

Perceptions Regarding Auditory System and Speech

Adrian Gracia*

Department of Speech, Language and Hearing Science, University of Connecticut, Storrs, Connecticut, USA

Phonetics and Audiology focuses on hearing dysfunction, balance dysfunction, impairment in hearing, causes of delayed language development and its management in children and adults. Further it also deals with Auditory reflex testing, Cortical evoked response audiometry, Caloric test, ENG chair test, posturography, dichotic listening, hearing implants.

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Spotlights of Current Issue : Cochlear Implants, Ear related disorders, Linguistics, Delayed language development

In previous volume 6, issue 1 various aspects were discussed by the authors from different parts of the world. In the research article Horacio E Cristiani described about Development of a Quick Speech-in-Noise Test in “Rioplátense” Spanish Based on Quick -SIN [1],

Speech-in-noise (SIN) testing provides a useful window into the status of a patient’s auditory system. It can be used for clinical diagnosis and measurement of functional capacity of the hearing system, providing clinicians with highly valuable information while requiring minimal clinical time. The results are presented as the smaller signal-to-noise ratio, indicating how loud the

sentences need to be turned up (above 65 dB(A) noise floor) in order for the patient to be able to correctly repeat 50% of sentence material. The higher the signal-to-noise ratio, the more difficulty the patient has with hearing.

In previous volume 6, issue 1, Samantha Prabhu, described about Effect of Visual Attention on Efferent Auditory System in Young Adults [2].

The auditory nervous system had both afferent and efferent auditory system. The afferent auditory system carries the acoustic impulses from cochlea to auditory cortex. Efferent system carries the efferent signals from auditory cortex. Efferent pathways can be found at every level of the afferent pathway and thus enable the brain to modify the processing of the ascending auditory information at various levels, regulating peripheral cochlear function and modulating signal processing at higher stages of the auditory pathway. The efferent auditory system can be divided into two systems. They are rostral efferent system and caudal efferent system. Rostral efferent consists of auditory cortex, medial geniculate body (MGB), and inferior colliculus and also loops connections between insula, superior colliculus and medial geniculate. Caudal efferent system includes the olivocochlear bundles which are divided in to two parts: lateral olivocochlear bundle (LOC) and medial olivocochlear bundle (MOC). Lateral olivocochlear fibers Originate from lateral superior olivary nucleus and terminates at the inner hair cells. Mostly it projects ipsilateral fibers.

REFERENCES

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Correspondence to: Adrian Gracia, Assistant Professor, Department of Speech, Language and Hearing Science, University of Connecticut, Storrs, Connecticut, USA, E-mail: adrian.garcia-sierra@uconn.edu

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