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This supports the specificity of their linguistic deficit, that is, the inability of the left hemisphere to selectively modulate theta activity during phonological processing. Results may indicate also a functional shift in the contralateral hemisphere of the altered phonological processes. In addition, the delayed pattern of theta activity found in dyslexic children shows how also the temporal dynamics of word processing are pathologically affected towards a functional delay.

Inverted EEG theta lateralization in dyslexic children during phonological processing. Spironelli C(1), Penolazzi B, Vio C, Angrilli A. Author information: (1)Department of General Psychology, University of Padova, Via Venezia 8, 35131 Padova, Italy.

Neuropsychologia 44 (2006) 2814–2821 Inverted EEG theta lateralization in dyslexic children during phonological processing C. Spironelli a , B. Penolazzi a , C. Vio b , A. Angrilli a,c,? a Department ...

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Abstract. The phonological deficit hypothesis of dyslexia has been investigated in the present research by analysing language-related lateralization of the EEG theta band in a sample of dyslexic children.

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N150 elicited by written words was measured both in dyslexic children before and after training and in a sample of matched normal readers during phonological, semantic and orthographic tasks. After training, dyslexic children increased their reading speed. Normal readers showed a typical left posterior N150, whereas in dyslexic children it was equally distributed across hemispheres before and ...

Thus, the observed increase in low frequency activity during eyes closed in children with dyslexia is a strong indicator of the presence of atypical network activity and, collectively, the aforementioned studies suggest that these theta abnormalities may represent a putative neurobiological marker, reflecting CNS disinhibition.

This study aimed to clarify the functional role of several EEG bands across age by analyzing language hemispheric lateralization in three linguistic tasks. Twenty-eight children, 22 young adults ...

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