PDD AND FUNCTIONAL LANGUAGE: SUPPORT OF LANGUAGE EVOLUTION USING EXPERIMENTAL SOFTWARE. CLINICAL CASE

THIS SOFTWARE IS INCLUDED IN THE WOCÉ™ PROGRAM

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Speech and language disfunctions in PDD

Language in subjects with PDD and Autism is still being studied and observed today. What type of receptive hearing pathology is present? None of the subjects with PDD and Autism present a sensorial/perceptive disorder, among which auditory disorders are common. In absence of specific auditory disorders, disorders in hearing perception include the elaboration of sound via the cortex. These disorders are manifested in many ways:

- Language stereotypes, loss and hyper sensitivity to sound, verbal-auditory agnosia, difficulty in processing information coming from multiple sensory canals, receptive/expressive language disorders
- The role of language in three-field communication system, behaviour regulator and thought order (Vigotsky).
- The complex communication disabilities, in absence of adequate intervention, interfere significantly with development, particularly in the cognitive/relational area.

Experimental software

On the basis of scientific data, experimental software was developed to respond to rehabilitative and re-educational needs regarding language in PDD and Autistic subjects.

The software is used in speech and cognitive therapy rehabilitation for receptive/expressive language through exercises specific to recognition, discrimination and output, with support of auditory and visual aids.

All visual and reproductive settings are modifiable.

The software is structured in modules to be utilized separately or contemporaneously for:
- Recognition and discrimination of sounds
- Sound and visual feedback at the emission of sounds or language
- Vocal synthesis that slows down sound during reading/writing

In clinical practice... The use of software in an Autism case study

Bibliography

- Perrotta e Rustici, 2006: verbalizes 45 words out of 56.