

DAFTAR PUSTAKA

- Afrida, Was'an, M., Sutarni, S. 2011. *Hubungan antara Gangguan Pemusatan Perhatian dan Hiperaktivitas (GPPH) sebagai Faktor Risiko Prestasi Akademik pada Murid Sekolah Dasar*. Universitas Gadjah Mada. *Tesis*.
- Agudelo, J, A., Gálvez, J, M., Fonseca, D, J., Mateus, H, E., Talero-Gutiérrez C., Velez-Van-Meerbeke, A. 2014. Evidence of an association between 10/10 genotype of DAT1 and endophenotypes of attention deficit/hyperactivity disorder. *Neurologia*. Jan 22: S0213-4853(13)00291-0.
- Altink, M, E., Rommelse, N, N., Slaats-Willemse, D, I., Vázquez, A, A., Franke, B., Buschgens, C, J., Fliers, E, A., Faraone, S, V., Sergeant, J, A., Oosterlaan, J., Buitelaar, J, K. 2012. The dopamine receptor D4 7-repeat allele influences neurocognitive functioning, but this effect is moderated by age and ADHD status: an exploratory study. *World J Biol Psychiatry*. Apr;13(4):293-305.
- Altink M, E., Rommelse, N, N., Slaats-Willemse, D, I., Vázquez, A, A., Franke, B., Buschgens, C, J., Fliers, E, A., Faraone, S, V., Sergeant, J, A., Oosterlaan, J., Buitelaar, J, K. 2011. The dopamin receptor D4 7-repeat allele influences neurocognitive functioning, but this effect is moderated by age and ADHD status: an exploratory study. *World J Biol Psychiatry*;13(4):293-305.
- American Psychiatric Association. Diagnostic and statistical manual of mental disorders, 4th ed, 2005. Washington DC.
- Amiri, S., Shafiee-Kandjani, A. R., Fakhari, A., Abdi, S., Golmirzaei, J., Akbari Rafi, Z. 2013. Psychiatric comorbidities in ADHD children: An Iranian study among primary school students. *Arch Iran med*;16(9):513-517.
- Anderson, W.F. 2000. A New Front in the Battle Against Disease. In G. Stock & J. Campbell (Eds.), *Engineering the human germline: An exploration of the science and ethics of altering the genes*. (pp. 43-48). New York: Oxford University Press.
- Antshel, K.M., Hargrave, T.M., Simonescu, M., Kaul, P., Hendricks, K., Faraone, S.V. 2011. Advances in understanding and treating ADHD. *BMC Med*; 9: 72.
- Arnsten, A.F.T. 2000. Genetics of childhood disorders: XVIII. ADHD, part 2: norepinephrine has a critical modulatory influence on prefrontal cortical function. *J Am Acad Child Adolesc Psychiatry*;39(9):1201-1203.
- Azis, A., Lucas, M., Sutarni, S. 2008. *Efikasi Methylphenidate 5 mg dan 10 mg pada Attention Deficit/Hyperactivity Disorder di Sekolah Dasar*. Universitas Gadjah Mada. *Tesis*.
- Bakker, S.C., Van der Meulen, E.M., Oteman, N., Schelleman, H, et al. 2005. DAT1, DRD4, and DRD5 polymorphisms are not associated with ADHD in Dutch families. *Am.J. Med. Genet. B. Neuropsychiatr. Genet*;132B: 50-52.

- Banoei, M.M., Majidizadeh, T., Shirazi, E., *et al.* 2008. No association between the *DAT1* 10-repeat allele and ADHD in the Iranian population. *Am J Med Genet Part B*; 147B: 110-111.
- Barbarese, W.J., Colligan, R.C., Weaver, A.L., Voigt, R.G., Killian, J.M., Katusic, S.K. 2013. Mortality, ADHD, and psychosocial adversity in adults with childhood ADHD: A prospective study. *Pediatrics*;131:1-9.
- Barbarese, W.J., Katusic, S.K., Colligan, R.C., Pankratz, V.S., Weaver, A.L., Weber, K.J.,*et al.* 2002. How common is attention-deficit/hyperactivity disorder? Incidence in a population-based birth cohort in Rochester.*Minn. Arch Pediatr Adolesc Med.*;156(3):217-24.
- Barkley, R. 1993. *Attention-deficit hyperactivity disorder: A handbook for diagnosis and treatment* (2nd ed.). New York: Guilford Press.
- Barkley, R. A., 2002, International consensus statement on ADHD,*J Am Acad Child Adolesc Psychiatry*;41(12), 1389.
- Barkley, R.A. 1997. Behavioral inhibition, sustained attention, and executive functions: Constructing a unifying theory of ADHD. *Psychological Bulletin*; 121(1);63-94.
- Barkley, R.A. 2001. The executive functions and self regulation: An Evolutionary Neuropsychological Perspective. *Europsychology Review*;11;1-29.
- Barkley, R.A., Smith, K.M., Fischer, M., Navia, B. 2006. An examination of the behavioral and neuropsychological correlates of three ADHD candidate gene polymorphisms (*DRD4* 7+, *DBH* TaqI A2, and *DAT1* 40bp VNTR) in hyperactive and normal children followed to adulthood. *Am J Med Genet B Neuropsychiatr Genet*; 141B (5): 487-498.
- Bateman, B., Warner, J. O., Hutchinson, E., Dean, T., Rowlandson, P., Gant, C. 2004. The effects of a double blind, placebo controlled, artificial food colourings and benzoate preservative challenge on hyperactivity in a general population sample of preschool children. *Arch Dis Child*;89:506-511.
- Baumrind, D., 1991. The influence of parenting style on adolescent competence and substance abuse. *J Early Adolescence*, 11, 56-95.
- Behrman, R. E.,Kliegman, R, M., Arvin, A, M. 2000,*Nelson Textbook of Pediatrics*; 15th ed. W.B. Saunders Company, Philadelphia. USA.
- Bellgrove, M.A., Hawi, Z., Kirley, A., Fitzgerald, M., Gill, M., Robertson, I.H. 2005. Association between dopamin transporter (*DAT1*) genotype, left-sided inattention, and an enhanced response to methylphenidate in attention-deficit hyperactivity disorder. *Neuropsychopharmacology*; 30: 2290-2297.
- Bennet, F. C., Brown, R, T., Craver, J., Anderson. 1999. Stimulan Medication for the Child with GPPH.*The Pediatrics Clinics of North*;46:929-944.
- Berger, I. 2011. Diagnosis of attention deficit hyperactivity disorder: much ado about something. *IMAJ*;13:571-574.
- Bhaduri,N., Das,M., Das,AB., Mukhopadhyay,K. 2007. Dopaminereceptor D4 exon 3variable number of tandem repeat polymorphism: Distribution in eastern Indianpopulation.*Indian J Hum Genet*;13(2):54-8.
- Bidwell, L.C., Willcut, E.G., McQueen, M.B., *et al.* 2011. A family based association study of *DRD4*, *DAT1*, and *5HTT* and continous traits of attention-deficit hyperactivity disorder. *Behav Genet*; 41: 165-174.

- Biederman, J. 2005. Attention-deficit/hyperactivity disorder: a selective overview. *Biol Psychiatry*; 57: 1215-1220.
- Biederman, J., Mick, E., Faraone, S.V. 2000. Age-dependent decline of symptoms of attention deficit hyperactivity disorder: Impact of remission definition and symptom type. *Am J Psychiatry*; 157:816-818.
- Biederman, J., Monuteaux, M.C., Spencer, T., Wilens, T.E., MacPherson, H., Faraone, S.V. 2008. Stimulant therapy and risk for subsequent substance use disorders in male adults with ADHD: A naturalistic controlled 10-years follow-up study. *Am J Psychiatry*; 165:597-603.
- Biederman, J., Petty, C.R., Clarke, A., Lomedico, A., Faraone, S.V. 2011. Predictors of persistent ADHD: An 11-year follow-up study. *J Psychiatr Res*; 45(2):150-155.
- Bloch, M.H., & Qawasmi, A. 2011. Omega-3 fatty acid supplementation for the treatment of children with attention-deficit/hyperactivity disorder symptomatology: Systematic review and meta-analysis. *J Am Acad Child Adolesc Psychiatry*; 50(10):991-1000.
- Boanaschewski, T., Becker, K., Scherag, S., Franke, B., Coghill, D. 2010. Molecular genetics of attention-deficit/hyperactivity disorder. *Eur Child Adolesc Psychiatry*; 19:237-257.
- Bonafina, M., Newcorn, J.H., McKay, K.E., Koda, V.H., Halperin, J.M., 2000. ADHD and Reading Disabilities: A Cluster Analytic Approach for Distinguishing Subgroups. *J Learn Disabilities*; 33: 297-307.
- Borinskaia, S, A., Kozhebaeva, Zh, M., Gorbunova, E, V., Sokolova, M, V., Iur'ev, E, B., Tiazhelova, T, V., Grechanina, El., Khusnutdinova, E, K., Iankovskii, N, K. 2004. Analysis of the DRD4 gene polymorphism in populations of Russia and neighboring countries. *Genetika*; Jun; 40(6):835-40.
- Braaten, E.B., & Norman, D. 2006. Intelligence (IQ) testing. *Pediatrics in review*; 27:403-408.
- Brito, G. N., Onis, M. D. 2004. Growth status, behavior and neuropsychological performance: a study of Brazilian school age children. *Arquivos de neuro-psiquiatria*, 62(4), 949-954.
- Brookes, K.J. 2013. The VNTR in complex disorders; the forgotten polymorphisms? A functional way forward?. *Genomics*; 101: 173-281.
- Brown, T. E., 2002, DSM-IV: ADHD and executive function impairments. *Advanced studies in medicine*, 2(25), 910-914.
- Bub, D.N., Masson, M.E.J., Lalonde, C.E. 2006. Cognitive control in children: Stroop interference and suppression of word reading. *Psychological science*; 17(4):351-357.
- Carrasco X¹, Rothhammer P, Moraga M, Henríquez H, Aboitiz F, Rothhammer F. 2004. [Presence of DRD4/7R and DAT1/10R allele in Chilean family members with attention deficit hyperactivity disorder]. [Article in Spanish]. *Rev Med Chil*; 132(9):1047-52
- Carter, C.M., Urbanowicz, M., Hemsley, R., Mantilla, L., Strobel, S., Graham, P.J., Taylor, E. 1993. Effect of a few food diet in attention deficit disorder. *Arch dis child*; 69:564-568.

- Castellanos, F. X., Tannock, R., 2002, Neuroscience of attention-deficit/hyperactivity disorder: the search for endophenotypes, *Nature Reviews Neuroscience*;3(8), 617-628.
- Chang, F. M., Kidd, J. R., Livak, K. J., Pakstis, A. J., Kidd, K. K. 1996. The world-wide distribution of allele frequencies at the human dopamine D4 receptor locus. *Hum Genet.* 1996 Jul;98(1):91-101.
- Cheon, K. A., Ryu, Y. H., Kim, J. W., Cho, D. Y. 2005. The homozygosity for 10-repeat allele at dopamine transporter gene and dopamine transporter density in Korean children with attention deficit hyperactivity disorder: relating to treatment response to methylphenidate. *Eur Neuropsychopharmacol.* Jan;15(1):95-101.
- Cheuk, D. K., Li, S. Y., Wong, V. 2006. No association between VNTR polymorphisms of dopamine transporter gene and attention deficit hyperactivity disorder in Chinese children. *Am J Med Genet B Neuropsychiatr Genet.* Mar 5;141B(2):123-5.
- Cheuk, D.K., Li, S.Y.H., Wong, V. 2006. Exon 3 polymorphisms of dopamin D4 receptor (*DRD4*) gene and attention deficit hyperactivity disorder in Chinese children. *Am J Med Genet Part B*;141B: 907-911.
- Chin, C.E., Marie, H., Ledesma, L., Cirino, P.T., Sevcik, R.A., Morris, R.D., Frijters, J.C., Lovett, M.W. 2001. Relation between Kaufman Brief Intelligence Test and WISC-III Scores of Children with RD. *J Learn Disabilities*;34:2.
- Chu, S. M., Tsai, M. H., Hwang, F. M., Hsu, J. F., Huang, H. R., Huang, Y. S. 2012. The relationship between attention deficit hyperactivity disorder and premature infants in Taiwanese: a case control study. *BMC psychiatry*, 12(1), 85.
- Congdon, E., Lesch, K. P., & Canli, T. 2007. Analysis of DRD4 and DAT polymorphisms and behavioral inhibition in healthy adults: implications for impulsivity. *Am J Med Genet Part B: Neuropsychiatric Genetics*, 147(1), 27-32.
- Conners, C. K. 1969. A teacher rating scale for use in drug studies with children. *Am J of Psychiatry*;126:884-888
- Cook Jr, E.H., Stein, M.A., Krasowski, M.D, *et al.* 1995. Association of attention-deficit disorder and the dopamin transporter gene. *Am J Hum Genet*; 56: 993-998.
- Danckaerts, M., Sonuga-Barke, E.J.S., Banaschewski, T., Buitelaar, J., Dopfner, M., Hollis, C., *et al.* 2010. The quality of life with attention deficit/hyperactivity disorder: a systematic review. *Eur Child Adolesc Psychiatry*;19:83-105.
- Danielson, L.C., Lee, S. 2003. Identifying and treating attention deficit hyperactivity disorder: A resource for school and home. ED Pubs, *Education Publication Center, U.S. Department of Education P.O. Box 1398, Jessup. MD 20794-1398.*
- Darvishzadeh, M., Baba, M., Mokhtar, H. H., Wan Jaafar, W. M., Momtaz, Y. A. 2011. Efficacy of Behavioural Parent Training Program in Reducing

- Parental Stress among Iranian Parents of Children with ADHD. *Life Science Journal*; 8(4):284-289] (ISSN: 1097-8135).<http://www.lifesciencesite.com>.
- Durston, S. 2008. Converging methods in studying attention-deficit/hyperactivity disorder: what can we learn from neuroimaging and genetics?. *Development and Psychopathology*;20:1133-1143.
- Durston, S., Fossella, J.A., Casey, B.J., Pol, H.E.H., Galvan, A., Schnack, H.G., et al. 2005. Differential effects of DRD4 and DAT1 genotype on frontostriatal gray matter volumes in a sample of subjects with attention deficit hyperactivity disorder, their unaffected siblings, and controls. *Molecular Psychiatry*;10:678-685.
- Durston, S., Zeeuw, P.D., Stall, W.G. 2009. 'Imaging genetics in ADHD: a focus on cognitive control. *Neuroscience and Biobehavioral Reviews*;33:674-689.
- Eisenberg, J., Zohar, A., Mei-Tal, G., Steinberg, A., Tartakovsky, E., Gritsenko, I., Nemanov, L., Ebstein, R, P. 2000. A haplotype relative risk study of the dopamine D4 receptor (DRD4) exon III repeat polymorphism and attention deficit hyperactivity disorder (ADHD). *Am J Med Genet*. Jun 12;96(3):258-61.
- El-Sayed, E., 2002, *Brain Maturation, Cognitive Tasks, and Quantitative Electroencephalography: A Study in Children with Attention Deficit Hyperactive Disorder*, Institutionen för kvinnors och barns hälsa/Department of Women's and Children's Health.
- Emond, V., Joyal, C., Poissant, H. 2009. Structural and functional neuroanatomy of attention-deficit hyperactivity disorder (ADHD) (abstrak). *Encephale*;35(2):107-114.
- Evans, J.H. (2002). *Playing God?: Human genetic engineering and the rationalization of public bioethical debate*. Chicago, IL: University of Chicago Press
- Fabio, R.A., Castriciano, C., Rondanini, A. 2012. ADHD: Auditory and visual stimuli in automatic and controlled processes. *J of Attention disorders*;XX(X):1-8.
- Faraone, S.V., Doyle, A. E., Mick, E., Biederman, J. 2001. Meta-analysis of the association between the 7-repeat allele of the dopamin D4 receptor gene and attention deficit hyperactivity disorder. *Am J Psychiatry*; 158: 1052-1057.
- Faraone, S.V., Khan, S.A. 2006. Candidate gene studies of attention-deficit/hyperactivity disorder. *J Clin Psychiatry*; 67(8):13-20.
- Faraone, S.V., Sergeant, J., Gillberg, C., Biederman, J. 2003. The worldwide prevalence of ADHD: is it an American condition?. *World Psychiatry*;2(2):104-113.
- Fischer, M., & Barkley, R.A. 2003. Childhood stimulant treatment and risk for later substance abuse. *J Clin Psychiatry*;64(Suppl 11):19-23.
- Fuke, S., Suo, S., Takahashi, N., Koike, H., Sasagawa, N., Ishiura, S. 2001. The VNTR polymorphism of the human dopamine transporter (*DAT1*) gene affects gene expression. *The Pharmacogenomics Journal*; 1: 152-156.
- Gelernter, J., Kennedy, J.L., Van Tol, H.H.M., Civelli, O., Kidd, K.K. 1992. The D4 dopamine receptor (*DRD4*) maps to distal 11p close to *HRAS*. *Genomics*;13: 208-210.

- Genro, J. P., Roman, T., Zeni, C. P., Grevet, E. H., Schmitz, M., De Abreu, P. B., 2006. No association between dopaminergic polymorphisms and intelligence variability in attention-deficit/hyperactivity disorder. *Mol Psychiatry*. Dec;11(12):1066-7.
- Gharaibeh, M.Y., Batayneh, S., Khabour, O.F., Daoud, A. 2010. Association between polymorphisms of the DBH and *DAT1* genes and attention deficit hyperactivity disorder in children from Jordan. *Experimental and Therapeutic Medicine*; 1:701-705.
- Gill, M., Daly, G., Heron, S., Hawi, Z., Fitzgerald, M. 1997. Confirmation of association between attention deficit hyperactivity disorder and a dopamine transporter polymorphism. *Mol Psychiatry*. Jul;2(4):311-3.
- Gizer, I, R., Ficks, C., Waldman, I.D. 2009. Candidate gene studies of ADHD: a meta-analytic review. *Hum Genet*; 126(1):51–90. [PubMed: 19506906].
- Gornick, M.C., Addington, A., Shaw, P, et al. 2007. Association of the dopamine receptor D4 (*DRD4*) gene 7-repeat allele with children with attention-deficit/hyperactivity disorder (ADHD): an update. *Am J Med Genet Part B*; 144B: 379-382.
- Guney, E., Iseri, E., Ergun, S.G., et al. 2013. The correlation of attention deficit hyperactivity disorder with *DRD4* gene polymorphism in Turkey. *Int J Hum Genet*; 13(3): 145-152.
- Hasler R., Salzman, A., Bolzan, T., Zimmermann, J., Baud, P., Giannakopoulou, P., Perroud, N. 2015. *DAT1* and *DRD4* genes involved in key dimensions of adult ADHD. *Neurol Sci*. Jan 3. [Epub ahead of print].
- Hawi, Z., McCarron, M., Kirley, A., Daly, G., Fitzgerald, M., Gill, M. 2000. No association of the dopamine *DRD4* receptor (*DRD4*) gene polymorphism with attention deficit hyperactivity disorder (ADHD) in the Irish population. *Am J Med Genet*; 96: 268-272.
- Hechtman, L. 1996. Families of children with attention deficit hyperactivity disorder: a review. *Can J Psychiatry*; 41:350-360.
- Hermens, D.F., Rowe, D.L., Gordon, E., Williams, L.M. 2006. Integrative neuroscience approach to predict stimulant response. *Expert Rev Neurotherapeutics*; 6(5):753-763.
- Jain, M., & Passi G.R. 2005. Assessment of a modified mini-mental scale for cognitive functions in children. *Indian Pediatrics*; 42:907-912.
- Jaspers, M., de Winter, A. F., Buitelaar, J. K., Verhulst, F. C., Reijneveld, S. A., Hartman, C. A. 2013. Early childhood assessments of community pediatric professionals predict autism spectrum and attention deficit hyperactivity problems. *J abnormal child psychology*, 41(1), 71-80.
- Joober, R., Grizenko, N., Sengupta, S., Amor, L, B., Schmitz, N., Schwartz, G., Karama, S., Lageix, P., Fathalli, F., Torkaman-Zehi, A, Ter Stepanian, M. 2007. Dopamine transporter 3'-UTR VNTR genotype and ADHD: a pharmacological-behavioural genetic study with methylphenidate. *Neuropsychopharmacology*. Jun;32(6):1370-6. Epub 2006 Oct 25.

- Juneja, M., Jain, R., Singh, V., Mallika, V. 2010. Iron deficiency in Indian children with attention deficit hyperactivity disorder. *Indian Pediatr*;47(11):955-958.
- Kahn, R. S., Khoury, J., Nichols, W. C., Lanphear, B. P. 2003. Role of dopamine transporter genotype and maternal prenatal smoking in childhood hyperactive-impulsive, inattentive, and oppositional behaviors. *J Pediatr*, 143(1), 104–110.
- Kaminester, D.D. 1997. Attention deficit hyperactivity disorder and methylphenidate: when society misunderstands medicine, *McGill Journal of Medicine*;3, 105-114.
- Kebir, O., Tabbane, K., Sengupta, S., Joobar, R., 2009, Candidate genes and neuropsychological phenotypes in children with ADHD: review of association studies *JPN*;34(2), 88.
- Keenan, H. T., Hall, G. C., Marshall, S. W. 2008. Early head injury and attention deficit hyperactivity disorder: retrospective cohort study. *BMJ*, 337.
- Kessler, R.C., Adler, L., Barkley, R., Biederman, J., Conners, C.K., Demler, O., et al. 2006. The prevalence and correlates of adult ADHD in the United States: results from the National Comorbidity Survey Replication. *Am J Psychiatry*;163(4):716-23.
- King, J.A., Colla, M., Brass, M., Heuser, I., von Cramon, D.Y. 2007. Inefficient cognitive control in adult ADHD: evidence from trial-by-trial Stroop test and cued task switching performance. *Behavioral and Brain Functions*;3:42.
- Kirley, A., Lowe, N., Hawi, Z., Mullins, C., Daly, G., Waldman, I., McCarron, M., O'Donnell, D., Fitzgerald, M., Gill, M. 2003. Association of the 480 bp DAT1 allele with methylphenidate response in a sample of Irish children with ADHD. *Am J Med Genet B Neuropsychiatr Genet*. Aug 15;121B(1):50-4.
- Kotimaa, A.J., Moilanen, I., Taanila, A., Ebeling, H., Smalley, S.L., McGough, J.J., et al. 2003. Maternal smoking and hyperactivity in 8-year-old children. *J Am Acad Child Adolesc Psychiatry*;42(7):826-33.
- Kuhn, M.R., & Stahl, S.A. 2003. Fluency: A review of developmental and remedial practices. *J of Educational Psychology*;95:3-21.
- Kustanovich, V., Ishii, J., Crawford, L., Yang, M., McGough, J. J., McCracken, J. T., 2003. Transmission disequilibrium testing of dopamine-related candidate gene polymorphisms in ADHD: confirmation of association of ADHD with DRD4 and DRD5. *Molecular psychiatry*, 9(7), 711-717.
- Kwon, S., Sohn, Y., Jeong S.H., Chung, U.S., Seo, H. 2014. Prevalence of restless legs syndrome and sleep problems in Korean children and adolescents with attention deficit hyperactivity disorder: a single institution study. *Korean J Pediatr*;57(7):317-22.
- Lamsudin, R. 1998. Reliabilitas Skala Stroke Gadjah Mada (SSGM). Pada Penderita Stroke, Dalam; Buku Abstrak Musyawarah Kerja dan Pertemuan Ilmiah Tahunan PERDOSSI.1-5 Juli. Malang.
- Langleben, D.D., Monterosso, J., Elman, I., Ash, B., Krikorian, G., Austin, G. 2006. Effect of methylphenidate on Stroop Color-word task performance in

- children with attention deficit hyperactivity disorder. *Psychiatry Research*; **141**:315-320.
- Langley, K., Marshall, L., Bree, M.V.D., Thomas, H., Owen, M., O'Donovan, M., *et al.* 2004. Association of the dopamin D4 receptor gene 7-repeat allele with neuropsychological test performance of children with ADHD. *Am J Psychiatry*; **161**:133-138.
- Langley, K., Turic, D., Peirce, T.R., *et al.* 2005. No support for association between the dopamin transporter (DAT1) gene and ADHD. *Am.J. Med. Genet. B. Neuropsychiatr Genet*; **139B**:7-10.
- Lansbergen, M.M., & van Dongen-Boomsma, M. 2011. ADHD and EEG-neurofeedback: a double-blind randomized placebo-controlled feasibility study. *J Neural Transm*; **118**:275-284.
- Lansbergen, M.M., Kenemas, J., van England, H. 2007. Stroop interference and attention-deficit/hyperactivity disorder: A review and meta-analysis. *Neuropsychology*; **21**(2):251-262.
- Lavigne, J.V., Gibbons, R.D., Christoffel, K.K., Arend, R., Rosenbaum, D., Binns, H., *et al.* Prevalence rates and correlates of psychiatric disorders among preschool children. *J Am Acad Child Adolesc Psychiatry*; **35**(2):204-14.
- Leung, P.W.L., Lee, C.C., Hung, S.F., *et al.* 2005. Dopamin receptor D4 (DRD4) gene in Han Chinese children with attention-deficit/hyperactivity disorder (ADHD): Increased prevalence of the 2-repeat allele. *Am.J. Med. Genet. B. Neuropsychiatr. Genet.* 2005; **133B**: 54-56.
- Levy, F., Swanson, J. M., 2001, Timing, space and ADHD: the dopamin theory revisited, *Australian and New Zealand Journal of Psychiatry*; **35**(4), 504-511.
- Li, D., Sham, P.C., Owen, M.J., He, L. 2006. 'Meta-analysis shows significant association between dopamin system genes and attention deficit hyperactivity disorder (ADHD). *Hum. Mol. Genet.*; **15**(14):2276-2284.
- Litcher, J.B., Barr, C.L., Kennedy, J.L, Van Tol, H.H.M., Kidd, K.K., Livak, K.J. 1993. A hypervariable segment in the human dopamin receptor D₄ (DRD4) gene. *Hum Mol Gene*; **2**:6.
- Logan, G.D. 1985. On the ability to inhibit simple thoughts and actions: II. Stop-signal studies repetition priming. *J of Experimental Psychology*; **11**(4): 675-691.
- Lucangeli, D., Cabrele, S., 2006, Mathematical difficulties and ADHD, *Exceptionality*, **14**(1), 53-62.
- Malek, A., Hekmati, I., Amiri, S., Pirzadeh, J., Gholizadeh, H. 2013. The standardization of Victoria Stroop color-word test among Iranian bilingual adolescents. *ArchIran Med*; **16**(7):380-384.
- Matza, L.S., Paramore, C., Prasad, M. 2005. A review of the economic burden of ADHD. *Cost Effectiveness and Resource Allocation*; **3**:5.
- Mayes, S.D., Calhoun, S.L., Crowell, E.W. 2000. Learning disability and ADHD: Overlapping spectrum disorders. *J Learn Disabil.*; **33**:417-424.

- McAlonan, G.M., Cheung, V., Chua, S.E., Oosterlaan, J., Hung, S., Tang, C., Lee, C., Kwong, S., Ho, T., Cheung, C., Suckling, J., Leung, P.W. 2009. Age-related grey matter volume correlates of response inhibition and shifting in attention-deficit hyperactivity disorder. *BJP*;194:123-129.
- McCracken, J.T., Smalley, S.L., McGough, J.J., Crawford, L., Del'Homme, M., Cantor, R.M., *et al.* 2000. Evidence for linkage of a tandem duplication polymorphism upstream of the dopamin D4 receptor gene (DRD4) with attention deficit hyperactivity disorder (ADHD). *Molecular Psychiatry*;5:531-536.
- Mick E, Biederman J, Faraone SV. 1996. Is season of birth a riskfactor for attention-deficit hyperactivity disorder? *J Am Acad Child Adolesc Psychiatry*.35(11):1470–1476.
- Mick, E., Faraone, S. V. 2008. Genetics of attention deficit hyperactivity disorder. *Child and adolescent psychiatric clinics of North America*, 17(2), 261-284.
- Mikami, A, Y., Lerner, M, D., Griggs, M, S., McGrath, A., Calhoun, C, D. 2010. Parental Influence on Children with Attention-Deficit/Hyperactivity Disorder: II. Results of a Pilot Intervention Training Parents as Friendship Coaches for Children. *J Abnorm Child Psychol*;38:737–749.
- Milberger, S., Biederman, J., Faraone, S, V., Chen, L., Jones, J. 1998, Is Maternal Smoking during Pregnancy a Risk Factor for Attention Deficit/Hyperactivity Disorder in Children? *Am J Psychiatry*, 41;65-75.
- Mill, J., Caspi, A., Williams, B. S., Craig, I., Taylor, A., Polo-Tomas, M., 2006. Prediction of heterogeneity in intelligence and adult prognosis by genetic polymorphisms in the dopamine system among children with attention-deficit/hyperactivity disorder: evidence from 2 birth cohorts. *Arch General Psychiatry*, 63(4), 462-469.
- Millichap, J, G. 2008. Etiologic Classification of Attention-Deficit/Hyperactivity Disorder. *Pediatrics*; 121; e358.
- Mirsky, A. F., Pascualvaca, D. M., Duncan, C. C., & French, L. M. (1999). A model of attention and its relation to ADHD. *Mental Retardation and developmental disabilities research reviews*, 5(3), 169-176.
- Mitchell, R, J., Howlett, S., Earl, L., White, N, G., McComb, J., Schanfield, M, S, *et al.* 2000. Distribution of the 3' VNTR polymorphism in the human dopamine transporter gene in world populations. *Hum Biol*; 72(2):295–304. [PubMed: 10803661].
- Moghaddam, M, F., Assareh, M., ,Heidaripoor, A., Rad, R, E., Pishjoo, M. 2013. *APP*; 4 : 45–49
- Moharreri, F., Shahrivar, Z., Tehrani-doost, M., Mahmoudi-Gharaei, J. 2008. Efficacy of the Positive Parenting Program (Triple P) for Parents of Children with Attention Deficit/Hyperactivity Disorder. *Iran J Psychiatry*; 3:59-6.
- Nakamura, Y., Koyama, K., Matsushima, M. 1998. VNTR (variable number of tandem repeat) sequences as transcriptional, transtional or functional regulators. *J Hum Genet*; 43: 149-152.
- Nakatome, M., Honda, K., Tun, Z., Kato, Y., Harihara, S., Omoto, K., Misawa, S., Gerelsaikhan, T., Nyamkhisig, S., Dashnyam, B., Batsuuri,

- J., Wakasugi, C. 1996. Genetic polymorphism of the 3' VNTR region of the human dopaminergic function gene DAT1 (human dopaminetransporter gene) in the Mongolian population. *Hum Biol* Aug;68(4):509-15.
- National Collaborating Centre for Mental Health. Attention Deficit Hyperactivity Disorder. 2009. The Nice Guideline on Diagnosis and Management of ADHD in Children, Young People and Adults. National Clinical Practice Guideline Number 72. London: *The British Psychological Society & The Royal College of Psychiatrists*.
- Noble, E., Ozkaragoz, T., Ritchie, T., Zhang, X., Belin, T., *et al.* (1998). D2 and D4 dopamine receptor polymorphisms and personality. *Am J Med Genet*, 81(3), 257–267.
- Oades, R., Sadile, A., Sagvolden, T., Viggiano, D., Zuddas, A., Devoto, P., *et al.* 2005. The control of responsiveness in ADHD by catecholamines: evidence for dopaminergic, noradrenergic, and interactive roles. *Developmental Sciences*;8:122-131.
- Pasini, A., Sinibaldi, L., Paloscia, C., *et al.* 2013. Neurocognitive effects of methylphenidate on ADHD children with different DAT genotypes: A longitudinal open label trial. *Eur J Paediatric Neurology*; 17: 407-414.
- Pastor, P.N., Reuben, C.A. 2008. Diagnosed attention deficit hyperactivity disorder and learning disability: United States, 2004-2006. National Center for Health Statistics. *Vital Health Stat*; 10 (237): 1-22.
- Peacock K, W., Hagedorn, C. 2010. Global Issues: Biotechnology and Genetic Engineering. Facs on file book. USA, NY 1001. ISBN 978-0-8160-7784-7 (alk. paper)
- Pelsser, L.M., Frankena, K., Toorman, J., Savelkoul, H.F., Pereira, R.R., Buitelaar, J.K. 2009. A randomized controlled trial into effect of food on ADHD. *Eur Child Adolesc Psychiatry*;18:12-19.
- Pitcher, T. M., Piek, J. P., Hay, D. A., 2003, Fine and gross motor ability in males with ADHD, *Developmental Medicine & Child Neurology*, 45(8), 525-535.
- Polanczyk, G., Silva de Lima, M., Horta, B.L., Biederman, J., Rohde, L.A. 2007. The worldwide prevalence of ADHD: a systematic review and metaregression analysis. *Am J Psychiatry*; 164: 942-948.
- Protopapas, A., Archonti, A., Skaloumbakas, C. 2007. Reading ability is negatively related to Stroop interference. *Cognitive Psychology*;54:251-282.
- Purper-Ouakil, D., Ramoz, N., Lepagnol-Bestel, A. M., Gorwood, P., Simonneau, M. 2011. Neurobiology of attention deficit/hyperactivity disorder. *Pediatric research*, 69, 69R-76R.
- Pusponegoro, H, D., Widodo, D, P., Ismael, S. (ed) 2006. *Konsensus Penatalaksanaan Kejang Demam*. Unit Kerja Koordinasi Neurologi IDAI
- Putri, R.D.M., Sunartini., Gamayanti, I.L., Ismail, D. 2008. Pola Asuh Orang Tua pada Anak Gangguan Pemusatan Perhatian/Hiperaktifitas. Universitas Gadjah Mada. *Tesis*.
- Qian, Q., Wang, Y., Zhou, R., Yang, L., Faraone, S.V. 2004. Family-based and case-control association studies of DRD4 and DAT1 polymorphisms in Chinese attention deficit hyperactivity disorder patients suggest long repeats

- contribute to genetic risk for the disorder. *Am J Med Genet Part B*; 128B: 84-89.
- Quintero, J., Navas, M., Fernandez, A., Ortiz, T. 2009. Advances in attention deficit hyperactivity disorders. what does neuroimaging provide us with? *Actas Esp Psiquiatr*; 37(6):352-358.
- Rappoport, M.D., Scanlan, S.W., Denney, C.B. 1999. Attention-deficit/hyperactivity disorder and scholastic achievement: A model of dual development pathways. *J Child Psychol Psychiatry*; 40(8):1169-1183.
- Roman, T., Rohde, L. A., Hutz, M, H. 2004. Polymorphisms of the dopamine transporter gene: influence on response to methylphenidate in attention deficit-hyperactivity disorder. *Am J Pharmacogenomics*; 4(2):83-92.
- Rommelse, N. N., Arias-Vásquez, A., Altink, M. E., Buschgens, C. J., Fliers, E., Asherson, P., *et al.*, 2008, Neuropsychological endophenotype approach to genome-wide linkage analysis identifies susceptibility loci for ADHD on 2q21. 1 and 13q12. 11. *Am J Hum Genet*, 83(1), 99-105.
- Rowland, A.S., Lesesne, C.A., Abramowitz, A.J. 2002. The epidemiology of attention-deficit/hyperactivity disorder (ADHD): a public health view. *MRDD Research Review*; 8: 162-170.
- Roy, M., de Zwaan, M., Tuin, I., Philipsen, A., Braehler, E., Muller, A. 2015. Association Between Restless Legs Syndrome and Adult ADHD in a German Community-Based Sample. *J Atten Disord*; Jan 2 [Epub print].
- Safer, D. J., Zito, J. M., Fine, E. M. 1996. Increased methylphenidate usage for attention deficit disorder in the 1990s. *Pediatrics*.; 98(6 Pt 1):1084-8
- Sagvolden, T., Aase, H., Johansen, E.B., Russell, V.A. 2005. A dynamic developmental theory of attention-deficit/hyperactivity disorder (ADHD) predominantly hyperactive/impulsive and combined subtypes. *Behavioral and Brain Sciences*; 28:397–468.
- Salimpoor, V.N. 2006. Increasing the utility of EF assessment of executive function in children. *Developmental Disabilities Bulletin*; 34(1&2):15-42.
- Samadi, F., Yagoubi, A., & Abbasiesfajir, A. 2014. Effectiveness of training to control symptoms of attention deficit disorder/hyperactivity (ADHD) with cognitive behavioral method for parents in reducing the signs of ADHD in elementary school children. *Eur J Experimental Biology*; 4(2):226-231.
- Samuels, S.J., & Flor, R.F. 2012. The importance of automaticity for developing expertise in reading. *Reading and Writing Quarterly*. 1997; 13:107–121.
- Santos, LHC, Pimentel RF, Rosa LG, Muzzolon SRB, Antoniuk SA. Cognitive and behavioral screening of children with learning disabilities: a preliminary study. *Rev Paul Pediatr*.; 30(1):93-9.
- Saputro, D., Muchlas, M. 2004. Gangguan hiperkinetik pada anak di DKI Jakarta, Penyusunan instrumen diagnosis baru, penentuan prevalensi, penelitian patofisiologi dan upaya terapi. *Disertasi*. Yogyakarta: Universitas Gadjah Mada.
- Sasaluxnanaon, C & Kaewpornasawan T. 2005, Risk Factor of Birth Weight Below 2.500 grams and Attention Deficit/Hyperactivity Disorder in Thai Children, *J Med Assoc Thai*; 88(11); 1514-8.

- Sastroasmoro, S dan Ismael, S. 1995. Dasar-Dasar Metodologi Penelitian Klinis Bagian Ilmu Kesehatan Anak Fakultas Kedokteran Universitas Indonesia, Jakarta. *Binarupa Aksara*. Jakarta.
- Sayal, K., Daley, D., James, M., Yang, M., Batty, M.J., Taylor, J.A., Pass, S., James-Sampson, C., Sellman, E., Valentine, A., Hollis, C. 2012. Protocol evaluating the effectiveness of a school-based group programme for parents of children at risk of ADHD: the 'PArnts, Teachers and CHildrn WORKing together (PATCHWORK)' cluster RCT protocol. *BMJ*;2.e001783.
- Schachar, R., & Logan, G.D. 1990. Impulsivity and inhibitory control in normal development and childhood psychopathology. *Development Psychology*;26(5):710-720.
- Schatz, D. B., Rostain, A. L., 2006, ADHD With Comorbid Anxiety A Review of the Current Literature, *Journal of Attention Disorders*, 10(2), 141-149.
- Schlander, M., Schwarz, O., Erik-Trott, G., Viapiano, M., Bonauer, N. 2007. Who cares for patients with attention-deficit/hyperactivity disorder (ADHD)? Insights from Norbadern (Germany) an administrative prevalence and physician involvement in health care provision. *Eur Child Adolesc Psychiatry*;DOI 10.1007/s00787-007-0616-1.
- Schmitz, M, Cadore, L., Paczko, M., & Kipper, K. 2002. Neuropsychological performance in DSM-IV ADHD subtypes: an exploratory study with untreated adolescents. *Can J Psychiatry*,47, 863-869.
- Sergeant, J. A., Piek, J. P., Oosterlaan, J., 2006, ADHD and DCD: A relationship in need of research, *Human movement science*, 25(1), 76-89.
- Sharp, S.I., McQuillin, A., Gurling, H.M.D. 2007. Genetics of attention-deficit hyperactivity disorder (ADHD). *Neuropharmacology*. 2009; 57: 590-600.
- Shaw, P., Eckstrand, K., Sharp, W., Blumenthal, J., Lerch, J, P., Greenstein, D., Clasen, L., Evans, A., Giedd, J., Rapoport, J, L. 2007. Attention-deficit/hyperactivity disorder is characterized by a delay in cortical maturation. *PNAS.org*.;104(49):19649-19654.
- Shaw, P., Gornick, M., Lerch, J., Addington, A., Seal, J., Greenstein, D., Sharp, W., Evans, A., Giedd, J, N., Castellanos, F, X., Rapoport, J, L.2007. Polymorphisms of the dopamin D4 receptor, clinical outcome, and cortical structure in attention-deficit/hyperactivity disorder. *Archives of General Psychiatry*, 64(8), 921.
- Simsek, M., Al-Sharbati, M., Al-Adawi, S., Ganguly, S.S., Lawatia, K. 2005. Association of the risk allele of dopamin transporter gene (*DAT1*10*) in Omani male children with attention-deficit hyperactivity disorder. *Clinical Biochemistry*; 38: 739-742.
- Sonuga-Barke, E. J., Brookes, K. J., Buitelaar, J., Anney, R., Bitsakou, P., Baeyens, D., 2008. Intelligence in DSM-IV combined type attention-deficit/hyperactivity disorder is not predicted by either dopamine receptor/transporter genes or other previously identified risk alleles for attention-deficit/hyperactivity disorder. *AmJMedGenetPart B: Neuropsychiatric Genetics*, 147(3), 316-319.

- Sonuga-Barke, E.J.S., Brandeis, D., Cortese, S., Daley, D., Ferrin, M., Holtmann, M., Stevenson, J., Dancaerts, M., van der Oords, S., Döpfner, M., Dittmann, R.W., Simonoff, E., Zuddas, A., Banaschewski, T., Buitelaar, J., Coghill, D. 2013. Nonpharmacological interventions for ADHD: Systematic review and meta-analyses of randomized controlled trials of dietary and psychological treatments. *Am J Psychiatry*;170(3):275-289.
- Spencer, T., Biederman, J., Coffey, B., Geller, D., Wilens, T., Faraone, S., 1999, The 4-year course of tic disorders in boys with attention-deficit/hyperactivity disorder, *Archives of general psychiatry*, 56(9), 842.
- Spencer, T., Biederman, J., Harding, M., O'Donnell, D., Faraone, S., Wilens, T. 1996. Growth deficits in ADHD children revisited: Evidence for disorder-associated growth delays? *J Am Acad Child Adolesc Psychiatry*, 35, 1460-1469.
- Stein, M, A., Waldman, I., Newcorn, J., Bishop, J., Kittles, R., Cook, E, H Jr. 2014. Dopamine transporter genotype and stimulant dose-response in youth with attention-deficit/hyperactivity disorder. *J Child Adolesc Psychopharmacol.* Jun;24(5):238-44.
- Steiner, N.J., Frenette, E.C., Rene, K.M., Brennan, R.T., Perrin, E.C. 2014. Neurofeedback and cognitive attention training for children with attention-deficit hyperactivity disorder in schools. *J Dev Behav Pediatr.*;35:18-27.
- Stergiakouli, E., Hamshere, M., Holmans, P, Langley, K., Zaharieva, I., Hawi, Z., et al. 2012. Investigating the Contribution of Common Genetic Variants to the Risk and Pathogenesis of ADHD. *Am J Psychiatry* 2012;169:186-194.
- Stins, J.F., Tollenaar, M.S., Slaats-Willems, D.I.E., Buitelaar, J.K., Swaab-Barneveld, H., Verhulst, F.C., Polderman, T.C., Boomsma, D.I. 2005. Sustained attention and executive functioning performance in attention-deficit/hyperactivity disorder. *Child Neuropsychology*;11:285-294.
- Stroop, J.R. 1935. Studies of interference in serial verbal reaction. *J Exp Psychol.*;18:643-662.
- Sugiarnin, Mohammad. 2007. *Bahan Ajar Anak dengan ADHD*. Universitas Pendidikan Indonesia. Diunduh dari file.upi.edu/Direktori/FIP/JUR._PEND._LUAR.../ADHD.pdf.
- Taylor, E., Rogers, J.W. 2005. Practitioner review: early adversity and developmental disorders. *J Child Psychol Psychiatry*;46(5):451-67.
- Thakur, G, A., Sengupta S, M., Grizenko, N., Choudhry, Z., Joobar, R. 2012. Comprehensive Phenotype/Genotype Analyses of the Norepinephrine Transporter Gene (SLC6A2) in ADHD: Relation to Maternal Smoking during Pregnancy. *Pubmed*. November;7(11)e49616.
- Thapar, A., Cooper, M., Eyre, O., Langley, K. 2013. Practitioner review: what have we learnt about the causes of ADHD?. *Journal of Child Psychology and Psychiatry*, 54(1), 3-16.
- The Tourette's Syndrome Study Group. 2002. Treatment of AD/HD in children with tics: A randomized controlled trial. *Neurology*; 58: 527-536.
- Tripp, G., Wickens, J. R., 2009, Neurobiology of ADHD, *Neuropharmacology*, 57(7), 579-589.
- Undang undang Republik Indonesia no 23 tahun 2002 tentang perlindungan anak

- Van Tol, H.H.M., Wu, C.M., Guan, H.C., *et al.* 1992. Multiple dopamin D4 receptor variants in the human population. *Nature*; 358: 149-152.
- Vandenbergh, D.J., Persico, A.M., Hawkins, A.L., *et al.* 1992. Human dopamine transporter gene (*DAT1*) maps to chromosome 5p15.3 and displays a VNTR. *Genomics*; 14: 1104-1106.
- VanNess, S.H., Owens, M.J., Kilts, C.D. 2005. The variable number of tandem repeats elements in *DAT1* regulates in vitro dopamine transporter density. *BMC Genetics*; 6 (55): 1-11.
- Varrone, A., Halldin, C. 2010. 'Molecular imaging of the dopamine transporter', *J Nucl Med*;51:1331-1334.
- Vieyra, G., Moraga, M., Henríquez, H., Aboitiz, F., Rothhammer, F. 2003. [Distribution of DRD4 and DAT1 alleles from dopaminergic system in a mixed Chilean population]. *Rev Med Chil.* Feb;131(2):135-43.
- Volkow, N.D., Wang, G., Kollins, S.H., Wigal, T.L. Newcorn, J.H., Telang, F., *et al.* 2009. Evaluating Dopamine Reward Pathway in ADHD: Clinical Implications. *JAMA*;302(10):1084-1091.
- Wihartono, W., Sutarni, S., Setyaningsih, I. 2007. Faktor Risiko Attention Deficit/Hyperactivity Disorder pada murid Sekolah Dasar di Kecamatan Banguntapan, Kabupaten, Bantul, Daerah Istimewa Yogyakarta.. Universitas Gadjah Mada. Tesis.
- Wilens, T. E., Spencer, T. J. 1999. Combining methylphenidate and clonidine: A clinically sound medication option. *J Am Acad Child and Adolesc Psychiatry.* 38. 614.
- Yang, B., Chan, R.C.K., Jing, J., Li, T., Sham, P., Chen, R.Y.L. 2007. A meta-analysis of association studies between the 10-repeat allele of a VNTR polymorphism in the 3'-UTR of dopamine transporter gene and attention deficit hyperactivity disorder. *Am J Med Genet Part B*; 144B: 541-550.
- Yeatman, J.D., Dougherty, R.F., Schachar, M.B., Wandell, B.A. 2012. Development of white matter and reading skills. *PNAS*; Ed by Raichle, ME. University in St Louis, Washington.
- Yoshimasu, K., Barbaresi, W. J., Colligan, R. C., Killian, J. M., Voigt, R. G., Weaver, A. L., *et al.*, 2011, Written-Language Disorder Among Children With and Without ADHD in a Population-Based Birth Cohort, *Pediatrics*, 128(3), e605-e612.
- Young, S., & Amarasinghe, J.M. 2010. Practitioner review: Non-pharmacological treatments for ADHD: A lifespan approach. *J of Child Psychology and Psychiatry*;51(2):116-133.
- Yousefia, S., Far, A. S., Abdollahian, E. 2011. Parenting stress and parenting styles in mothers of ADHD with mothers of normal children. *Procedia-Social and Behavioral Sciences*;30:1666-1671.
- Zambrano-Sánchez, E., Martínez-Cortés, J. A., Rió-Carlos, Y. D., Martínez-Wbaldo, M. D. C., Poblano, A. 2010. Executive dysfunction screening and intellectual coefficient measurement in children with attention deficit hyperactivity disorder. *Archivos de neuro-psiquiatria*, 68(4), 545-549.



UNIVERSITAS
GADJAH MADA

Hubungan Antara Polimorfisme Gen Dopamine Receptor D4 (DRD4) Dan Gen Dopamine Transporter 1 (DAT1) Dengan Gambaran Neurologis Dan Neuropsikologi Pada Anak Dengan Attention Deficit/Hyperactivity Disorder (ADHD)

Cempaka Thursina Srie Setyaningrum, of. Dr. dr. Sri Sutarni, SpS(K); Prof. Dr. dr. Samekto Wibowo, SpS(K), SpFK
Universitas Gadjah Mada, 2015 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Zentall, S.S., Smith, Y.N., Lee, Y.B., Wiczorek, C., 1994, Mathematical *outcomes* of attention-deficit hyperactivity disorder, *J Learn Disabil.* 27(8):510-9.