



**TITLE:** Characterization of posturography results in adolescents with severe to  
**profound hearing loss**

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**ABSTRACT**

Context: Hearing loss in adolescents is accompanied by disorders unnoticed vestibular disorders that impact motor development and influence the learning. Early identification and knowledge about the vestibular neuromaturation yields alternatives to improve performance academic.

Objectives: to characterize the results of posturography in adolescents with severe to profound hearing loss.

Method: study quantitative, with a descriptive technique, looking for relationships between variables studied.

Population: 38 adolescents with sensorineural hearing loss severe to profound, in groups of 12 - 15 and 16 - 19 years.

Results: the Older adolescents presented less oscillatory movement. With developmental antecedents evidenced inferior performance in posturography and greater difficulties in quantitative thinking, language and communication.

Discussion: The neuromaturational antecedents are important for the development of balance and equilibrium. No direct relationship was found between the posturography with low academic performance, however, it was clinically useful providing sensory, motor and vestibular performance data for the intervention.

Conclusions: The results suggest an indirect effect on performance verbal scholar. Integration of sensorimotor, visual, vestibular systems

and cognitive, is key to the development of learning skills. The Maturation is an active process in the transition from adolescence to adulthood.

The relationship between vestibular deficit and developmental history, such as premature birth or age at onset of gait, merits identifying risk factors vestibular system risk in early childhood. The socio-affective environment, the family and coexistence with peers are important for performance academic.

**BIOGRAPHY**

Yadira Grimaldos, Speech Therapist from the National University of Colombia, Specialist in Audiology from the Iberoamerican University Corporation, with different publications at the vestibular level, member of GENO (otoneurologic study group).

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