

Andrew Wakefield related research

Appendix

1.

Support for the discovery of gastrointestinal disease in autism:

The following is provided by way of illustrating the science that supports the original discovery of intestinal disease in children with autism, first reported in the Lancet Paper.

*Key Replication studies at the Royal Free Hospital***

Case series showing bowel disease in autism by independent groups##

Invited articles##*

1. Wakefield AJ., Puleston J. Montgomery SM., Anthony A., O'Leary J.J., Murch SH Enterocolonic encephalopathy, autism and opioid receptor ligands. *Alimentary Pharmacology & Therapeutics*. 2002;16:663-674

2. **Torrente F., Machado N., Perez-Machado M., Furlano R., Thomson M., Davies S., Wakefield AJ, Walker-Smith JA, Murch SH. Enteropathy with T cell infiltration and epithelial IgG deposition in autism. *Molecular Psychiatry*. 2002;7:375-382

3. **Torrente F, Anthony A. Focal-enhanced gastritis in regressive autism with features distinct from Crohn's disease and helicobacter Pylori gastritis. *Am J Gastroenterol* 2004;99:598-605.

4. *#Wakefield AJ. The Gut-Brain Axis in Childhood developmental Disorders. *Journal of Pediatric Gastroenterology and Nutrition*. 2002;34:S14-S17

5. *#Wakefield AJ. Enterocolitis, Autism and Measles Virus. *Consensus in Child Neurology*. 2002;6:74-77

6. **Ashwood P, Anthony A, Pellicer AA, Torrente F, Wakefield AJ. Intestinal lymphocyte populations in children with regressive autism: Evidence for extensive mucosal immunopathology. *Journal of Clinical Immunology*, 2003;23:504-517

7. **Ashwood P, Anthony A, Torrente F, Wakefield AJ., Spontaneous mucosal lymphocyte cytokine profiles in children with regressive autism and gastrointestinal symptoms: Mucosal immune activation and reduced counter regulatory interleukin-10. *Journal of Clinical Immunology*. 2004;24:664-673

8. **Ashwood P, Wakefield AJ. Immune activation of peripheral blood and mucosal CD3+ lymphocyte cytokine profiles in children with autism and gastrointestinal symptoms. *J Neuroimmunol*. 2006;173:126-34

9. **Anthony A, Ashwood P., Wakefield AJ. The significance of ileo-colonic lymphoid nodular hyperplasia in children with autistic spectrum disorder. *European Journal of Gastroenterology and Hepatology* 2005;17:827-36
10. **Furlano RI, et al. Colonic CD8 and gamma delta T-cell infiltration with epithelial damage in children with autism. *J Pediatr.* 2001;138:366-72.
11. **Wakefield AJ, Ashwood P, Limb K, Anthony A. The significance of ileocolonic lymphoid nodular hyperplasia in children with autistic spectrum disorder. *Eur J Gastroenterol. Hepatol.* 2005;17:827-36.
12. *#Wakefield AJ. Enterocolitis, autism and measles virus. *Mol Psychiatry.* 2002;7 Suppl 2:S44-6.
13. *#Wakefield AJ, et al. Autism, viral infection and measles-mumps-rubella vaccination. *Israeli Med Assoc J.* 1999 Nov;1(3):183-7.
14. Wakefield AJ. MMR vaccination and autism. *Lancet.* 1999;354:949-50.
15. Afzal N, et al. Constipation with acquired megarectum in children with autism. *Pediatrics.* 2003;112:939-42.
16. ##Balzola F, Barbon V, Repici A, Rizzetto M. Panenteric IBD-like disease in a patient with regressive autism shown for the first time by the wireless capsule enteroscopy: another piece in the jigsaw of this gut-brain syndrome? *Am J Gastro.* 2005; 979-981. (Italian confirmation of intestinal disease)
17. ##Balzola F, et al. Autistic enterocolitis: confirmation of a new inflammatory bowel disease in an Italian cohort of patients. *Gastroenterology.*2005;128:Suppl.2;A-303. . (Italian confirmation of intestinal disease)
18. ##Balzola F, et al. Beneficial behavioural effects of IBD therapy and gluten/casein-free diet in an Italian cohort of patients with autistic enterocolitis followed over one year. *Gastroenterology*, 2006;30; suppl. 2 S1364 A-21. . (Italian confirmation of intestinal disease)
19. Buie T, et al. Evaluation, diagnosis, and treatment of gastrointestinal disorders in individuals with ASDs: a consensus report. *Pediatrics.* 2010;125 Suppl 1:S1-18.
20. Buie T, Fuchs GJ 3rd, Furuta GT, Kooros K, Levy J, Lewis JD, Wershil BK, Winter H. Recommendations for evaluation and treatment of common gastrointestinal problems in children with ASDs. *Pediatrics.* 2010;125 Suppl 1:S19-29.
21. Cade R, et al. Autism and schizophrenia: intestinal disorders. *Nutritional Neuroscience* 3: 57-72, 2000.
22. Cade JR, et al. Autism and schizophrenia linked to malfunctioning enzyme for milk protein digestion. *Autism*, Mar 1999.
23. ##Chen B, Girgis S, El-Matary W. Childhood autism and eosinophilic colitis.

Digestion. 2010;81:127-9. (Canadian confirmation of intestinal disease)

24. DeFelice ML, et al. *Intestinal cytokines in children with pervasive developmental disorders. Am J Gastroenterol 2003;98:1777-82:*

25. D'Eufemia P, et al. *Abnormal intestinal permeability in children with autism. Acta Paediatr. 1996;85:1076-9.*

26. Galiatsatos P, et al. *Autistic enterocolitis: fact or fiction? Can J Gastroenterol 2009;23:95-98. (Canadian confirmation of intestinal disease)*

27. Genuis SJ, Bouchard TP. *Celiac Disease Presenting as Autism. J Child Neurol. 2009*

28. Gonzalez L, Lopez K, Navarro D, Negron L, Flores L, Rodriguez R, Martinez M, Sabra A. *Endoscopic and Histological Characteristics of the digestive mucosa in autistic children with gastrointestinal symptoms. Arch Venez Pueric Pediatr 69;1:19-25 (Venezuelan confirmation of intestinal disease)*

29. Horvath K et al. *Gastrointestinal abnormalities in children with autistic disorder. J Pediatr. 1999;135:559-63. (US confirmation of intestinal disease)*

30. Horvath K, Perman JA. *Autism and gastrointestinal symptoms. Curr Gastroenterol Rep. 2002;4:251-8.*

31. Horvath K, Perman JA. *Autistic disorder and gastrointestinal disease. Curr Opin Pediatr. 2002;14:583-7.*

32. Kawashima H et al. *Detection and sequencing of measles virus from peripheral mononuclear cells from patients with inflammatory bowel disease and autism. Dig Dis Sci. 2000;45:723-9.*

33. Kushak R, Winter H, Farber N, Buie T. *Gastrointestinal symptoms and intestinal disaccharidase activities in children with autism. Abstract of presentation to the North American Society of Pediatric Gastroenterology, Hepatology, and Nutrition, Annual Meeting, October 20-22, 2005, Salt Lake City, Utah.*

34. D'Eufemia P, Celli M, Finnochiario R, et al. *Abnormal intestinal permeability in children with autism. Acta Paediatrica. 1996;85:1076-1079.*

35. Horvath K, Collins RM, Rabsztyrn R et al. *Secretin improves intestinal permeability in autistic children. J. Ped. Gastroenterol. Nutr. 2000;S31:31*

36. De Magistris L, Familiari V, Pascotto A, et al. *Alterations of the intestinal barrier in patients with autism spectrum disorders and in their first-degree relatives. J Pediatr Gastroenterol Nutr. 2010;51:418-24.*

37. Knivsberg AM, Reichelt KL, Hoiem T, Nodland M. *A randomised, controlled study of dietary intervention in autistic syndromes. Nutr Neurosci. 2002;5:251-61.*

38. Kringsman A, Boris M, Goldblatt A et al. *Clinical Presentation and Histologic*

Findings at Ileocolonoscopy in Children with Autistic Spectrum Disorder and Chronic Gastrointestinal Symptoms. Autism Insights 2010;2:1-11 (US confirmation of intestinal disease)

39. McGinnis WR. Mercury and autistic gut disease. *Environ Health Perspect.* 2001;109:A303-4.

40. Melmed RD, Schneider CK, Fabes RA. Metabolic markers and gastrointestinal symptoms in children with autism and related disorders. *J Pediatr Gastroenterol Nutr* 2000;31:S31-32.

41. Nikolov, RN, et al, Gastrointestinal symptoms in a sample of children with pervasive developmental disorders. *J Autism Dev Disord.* 2009;39:405-13.

42. Parracho HM, Bingham MO, Gibson GR, McCartney AL. Differences between the gut microflora of children with autistic spectrum disorders and that of healthy children. *J Med Microbiol.* 2005;54:987-91.

43. Quigley EM, Hurley D. Autism and the gastrointestinal tract. *Am J Gastroenterol.* 2000;95:2154-6.

44. Reichelt KL, Knivsberg AM. Can the pathophysiology of autism be explained by the nature of the discovered urine peptides? *Nutr Neurosci.* 2003;6:19-28.

45. Reichelt KL, et al. Probable Etiology and Possible Treatment of Childhood Autism. *Brain Dysfuntion* 1991;4:308-319.

46. Reichelt KL, Knivsberg AM. The possibility and probability of a gut-to-brain connection in autism. *Ann Clin Psychiatry.* 2009;21:205-11.

47. Sandler RH, et al. Short-term benefit from oral vancomycin treatment of regressive onset autism. *J Child Neurol.* 2000;15:429.

48. Schneider CK, Melmed RD, Barstow LE, Enriquez FJ, Ranger-Moore J, Ostrem JA. Oral Human Immunoglobulin for Children with Autism and Gastrointestinal Dysfunction: A Prospective, Open-Label Study. *J Autism Dev Disord.* 2006 Jul 15.

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51. Valicenti-McDermott M, et al. Frequency of gastrointestinal symptoms in children with autistic spectrum disorders and association with family history of autoimmune disease. *J Dev Behav Pediatr.* 2006;27:S128-36.

52. Valicenti-McDermott MD, McVicar K, Cohen HJ, Wershil BK, Shinnar S. Gastrointestinal symptoms in children with an autism spectrum disorder and language regression. *Pediatr Neurol.* 2008;39:392-8.

53. Welch MG, Welch-Horan TB, Anwar M, Anwar N, Ludwig RJ, Ruggiero DA. Brain effects of chronic IBD in areas abnormal in autism and treatment by single neuropeptides secretin and oxytocin. *J Mol Neurosci* 2005;25:259-74.
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59. Jyonouchi H. Food Allergy and Autism Spectrum Disorders: Is There a Link? *Curr Allergy Asthma Rep.* 2009;9:194-201
60. Jass, JR. The intestinal lesion of autistic spectrum disorder. *European Journal of Gastroenterology & Hepatology:* 2005;17:821-822
61. James B Adams et al Gastrointestinal flora and gastrointestinal status in children with autism -- comparisons to typical children and correlation with autism severity *BMC Gastroenterology* 2011;11:22
62. Williams BL et al. Impaired Carbohydrate Digestion and Transport and Mucosal Dysbiosis in the Intestines of Children with Autism and Gastrointestinal Disturbances *PLoS One* 2011;6:e24585
63. Walker S, Fortunado J, Gonzalez L, Krigsman A. Identification of Unique Gene Expression Profile in Children with Regressive Autism Spectrum Disorder (ASD) and Ileocolitis. *PLoS ONE* 8(3): e58058. doi:10.1371/journal.pone.0058058

New Published Study Verifies Andrew Wakefield's Research on Autism – Again
Here is a list of 28 studies from around the world that support Dr. Wakefield's research:

1. *The Journal of Pediatrics* November 1999; 135(5):559-63
2. *The Journal of Pediatrics* 2000; 138(3): 366-372
3. *Journal of Clinical Immunology* November 2003; 23(6): 504-517
4. *Journal of Neuroimmunology* 2005
5. *Brain, Behavior and Immunity* 1993; 7: 97-103
6. *Pediatric Neurology* 2003; 28(4): 1-3
7. *Neuropsychobiology* 2005; 51:77-85

8. The Journal of Pediatrics May 2005;146(5):605-10
9. Autism Insights 2009; 1: 1-11
10. Canadian Journal of Gastroenterology February 2009; 23(2): 95-98
11. Annals of Clinical Psychiatry 2009;21(3): 148-161
12. Journal of Child Neurology June 29, 2009; 000:1-6
13. Journal of Autism and Developmental Disorders March 2009;39(3):405-13
14. Medical Hypotheses August 1998;51:133-144.
15. Journal of Child Neurology July 2000; ;15(7):429-35
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17. Journal of Autism and Childhood Schizophrenia January-March 1971;1:48-62
18. Journal of Pediatrics March 2001;138:366-372.
19. Molecular Psychiatry 2002;7:375-382.
20. American Journal of Gastroenterology April 2004;598-605.
21. Journal of Clinical Immunology November 2003;23:504-517.
22. Neuroimmunology April 2006;173(1-2):126-34.
23. Prog. Neuropsychopharmacol Biol. Psychiatry December 30 2006;30:1472-1477.
24. Clinical Infectious Diseases September 1 2002;35(Suppl 1):S6-S16
25. Applied and Environmental Microbiology, 2004;70(11):6459-6465
26. Journal of Medical Microbiology October 2005;54:987-991
27. Archivos venezolanos de puericultura y pediatría 2006; Vol 69 (1): 19-25.
28. Gastroenterology. 2005:128 (Suppl 2);Abstract-303