



Neurofibromatosis type 1 with tumor resection: Case report

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Abstract

Introduction: Neurofibromatosis type 1 has physical variability or clinical signs associated with the pathology; disease that focal gliomas can occur in the brainstem.

Objectives: To report the results of the evaluation of the peripheral and central auditory system before and after the acoustically controlled auditory training of a patient submitted to tumor resection.

Resumed Report: The patient with 11 years old with neurofibromatosis type 1, at nine years underwent surgical intervention in the brainstem. School difficulties that accentuated after surgery due to social isolation. The patient presented auditory thresholds within bilaterally normal patterns and adequate middle ear functioning. Auditory brainstem response revealed latency III and V increased and interpeak intervals increased bilaterally. The evaluation of central auditory processing revealed a change in the gnostic processes of auditory analysis and synthesis, in assigning meaning to the auditory information regarding the analysis of the phonemic system of language, analysis and synthesis of the supra-segmental aspects of speech, integration of auditory information with other information sensory and sounds in sequence. Therapeutic intervention was performed through acoustically controlled auditory training, with weekly sessions in an acoustic booth. After the reevaluation, it was verified the reduction of latencies of waves III and V bilaterally. The evaluation of central auditory processing revealed improvement in all auditory skills. These improvements were generalized for academic and social performance.

Conclusion: The child has central auditory processing disorder, which was minimized after acoustically controlled auditory training, showing intervention effectiveness both from a behavioral and electrophysiological assessment point of view.



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