Abstract


Plasma amino acid levels in children with autism and their families.

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OBJECTIVE AND METHODS: Plasma amino acid levels were measured in autistic and Asperger syndrome patients, their siblings, and parents. The results were compared with values from age-matched controls.

RESULTS: Patients with autism or Asperger syndrome and their siblings and parents all had raised glutamic acid, phenylalanine, asparagine, tyrosine, alanine, and lysine (p < .05) than controls, with reduced plasma glutamine. Other amino acids were at normal levels.

CONCLUSION: These results show that children with autistic spectrum disorders come from a family background of dysregulated amino acid metabolism and provide further evidence for an underlying biochemical basis for the condition.

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