

Spina Bifida Project: Publication List

1998

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1. Hetherington R, Dennis M, Kennedy D, Barnes M, & Drake J (1998). Congenital cerebellar dysmorphology: Motor function and MRI-based morphometric analysis. *Brain and Cognition*, 37, 34-40.
2. Scott MA, Fletcher JM, Brookshire BL, Davidson KC, Landry SH, Bohan TC, Kramer LA., Brandt ME, & Francis DJ (1998). Memory functions in children with early hydrocephalus. *Neuropsychology*, 4, 578-589.

ABSTRACTS

1. Barnes MA, Pengelly S, Dennis M, Faulkner H, & Wilkinson M (1998). Math processing in good readers with hydrocephalus. Canadian Society for Brain, Behaviour and Cognitive Science, Annual Meeting, Ottawa, Ontario.
2. Dennis M, Barnes MA, & Hetherington CR, Bosley J, Wilkinson M, Drake J, Gentile F, Hoffman H, & Humphreys R (1998). Adult survivors of early-onset hydrocephalus: Does mental arithmetic in childhood predict mental arithmetic and functional numeracy in adulthood? *Journal of the International Neuropsychological Society*, 5, 4.
3. Hannay HJ (July, 1998). Functioning of the corpus callosum in children with hydrocephalus. Presidential address at the Twenty-First Annual International Neuropsychological Society Mid-year Conference, Budapest, Hungary.
4. Volcik KA, Tyerman G, Jong ST, Rott EJ, Blanton SH, & Northrup H (1998). Analysis of the C677T mutation of the MTHFR gene as a risk factor for spina bifida in Hispanics. *American Journal of Medical Genetics*, 63, 4, A1283.

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1. Hetherington R, & Dennis M (1999). Motor function profile in children with early onset hydrocephalus. *Developmental Neuropsychology*, 15, 25-51.
2. Klaas P, Hannay HJ, Caroselli J, & Fletcher JM (1999). Interhemispheric transfer of information in children with partial agenesis of the corpus callosum. *Journal of Clinical and Experimental Neuropsychology*, 21, 837-850.

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1. Dennis M, Barnes MA, & Hetherington CR (1999). Congenital hydrocephalus as a model of neurodevelopmental disorder. In H Tager-Flusberg (Ed.) *Neurodevelopmental disorders: Contribution to a new perspective from the cognitive neurosciences* (pp 505-532). Cambridge, MA: MIT Press.
2. Dennis M, Hetherington CR, Spiegler BJ, & Barnes MA (1999). Functional consequences of congenital cerebellar dysmorphologies and acquired cerebellar lesions of childhood. In SH Broman & JM Fletcher (Eds.). *The changing nervous system: Neurobehavioral consequences of early brain disorders* (pp. 172-198). New York: Oxford University Press.
3. Hannay HJ, Fletcher JM & Brandt ME. (1999). The role of the corpus callosum in the cognitive development of children with congenital brain malformations. In SH Broman & JM Fletcher (Eds.), *The changing nervous system: Neurobehavioral consequences of early brain disorders* (pp. 149-171). New York: Oxford.

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1. Barnes MA. (1999). Construction of meaning from text in children with early hydrocephalus. In Symposium: Text comprehension difficulties: Integrating findings from different populations. Presented at the Society for Research in Child Development. Albuquerque, New Mexico.
2. Brandt M (1999). An improved whole-brain MRI segmentation procedure based on fuzzy clustering. Seventeenth Annual Conference on Biomedical Engineering Research.

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1. Dennis M (2000). Developmental plasticity in children: The role of biological risk, development, time, and reserve. *Journal of Communication Disorders*, 33, 321-332.
2. Dennis M, Spiegler BJ, & Hetherington R (2000). New survivors for the new millennium: Cognition in adults with childhood brain insults. *Brain and Cognition*, 42, 102-105.
3. Hannay HJ (2000). Functioning of the corpus callosum in children with early hydrocephalus. *Journal of the International Neuropsychological Society*, 6, 351-361.
4. Northrup H, & Volick KA (2000). Spina bifida and other neural tube defects. *Current Problems in Pediatrics*, 30, 313-340.
5. Volcik KA, Blanton SH, Tyerman GH, Jong ST, Rott EJ, Page TZ, Romaine NK, & Northrup H (2000). Methylenetetrahydrofolate reductase and spina bifida: evaluation of level of defect and maternal genotypic risk in Hispanics. *American Journal of Medical Genetics*, 95, 21-27.

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1. Dennis M (2000). Acquired disorders of language in children. In MJ Farah & TE Feinberg (Eds.), *Patient-based approaches to cognitive neuroscience. Issues in clinical and cognitive neuropsychology* (pp 199-216). Cambridge, MA: The MIT Press.
2. Dennis M (2000). Childhood medical disorders and cognitive impairment: Biological risk, time, development, and reserve. In KO Yeates, MD Ris, & HG Taylor (Eds.), *Pediatric neuropsychology: Research, theory and practice* (pp. 3-22). New York: Guilford Press.
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1. Brandt M, Strite D, & Fletcher J (2000). Segmentation of brain tissue in hydrocephalus. Eighteenth Annual Conference on Biomedical Engineering Research.
2. Dennis M, Barnes MA, Hetherington CR, Robitaille J, Hopyan T, Spiegler BJ, & Drake J (2000). Retrospective and prospective memory in adult survivors of spina bifida. *Journal of the International Neuropsychological Society*, 6, 160.
3. Dennis M, Rogers T, & Barnes MA (2000). Children with spina bifida perceive visual illusions but not multistable figures. TENNET, Tenth Conference, Montreal, Quebec.
4. Volcik KA, Blanton SH, Tyerman GH, & Northrup H (2000). Testing for genetic associations of the PAX genes in a spina bifida population. *American Journal of Human Genetics*, 67, A1672.

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1. Barnes MA, Faulkner H, & Dennis M (2001). Poor reading comprehension despite fast word decoding in children with hydrocephalus. *Brain and Language*, 76, 35-44.
2. Brewer VR, Fletcher JM, Hiscock M & Davidson KC (2001). Attention processes in children with shunted hydrocephalus versus attention deficit/hyperactivity disorder. *Neuropsychology*, 15, 185-198.
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1. Au K-S, Volcik KA, Featherston S, & Northrup H (2001). The low activity H1 haplotype of PDGFRA P1 promoter may predispose to spina bifida in individuals of Mexican descent. *American Journal of Human Genetics*, 69, A1955.
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- gene, GRHL3, with spina bifida meningomyelocele. Neural Tube Defects Conference, Indian Wells, California, September 2005.
5. Dennis M, & Hopyan T (2001). Rhythm and tonal memory in adolescents after left or right temporal lobectomy. *Journal of the International Neuropsychological Society*, 7, 240.
 6. Dennis M, Fletcher JM, Rogers T, & Hetherington R (2001). Object-based and action-based visual perception in children with spina bifida. *Journal of the International Neuropsychological Society*, 7, 246.
 7. Fletcher JM, Brandt ME, Strite D, Davidson KC, & Slopis JM (2001). Regional morphometric segmentation of the hydrocephalic brain: Relationships with motor and spatial skills. *Journal of the International Neuropsychological Society*, 7, 246.
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 10. Landry SH, Steelman L, Assel M, & Barnes MA (2001). Early cognitive skills in young children with spina bifida/hydrocephalus: A longitudinal study. *Journal of the International Neuropsychological Society*, 7, 246.

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2. Barnes MA, Pengelly S, Dennis M, Wilkinson M, Rogers T, & Faulkner H (2002). Mathematics skills in good readers with hydrocephalus. *Journal of the International Neuropsychology Society*, 8, 72-82.
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4. Dennis M, Fletcher JM, Rogers T, Hetherington R, & Francis D (2002). Object-based and action-based visual perception in children with spina bifida and hydrocephalus. *Journal of the International Neuropsychological Society*, 8, 95-106.
5. Fletcher JM, Barnes M, & Dennis M (2002). Language development in children with spina bifida. *Seminars in Pediatric Neurology*, 9, 201-208.
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7. Volcik KA, Blanton SH, Kruzel MC, Townsend IT, Tyerman GH, Mier RJ, & Northrup H (2002). Testing for genetic associations in a spina bifida population: analysis of the HOX gene family and human candidate gene regions implicated in mouse models of neural tube defects. *American Journal of Medical Genetics*, 110, 203-207.
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7. Kirkpatrick TJ, Au KS, Volcik KA., Featherston S, & Northrup H (2002). The low activity H1 haplotype of *PDGFRA* P1 promotor may predispose to spina bifida in individuals of Mexican descent. Presented at Neural Tube Defects 2002 and Beyond (2nd International NTD Meeting), Seabrook Island , South Carolina.
8. Kirkpatrick TJ, Au KS, Tran PX, Bassett S, Blanton SH, & Northrup H (2002). Candidate gene studies for linkage and genetic association to spina bifida in Hispanic and non-Hispanic white populations in North America. *American Journal of Human Genetics*, 71, A1911.
9. Ladd M, Lane S, Smith-Chant B, Wilkinson M, Landry S, & Barnes MA (2002). The development of number skills in preschoolers and school-age children with spina bifida. International Society for the Study of Behavioral Development 17th Biennial Meeting Abstracts.

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1. Ewing-Cobbs L, Barnes MA, & Fletcher JM (2003). Early brain injury in children: Development and reorganization of cognitive function. *Developmental Neuropsychology*, 24, 671-706.
2. Huber-Okrainec J, & Dennis M (2003). Idiom comprehension in childhood: An assessment tool and age norms. *Brain and Language*, 87, 188-191.

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1. Au K-S, Kirkpatrick TJ, Blanton SH, & Northrup H (2003). Candidate gene studies for association to spina bifida. Presented at the 2003 Neural Tube Defects Conference (3rd International NTD Conference), Seabrook Island, South Carolina.
2. Brandt M, Frederick J, Ibrikci T, Kramer L, Davidson K, & Fletcher J (2003). Estimation of brain tissue volumes from magnetic resonance scans in spina bifida. *Journal of the International Neuropsychological Society*, 9, 176.
3. Brandt M, Frederick J, Kramer L, & Fletcher J (2003). Brain tissue volumetry from MRI scans in spina bifida. Proceedings of the 20th Annual Conference on Biomedical Engineering Research.
4. Burmeister R, Hannay HJ, Copeland K, Hiscock M, & Fletcher JM (2003). ADHD in children with spina bifida meningocele. *Journal of the International Neuropsychological Society*, 9, 142.
5. Dennis M, Edelstein K, Copeland K, Brandt M, Blaser, S, Francis D, & Fletcher JM (2003). Perceptual and motor timing in children with spina bifida. *Journal of the International Neuropsychological Society*, 9, 176.
6. Dennis M, Edelstein K, & Copeland K. Functional dissociation of perceptual and perceptual-motor neglect in children with spina bifida (2003). American Psychological Association 111th Annual Conference, Toronto.
7. Edelstein K, Dennis M, Copeland K, Francis D, Brandt M, Blaser S, Hetherington R, & Fletcher JM (2003). Procedural motor learning in children with spina bifida. *Journal of the International Neuropsychological Society* 9, 142.
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11. Hopyan T, Schellenberg EG, & Dennis M (2003). Perception of rhythms with a strong or weak metric structure in children with spina bifida. *Journal of the International Neuropsychology Society*, 9, 142.

12. Huber-Okrainec J, Blaser S, & Dennis M (2003). Corpus callosum dysmorphology and idiomatic language function in children with spina bifida, [Presented at *Canadian Congress of Neurological Sciences – Child Neurology section, Quebec, QC, June, 2003*] *Canadian Journal of Neurological Sciences*, 30(S2), p. 43
13. Huber-Okrainec J, Dennis M, & Blaser SE (2003). Idiomatic language function and corpus callosum dysmorphology in children with spina bifida. Canadian Congress of Neurological Sciences, 38th Annual Meeting, Quebec City QE.
14. Jain N, Hannay HJ, Kramer L, Blaser S, & Fletcher JM (2003). Is interhemispheric transfer via the anterior commissure when the splenium is missing? *Journal of the International Neuropsychological Society*, 9, 176.
15. Landry SH, Lomax-Bream L, & Barnes M (2003). The importance of early motor and visual functioning for later cognitive skills in preschoolers with and without spina bifida. *Journal of the International Neuropsychological Society*, 9, 175.
16. O'Donnell M, Noseworthy M, Levine B, & Dennis M (2003). Cortical thickness of the frontopolar area in typically developing children and adolescents. Poster presented at European Society for Magnetic Resonance in Medicine and Biology, 20th Annual meeting, Rotterdam.
17. Smith-Chant BL, Loftus M, Lane S, & Barnes M (2003). The relation between fine motor, spatial, and home-based activities in the development of numeric skills in preschool children with spina bifida. Proceedings, Annual Conference for the Canadian Society of Brain, Behaviour and Cognitive Science, McMaster University, Hamilton.

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1. Barnes MA, Faulkner H, Wilkinson, M, & Dennis M (2004). Meaning construction and integration in children with hydrocephalus. *Brain and Language*. 89, 47-56.
2. Barnes MA, Dennis M, & Hetherington R (2004). Reading and writing skills in young adults with spina bifida and hydrocephalus. *Journal of the International Neuropsychological Society*, 10, 655-663.
3. Dennis M, Edelstein K, Hetherington R, Copeland K, Frederick J, Blaser SE, Drake JM, Brandt M, & Fletcher JM (2004). Neurobiology of timing in children with SB: Short duration perceptual timing and isochronous rhythmic tapping in relation to cerebellar volumes. *Brain*, 127, 1-10.
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4. Lane SE, Loftus MA., Landry SH, Barnes MA., & Smith-Chant B (2004). The role of parent-child activities in the development of numerical skills in children with spina bifida and typically developing children, *Canadian Psychology*, 45, 116
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7. Salman MS, Sharpe JA, Eizenman M, Lillakas L, Dennis M, Westall C, To T, & Steinbach M (2004). Saccadic adaptation in children. Paper presented to the 56th Annual Meeting of the American Academy of Neurology.
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