Hyperbaric Oxygen Therapy for Sudden Hearing Loss after Failure of Intratympanic and Oral Corticosteroid Therapy

Erika Celis-Aguilar, MD (presenter); Alan Burgos-Paez, MD; Homero O. Mayoral-Flores, MD; Yancy M. Bernal-Espinoza, RN; Enrique G. López-Ramos, MD

Objectives: The use of HBOT in patients who fail steroid therapy did not demonstrate a beneficial hearing effect in ISSNHL patients. However, symptoms such as dizziness improved subjectively. More studies are needed to corroborate our results.

Images on the Way to the Cochlear Nucleus Complex for Auditory Brainstem Implantation in Children

Giacomo Colletti, MD (presenter); Marco Mandala, MD; Liliana Colletti; Vittorio Colletti, MD

Objectives: Identify and differentiate among the cranial nerves (CN) and vessels close to the foramen of Luschka (FL) and improve the understanding of the normal and abnormal microanatomy in children with cochlear nerve deficiency (CND) fitted with auditory brainstem implants (ABI).

Methods: From 2000 to 2013, 64 children ranging in age from 8 months to 16 years (2.92 ± 1.54) with CND and several degrees of cochlear abnormalities were video-recorded during retrosigmoid surgery for ABI fitting. Four independent experts retrospectively examined all the videos. CNs VI, VII, IX, X, XI and the vascular structures around the FL were identified either by surgical inspection and/or intraoperative neurophysiological monitoring.

Results: Cranial nerves VI, VII, VIII were absent respectively in 3, 8 and 64 children; CN VII had an aberrant course in the CPA in 18 children; bifurcated in 4 and trifurcated in 3; CNs IX, X and XI were observed in all children; a double CN