

Publications and Presentations utilising data from the SA Cerebral Palsy Register

Publications

2012

McMichael GL, MacLennan AH, Gibson CS, Alvino E, Goldwater PN, Haan EA, Dekker GA for the Australian Collaborative Cerebral Palsy Research Group. Cytomegalovirus and Epstein-Barr virus may be associated with some cases of cerebral palsy. *Journal of Maternal-Fetal and Neonatal Medicine* 2012. Early Online 1-4.

O'Callaghan ME, MacLennan AH, Gibson CS, McMichael GL, Haan EA, Broadbent JL, Goldwater PN, Painter JN, Montgomery GW, Dekker GA for the Australian Collaborative Cerebral Palsy Research Group. Fetal and Maternal Candidate Single Nucleotide Polymorphism Associations With Cerebral Palsy: A Case-Control Study. *Pediatrics* 2012; 129:2 e414-e423.

2011

McMichael GL, Highet AR, Gibson CS, Goldwater PN, O'Callaghan ME, Alvino E, MacLennan AH. Comparison of DNA extraction methods from small samples of newborn screening cards suitable for retrospective perinatal viral research. *Journal of Biomolecular Techniques* 2011; 22(1): 5-9.

O'Callaghan ME, MacLennan AH, Gibson CS, McMichael GL, Haan EA, Broadbent JL, Goldwater PN, Dekker GA for the Australian Collaborative Cerebral Palsy Research Group. Epidemiologic Associations with Cerebral Palsy. *Obstetrics and Gynecology* 2011; 118(3): 576-582.

Gibson CS, MacLennan AH, Haan EA, Priest K, Dekker GA. Fetal MBL2 haplotypes combined with viral exposure are associated with adverse pregnancy outcomes. *J Mater-Fet Neonat Med* 2011; 24(6): 847-854 (EPub Dec 21 2010).

Sawyer MG, Bittman M, La Greca AM, Crettenden, AD, Borojevic N, Raghavendra P, Russo R. Time demands of caring for children with cerebral palsy: what are the implications for maternal mental health? *Dev Med Child Neurol* 2011; 53(4): 338-343.

O'Callaghan ME, MacLennan AH, Gibson CS, McMichael GL, Haan EA, Broadbent J, Priest K, Goldwater PN, Dekker GA for the Australian Collaborative Cerebral Palsy Research Group. The Australian Cerebral Palsy Research Study - Protocol for a National Collaborative Study investigating genomic and clinical associations with cerebral palsy. *J Paed Child Health* 2011; 47(3): 99-110.

2010

Zarrinkalam R, Russo RN, Gibson CS, van Essen PB, Peek AK, Haan EA. Cerebral palsy or not cerebral palsy? A review of cerebral palsy diagnoses in a cerebral palsy Register. *Pediatr Neurol* 2010; 42(3): 177-180.

2009

McMichael GL, Gibson CS, O'Callaghan ME, Goldwater PN, Dekker GA, Haan EA, MacLennan AH. DNA from buccal swabs suitable for high-throughput SNP multiplex analysis. *Journal of Biomolecular Techniques* 2009; 20(5): 232-235.

Russo RN, Atkins R, Haan E, Crotty M. Upper limb orthoses and assistive technology utilization in children with hemiplegic cerebral palsy recruited from a population register. *Dev Neurorehabil* 2009; 12(2): 92-99.

Djukic M, Gibson CS, MacLennan AH, Goldwater PN, Haan EA, McMichael GL, Priest K, Dekker GA, Hague, WM, Chan A, Rudzki Z, van Essen PB, Khong TY, Morton MR, Ranieri E, Scott H, Tapp H, Casey G. Genetic susceptibility to viral exposure may increase the risk of cerebral palsy. *Australian and New Zealand Journal of Obstetrics and Gynaecology* 2009; 49: 247-253.

Rice J, Russo R, Halbert J, van Essen P, Haan E. Motor function in five-year-old children with cerebral palsy in the South Australian population. *Dev Med Child Neurol* 2009; 57(7): 551-556.

O'Callaghan ME, MacLennan AH, Haan EA, Dekker GA for the South Australian Cerebral Palsy Research Group. The genomic basis of cerebral palsy: A HuGE systematic literature review. *Human Genetics* 2009; 126:149-172.

2008

McMichael GL, Gibson CS, Goldwater PN, Haan EA, Priest K, Dekker GA, MacLennan AH. Association between Apolipoprotein E genotype and cerebral palsy is not confirmed in a Caucasian population. *Human Genetics* 2008; 124: 411-416.

Gibson CS, MacLennan AH, Goldwater PN, Dekker GA. The antenatal causes of cerebral palsy – genetic and viral associations. *Fetal and Maternal Medicine Review* 2008; 19: 181-201.

Gibson CS, MacLennan AH, Dekker GA, Goldwater PN, Sullivan TR, Munroe DJ, Tsang S, Stewart C, Nelson KB. Candidate genes and cerebral palsy: population-based study. *Pediatrics* 2008; 122: 1079-1085.

Gibson CS, MacLennan AH, Goldwater PN, Haan EA, Priest K, Dekker GA. Mannose-binding lectin haplotypes may be associated with cerebral palsy only after perinatal viral exposure. *Am J Obstet Gynecol* 2008; 198: 509 e1-e8.

Gibson CS, Goldwater PN, MacLennan AH, Haan EA, Priest K, Dekker GA. Fetal exposure to herpesviruses may be associated with pregnancy-induced hypertensive disorders and preterm birth in a Caucasian population. *BJOG*, 2008; 115: 492-500.

Russo RN, Goodwin EJ, Miller MD, Haan EA, Connell TM, Crotty M. Self-esteem, self-concept, and quality of life in children with hemiplegic cerebral palsy. *J Pediatr* 2008; 153(4): 473-477.

Russo, RN, Miller MD, Haan E, Cameron ID, Crotty M. Pain characteristics and their association with quality of life and self-concept in children with hemiplegic cerebral palsy identified from a population register. *Clin J Pain* 2008; 24(4): 335-342.

2007

Gibson CS, MacLennan AH, Dekker GA, Goldwater PN, Dambrosia JM, Munroe DJ, Tsang S, Stewart C, Nelson KB. Genetic polymorphisms and spontaneous preterm birth. *Obstet Gynecol*, 2007; 109 (2 pt 1): 384-391.

Russo RN, Crotty M, Miller MD, Murchland S, Flett P, Haan E. Upper-limb botulinum toxin A injection and occupational therapy in children with hemiplegic cerebral palsy identified from a population register: a single-blind, randomized, controlled trial. *Pediatrics* 2007; 119(5): e1149-e1158.

2006

Strijbis EMM, Oudman I, van Essen P, MacLennan AH. Cerebral palsy and the application of the international criteria for acute intrapartum hypoxia. *Obstet Gynecol* 2006; 107: 1357.

Gibson CS, MacLennan AH, Janssen NG, Kist WJ, Hague WM, Goldwater PN, Dekker GA. Associations between fetal inherited thrombophilia and adverse pregnancy outcomes. *Am J Obstet Gynecol* 2006; 194: 947 e1-e10.

Gibson CS, MacLennan AH, Goldwater PN, Haan EA, Priest K, Dekker GA. The association between inherited cytokine polymorphisms and cerebral palsy. *Am J Obstet Gynecol* 2006; 194: 674 e1-e11.

Gibson CS, MacLennan AH, Goldwater PN, Haan EA, Priest K, Dekker GA. Neurotropic viruses and cerebral palsy: population based case-control study. *BMJ* 2006; 332: 76-80.

2005

Gibson CS, MacLennan AH, Hague WM, Haan EA, Priest K, Chan A, Dekker GA. Associations between inherited thrombophilias, gestational age, and cerebral palsy. *Am J Obstet Gynecol* 2005; 193: 1437 e1-e12.

Gibson CS, MacLennan AH, Rudzki Z, Hague WM, Haan EA, Sharpe P, Priest K, Chan A, Dekker GA. The prevalence of inherited thrombophilias in a Caucasian Australian population. *Pathology* 2005; 37: 160-163.

2003

Gibson CS, MacLennan AH, Goldwater PN, Dekker GA. Antenatal causes of cerebral palsy: associations between inherited thrombophilias, viral and bacterial infection, and inherited susceptibility to infection. *Obstet Gynecol Surv* 2003; 58: 209-220.

2002

Scher AI, Petterson B, Blair E, Ellenberg JH, Grether JK, Haan EA, Reddihough D, Yeargin-Allsopp M, Nelson KB. The risk of mortality on cerebral palsy in twins: a collaborative population-based study. *Pediatr Res* 2002; 52: 671-681.

Presentations

2012

ME O'Callaghan for the South Australian Cerebral Palsy Research Group. Genetic and Clinical Associations with Cerebral Palsy. Invited Presentation, Department of Neonatology, KK Hospital, Singapore 17th October 2012.

ME O'Callaghan, AH MacLennan, CS Gibson, GL McMichael, EA Haan, JL Broadbent, PA Baghurst, PN Goldwater, GA Dekker for the South Australian Cerebral Palsy Research Group. Genetic and Clinical Contributions to Cerebral Palsy: A Multivariable Case-Control Analysis. 4th International Conference of Cerebral Palsy 2012, October 10-14th, 2012 – Pisa, Italy.

ME O'Callaghan for the South Australian Cerebral Palsy Research Group. Epidemiological and Genetic Associations with Cerebral Palsy. Invited Presentation, Alastair MacLennan Scientific Symposium, Adelaide, 2nd March 2012.

CS Gibson for the South Australian Cerebral Palsy Research Group. Beginning to understand the causes of cerebral palsy. Invited Presentation, Alastair MacLennan Scientific Symposium, Adelaide 2nd March 2012.

2011

ME O'Callaghan, AH MacLennan, EA Haan, GA Dekker for the South Australian Cerebral Palsy Research Group. Cerebral Palsy – Case study of a complex data set. Invited presentation, QMB 2011 (Bioinformatics Satellite). September 1-2, Queenstown, New Zealand.

ME O'Callaghan, AH MacLennan, CS Gibson, GL McMichael, EA Haan, JL Broadbent, K Priest, PN Goldwater, JN Painter, GW Montgomery, PA Baghurst, GA Dekker for the Australian Collaborative Cerebral Palsy Research Group. Epidemiological and Genetic Associations with Cerebral Palsy – Studies in a Large Australian Cohort. Australian Society for Medical Research Conference, SA Branch, Adelaide Australia, 2011 (Ross Wishart Award Finalist oral presentation).

ME O'Callaghan, AH MacLennan, CS Gibson, GL McMichael, EA Haan, JL Broadbent, K Priest, PN Goldwater, JN Painter, GW Montgomery, PA Baghurst, GA Dekker for the Australian Collaborative Cerebral Palsy Research Group. The Australian Cerebral Palsy Research Study – Epidemiological and Genetic Associations with Cerebral Palsy. Perinatal Medicine 2011 Conference, Harrogate UK (Published abstract in Archives of Paediatric and Child Disease).

2010

J Rice, RN Russo, R Zarrinkalam, P van Essen, PM Chern. Motor function is not stable between 5 and 10 years of age in children with cerebral palsy. *Developmental Medicine and Child Neurology* 2010; 52 (Sup 5):19. (Published abstract, American Academy of Cerebral Palsy and Developmental Medicine 64th Annual Meeting, Washington DC, USA 2010 oral presentation).

E Blair, S McIntyre, H Smithers-Sheedy, S Reid, CS Gibson, P van Essen, M Delacy, R Kippen, I Novak, J Bunyard. Findings from the inaugural Australian Cerebral Palsy Register (ACPR) Report. *Developmental Medicine and Child Neurology* 2010; 52 (Sup 5):3. (Published abstract, American Academy of Cerebral Palsy and Developmental Medicine 64th Annual Meeting, Washington DC, USA 2010 oral presentation).

GL McMichael, CS Gibson, PN Goldwater, EA Haan, K Priest, ME O'Callaghan, AH MacLennan. Genetic and environmental risk factors that contribute to cerebral palsy. *Developmental Medicine and Child Neurology* 2010; 52(Sup 2):6. (Published abstract of award winning paper keynote session Australasian Academy of Cerebral Palsy and Developmental Medicine 5th Biennial Conference, New Zealand 2010 oral presentation).

E Blair, N Badawi, J Bunyard, JD Grood, M Delacy, K Edwards, C Ewens, P Flett, CS Gibson, N Gibson, E Haan, C Ingham, R Kippen, A Lanigan, C Louca, S Love, S McIntyre, I Novak, D Reddihough, S Reid, H Scott, H Smithers-Sheedy, P van Essen, A Venn, L Watson. A profile of cerebral palsy in Australia. *Developmental Medicine and Child Neurology* 2010; 52 (Sup 2):37. (Published abstract, Australasian Academy of Cerebral Palsy and Developmental Medicine 5th Biennial Conference, New Zealand 2010 oral presentation).

2009

GL McMichael, **CS Gibson**, AH MacLennan, PN Goldwater, EA Haan, K Priest, GA Dekker, Apolipoprotein E genotype is not associated with cerebral palsy. *Developmental Medicine and Child Neurology* 2009; 51 (Sup 2): 16. (Published abstract of the 3rd International Cerebral Palsy Conference, Sydney Australia, oral presentation).

R Zarrinkalam, R Russo, CS Gibson, P van Essen, A Peek, EA Haan. Inaccuracy rate of the diagnosis of cerebral palsy in South Australian Cerebral Palsy Register. *International Cerebral Palsy Conference, Sydney, Australia 2009* (oral presentation).

P Flett, P van Essen, CS Gibson, R Russo. Clinical examinations at five years of age provide a "gold standard" for cerebral palsy registers. *International Cerebral Palsy Conference, Sydney, Australia 2009* (oral presentation).

ME O'Callaghan, CS Gibson, AH MacLennan, PN Goldwater, EA Haan, GL McMichael, B Paine, J Broadbent, K Priest, GA Dekker for The South Australian Cerebral Palsy Research Group. Australian Collaborative Study of Genomic and Environmental Factors Associated with Cerebral Palsy. *International Cerebral Palsy Conference, Sydney, Australia 2009* (poster presentation)

R Russo, R Atkins, EA Haan, M Crotty. Use of upper limb orthoses, adaptive equipment and therapy in a community based sample of children with hemiplegic cerebral palsy. *International Cerebral Palsy Conference, Sydney, Australia 2009* (oral presentation).

2008

CS Gibson, AH MacLennan, PN Goldwater, EA Haan, K Priest, GA Dekker, Mannose binding lectin haplotypes are associated with cerebral palsy. Australian Society for Medical Research Conference, SA Branch, Adelaide Australia, 2008 (oral presentation).

M Djukic, **CS Gibson**, GL McMichael, AH MacLennan, PN Goldwater, EA Haan, K Priest, GA Dekker, Is there a genomic basis to cerebral palsy? Seeking candidate genes. Australian Society for Medical Research Conference, SA Branch, Adelaide Australia, 2008 (oral presentation).

GL McMichael, **CS Gibson**, AH MacLennan, PN Goldwater, EA Haan, K Priest, GA Dekker, Stored cord serum: is it an additional resource for research into fetal viral exposure? Australian Society for Medical Research Conference, SA Branch, Adelaide Australia, 2008 (poster presentation).

M Djukic, **CS Gibson**, GL McMichael, AH MacLennan, PN Goldwater, EA Haan, K Priest, GA Dekker, Is there a genomic basis to cerebral palsy? Seeking candidate genes. Journal of Paediatrics and Child Health 2008; 44 (Sup 1): A53. (Published abstract of the Perinatal Society of Australia and New Zealand 12th Annual Congress, Gold Coast, Australia, (oral presentation).

GL McMichael, **CS Gibson**, AH MacLennan, PN Goldwater, EA Haan, K Priest, GA Dekker, Stored cord serum: is it an additional resource for research into fetal viral exposure? Journal of Paediatrics and Child Health 2008; 44 (Sup 1): A101. (Published abstract of the Perinatal Society of Australia and New Zealand 12th Annual Congress, Gold Coast, Australia, (poster presentation).

CS Gibson, AH MacLennan, PN Goldwater, EA Haan, K Priest, GA Dekker, Mannose binding lectin haplotypes are associated with cerebral palsy. American Journal of Obstetrics and Gynecology 2007; 197 (Issue 6, Suppl Dec 2007): S14. (Published abstract of the Society for Maternal-Fetal Medicine 2008 28th Annual Meeting: The Pregnancy Meeting, Dallas, USA, 2008 (oral presentation).

RN Russo, M Miller, EA Haan, ID Cameron, M Crotty. Pain characteristics and their association with quality of life and self-concept in children with hemiplegic cerebral palsy. (Published abstract, Australasian Academy of Cerebral Palsy and Developmental Medicine 4th Biennial Conference, Brisbane, Australia 2008 oral presentation).

2007

CS Gibson, AH MacLennan, PN Goldwater, EA Haan, K Priest, GA Dekker, Mannose binding lectin haplotypes are associated with cerebral palsy. Journal of Paediatrics and Child Health 2007; 43 (Sup 1): A59. (Published abstract of the Perinatal Society of Australia and New Zealand 11th Annual Congress Perinatal Society of Australia and New Zealand Conference, Melbourne, Australia, 2007 (oral presentation)

RN Russo, E Goodwin, M Miller, EA Haan, M Crotty. Quality of life and self-concept in children with hemiplegic cerebral palsy compared with age- and sex-matched peers: a population-based study. (Published abstract, American Academy of Cerebral Palsy and Developmental Medicine 61st Annual Meeting, Vancouver, Canada, USA 2007 poster presentation).

2006

CS Gibson, AH MacLennan, PN Goldwater, GA Dekker, Antenatal causes of cerebral palsy: investigating associations between inherited thrombophilia, cytokine polymorphisms and viral infections. Healthy Development Adelaide Early Career Research Symposium, Adelaide, Australia 2006 (oral presentation).

CS Gibson, AH MacLennan, PN Goldwater, K Priest, GA Dekker, Cytokine polymorphisms are associated with adverse pregnancy outcomes. Perinatal Society of Australia and New Zealand Conference, Perth, Australia, 2006 (oral presentation). Winner of the 2006 PSANZ New Investigator Award for an excellent presentation at the PSANZ 2006 National Congress.

CS Gibson, AH MacLennan, PN Goldwater, EA Haan, K Priest, GA Dekker, The role of fetal viral infection in the development of adverse pregnancy outcomes. American Journal of Obstetrics and Gynecology 2005; 193 (Issue 6, Suppl Dec 2005): S188. (Published abstract of the Society for Maternal-Fetal Medicine 2006 26th Annual Meeting: The Pregnancy Meeting, Miami, USA, 2006 (poster presentation).

CS Gibson, NG Janssen, WJ Kist, AH MacLennan, WM Hague, EA Haan, PN Goldwater, K Priest, GA Dekker, The role of fetal inherited thrombophilia in the development of adverse pregnancy outcomes. American Journal of Obstetrics and Gynecology 2005; 193 (Issue 6, Suppl Dec 2005): S14. (Published abstract of the Society for Maternal-Fetal Medicine 2006 26th Annual Meeting: The Pregnancy Meeting, Miami, USA, 2006 (concurrent oral presentation).

CS Gibson, AH MacLennan, PN Goldwater, EA Haan, K Priest, GA Dekker, The association between inherited cytokine polymorphisms and cerebral palsy. American Journal of Obstetrics and Gynecology 2005; 193 (Issue 6, Suppl Dec 2005): S2. (Published abstract of the Society for Maternal-Fetal Medicine 2006 26th Annual Meeting: The Pregnancy Meeting, Miami, USA, 2006 (plenary oral presentation).

2005

CS Gibson, AH MacLennan, PN Goldwater, E Haan, K Priest, GA Dekker, Human herpesviruses increase the risk of developing cerebral palsy. Perinatal Society of Australia and New Zealand Conference, Adelaide, Australia, 2005 (oral presentation). Winner of the 2005 PSANZ/Perinatal Research Society Award for an outstanding presentation at the PSANZ 2005 National Congress.

2004

CS Gibson, AH MacLennan, WM Hague, Z Rudzki, P Sharpe, A Chan, GA Dekker, MTHFR C677T and Factor V Leiden Thrombophilic Polymorphisms are risk factors for Cerebral Palsy. Australian Society for Medical Research Conference, SA Branch, Adelaide Australia 2004 (oral presentation).

CS Gibson, AH MacLennan, WM Hague, Z Rudzki, P Sharpe, A Chan, GA Dekker, Fetal Thrombophilic Polymorphisms are not a risk factor for Cerebral Palsy. Perinatal Society of Australia and New Zealand Conference, Sydney, Australia, 2004 (oral presentation).

RN Russo, S Murchland, M Sandelance, P Flett, P Brook. Functional outcomes in children injected with botulinum toxin. Improving the upper limb to enhance participation level function in children with spasticity and dystonia. Australasian Academy of Cerebral Palsy and Developmental Medicine 2nd Biennial Conference, Melbourne, Australia 2004 (poster presentation).

CS Gibson, AH MacLennan, WM Hague, Z Rudzki, P Sharpe, A Chan, GA Dekker, Fetal Thrombophilic Polymorphisms are not a risk factor for Cerebral Palsy. American Journal of Obstetrics and Gynecology 2003; 189 (Issue 6, Suppl Dec 2003): S75. (Published abstract of the Society for Maternal-Fetal Medicine 2004 24th Annual Meeting: The Pregnancy Meeting, New Orleans, USA, 2004 (oral presentation).

2003

CS Gibson, AH MacLennan, WM Hague, Z Rudzki, P Sharpe, A Chan, GA Dekker, Fetal Thrombophilic Polymorphisms are not a risk factor for Cerebral Palsy. Medicine and Pregnancy Conference, Fremantle, Western Australia, p32 (2003) (oral presentation)