



COMISIÓN PARA LA DETECCIÓN
PRECOZ DE LA HIPOACUSIA

COMMISSION FOR THE EARLY DETECTION OF HEARING LOSS

With representatives from:
The Spanish Association of Paediatrics,
The Spanish Society of Otolaryngology
and FIAPAS

(codepeh@gmail.com)



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MINISTRY OF SOCIAL RIGHTS AND AGENDA 2030
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Available at <http://bibliotecafiapas.es>



Family Care and Support Network



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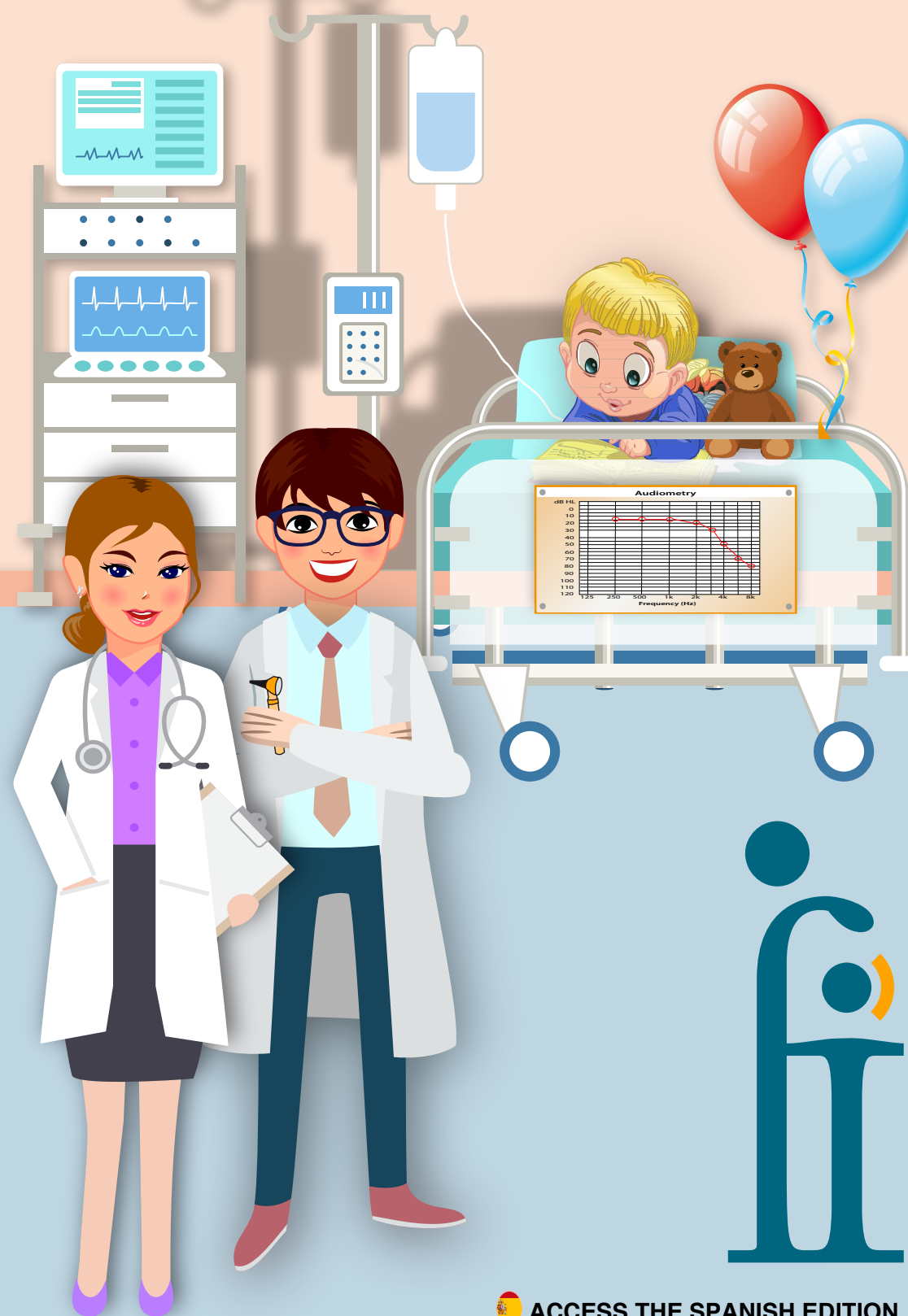
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PREVENTION AND EARLY DIAGNOSIS OF HEARING LOSS FROM OTOTOXIC DRUGS



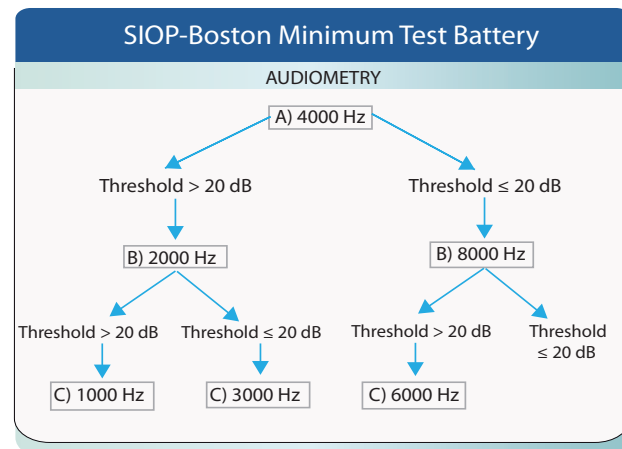
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The list provided presents the Federations and Confedrate Associations in FIAPAS as of 10 September 2020. (For the most up-to-date contact details: www.fiapas.es)



- Hearing loss caused by ototoxicity is a potential side effect of certain medicines that are effectively used to treat major diseases. Its early detection and adequate treatment prevent significant sequelae associated with ototoxicity, especially in children.
- Today, it is critical to perform a proper hearing evaluation at three time points: before starting treatment with the ototoxic drug, during its administration (platinum derivatives) and after completing the treatment.
- The purpose of this hearing monitoring is to detect hearing impairment early in order to adjust the ototoxic treatment, if possible, and to monitor patients in the long term, since hearing loss can occur even years after the administration of the ototoxic drug.

Hearing Test



SIOP-Boston Ototoxicity Grading	
Grade 0	≤ 20 dB HL at all frequencies
Grade 1	> 20 dB HL at 6 kHz or 8 kHz
Grade 2	> 20 dB HL at 4 kHz and above
Grade 3	> 20 dB HL at 2 kHz or 3 kHz and above
Grade 4	> 40 dB HL at 2 kHz and above

Genetic Factors

It should be noted that a small proportion of the paediatric population presents mitochondrial mutations, which are responsible for a special susceptibility to aminoglycoside-induced hearing loss.

Genetic factors associated with platinum derivative drug toxicity are under study.

Serological Diagnosis

Certain lines of research are aimed at discovering blood markers of cochlear damage that would anticipate the existence of lesions secondary to the use of ototoxic drugs. These include the determination of proteins unique to the inner ear and/or microRNA, which can help determine the diagnosis of the type of injury and tissue involved.

Otoprotection

A simple and useful preventive measure to avoid further injury from the drug would be to reduce the dose of the drug or to modify the dosing regimen. However, this is not always possible, and less harmful variants of commonly used drugs need to be researched.

Pharmacological otoprotection is rooted in the possibility of using drugs with potential to prevent the ototoxicity of several compounds.

The administration of otoprotectants may be systemic, transtympanic or inhaled.

The most studied otoprotectants base their effect on an antioxidant and/or anti-inflammatory action.

* The content of this brochure is purely informational. *Lex artis* must at all times align with the most up-to-date knowledge through the study of the scientific literature and be adapted to the context of each child.

PREVENTION AND EARLY DIAGNOSIS OF HEARING LOSS FROM OTOTOXIC DRUGS – 2020

Commission for the Early Detection of Hearing Loss - CODEPEH

