



Guidelines for Manual Pure-Tone Threshold Audiometry

Working Group on Manual Pure-Tone Threshold Audiometry

These guidelines were developed by the Working Group on Manual Pure-Tone Threshold Audiometry, under the office of the Vice President for Professional Practices in Audiology of the American Speech-Language-Hearing Association (ASHA) and were approved by the ASHA Legislative Council in November 2005. Members of the Working Group were John Campbell, Jeffrey Graley, Deanna Meinke, Linda Vaughan (ex officio), Roberta Augst (monitoring vice president), and Ted Madison (chair). This set of guidelines is the fourth of a series. The first was the Guidelines for Audiometric Symbols (1990a), adopted by ASHA in December 1973. The second was the Guidelines for Identification Audiometry (1975), adopted by ASHA in November 1974. The third was the Manual Pure-Tone Threshold Audiometry Guidelines (1976), adopted by ASHA in November 1977. ASHA encourages the professional community to use these guidelines.

These guidelines present a recommended set of procedures based on existing practice and research findings. Their intention is not to mandate a single way of accomplishing a clinical process, but to suggest standard procedures that in the final analysis should benefit the persons we serve. The purpose is to improve interclinician and interclinic comparison of data, thereby allowing for a more effective transfer of information.

Reference this material as follows: American Speech-Language-Hearing Association. (2005). *Guidelines for manual pure-tone threshold audiometry*. Rockville, MD: Author. Available from <http://www.asha.org/members/desktop-journal/desktop/default>

Index terms: pure-tone air conduction testing, pure-tone bone conduction testing, calibration, monitoring, hearing, assessment

Document type: Guidelines

Associated documents: Position statement, technical report, knowledge and skills

The American Speech-Language-Hearing Association (ASHA) *Guidelines for Manual Pure-Tone Threshold Audiometry* contain procedures for accomplishing hearing threshold measurement with pure tones that are applicable in a wide variety of settings. Diagnostic standard pure-tone threshold audiometry, used most often in clinical settings, includes manual air-conduction measurements at 250, 500, 1000, 2000, 3000, 4000, 6000, and 8000 Hz (125 Hz under some circumstances) plus bone-conduction measurements at octave intervals from 250 Hz to 4000 Hz and at 3000 Hz as needed. Also, when required, appropriate masking is used. For special purposes, extended high-frequency audiometry may be used for frequencies of 9000 to 16000 Hz. Pure-tone threshold audiometry is used for both diagnostic and monitoring purposes.

Scope

Pure-tone threshold audiometry is the measurement of an individual's hearing sensitivity for calibrated pure tones. Three general methods are used: (a) manual audiometry, also referred to as conventional audiometry; (b) automatic audiometry, also known as B&B audiometry; and (c) computerized audiometry. The guidelines presented in this document are limited to manual pure-tone audiometry. Sound field audiometry using loudspeakers is not addressed in this document. Detailed information on auditory measurements in the sound field can be found in *Sound Field Measurement Tutorial 11-371* (ASHA, 1990b).

The historical antecedents of pure-tone audiometry were the classical tuning fork tests. The development of the audiometer made it possible to control signal intensity and duration in ways that were not

Note. When guidelines and standards referred to in this document are superseded by an approved revision, the revision shall apply.

Manual Pure Tone Threshold Audiometry

Stig Arlinger



Manual Pure Tone Threshold Audiometry:

Methods for Manual Puretone Threshold Audiometry American National Standards Institute, Acoustical Society of America. Standards Secretariat, Accredited Standards Committee S3, Bioacoustics, 2004 *Methods for Manual Pure-tone Threshold Audiometry* American National Standards Institute, 2004 **American National Standard Methods for Manual Pure-tone Threshold Audiometry** American National Standards Institute, Acoustical Society of America. Standards Secretariat, Accredited Standards Committee S3, Bioacoustics, 2004 *American National Standard Methods for Manual Pure-tone Threshold Audiometry* American National Standards Institute Accredited Standards Committee S3, Bioacoustics, 2004 Pure-Tone Audiometry and Masking Maureen Valente, 2009-09-01 **Manual of Practical Audiometry** Stig Arlinger, 1989 This introductory text for speech pathology and therapy students examines normative phonetic aspects and also discusses how these may go wrong and what happens when they do Correct use of phonetic symbolizations and the importance of adequate transcription in the clinic are stressed Fundamentals of Hearing: An Introduction William Yost, 2021-11-15 The fifth edition of this successful introductory text on hearing sciences includes auditory anatomy physiology psychoacoustics and perception content Fundamentals of Hearing is one of only a few textbooks that covers all of hearing at an introductory level A meaningful introduction to hearing for students and a wealth of data and facts related to hearing for the professional It is heavily illustrated with over 200 figures Each chapter concludes with a Supplement section with additional resources about topics covered Appendices provide background information to enable full comprehension of content It contains a complete Glossary of terms from the American Standards Institute a combined subject author index and a comprehensive bibliography *Diagnostic Audiology Pocket Guide* James Steiger , Erin L. Miller, 2017-03-15 Diagnostic Audiology Pocket Guide Evaluation of Hearing Tinnitus and Middle Ear Function is intended as a quick reference for audiology students new clinicians and any experienced audiologists who want easy access to diagnostic information for rapid review The first part of this guide covers the routine and special tests audiologists must conduct and interpret in their practices Next disorders such as nonorganic hearing loss middle and inner ear disorders and systemic disorders are covered with a separate chapter set aside for audiogram examples The final chapter is devoted to medical referral decision making criteria **Fundamentals of Audiology for the Speech-Language Pathologist** Welling, Carol A. Ukstins, 2017-09-06 Fundamentals of Audiology for the Speech Language Pathologist Second Edition is specifically written for the speech language pathologist working with hearing impaired populations This accessible text incorporates the expertise of audiologists along with the knowledge and experience of speech language pathologists The theories and training of both disciplines are combined in order to facilitate the practical application of foundational audiological information into speech language pathology practice **Rapid Audiogram Interpretation** Lane D. Squires, Beth A. Colombo , Samantha McKinney, 2019-03-08 Rapid Audiogram Interpretation A Clinician's Manual provides a methodical step by step approach for

interpreting audiograms Training and experienced clinicians as well as non audiologists in related fields will benefit from this unique workbook and easy to remember interpretation process The manual includes audiogram examples on a varying level of complexity basic intermediate and advanced accompanied by official interpretations matching the specific interpretation method recommended by the authors This specific interpretation process allows the reader to learn the method and apply it to every future audiogram interpretation making it an invaluable resource Otolaryngology trainees graduate medical students residents fellows are expected to have a working knowledge of audiogram interpretation however few if any have direct lectures or mentored clinical experiences designed to provide this knowledge within their first few years of training This resource fills that gap and provides a means for beginners to master interpretation of the audiogram It also serves as a general review for more experienced clinicians

Key Features

- Includes 65 audiogram examples
- Uses an 8 step method that can be easily learned and universally applied to future audiogram interpretations
- A searchable index by diagnosis for each audiogram aids the learner in seeing disease specific examples
- Includes a Glossary for quick reference of key terms
- Written by otolaryngologists and an audiologist for comprehensive expertise and coverage

Rapid Audiogram Interpretation will also be helpful for students and professionals in related fields such as audiology speech language pathology and deaf hard of hearing education

Immerse yourself in heartwarming tales of love and emotion with Crafted by is touching creation, **Manual Pure Tone Threshold Audiometry** . This emotionally charged ebook, available for download in a PDF format (PDF Size: *), is a celebration of love in all its forms. Download now and let the warmth of these stories envelop your heart.

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