Annals of General Hospital Psychiatry

Poster presentation

Relationship between individual differences in information processing speed and neuropsychological profile in preschool children.

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from International Society on Brain and Behaviour: 1st International Congress on Brain and Behaviour
Hyatt Regency Hotel, Thessaloniki, Greece, 20–23 November, 2003

Published: 23 December 2003 Received: 1 November 2003

Annals of General Hospital Psychiatry 2003, **2**(Suppl 1):S132

This article is available from: http://www.general-hospital-psychiatry.com/content/2/S1/S132

Background

The aim of this study was to examine a possible relation between the speed of information processing and individual differences in neuropsychological profile in preschool children.

Material and Methods

The speed of information processing was measured in 34 children at 6–7 years with the computerized technique, developed by the authors. The individual differences in neuropsychological profile were investigated with the child neuropsychological technique, developed in Moscow State University. This technique allows to establish the preferred development of left or right-hemisphere function in children.

Results

Children with the preferred development of right-hemisphere and left-hemisphere function had the differences in level of performance of some sensorimotor reactions. In particularly the "right-hemisphere" children were more successful in performance of the differential reactions on stimulus, which differed only on orientation. At the same time the "left-hemisphere" children were more successful in performance of the differential reactions on stimulus, which differed only on color.

Discussion

We have not found out the distinctions between these groups concerning of simple reaction.