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PROFESSIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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GBZ 49-2014

Replacing GBZ 49-2007

Diagnosis of occupational noise-induced deafness

职业性噪声聋的诊断

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Issued on: October 13, 2014

Implemented on: March 01, 2015

**Issued by: National Health and Family Planning Commission of the
People's Republic of China**

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Foreword

This Standard is developed according to “Law of the People's Republic of China on Prevention and Treatment of Occupational Diseases”.

Clause 5 of this Standard is recommended, and the rest are mandatory.

This Standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This Standard replaces GBZ 49-2007 “Diagnostic criteria of occupational noise-induced deafness”. Compared with GBZ 49-2007, the main technical changes are as follows:

- CANCEL the observation object;
- INCLUDE the 4 000 Hz threshold audiometry IN the diagnostic grading indicators, for weighted calculation;
- LIST the binaural high-frequency (3 000 Hz, 4 000 Hz, 6 000 Hz) mean threshold audiometry of ≥ 40 dB AS a prerequisite for the diagnosis of occupational noise-induced deafness.

Responsible drafting organizations of this Standard: Shanghai Pulmonary Hospital Affiliated to Tongji University (Shanghai Occupational Disease Hospital), Shanghai Municipal Center for Disease Control and Prevention.

Participating drafting organizations of this Standard: Beijing Center for Disease Control and Prevention, Guangdong Province Hospital for Occupational Disease Prevention and Treatment, Jiangsu Provincial Center for Disease Control and Prevention, Zhejiang Province Hospital for Occupational Disease Prevention and Treatment, Xixiang Health Authority of Bao'an District, Shenzhen Province.

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The historical editions of the standard replaced by this Standard are as follows:

- GB 16152-1996;
- GBZ 49-2002;
- GBZ 49-2007.

Diagnosis of occupational noise-induced deafness

1 Scope

This Standard specifies the diagnostic principles, diagnostic grading and treatment principles of occupational noise-induced deafness.

This Standard applies to the diagnosis and treatment of hearing loss caused by long-term occupational exposure to noise.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the dated edition cited applies. For undated references, the latest edition of the referenced document (including all amendments) applies.

GBZ 2.2 Occupational exposure limits for hazardous agents in the workplace - Part 2: Physical agents

GB/T 4854.1 Acoustics - Reference zero for the calibration of audiometric equipment - Part 1: Reference equivalent threshold sound pressure levels for pure tones and supra-aural earphones

GB/T 7341.1 Electroacoustics - Audiological equipment - Part 1: Pure-tone audiometers

GB/T 7582 Acoustics - Statistical distribution of threshold audiometry as a function of age

GB/T 7583 Acoustics - Pure tone air conduction threshold audiometry - For hearing conservation purposes

GB/T 16180 Standard for identify work ability - Gradation of disability caused by work-related injuries and occupational diseases

GB/T 16403 Acoustics - Audiometric test methods - Basic pure tone air and bone conduction threshold audiometry

Annex A

(informative)

Instructions for using this Standard correctly

A.1 The clinical feature of the hearing loss caused by occupational exposure to noise is the early hearing loss to high frequencies, which gradually affects the speech frequency, leads to sensorineural deafness. "Noise work" in this Standard refers to the work where the noise level in the workplace exceeds the "occupational exposure limits for hazardous agents in the workplace", that is, 8 h equivalent sound level (A weighted) is ≥ 85 dB (see GBZ 2.2).

A.2 The hearing assessment of occupational noise-induced deafness is based on pure tone threshold audiometry test results. The threshold deviation of the test results of the repeatability of pure tone threshold audiometry at each frequency shall be ≤ 10 dB. The hearing loss shall comply with the characteristics of noise-induced hearing impairment. To exclude the impact of temporary threshold audiometry shift, the people under test shall leave the noise environment for 48 h, which is taken as the screening time of hearing test. If the screening audiometry results have reached the level of noise-induced deafness, the review shall be carried out, and the review time is 1 week after leaving the noise environment.

A.3 The audiometer shall meet the requirements of GB/T 7341.1, and shall be calibrated according to GB/T 4854.1.

A.4 During the pure-tone audiometry, if the people under audiometry has no response at the maximum output value of the audiometer, calculate as the maximum output value.

A.5 The pure-tone audiometry results shall be corrected according to age and sex according to GB/T 7582 (see Table A.1).

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