

CURRICULUM VITAE

Akemi Tomoda, M.D., Ph.D.

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Education

1998 Ph.D.

Kumamoto University School of Medicine, Kumamoto, Japan

Thesis; Single-photon emission computed tomography for cerebral blood flow
in school phobias

1987 M.D.

Kumamoto University School of Medicine, Kumamoto, Japan

1985 A.B.

Kumamoto University, Kumamoto, Japan

Research Appointments

June 2011- Present; Professor in Child Development Research Center,
Graduate School of Medicine, University of Fukui

August 2012- Present; Visiting Professor in Center for Multidisciplinary Brain research,
National Institute for Physiological Sciences, Aichi

April 2012- Present; Professor, Department of Child Development, United Graduate
School of Child Development, Osaka University, Kanazawa University,
Hamamatsu University School of Medicine, Chiba University and University
of Fukui, Japan

April 2009- May 2011; Associate Professor in Child Development
Faculty of Life Sciences, Kumamoto University

April 2006- March 2009; Associate Professor in Child Developmental Sociology

Faculty of Life Sciences,
Kumamoto University

November 2005- Present; Visiting Associate Professor in Developmental Biopsychiatry
Research Program, McLean Hospital, Belmont, MA, U.S.A.

April 2003- October 2005; Visiting Assistant Professor in Developmental
Biopsychiatry Research Program, McLean Hospital, Belmont, MA, U.S.A.

April 1992-March 2006; Assistant Professor in Pediatrics

April 1990- March 1992; Adjunct Assistant Professor in Pediatrics
Kumamoto University,
Department of Child Development, Kumamoto, Japan

Academic Appointments

June 2011- Present; Professor in Child Development Research Center,
Graduate School of Medicine, University of Fukui

April 2012- Present; Professor, Department of Child Development, United Graduate
School of Child Development, Osaka University, Kanazawa University,
Hamamatsu University School of Medicine, Chiba University and University
of Fukui, Japan

April 2009- May 2011; Associate Professor in Child Developmental Sociology
Faculty of Medical and Pharmaceutical Sciences,
Kumamoto University

August 2005- November 2005;
Boston University Psychology Department Lecturer,

April 2003- November 2005; Visiting Assistant Professor,
Department of Psychiatry of Harvard Medical School, U.S.A

April 1992- March 2006; Assistant Professor in Pediatrics
Kumamoto University Hospital,
Department of Child Development, Kumamoto, Japan

June 1990- March 1992; Adjunct Assistant Professor in Pediatrics
Kumamoto University Hospital,
Department of Child Development, Kumamoto, Japan

June 1989- May 1990; Medical Staff in Pediatrics
Kitakyushu Municipal Hospital, Fukuoka, Japan

June 1988- May 1989; Resident in Pediatrics

Kumamoto Municipal Hospital, Kumamoto, Japan

October 1987- May 1988; Resident in Pediatrics

Kagoshima Municipal Hospital, Kagoshima, Japan

April 1987- September 1987; Resident in Pediatrics

Kumamoto University Hospital,

Department of Child Development, Kumamoto, Japan

Award

2005 Scientific Research Award of Japan-U.S. Brain Research Cooperation Program

2009-11 Scientific Research Award of Japan-U.S. Brain Research Cooperation Program for Group Joint Study Project

Certification

1991 Japanese board of Pediatrics

1995 Japanese board of Child Neurology

2000 Japanese board of Chronobiology

2011 Japanese board of Pediatric Psychiatric Neurology

Societies

The Japanese society for Pediatrics

The Japanese society for Child Neurology

The Japanese society for Chronobiology

The American association for Chronic Fatigue Syndrome

The society for International Conference of Psychosomatic Medicine

The American Academy of Child & Adolescent Psychiatry

The American association for Biological Psychiatry

Reviewer board of Journal of Pediatric Neurology

Associate editor of BMC Psychiatry

Bibliography

1. Fujisawa TX, Tanaka S, Saito DN, Kosaka H, Tomoda A. Visual attention for social information and salivary oxytocin levels in preschool children with autism spectrum disorders: An eye-tracking study. *Front Neurosci* 8:295, 2014.
2. Kumazaki H, Watanabe K, Imasaka Y, Iwata K, Tomoda A, Mimura M. Risperidone-induced urinary incontinence in patients with autistic disorder with mental retardation. *Journal of Clinical Psychopharmacology*, 36(5):151-156, 2014.
3. Jung M, Kosaka H, Saito DN, Ishitobi M, Morita T, Inohara K, Sasaki A, Asano M, Arai S, Masuya Y, Munesue T, Tomoda A, Wada Y, Sadato N, Okazawa H, Iidaka T. Default mode network in autism spectrum disorder (2) -Strength of functional connectivities in default mode network predicts autism spectrum traits. *Molecular Autism*, 5:35, 2014.
4. Liang S, Wang X, Zoua M, Wanga H, Zhoua X, Suna C, Xia W, Wu L, Fujisawa TX, Tomoda A. Family based association study of ZNF533, DOCK4 and IMMP2L gene polymorphisms linked to Autism in a Han population in northeastern China. *J Zhejiang University-SCIENCE B (Biomedicine & Biotechnology)*, in press, 2013.
5. Kawabata M, Ueno T, Tomita J, Kawatani J, Tomoda A, Kume S, Kume K. Temporal organizations of rest defined by actigraphy in healthy and childhood chronic fatigue syndrome children. *BMC Psychiatry*, Sep-Oct;36(5):151-6. doi: 10.1097/WNF.0b013e3182a31ec0, 2013.
6. Yatsuga C, Toyohisa D, Fujisawa TX, Nishitani S, Shinohara K, Matsuura N, Ikeda N, Muramatsu M, Hamada A, Tomoda A. No association between Catechol-O-methyltransferase (COMT) genotype and attention deficit hyperactivity disorder (ADHD) in Japanese children. *Brain Dev*, doi: 10.1016/j.braindev.2013.08.006, Sep 12, 2013.
7. Ishitobi M, Kosaka H, Takahashi T, Yatsuga C, Asano M, Tanaka Y, Ueno K, Okazaki R, Omori M, Hiratani M, Tomoda A, Wada Y. Effectiveness and tolerability of switching to aripiprazole from risperidone in subjects with Pervasive Developmental Disorders: A prospective open-label study. *Clinical Neuropharmacology*, Sep-Oct;36(5):151-6. doi: 10.1097/WNF.0b013e3182a31ec0, 2013.
8. Tomoda A, Nishitani S, Matsuura N, Fujisawa T, Kawatani J, Toyohisa D, Ono M, Shinohara K. No interaction between serotonin transporter polymorphism gene

- (5-HTTLPR) and adversity on depression among Japanese children and adolescents. *BMC Psychiatry*, 13:134 doi:10.1186/1471-244X-13-134, 2013.
9. Mizuno K, Yoneda T, Komi M, Hirai T, Watanabe Y, Tomoda A.
Osmotic release oral system-methylphenidate improves neural activity during low reward processing in children and adolescents with attention-deficit/hyperactivity disorder. *NeuroImage: Clinical*, 10.1016/j.nicl.2013.03.004, 2013.
 10. Tomoda A, Polcari A, Andersen CM, Teicher MH. Reduced visual cortex gray matter volume and thickness in young adults who witnessed domestic violence during childhood. *PLoS One*, doi: 10.1371/journal.pone.0052528, 2012.
 11. Kosaka H, Munosue T, Ishitobi M, Asano M, Omori M, Tomoda A, Wada Y.
Long-term oxytocin administration improves social behaviors in a girl with autistic disorder. *BMC Psychiatry* Aug 13;12(1):110, 2012.
 12. Santen GWE, Gijbbers ACJ, Carré A, M. Holvoet M, van Haeringen A, Lesnik-Oberstein SAMJ, Tomoda A, Mabe H, Polak M, Devriendt K, Ruivenkamp C, Bijlsma EK. Further delineation of the phenotype of chromosome 14q13 deletions: (positional) involvement of FOXP1 appears the main determinant of phenotype severity, no evidence for a holoprosencephaly locus. *Journal of Medical Genetics J Med Genet*, Jun;49(6):366-72, 2012.
 13. Tomoda A, Yamazaki M. Adolescents with sleep disturbance. In: *Sleep Disorders: Causes, Diagnosis and Treatment* edited by Nadya Gotsirize-Columbus. Nova Science Publishers, p21-30, 2012.
 14. Tomoda A, Kinoshita S, Korenaga Y, Mabe H.
Pseudohypacusis in childhood and adolescence is associated with increased gray matter volume in medial frontal gyrus and superior temporal gyrus. *Cortex*, 48, 492-503, 2012.
 15. Ishitobi M, Hiratani M, Kosaka H, Takahashi T, Mizuno T, Asano M, Murata T, Tomoda A, Wada Y. Switching to aripiprazole in subjects with Pervasive Developmental Disorders showing tolerability issues with risperidone. *Progress in Neuro-Psychopharmacology & Biological Psychiatry*, Jan 8, 2012.
 16. Shi T, Li X, Song J, Zhao N, Sun C, Xia W, Wu L, Tomoda A. EEG characteristics and visual cognitive function of children with attention deficit hyperactivity disorder (ADHD). *Brain Dev*, Mar 26, 2012.
 17. Kawatani M, Hiratani M, Kometani H, Nakai A, Tsukahara H, Tomoda A,

- Mayumi M, Ohshima Y. Focal EEG abnormalities might reflect the neurophysiological characteristics of ADHD and PDD. *Brain Dev*, Jan 4, 2012.
18. Wang J, Zhou X, Wei Xia W, Sun C, Wu L, Wang J, Tomoda A. Parent-reported health care expenditures associated with autism spectrum disorders in Heilongjiang Province, China. *BMC Health Serv Res*, Jan 10;12(1):7, 2012.
 19. Kawatani J, Mizuno K, Shiraishi S, Takano M, Joudoi T, Fukuda S, Watanabe Y, Tomoda A. Cognitive dysfunction and mental fatigue in childhood chronic fatigue syndrome – A six-month follow-up study. *Brain Dev*, 33, 832-841, 2011.
 20. Tomoda A, Sheu Y, Rabi K, Suzuki H, Navalta C, Polcari A, Teicher MH. Exposure to parental verbal abuse is associated with increased gray matter volume in superior temporal gyrus. *Neuroimage*, 54 Jan, S280-286, 2011.
 21. Fukuda S, Yamano E, Joudoi T, Mizuno K, Tanaka M, Kawatani J, Takano M, Tomoda A, Imai-Matsumura K, Miike T, Watanabe Y. Effort-reward imbalance for learning is associated with fatigue in school children. *Behavioral Medicine*, Apr-Jun; 36(2): 53-62, 2010.
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 27. Tomoda A, Suzuki H, Rabi K, Sheu Y, Polcari A, Teicher MH. Reduced prefrontal cortical gray matter volume in young adults exposed to harsh corporal punishment. *Neuroimage*, 47(2), T66-71, 2009.
 28. Tomoda A, Kawatani J, Joudoi, T, Hamada A, Miike T. Metabolic dysfunction and circadian rhythm abnormalities in adolescents with sleep disturbance. *Neuroimage*, 47(2), T21-26, 2009.
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 31. Andersen SL*, Tomoda A*, Vinchow E, Valente E, Polcari A, Teicher MH. Preliminary evidence for sensitive periods in the effect of childhood sexual abuse on regional brain development. (*These authors contributed equally to this study.) *Journal of Neuropsychiatry and Clinical Neurosciences*, 20:292-301, 2008.
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- approach with research and therapeutic implication. *Behavioral and Brain Functions*, 3:13 (6 March 2007), 2007.
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44. Tomoda A, Nomura K, Shiraishi S, Hamada A, Ohmura T, Hosoya M, Miike T, Sawaishi Y, Kimura H, Takashima H, Tohda Y, Mori K, Kato Z, Fukushima A, Nishio H, Nezu A, Nihei K. Trial of intraventricular ribavirin therapy for subacute sclerosing panencephalitis (SSPE) in Japan. *Brain Dev* 25:514-7, 2003.
45. Tomoda A, Jhodoi T, Kawatani J, Hamada A, Ohmura T, Tonooka S, Miike T. Case study: Differences in human *Per2* gene expression, body temperature, cortisol and melatonin parameters in remission and hypersomnia in a patient with recurrent hypersomnia. *Chronobiol Int.* 20, 891-898, 2003.
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47. Tomoda A, Jhodoi T, Miike T. Chronic fatigue and abnormal biological rhythms in school children. *J Chronic Fatigue Syndrome* 60: 607-612, 2001.
48. Tomoda A, Shiraishi S, Hosoya M, Hamada A, Miike T. Combined treatment with interferon-a and ribavirin for subacute sclerosing panencephalitis (SSPE). *Pediatr Neurol* 24: 54-59, 2001.
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53. Tomoda A, Miike T, Iwatani N, Ninomiya T, Mabe H, Kageshita T, Ito S. Effect of long-term melatonin administration on school-phobic children and adolescents with sleep disturbances. *Curr Ther Res* 0.458 60; 607-612, 1999.
54. Furusawa M, Morishita S, Kira M, Takahashi M, Tomoda A, Miike T, Arai N. Evaluation of school refusal with localized proton MR spectroscopy. *Asia Ocean J*

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55. Tomoda A, Miike T, Yonamine K, Adachi K, Shiraishi S. Disturbed circadian core body temperature rhythm and sleep disturbance in school refusal children and adolescents. *Biol Psychiatry* 41; 810-813, 1997.
 56. Tomoda A, Miike T, Miyagawa S, Negi A, Takeshima H. Subacute sclerosing panencephalitis and chorioretinitis. *Brain Dev* 19; 55-57, 1997.
 57. Koide R, Onodera O, Ikeuchi T, Kondo R, Tanaka H, Tomoda A, Miike T. Atrophy of the cerebellum and brainstem in dentatorubral-pallidoluyian atrophy (DRPLA): Influence of CAG repeat size on MRI findings. *Neurology*, 49:1605-1612, 1997.
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 59. Kumamoto T, Ueyama H, Tomoda A, Ando Y, Ando M, Tsuda T. Autonomic dysfunction in distal myopathy with rimmed vacuoles. *Acta Cardiomiol* 8:7-12, 1996.
 60. Ikeuchi T, Koide R, Tanaka H, Onodera O, Igarashi S, Takahashi H, Kondo R, Ishikawa A, Tomoda A, Miike T, Shimizu N, Ikuta F, Tsuji S. Dentatorubral-pallidoluyian atrophy (DRPLA): Clinical features are closely related to unstable expansions of CAG repeat. *Ann Neurol* 37; 769-775, 1995.
 61. Tomoda A, Miike T, Honda T, Fukuda K, Kai Y, Nabeshima M, Takahashi M. Single-photon emission computed tomography for cerebral blood flow in school phobias. *Curr Ther Res* 56; 1088-1093, 1995.
 62. Koide R, Ikeuchi T, Tanaka H, Onodera O, Igarashi S, Endo K, Takahashi H, Kondo R, Ishikawa A, Tomoda A, Miike T, Naito H, Ikuta F, Tsuji S. Unstable expansion of CAG repeat in hereditary dentatorubral-pallidoluyian atrophy (DRPLA). *Nat Genet* 6; 9-13, 1994.
 63. Tomoda A, Miike T, Matsukura M. Circadian rhythm abnormalities in adrenoleukodystrophy and methyl B12 treatment. *Brain Dev* 17; 428-431, 1995.
 64. Tomoda A, Miike T, Uezono K, Kawasaki T. A school refusal case with biological rhythm disturbance and melatonin therapy. *Brain Dev* 16; 71-76, 1994
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nervous system disorders and possible brain type carnitine palmitoyltransferase II deficiency. *Brain Dev* 16; 139-145, 1994.

67. Tomoda A, Ikezawa M, Ohtani Y, Miike T, Kumamoto T. Progressive myoclonus epilepsy: Dentato-rubro-pallido-luysian atrophy (DRPLA) in childhood. *Brain Dev* 13; 266-269, 1991.

Presentation at the meeting

1. Tomoda A, Miike T, Honda T, Fukuda K, Kai Y, Nabeshima M, Takahashi M. Single-photon emission computed tomographic investigation of patients with school refusal.
The XV Symposium Neuroradiologicum: Sep. 25 - Oct.1 '94, Takahashi M, Korogi Y, Moseley I, eds. Spring Verlag • Berlin • Heidelberg • New York, 1995.
2. Tomoda A, Miike T, Jhodoi T. Chronic fatigue syndrome (CFS) in childhood. American Association for Chronic Fatigue Syndrome, Fifth International Conference. Seattle, Washington, USA, January 26-29, 2001
3. Tomoda A, Miike T, Jhodoi T. Chronic fatigue syndrome (CFS) in childhood. The 16th International College of Psychosomatic Medicine Conference. Goteborg, Sweden, January 26-29, 2001
4. Jhodoi T, Tomoda A, Miike T. Chronic fatigue and abnormal biological rhythms in school children. The 16th International College of Psychosomatic Medicine Conference. Goteborg, Sweden, January 26-29, 2001
5. The American Academy of Child & Adolescent Psychiatry 51st annual meeting (October 19-24, 2004 Washington DC)
Tomoda A, Navalta C, Polcari A, Teicher MH.
Reduced cortical surface area associated with childhood sexual abuse.
6. Neuroscience 2004 annual meeting
(October 25-28, 2004 San Diego)
Tomoda A, Navalta C, Polcari A, Teicher MH.
Abnormal cortical development in young adults with a history of repeated sexual abuse: A morphometric imaging study using cortical surface-based analysis.
8. Harvard Psychiatry Research Day
(March 30, 2005 Boston)

Tomoda A, Navalta C, Polcari A, Teicher MH

Abnormal visual cortical development in young women with a history of repeated sexual abuse: A voxel-based morphometric study.

9. The American Academy of Child & Adolescent Psychiatry 52nd annual meeting (October 18-23, 2005 Toronto, Canada)

Symposium:

Tomoda A, Navalta C, Polcari A, Sadato N, Teicher MH.

Abnormal visual cortical development in young women with a history of repeated sexual abuse: A voxel-based morphometric study.

10. Neuroscience 2005 annual meeting (November 12-16, 2005 Washington DC)

Tomoda A, Navalta C, Polcari A, Sadato N, Teicher MH.

Abnormal visual cortical development in young women with a history of repeated sexual abuse: A voxel-based morphometric study.

11. American College of Neuropsychopharmacology. (Waikoloa, Hawaii. 2005)

Teicher M, Andersen S, Tomoda A, Polcari A, Vincow E, Valente E.

Evidence for sensitive periods in the effects of childhood abuse on regional brain morphology.

12. 10th International Child Neurology Congress (June 11-16, 2006 Montreal, Canada)

Tomoda A, Navalta C, Polcari A, Teicher MH

Abnormal visual cortical development in young women with a history of repeated sexual abuse: A voxel-based morphometric study.

13. Neuroscience 2006 annual meeting (October 25-28, 2006 Atlanta)

Teicher MH, Tomoda A, Libesney, Navalta CP, Polcari A, Sadato N.

Exposure to childhood verbal abuse is associated with abnormalities in auditory cortex and hippocampus.

14. 9th Asian & Oceania Congress of Child Neurology (Jan 24-27, 2007 Cebu, Philippine)

Symposium "Symposium on Learning Disabilities"

Tomoda A.

Child abuse and its long consequences.

15. 2007 Annual Meeting of the American Psychosomatic Society (March 7-10, 2007

Budapest, Hungary)

Child abuse and its long consequences.

Tomoda A.

16. Harvard Psychiatry Research Day

(April 25, 2007 Boston, USA)

Tomoda A, Rabi K, Sheu Y, Navalta CP, Polcari A, Teicher MH.

Adverse effects of verbal abuse on brain gray matter volume.

17. The American Academy of Child & Adolescent Psychiatry 54th annual meeting

(October 23-28, 2007 Boston, USA)

Tomoda A, Rabi K, Sheu Y, Navalta CP, Polcari A, Teicher MH.

Adverse effects of harsh corporal punishment on brain gray matter volume.

18. Neuroscience 2007 annual meeting

(November 2-7, 2007 San Diego, USA)

Tomoda A, Rabi K, Sheu Y, Navalta CP, Polcari A, Teicher MH.

Adverse effects of verbal abuse on brain gray matter volume.

19. 3rd Symposium of Children Rehabilitation and 7th Specialized Training Class of Disabled Children Rehabilitation Skills in China

(January 10-14, 2008 Harbin, China)

Tomoda A.

AD/HD and brain development.

20. 5th Annual World Congress for International Brain Mapping & Intraoperative Surgical Planning Society

(August 26-30, 2008 Los Angeles, USA)

Tomoda A, Rabi K, Sheu Y, Suzuki H, Polcari A, Teicher MH.

Prefrontal cortex involvement as adverse effects of harsh corporal punishment in childhood on brain gray matter volume.

21. International chronic fatigue syndrome 2008 Conference

(September 3-6, 2008 Okinawa, Japan)

Tomoda A, Kawatani J, Joudoi, T, Hamada A, Miike T.

Metabolic dysfunction and circadian rhythm abnormalities in adolescents with sleep disturbance.

22. Japan-China Symposium “Strategies to Reduce Risks on the Brain Development

Contingent to Urbanization” (October 23-25, 2008 Tsukuba, Japan)

Tomoda A.

Neurobiological & behavior consequences of early stress and childhood maltreatment.

23. The American Academy of Child & Adolescent Psychiatry 55th annual meeting (October 27-31, 2008 Chicago, USA)

Tomoda A.

Metabolic dysfunction and circadian rhythm abnormalities in adolescents with sleep disturbance.

24. Neuroscience 2008 annual meeting

(November 15-18, 2008 Washington DC, USA)

Tomoda A, Rabi K, Sheu Y, Suzuki H, Navalta C, Polcari A, Teicher MH.

Adverse effects of harsh corporal punishment in childhood on brain gray matter volume.

25. American Psychological Association meeting

Suzuki H, Tomoda A. Differences between physical abuse and corporal punishment: Japanese qualitative study.

(Toronto, Ontario Canada, Aug 6-9, 2009)

26. 6th Annual World Congress for International Brain Mapping & Intraoperative Surgical Planning Society (Boston, USA, August 26, 2009).

Tomoda A. Neurobiological behavior consequences of early stress and childhood maltreatment.

27. The American Academy of Child & Adolescent Psychiatry 56th annual meeting (Honolulu, USA, October 30, 2009).

Tomoda A, Kawatani J, Jodoi T, Mizuno K, Miike T, Watanabe Y. Attention Deficit /Hyperactivity Disorder (AD/HD) and Chronic Fatigue in Childhood.

28. The American Academy of Child & Adolescent Psychiatry 56th annual meeting (Honolulu, USA, October 31, 2009).

Mizuno K, Tanaka M, Kawatani J, Jodoi T, Tomoda A, Miike T, Watanabe Y. Attentional Functions in Childhood Chronic Fatigue Syndrome. The American Academy of Child & Adolescent Psychiatry 56th annual meeting (Honolulu, USA, October 31, 2009).

29. 7th Annual World Congress for International Brain Mapping & Intraoperative Surgical Planning Society (Washington DC, USA, May 24, 2010).

Kinoshita S, Korenaga Y, Mabe H, Nishijima Y, Tomoda A.

Pseudohypacusis in childhood and adolescents is associated with increased gray matter volume in medial frontal gyrus and superior temporal gyrus.

30. Neuro 2010 Symposium “Progress in Behavioral Neuroendocrine Studies for Understanding of Brain Mechanisms of Social Bonding” (Kobe, Japan, September 2, 2010).

Tomoda A.

Neurobiological and behavioral consequences of exposure to childhood traumatic stress and preliminary evidence for sensitive periods in the effect of childhood abuse on regional brain development.

31. Neuroscience 2010 annual meeting
(November 17, 2010 San Diego, USA)

Tomoda A, Rabi K, Suzuki H, Navalta C, Polcari A, Teicher MH.

Adverse effects of exposure to domestic violence in childhood on brain gray matter volume: A voxel-based morphometric study

32. The American Academy of Child & Adolescent Psychiatry 57th annual meeting
(New York, USA, October 27, 2010).

Mizuno K, Kawatani J, Jodoi T, Tomoda A, Watanabe Y.

Excessive neural activation during divided attention processing in childhood chronic fatigue syndrome.

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