



AMERICAN  
SPEECH-LANGUAGE-  
HEARING  
ASSOCIATION

## 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

**Sadaf Naz**



## **Manual Pure Tone Threshold Audiometry:**

**Methods for Manual Pure-tone Threshold Audiometry** American National Standards Institute,2004      **Methods for Manual Puretone 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,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 it 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

**Audiology Workbook, Fourth Edition** Steven Kramer, David K. Brown, 2021-12-07

**Audiology Workbook Fourth Edition** is a companion study aid to the textbook **Audiology Science to Practice Fourth Edition** It can also serve as an appropriate supplement to other introductory audiology textbooks or class lectures The **Audiology Workbook** focuses on exercises and questions in hearing and vestibular science and audiology clinical principles and procedures that are beneficial for students in an undergraduate communication science and disorders program and those in a graduate level AuD program It is also a great study resource for the **Audiology Praxis Exam** The fourth edition is composed of an abundance of questions and activities designed to reinforce students knowledge of concepts and procedures that are traditionally difficult to master There are questions and activities on

- 1 properties of sound such as drawing waveforms calculating frequencies periods amplitudes and phases
- 2 anatomy and physiology of the auditory and vestibular systems including diagrams to label
- 3 procedures for obtaining pure tone thresholds and interpreting describing audiograms
- 4 masking for pure tone and speech tests
- 5 performing and interpreting speech test tympanograms wideband acoustic immittance and acoustic reflexes
- 6 understanding and interpreting evoked physiologic responses including OAEs ABRs and VEMP
- 7 clinical case studies for common hearing and balance disorders and
- 8 treatment including hearing aids implantable devices cerumen management tinnitus and aural rehabilitation

The exercises are comprehensive and designed so they may be solved with relatively short answers and useful for group discussion The popular exercises from previous editions have been retained updated and expanded including those on audiogram interpretation masking immittance and case studies Comprehensive answers are also included for each chapter New to the Fourth Edition Expanded exercises on the scientific foundations from the previous

edition as well as new questions added on wavelength resonance decibels signal to noise ratio complex vibrations stages of transduction through the auditory system and psychoacoustics Many new and revised figures of auditory and vestibular anatomy New exercises related to clinical topics including preparation for patient testing case history wideband acoustic immittance and evoked physiologic responses New chapter with exercises on hearing aids assistive listening technologies HATS and implantable devices Each chapter now ends with a set of multiple choice questions *Report*, 1979 *Clinical Audiology* Brad A. Stach, Virginia Ramachandran, 2021-03-11 The third edition of *Clinical Audiology An Introduction* provides a comprehensive enhancement of all the introductory material available in previous editions of this stimulating textbook Students can gain an understanding of the scope of the field of audiology and feel prepared to dive deeper into the subject as they progress through their courses This essential book now with even more exciting content and features focuses on the clinical nature of audiology to familiarize students with the many challenging questions encountered by an audiologist This textbook is intended primarily for beginning level students in the fields of audiology and speech language pathology It is intended for the first major courses in audiology whether it be at the undergraduate or graduate level Whether your goal is to pursue a career as an audiologist or a speech language pathologist *Clinical Audiology An Introduction Third Edition* is the most comprehensive accessible book available to provide you with the clinical understanding to advance in your chosen field New to the Third Edition New coauthor Virginia Ramachandran MSW AuD PhD Two new chapters on implantable hearing technology and hearing assistive and connectivity technologies Updated descriptions of hearing disorders and their causes Expanded focus on diagnostic approach strategies Expanded audiological treatment section Updated hearing aid technology and verification approaches An introduction to vestibular system assessment Key Features Learning objectives at the beginning of each chapter preview the concepts to be discussed End of chapter discussion questions aid students in applying concepts End of chapter summaries outline the key points from the chapter improve retention Margin notes provide key terms and definitions Clinical notes describe particular techniques students might consider using Comprehensive glossary and index [SAM-TR](#), 1977 **Fundamentals of Audiology for the Speech-Language Pathologist** Deborah R. Welling, Carol A. Ukstins, 2022-03-10 *Fundamentals of Audiology for the Speech Language Pathologist Third Edition* is specifically written to provide the speech language pathologist with a knowledge base to work with individuals who are hard of hearing deaf and diagnosed with central auditory processing disorder Serving as a guide to the management of hearing loss this unique resource presents basic audiological concepts in a clear concise easy to understand format eliminating extensive technical jargon This comprehensive text covers various types and degrees of hearing loss and the resulting auditory speech and language difficulties Moving away from an exclusively diagnostic format of audiology practices this text also focuses on the rehabilitative aspects of hearing loss and empowering students to collaborate with audiologists throughout their career Unlike other texts *Fundamentals of Audiology for the Speech Language Pathologist Third Edition*

presents detailed information on all audiometric testing procedures and how to read and interpret audiometric results The text covers programmatic planning from early intervention through geriatrics while also providing a thorough review of normal hearing development from birth through eight years of age Each chapter of the text is organized into these helpful sections What You Need to Know How it Works Technically Speaking Methodologies This approach breaks down each concept in a way that facilitates student comprehension and retention Every new print copy includes Navigate Advantage Access that unlocks a complete interactive eBook videos and animations resource tool kit flashcards and more New chapter providing an overview of listening and spoken language therapy certification and training Includes examples of aural rehabilitation goals Provides guidance on how to counsel patients and their families regarding the impact of hearing loss Checklists and patient questionnaires that benefit students once in practice Provides the latest information about the constantly evolving world of hearing assistance technology including progress made in hearing aids and cochlear implants Audiology Audiology for Speech Language Pathologists Audiologic Rehabilitation Aural Rehabilitation Fundamentals of Audiology 2023 512 pages      **Hearing Loss** Sadaf Naz,2012-03-28 Authored by 17 international researchers and research teams the book provides up to date insights on topics in five different research areas related to normal hearing and deafness Techniques for assessment of hearing and the appropriateness of the Mongolian gerbil as a model for age dependent hearing loss in humans are presented Parental attitudes to childhood deafness and role of early intervention for better treatment of hearing loss are also discussed Comprehensive details are provided on the role of different environmental insults including injuries in causing deafness Additionally many genes involved in hearing loss are reviewed and the genetics of recessively inherited moderate to severe and progressive deafness is covered for the first time The book also details established and evolving therapies for treatment of deafness      **11th International Conference on Practical Applications of Computational Biology & Bioinformatics** Florentino Fdez-Riverola,Mohd Saberi Mohamad,Miguel Rocha,Juan F. De Paz,Tiago Pinto,2017-06-19 Biological and biomedical research are increasingly driven by experimental techniques that challenge our ability to analyse process and extract meaningful knowledge from the underlying data The impressive capabilities of next generation sequencing technologies together with novel and constantly evolving distinct types of omics data technologies have created an increasingly complex set of challenges for the growing fields of Bioinformatics and Computational Biology The analysis of the datasets produced and their integration call for new algorithms and approaches from fields such as Databases Statistics Data Mining Machine Learning Optimization Computer Science and Artificial Intelligence Clearly Biology is more and more a science of information and requires tools from the computational sciences In the last few years we have seen the rise of a new generation of interdisciplinary scientists with a strong background in the biological and computational sciences In this context the interaction of researchers from different scientific fields is more than ever of foremost importance in boosting the research efforts in the field and contributing to the education of a new

generation of Bioinformatics scientists The PACBB 17 conference was intended to contribute to this effort and promote this fruitful interaction with a technical program that included 39 papers spanning many different sub fields in Bioinformatics and Computational Biology Further the conference promoted the interaction of scientists from diverse research groups and with a distinct background computer scientists mathematicians biologists

**Survey of Audiology** David DeBonis, Constance Donohue, 2024-06-01 For nearly 20 years Survey of Audiology Fundamentals for Audiologists and Health Professionals has provided both the breadth of an introductory survey of audiology and the depth of a detailed textbook Inside Drs David DeBonis and Constance Donohue have combined their years of work in clinical settings and their experience teaching audiology into a textbook intended to give students all the knowledge they ll need in the most accessible and comprehensible format In this Third Edition updates have been made to include the latest information on the most current topics in audiology including cognition and hearing loss pharmacology central auditory processing disorders wireless technology hearing aid accessibility tinnitus genetics and biotechnology and noise exposure New and updated inside the Third Edition Ethical considerations for audiologists Auditory Neuropathy Spectrum Disorder ANSD Auditory processing disorders Tinnitus Evidence based genetic counseling The latest hearing aid technology How to critically review evidence in literature and studies Included with the text are online supplemental materials for faculty use in the classroom With its extensive glossary numerous case examples chapter abstracts learning objectives and questions for discussion Survey of Audiology is designed to support learning and reinforce key points in every way The text also works to integrate the humanistic aspects of audiology with the scientific ones into holistic discussions of assessment and intervention Through this approach students will learn to always remember that there is a person behind each set of symptoms While aspiring audiologists will appreciate the depth of Survey of Audiology Fundamentals for Audiologists and Health Professionals Third Edition students of speech language pathology and other health professions looking for a crash course in audiology will benefit from its readability and wide scope

**Handbook of Occupational Safety and Health** S. Z. Mansdorf, 2019-04-23 A quick easy to consult source of practical overviews on wide ranging issues of concern for those responsible for the health and safety of workers This new and completely revised edition of the popular Handbook is an ideal go to resource for those who need to anticipate recognize evaluate and control conditions that can cause injury or illness to employees in the workplace Devised as a how to guide it offers a mix of theory and practice while adding new and timely topics to its core chapters including prevention by design product stewardship statistics for safety and health safety and health management systems safety and health management of international operations and EHS auditing The new edition of Handbook of Occupational Safety and Health has been rearranged into topic sections to better categorize the flow of the chapters Starting with a general introduction on management it works its way up from recognition of hazards to safety evaluations and risk assessment It continues on the health side beginning with chemical agents and ending with medical surveillance The book also offers sections covering

normal control practices physical hazards and management approaches which focuses on legal issues and workers compensation Features new chapters on current developments like management systems prevention by design and statistics for safety and health Written by a number of pioneers in the safety and health field Offers fast overviews that enable individuals not formally trained in occupational safety to quickly get up to speed Presents many chapters in a how to format Featuring contributions from numerous experts in the field Handbook of Occupational Safety and Health 3rd Edition is an excellent tool for promoting and maintaining the physical mental and social well being of workers in all occupations and is important to a company s financial moral and legal welfare      **The Shock and Vibration Digest** ,1987-07



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