

Hearing Loss Due to Unilateral Nuclear Infarction

Otto J. Hernández-Fustes^{1*}, Renato Puppi Munhoz², Carlos Arteaga Rodriguez³

¹Complexo Hospital de Clínicas da Universidade Federal do Paraná, Serviço de Neurologia, Curitiba PR, Brazil

²Department of Medicine, Morton and Gloria Shulman Movement Disorders Centre, Toronto Western Hospital, University of Toronto, Toronto, ON, Canada

³Universidade Positivo, Curitiba, PR, Brazil

*Corresponding author: Otto J.H. Fustes, Rua General Carneiro 181, SAM 25, 80060-900, Curitiba/PR; E-mail: otto.fustes@hc.ufpr.br

Introduction

A 53-years-old male, ex-smoker, assessed as an outpatient due to acute hypoacusia and tinnitus. Examination was remarkable for hearing loss on the right, abnormal Weber and Rinne tests, and positive Romberg sign to the left. Audiometry evidenced profound right sensorineural hearing loss, carotid Doppler showed moderate right internal carotid artery stenosis, and brain magnetic resonance imaging confirmed signs of subacute brainstem lesions in the area of the right vestibulo-cochlear nucleus. (Figure 1).



Received date: November 26, 2019

Accepted date: December 4, 2019

Published date: December 5, 2019

Citation: Fustes, Otto J.H., et al. Hearing Loss Due to Unilateral Nuclear Infarction. (2019) *Int J Neurol Brain Dis* 6(2): 36

Copy Rights: © 2019 Fustes, Otto J.H. This is an Open access article distributed under the terms of Creative Commons Attribution 4.0 International License.

Hearing apparatus disorders are the main causes of hypoacusia, although ipsilateral ischemic lesions of the cochlear nuclei must be considered due to its vascular peculiarities^[1-3].

References

1. Kingsley, R. The Auditory System. In: Kingsley R. (ed). *Concise text of neuroscience*. 2nd ed. (2000) Baltimore: Lippincott Williams & Wilkins 393-431. [PubMed](#) | [CrossRef](#) | [Others](#)
2. Hwang, J.Y., Mun, S.K. Sudden unilateral sensorineural hearing loss caused by acute pontine infarction. (2011) *Eur Neurol* 65: 338-339. [PubMed](#) | [CrossRef](#) | [Others](#)
3. Lee, H. Recent advances in acute hearing loss due to posterior circulation ischemic stroke. (2014) *J Neurol Sci* 338: 23-29. [PubMed](#) | [CrossRef](#) | [Others](#)