.

³ Parks, R.W., Crockett, D.J., Tuokko, H., Beattie, B.L., Ashford, J.W., Coburn, K.L., Zec, R.F., Becker, R.E., McGeer, P.L. & McGeer, E.G. *Neuropsychological “systems efficiency” and positron emission tomography.* *Journal of Neuropsychiatry*, 1989, 1(3), 269–282.

⁴ Berent, S., Giordani, B., Lehtinen, S., Markel, D., Penney, J.B., Buchtel, H.A., Starosta-Rubin-stein, S., Hichwa, R. & Young, A.B. *Positron emission tomographic scan investigations of Huntington’s disease: Cerebral metabolic correlates of cognitive function.* *Annals of Neurology*, 1988, 23(6), 541–546.

⁵ Potts, R. *Evolution: Big brains explained.* *Nature*, 2011, 480(7375), 43–44.

⁶ Fields, D.R. *The Other Brain.* New York, NY: Simon & Schuster, 2009.

⁷ Esser, S.K., Andreopoulos, A., Appuswamy, R., Datta, P., Barch, D., Amir, A., Arthur, J., Cassidy, A., Flickner, M., Merolla, P., Chandra, S., Basilico, N., Carpin, S., Zimmerman, T., Zee, F., Alvarez-Icaza, R., Kusnitz, J.A., Wong, T.M., Risk W.P., McQuinn, E., Nayak, T.K., Singh, R. & Modha, D.S. *Cognitive computing systems: Algorithms and applications for networks of neurosynaptic cores.* *International Joint Conference on Neural Networks (IJCNN).* IEEE, 2013.

Preissl, R., Wong, T.M., Datta, P., Flickner, M., Singh, R., Esser, S.K., Risk, W.P., Simon, H.D. & Modha, D.S. *Compass: A scalable simulator for an architecture for cognitive computing.* *Proceedings of the International Conference for High Performance Computing, Networking, Storage, and Analysis (SC 2012)*, Nov. 2012.

⁸ Perth, C.B. *Molecules of Emotions. Why You Feel the Way You Feel.* New York, NY: Scribner, 1997.

⁹ Hedlund, S., Nylin, G. & Regnstrom, O. *The behavior of the cerebral circulation during muscular exercise.* *Acta Physiologica Scandinavica*, 1962, 54(3–4), 316–324.

Thomas, S.N., Schroeder, T., Secher, N.H. & Mitchell, J.H. *Cerebral blood flow during submaximal and maximal dynamic exercise in humans.* *Journal of Applied Physiology*, 1989, 67(2), 744–748.

¹⁰ Shibata, S., Hastings, J.L., Prasad, A., Fu, Q., Okazaki, K., Palmer, M.D., Zhang, R. & Levine, B.D. *Dynamic Starling mechanism: effects of aging and physical fitness on ventricular-arterial coupling.* *Journal of Physiology*, 2008, 586(7), 1951–1962.

Zhang, R. *Aerobic exercise training increases brain perfusion in elderly women.* Washington, D.C. *Experimental Biology Meeting*, 2011.

¹¹ Middleton, L.E., Manini, T.M., Simonsick, E.M., Harris, T.B., Barnes, D.E., Tylavsky, F., Brach J.S., Everhart, J.E. & Yaffe, K. *Activity energy expenditure and incident cognitive impairment in older adults.* *Archives of Internal Medicine*, 2011, 171(14), 1251–1257.

Vercambre, M-N., Grodstein, F., Manson, J.E., Stampfer, M.J. & Kang, J.H. *Physical activity and cognition in women with vascular conditions.* *Archives of Internal Medicine*, 2011, 171(14), 1244–1250.

¹² Adlard, P.A. & Cotman, C.W. *Voluntary exercise protects against stress-induced decreases in brain-derived neurotrophic protein expression.* *The Journal of Neuroscience*, 2004, 124(4), 985–992.

- ¹³ Trejo, J.L., Carro, E. & Torres-Aleman. *Circulating insulin-like growth factor I mediates exercise-induced increases in the number of new neurons in the adult hippocampus*. *The Journal of Neuroscience*, 2001, 21(5), 1628–1634.
- ¹⁴ Cotman, C.W., Berchtold, N.C. & Christie, L-A. *Exercise builds brain health: key roles of growth factor cascades and inflammation*. *Trends in Neurosciences*, 2007, 30(9), 464–471.
- ¹⁵ Winter, B., Breitenstein, C., Mooren, F.C., Voelker, K., Fobker, M., Lechtermann, A., Krueger, K., Fromme, A., Korsukewitz, C., Floel, A. & Knecht, S. *High impact running improves learning*. *Neurobiology of Learning and Memory*, 2007, 87(4), 597–609.
- ¹⁶ Ratey, J. *Spark: The Revolutionary New Science of Exercise and the Brain*. New York, NY: Little, Brown and Company, 2008.
- ¹⁷ Zervas, Y., Apostolos, D. & Klissouras, V. *Influence of physical exertion on mental performance with reference to training*. *Perceptual and Motor Skills*, 1991, 73(3c), 1215–1221.
- ¹⁸ Hillman, C.H., Castelli, D.M. & Buck, S.M. *Aerobic fitness and neurocognitive function in healthy preadolescent children*. *Medicine and Science in Sports and Exercise*, 2005, 37(11), 1967–1974.
- ¹⁹ Tremblay, M.S., Inman, J.W. & Willms, J.D. *The relationship between physical activity, self-esteem, and academic achievement in 12-year-old children*. *Pediatric Exercise Science*, 2000, 12(3), 312–323.
- ²⁰ Coe, D.P., Pivarnik, J.M., Womack, C.J., Reeves, M.J. & Malina, R.M. *Effect of physical education and activity levels on academic achievement in children*. *Medicine and Science in Sports and Exercise*, 2006, 38(8), 1515–1519.
- Ismail, A.H. *The effects of a well-organized physical education programme on intellectual performance*. *Research in Physical Education*, 1967, 1(2), 31–38.
- California Department of Education. *A Study of the Relationship between Physical Fitness and Academic Achievement in California Using 2004 Test Results*. Sacramento, CA: California Department of Education, 2005.
- Dwyer, T., Sallis, J.F., Blizzard, L., Lazarus, R. & Dean, K. *Relations of academic performance to physical activity and fitness in children*. *Pediatric Exercise Science*, 2001, 13(3), 225–237.
- King, K., Scahill, C., McEllingott, J. & Randazzo, W. *Implementing a physical activity program in a public elementary school and its effect on academic achievement*. Paper presented at the *Pediatric Academic Societies and Asian Society for Pediatric Research 2011 Annual Meeting*, May 1, 2011.
- Ratey, J. Spark: *The Revolutionary New Science of Exercise and the Brain*. New York, NY: Little, Brown and Company, 2008.
- Viadero, D. *Exercise seen as priming the pump for students' academic success*. *Education Week*, 2008, 27(23), 14–15.
- See also the Naperville Website, *Naperville Central High School's Learning Readiness Physical Education Program*: <http://www.learningreadinesspe.com/index.html>
- Davis, C.L., Tomporowski, P.D., McDowell, J.E., Austin B.P., Miller, P.H., Yanasak, N.E., Allison J.D. & Naglieri, J.A. *Exercise improves executive function and achievement and alters brain activation in overweight children: A randomized controlled trial*. *Health Psychology*, 2011, 30(1), 91–98.
- Brisswalter, J., Collardeau, M. & Arcelin, R. *Effects of acute physical exercise characteristics on cognitive performance*. *Sports Medicine*, 2002, 32(9), 555–566.
- Colcombe, S. & Kramer, A.F. *Fitness effects on the cognitive function of older adults: A meta-analytic study*. *Psychological Science*, 2003, 14(2), 125–130.
- Etnier, J.L., Salazar, W., Landers, D.M., Petruzzello, S.J., Han, M. & Nowell, P. *The influence of physical fitness and exercise upon cognitive functioning: A meta-analysis*. *Journal of Sport and Exercise Psychology*, 1997, 19(3), 249–277.
- Sibley, B.A. & Etnier, J.L. *The relationship between physical activity and cognition in children: A meta-analysis*. *Pediatric Exercise Science*, 2003, 15(3), 243–256.
- Tomporowski, P.D. *Cognitive and behavioral responses to acute exercise in youths: A review*. *Pediatric Exercise Science*, 2003a, 15(4), 348–359.
- Tomporowski, P.D. *Effects of acute bouts of exercise on cognition*. *Acta Psychologica*, 2003b, 112(3), 297–324.
- Tomporowski, P.D., Davis, C.L., Miller, P.H. & Naglieri, J.A. *Exercise and children's intelligence, cognition, and academic achievement*. *Educational Psychology Review*, 2008, 20(2), 111–131.

- ²⁷ Voss, M.W., Nagamatsu, L.S., Liu-Ambrose, T. & Kramer, A.F. *Exercise, brain, and cognition across the lifespan*. *Journal of Applied Physiology*, 2011, 111(5), 1505–1513.
- ²⁸ Dwyer, T., Sallis, J.F., Blizzard, L., Lazarus, R. & Dean, K. *Relation of academic performance to physical activity and fitness in children*. *Pediatric Exercise Science*, 2001, 13(3), 225–237.
- Field, T., Diego, M. & Sanders, C.E. *Exercise is positively related to adolescents' relationships and academics*. *Adolescence*, 2001, 36(141), 105–110.
- Kim, H.Y., Frongillo, E.A., Han, S.S., Oh, S.Y., Kim, W.K., Jang, Y.A., Won, H.S., Lee, H.S. & Kim, H.E. *Academic performance of Korean children is associated with dietary behaviours and physical status*. *Asia Pacific Journal of Clinical Nutrition*, 2003, 12(2), 186–192.
- Shephard, R.J. *Curricular physical activity and academic performance*. *Pediatric Exercise Science*, 1997, 9(2), 113–126.
- Shephard, R.J., Volle, M., Lavallee, H., LaBarre, R., Jequier, J.C. & Rajic, M. *Required physical activity and academic grades: A controlled study*. In J. Ilmarinen & I. Valimaki (Eds.), *Children and Sport*, 58–63. Berlin, DE: Springer-Verlag, 1984.
- Sibley, B.A. & Etnier, J.L. *The relationship between physical activity and cognition in children: a meta-analysis*. *Pediatric Exercise Science*, 2003, 15(3), 243–256.
- ²⁹ Brisswalter, J., Collardeau, M. & Rene, A. *Effects of acute physical exercise characteristics on cognitive performance*. *Sports Medicine*, 2002, 32(9), 555–566.
- Caterino, M.C. & Polak, E.D. *Effects of two types of activity on the performance of second-, third-, and fourth-grade students on a test of concentration*. *Perceptual and Motor Skills*, 1999, 89(1), 245–248.
- Cotman, C.W. & Berchtold, N.C. *Exercise: a behavioral intervention to enhance brain health and plasticity*. *Trends in Neurosciences*, 2002, 25(6), 295–301.
- Klein, S.A. & Deffenbacher, J.L. *Relaxation and exercise for hyperactive impulsive children*. *Perceptual and Motor Skills*, 1977, 45(3f), 1159–1162.
- McNaughten, D. & Gabbard, C. *Physical exertion and immediate mental performance of sixth-grade children*. *Perceptual and Motor Skills*, 1993, 77(3f), 1155–1559.
- Tomporowski, P.D. *Cognitive and behavioral responses to acute exercise in youths: a review*. *Pediatric Exercise Science*, 2003, 15(4), 348–359.
- Wittberg, R.A., Northrup, K.L. & Cottrell, L.A. *Children's aerobic fitness and academic achievement: A longitudinal examination of students during their fifth and seventh grade years*. *American Journal of Public Health*, 2012, 102(12), 2303–2307.
- Zervas, Y., Danis, A. & Klissouras, V. *Influence of physical exertion on mental performance with reference to training*. *Perceptual and Motor Skills*, 1991, 72(3c), 1215–1221.
- ³⁰ Tremblay, M.S., Inman, J.W. & Willms, J.D. *The relationship between physical activity, self-esteem, and academic achievement in 12-year-old children*. *Pediatric Exercise Science*, 2000, 12(3), 312–323.
- ³¹ Hinkle, J.S., Tuckman, B.W. & Sampson, J.P. *The psychology, physiology, and the creativity of middle school aerobic exercises*. *Elementary School Guidance & Counseling*, 1993, 28(2), 133–145.
- Tuckman, B.W. & Hinkle, J.S. *An experimental study of the physical and psychological effects of aerobic exercise on schoolchildren*. *Health Psychology*, 1986, 5(3), 197–207.
- ³² Keays J.J. & Allison, K.R. *The effects of regular moderate to vigorous physical activity on student outcomes: A review*. *Canadian Journal Public Health*, 1995, 86(1), 62–65.
- ³³ Hillman, C.H., Castelli, D.M. & Buck, S.M. *Aerobic fitness and neurocognitive function in healthy preadolescent children*. *Medicine and Science in Sports and Exercise*, 2005, 37(11), 1967–1974.
- ³⁴ Sibley, B.A. & Etnier, J.L. *The relationship between physical activity and cognition in children: A meta-analysis*. *Pediatric Exercise Science*, 2003, 15(3), 243–256.
- ³⁵ Rovio, S., Kåreholt, I., Helkala, E.L., Viitanen, M., Winblad, B., Tuomilehto, J., Soininen, H., Nissinen, A. & Kivipelto, M. *Leisure-time physical activity at midlife and the risk of dementia and Alzheimer's disease*. *The Lancet Neurology*, 2005, 4(11), 705–711.
- ³⁶ Etgen, T., Sander, D., Huntgeburth, U., Poppert, H., Forstl, H. & Bickel, H. *Physical activity and incident cognitive impairment in elderly persons: the INVADE study*. *Archives of Internal Medicine*, 2010, 170(2), 186.

³⁷ Kramer, A.F., Hahn, S., Cohen, N.J., Banich, M.T., McAuley, E., Harrison, C.R., Chason, J., Vakil, E., Bardell, L., Boileau1, R.A. & Colcombe, A. *Ageing, fitness and neurocognitive function*. *Nature*, 1999, 400(6743), 418-419.

³⁸ Kagan, S. *Silly Sports & Goofy Games*. San Clemente, CA: Kagan Publishing, 2000.
In het Nederlands uitgegeven als *Silly Sports & Goofy Games*, Bazalt 2004.

³⁹ Leeuwen, E., Zimmermann, E. & Davila-Ross, M. *Responding to inequities: Gorillas try to maintain their competitive advantage during play fights*. *Biology Letters*, 2011, 7(1), 39–42.

⁴⁰ Sample, I. (July 13, 2010). *Gorillas learn about injustice and revenge by playing tag* [text]. *The Guardian*.
<http://www.guardian.co.uk/science/2010/jul/14/gorillas-injustice-revenge-playing-tag>.

⁴¹ Kagan, S. *Silly Sports & Goofy Games*. San Clemente, CA: Kagan Publishing, 2000.
In het Nederlands uitgegeven als *Silly Sports & Goofy Games*, Bazalt 2004.

⁴² Crockett, M.J., Clark, L., Tabibnia, G., Lieberman, M.D. & Robbins, T.W. *Serotonin modulates behavioral reactions to unfairness*. *Science*, 2008, 320(5884), 1739–1739.

⁴³ Baumann, S. *Feed Your Brain for Learning*. Farmington, MI: Emerging Free Press, 2005.

⁴⁴ Sampson, A.E., Dixit, S., Meyers, A.F. & Houser Jr., R. *The nutritional impact of breakfast consumption on the diets of inner-city African-American elementary school children*. *Journal of the National Medical Association*, 1995, 87(3), 195–202.

⁴⁵ Sampson, A.E., Dixit, S., Meyers, A.F. & Houser Jr., R. *The nutritional impact of breakfast consumption on the diets of inner-city African-American elementary school children*. *Journal of the National Medical Association*, 1995, 87(3), 195–202.

Siega-Riz, A.M., Popkin, B.M. & Carson, T. *Trends in breakfast consumption for children in the United States from 1965–1991*. *American Journal of Clinical Nutrition*, 1998, 67(4), 748S–756S.

⁴⁶ Rampersaud G.C., Pereira M.A., Girard B.L., Adams J. & Metzl, J.D. *Breakfast habits, nutritional status, body weight, and academic performance in children and adolescents*. *Journal of the American Dietetic Association*, 2005, 105(5), 743–760.

⁴⁷ Crockett, M.J., Clark, L., Robbins, T.W., Tabibnia, G. & Lieberman, M.D. *Serotonin modulates behavioural reactions to unfairness*. *Science*, 2008, 320(5884), 1739.

⁴⁸ Hoyland, A., Dye, L. & Lawton, C.L. *A systematic review of the effect of breakfast on the cognitive performance of children and adolescents*. *Nutrition Research Reviews*, 2009, 22(2), 220–243.

⁴⁹ Florence, M.D., Asbridge, M. & Veugelers, P. *Diet quality and academic performance*. *Journal of School Health*, 2008, 78(4), 209–215.

Taras, H.L. *Nutrition and student performance at school*. *Journal of School Health*, 2005, 75(6), 199–213.

⁵⁰ Sibley, B.A., Ward, R.M., Yazvac, T.S., Zullig, K. & Potteiger, J.A. *Making the grade with diet and exercise*. *AASA Journal of Scholarship & Practice*, 2008, 5(2), 23–45.

⁵¹ Kleinman, R.E., Hall, S., Green, H. Korzeck-Ramirez, K., Patton, K., Pagano, M.E. & Murphy, J.M. *Diet, breakfast, and academic performance in children*. *Annals of Nutrition and Metabolism*, 2001, 46(1), 24–30.

Meyers, A.F., Sampson, A.E., Weitzman, M., Rogers, B.L. & Kayne, H. *School breakfast program and school performance*. *American Journal of Disadvantaged Children*, 1989, 143(10), 1234–1239.

Pollitt, E., Leibel, R.L. & Greenfield, D. *Brief fasting, stress, and cognition in children*. *American Journal of Clinical Nutrition*, 1981, 34(8), 1526–1533.

Pollitt, E., Lewis, N.L., Garza, C. & Shulman, R.J. *Fasting and cognitive function*. *Journal of Psychiatric Research*, 1982, 17(2), 169–174.

Pollitt, E. & Mathews, R. *Breakfast and cognition: An integrative summary*. *American Journal of Clinical Nutrition*, 1998, 67(4), 804S–813S.

⁵² Food and Nutrition Service, U.S. Department of Agriculture, Centers for Disease Control and Prevention, US Department of Health and Human Services, & US Department of Education. FNS-374. *Making It Happen! School Nutrition Success Stories*. Alexandria, VA, 2005.

⁵³ Nielsen, S.J. & Popkin, B.M. Patterns and trends in food portion sizes, 1977–1998. *Journal of the American Medical Association*, 2003, 289(4), 450–453.

⁵⁴ Food and Nutrition Service, US Department of Agriculture, Centers for Disease Control and Prevention, US Department of Health and Human Services, & US Department of Education. FNS-374. *Making It Happen! School Nutrition Success Stories*. Alexandria, VA, 2005.

⁵⁵ Batmanghelidj, F. *Your Body's Many Cries for Water*. Vienna, VA: Global Health Solutions, 1997, 35.

⁵⁶ Batmanghelidj, F. *Your Body's Many Cries for Water*. Vienna, VA: Global Health Solutions, 1997.

⁵⁷ Rogers, P.J. *A drink of water can improve or impair mental performance depending on small differences in thirst*. *Appetite*, 2001, 36(1), 57–58.

⁵⁸ Bergeron, J.D. & Le Baudour, C. Chapter 9: *Caring for medical emergencies*. In *First Responder* (8 ed.), 262. New Jersey: Pearson Prentice Hall, 2006.

⁵⁹ Brown, R.P. & Gerbarg, P.L. *The Healing Power of the Breath*. Boston, MA: Shambhala Publications, 2012.

Farhi, D. *The Breathing Book: Vitality and Good Health through Essential Breath Work*. New York, NY: Henry Holt & Co., 1996.

Lewis, D. *Free Your Breath, Free Your Life*. Boston, MA: Shambhala Press, 2004.

Lewis, D. *The Tao of Natural Breathing: For Health, Well-Being, and Inner Growth*. Berkeley, CA: Rodmell Press, 1997.

⁶⁰ Kagan, S. *Breakouts to energize brains and boost achievement*. San Clemente, CA: Kagan Publishing. *Kagan Online Magazine*, Fall 2012/Winter 2013. www.KaganOnline.com.

⁶¹ Kagan, S. & Kagan, M. *Kagan Cooperative Learning*. San Clemente, CA: Kagan Publishing, 2009. In het Nederlands uitgegeven als *Coöperatieve Leerstrategieën*, Bazalt 2010.