

# Efficacy of a Closed-Set Auditory Training Protocol on Speech Recognition of Adult Hearing Aid Users

Ji Young Jeong<sup>1,2</sup>, Junghwa Bahng<sup>2,3</sup> , and Jae Hee Lee<sup>2,3</sup> 

<sup>1</sup>J. W. Hearing Aid Center, Andong; and <sup>2</sup>Department of Audiology and Speech-Language Pathology, Hallym University of Graduate Studies, Seoul; and <sup>3</sup>HUGS Center for Hearing and Speech Research, Seoul, Korea

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Address for correspondence

Jae Hee Lee, PhD

Department of Audiology and  
Speech-Language Pathology,  
HUGS Center for Hearing and  
Speech Research, Hallym University  
of Graduate Studies,  
427 Yeoksam-ro, Gangnam-gu,  
Seoul 06458, Korea  
Tel : +82-2-2058-2942  
Fax : +82-2-5453-6618  
E-mail : jeejaheer@hallym.ac.kr

Junghwa Bahng, PhD

Department of Audiology and  
Speech-Language Pathology,  
HUGS Center for Hearing and  
Speech Research, Hallym University  
of Graduate Studies,  
427 Yeoksam-ro, Gangnam-gu,  
Seoul 06458, Korea  
Tel : +82-70-8680-6933  
Fax : +82-2-5453-6618  
E-mail : bahng.jh@gmail.com

**Background and Objectives** Auditory training involves active listening to auditory stimuli, and it has garnered attention in recent years because it enhances speech-in-noise recognition and the satisfaction of hearing aids. The purpose of this study was to determine the efficacy of a closed-set auditory training protocol for adult hearing aid users. We also evaluated the retention effect of training at a 1-month follow-up test after the completion of training.

**Subjects and Method** Twenty-two hearing-impaired listeners who have used bilateral hearing aids for more than two months participated in this study. Out of 22 participants, 12 participants (training group, TG) received an 8-week auditory training while 10 participants did not receive any training (non-training group, NTG). For training, three types of closed-set training materials (environmental sounds, words, and sentences) were used. The training was conducted eight times over eight weeks (one session per week, about one hour per session). The difficulty level was adjusted by controlling the number of closed-set choices and the signal-to-noise ratios. To determine the efficacy of training, open-set speech recognition abilities and subjective hearing aid satisfaction were evaluated.

**Results** All the open-set speech recognition performances of the TG were enhanced after the closed-set auditory training, while the performance of the NTG was not significantly changed. The auditory training had a positive impact on the TG individuals' subjective satisfaction of hearing aids. The improvement from training was maintained over one month after the completion of the auditory training.

**Conclusion** The closed-set auditory training protocol might lead to enhanced speech understanding as well as more satisfaction with hearing aids for adult hearing aid users.

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**Key Words** Auditory rehabilitation · Closed-set auditory training · Hearing aid user.

## 서론

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# Speech Protocols In Audiology

**Nick Miller**



## **Speech Protocols In Audiology:**

*SPEECH PROTOCOLS IN AUDIOLOGY. EDITED BY RALPH R. RUPP, KENNETH G. STOCKDELL. ,1980*      **Speech Protocols in Audiology** Ralph R. Rupp,Kenneth G. Stockdell,1980      **Introduction to Audiologic Rehabilitation** Ronald L. Schow,Michael A. Nerbonne,Gabriel A. Bargen,Kristina M. Blaiser,Chris A. Sanford,2024-09

The eighth edition of Introduction to Audiologic Rehabilitation offers a comprehensive exploration of aural rehabilitation spanning across the lifespan Written in an accessible style for undergraduate students the text covers the fundamentals methods of assessment and management technologies and contemporary issues for a thorough understanding of audiologic rehabilitation practices Two chapters focus solely on real world case studies addressing the needs of children and adults There are detailed chapters on hearing aids and hearing assistive technologies cochlear implants auditory and visual stimuli in communication language and speech of the deaf and hard of hearing psychosocial aspects of hearing loss and more New to the Eighth Edition Discussion of current issues and trending topics including over the counter hearing aids Highlights related to telepractice and teleaudiology Addition of diversity equity and inclusion topics related to hearing health disparities and audiologic rehabilitations Key Features Based on a proven model framed within the concepts of the World Health Organization Authored by leading experts ensuring current evidence based information Emphasis on a multidisciplinary approach recognizing the collaborative nature of audiologic rehabilitation involving professionals in audiology speech language pathology and related fields Case studies offer application opportunities across the lifespan Each chapter includes activities recommended readings and websites for additional resources Visual aids including figures tables and photos enhance student comprehension particularly for complex topics such as cochlear implants and auditory stimulation Appendices containing valuable terms definitions and additional resources for easy reference

**Evidence-Based Practice in Audiology** Lena Wong,Louise Hickson,2012-02-21 Evidence based practice EBP has proponents in all areas of healthcare and was endorsed in a technical report in 2004 and a position statement in 2005 by the American Speech Language Hearing Association Despite this there is no text on EBP with specific application to audiology It is particularly important in audiology where there are various interventions to assist people with hearing impairment and a growing body of research evidence that needs to be appraised by clinicians and researchers This comprehensive book describes the principles of EBP as they apply to the evaluation of audiologic interventions in children and adults The reader will learn the process of EBP as well as gain knowledge on the evidence relating to specific interventions Evidence Based Practice in Audiology is divided into four sections The first section describes principles of EBP including how to evaluate evidence and how to facilitate evidence based decisions with clients The remaining three sections provide a discussion of the best available evidence about hearing aids cochlear implants and other interventions These three sections contain chapters written by leading international authors who summarize the best available evidence highlight where further evidence is needed and recommend how further evidence should be collected and

applied in the clinic The book ends with an appendix that contains recommended measures for the collection of evidence about different audiologic interventions Evidence Based Practice in Audiology is a highly valued resource for students researchers clinical audiologists other health professionals and policy makers For students the book can be used for learning about research methods and about outcomes of interventions for children and adults with hearing impairment For researchers the book provides a useful summary of available research on important topics in habilitation and rehabilitation and may assist them to design future research studies For clinical audiologists the book can help them understand what evidence is and how this can be applied in clinical practice Other health professionals who can benefit from this book include ENTs pediatricians geriatricians GPs nurses and aged care workers The book can also guide policy makers and third party payers in their decisions about allocation of resources The text is written with sufficient information for readers with different backgrounds and experience and careful attention has been paid to presenting complex information in an easy to understand format Evidence Based Practice in Audiology is edited by two leading academics in research in audiologic interventions These editors have a rich clinical experience working with children and adults with hearing impairment and with other health professionals

**Guidelines for the Practice of Language-speech Pathology and Audiology** Expert Group on Clinical Guidelines in Language-Speech Pathology and Audiology (Canada),1982 *Professional Issues in Speech-Language Pathology and Audiology, Sixth Edition* Melanie W. Hudson,Mark DeRuiter,2023-10-06 This sixth edition of Professional Issues in Speech Language Pathology and Audiology is intended to be a primary text for students in speech language pathology and audiology as well as a resource for practitioners providing a comprehensive introduction to contemporary issues that affect these professions and service delivery across settings It aims to provide a better understanding that day to day clinical work as well as personal professional growth and development are influenced by political social educational health care and economic concerns By instilling a big picture view of the profession future clinicians will be more prepared to make informed decisions as they provide services engage in advocacy efforts and plan their careers as audiologists or speech language pathologists The book is divided into four major sections Overview of the Professions Employment Issues Setting Specific Issues and Working Productively The information presented in each section provides the reader with a better understanding and a new perspective on how professional issues have been affected by both internal and external influences in recent years including technological advances demographic shifts globalization and economic factors Chapter authors are recognized subject matter experts providing a blend of both foundational and cutting edge information in areas such as evidence based practice ethics job searching and employment issues interprofessional practice service delivery in health care and education technology cultural competence supervision and leadership Students reading this book will appreciate how the professions have evolved over time while acquiring a sense of where they are right now as they prepare to enter the professional world Each of the topics covered in the book will continue to play important

roles in the future of speech language pathology and audiology providing early career professionals with the requisite knowledge to achieve success in any setting New to the Sixth Edition New information on issues related to the COVID 19 pandemic Coverage of recent changes in technology Updates to ASHA certification requirements the Assistants certification program and the 2023 ASHA Code of Ethics New contributors Nicole E Corbin Sandra Liang Gillam Erin E G Lundblom Christine T Matthews Shari Robertson Rachel A Ritter and Jennifer P Taylor Updated list of acronyms used in the book Key Features Chapters authored by recognized experts in communication sciences and disorders Each chapter begins with an introduction and ends with a summary of key areas Critical Thinking questions for each chapter accessible online Case studies related to child and elder abuse Case studies related to advocacy Please note that ancillary content such as documents audio and video etc may not be included as published in the original print version of this book Hearing and Aging Raymond H. Hull, 2011-10-05 This is the first book written and published that is dedicated solely to hearing loss in older adulthood and importantly the processes involved in serving the special needs of older adults who are hearing impaired It is a concise book but provides important information for those entering many fields that have as their intent to serve older adults either as a supplement to other texts on communication disorders in aging or as a concise primary text

*Bilingualism and Language Disability (PLE: Psycholinguistics)* Nick Miller, 2013-11-12 Society is becoming increasingly multi lingual and this presents monolingual professionals particularly those in special education and speech pathology with severe problems Is the language delay in a child from a bilingual environment a result of this background or is there a specific speech problem Is a child s poor performance in school due to his problems of coping with two languages or does he need remedial teaching Originally published in 1984 this book is not concerned with second language learning but with speech and learning difficulties in bilingual children as they are presented to remedial teachers psychologists and speech therapists To this end the first group of specially written articles deals with the patterns of language usage in bilingual communities and the social and psychological factors which shape these patterns with processes in normal bilingual language acquisition and with the relationship between cognitive development and growing up with two languages Management issues and methods involved in helping children with language problems are also tackled they include taking case histories family liaison counselling bilingual programmes mother tongue teaching curriculum development and the training of personnel to work in the bilingual bicultural field This book provided a great deal of practical help in a field that was relatively new at the time of writing and helped to enlighten readers on the issues involved and assist in crystalising thought and directing future research **Regents' Proceedings** University of Michigan. Board of Regents, 1988

**Comprehensive Handbook of Pediatric Audiology, Second Edition** Anne Marie Tharpe, Richard Seewald, 2016-02-19 The Comprehensive Handbook of Pediatric Audiology Second Edition is the most wide ranging and complete work of its kind and has become the definitive reference in the specialty area of pediatric audiology Content areas range from typical

auditory development to identification and diagnostic processes to medical and audiologic management of childhood hearing and ear disorders An interdisciplinary assembly of sixty six internationally recognized experts from the fields of audiology speech language pathology education pediatric medicine otology and hearing science have contributed to this second edition Building from the success of the first edition and aligning with the evolution of the profession this edition expands and deepens its coverage of early identification of hearing loss etiology and medical considerations and hearing technologies especially implantable devices and the measurement of outcomes resulting from intervention Updates to the new edition include New chapters on the measurement of outcomes resulting from intervention preventable hearing loss implementation of newborn hearing screening programs and the future of implantable devices among others Reorganization for improved sequencing of content area Substantially updated chapters

The Comprehensive Handbook of Pediatric Audiology Second Edition is intended for use in doctoral level education programs in audiology or hearing science as well as to serve as an in depth reference source for practicing audiologists and other professionals educators scientists and policy makers seeking current and definitive information on evidence based pediatric audiology practice Audiology Steven Kramer, David K. Brown, 2021-12-07 With two new chapters improved artwork and significant updates made throughout the fourth edition of Audiology Science to Practice continues to be the most comprehensive textbook for audiology and hearing science courses as well as for health care professionals wanting a better understanding of hearing science and audiology practices It is written in a style that makes new or difficult concepts relatively easy to understand while still providing more coverage of hearing and vestibular science and clinical audiology than other introductory texts Topics include information about the profession of audiology acoustics anatomy and physiology of the auditory and vestibular systems preparing for the patient otoscopy pure tone audiometry and speech measures audiogram interpretations masking tympanometry acoustic reflexes wideband acoustic immittance otoacoustic emissions auditory brainstem responses hearing screening hearing aids assistive listening aides cochlear and other implantable devices vestibular evaluation descriptions of auditory and vestibular disorders and aural rehabilitation There is also a chapter on the roles of speech language pathologists related to understanding and caring for persons with hearing and balance concerns Where relevant the material includes evidence based practice New to the Fourth Edition Two new chapters Role of the Speech Language Pathologist and Other Treatments and Rehabilitation of Hearing and Balance Disorders Many new beautifully drawn two color anatomy and physiology illustrations Black and white figures have been color enhanced Several chapters were reorganized and updated to include vestibular anatomy physiology and vestibular disorders within the relevant auditory chapters A separate chapter on vestibular evaluation and bedside screening Many chapters expanded to provide information on environmental factors that affect the transmission of sound signal to noise ratio preparation for testing cerumen management assistive listening technology systems HATS and status of over the counter hearing aids Updated references and standards throughout Key Features Many illustrations to help clarify

and expand on key concepts Chapters begin with a list of learning objectives and end with key references Punctuated with historical and informational set aside boxes An easy to read writing style to help students understand scientific concepts Key terms highlighted throughout with a comprehensive end of book glossary Disclaimer Please note that ancillary content such as documents audio and video etc may not be included as published in the original print version of this book

**Early Detection and Intervention in Audiology** Katijah Khoza-Shangase, Amisha Kanji, 2021-02-01 A textbook of case studies for audiologists and speech pathologists that makes recommendations for early detection and intervention of hearing impairments in the South African context Early hearing detection and intervention EHDI is the gold standard for any practicing audiologist and for families of infants and children with hearing impairment EHDI programs aim to identify diagnose and provide intervention to children with hearing impairment from as early as six months old as well as those at risk for hearing impairment to ensure they develop and achieve to their potential Yet EHDI remains a significant challenge for Africa and various initiatives are in place to address this gap in transferring policy into practice within the southern African context The diversity of factors in the southern African context presents unique challenges to teaching and research in this field which has prompted this book project The South African government's heightened focus on increasing access to health care which includes ongoing Early Childhood Development ECD programs make this an opportune time for establishing and documenting evidence based research for current undergraduate and postgraduate students Early Detection and Intervention in Audiology An African Perspective aims to address this opportunity Grounded in an African context with detailed case studies this book provides rich content that pays careful attention to contextual relevance and contextual responsiveness to both identification and intervention in hearing impairment With diverse contributions from experts in local and international contexts but always with an African perspective this is textbook will be an invaluable resource for students researchers and practitioners

**Proceedings of the Board of Regents** University of Michigan. Board of Regents, 1988

*Audiologie*, 1991 Journal of auditory communication

*An Essential Guide to Hearing and Balance Disorders* R. Steven Ackley, T. Newell Decker, Charles J. Limb, 2018-03-29 An Essential Guide to Hearing and Balance Disorders consolidates the most significant clinical aspects of hearing and balance disorders ranging from cause and diagnosis to treatment and cure Experts in various subspecialties of this extensive topic introduce readers to the most sophisticated and state of the art methods of diagnosis and treatment Each chapter expands on a specific topic area along the continuum of how medical personnel diagnose hearing and balance disorders to how surgical implantation of the cochlea and rehabilitation can remedy various conditions In concise format the book begins with a case history and follows with comprehensive descriptions of current knowledge regarding fundamental causes of hearing loss and balance disorders as well as a thorough examination of objective assessment The latter half of the volume presents specialized treatment and rehabilitative options for various disorders The chapters in this part cover special topics and conclude with pertinent case studies Unique areas of discussion

in a text of this kind include genetics of deafness pediatric hearing loss and hearing loss later in life business essentials in audiology private practice professional issues such as ethics methods of practice and conflicts of interest As its title implies this book is critically important for all students and professionals in hearing balance related disciplines including audiology otolaryngology general medicine and rehabilitation oriented allied health care occupations Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 *Handbook of Central Auditory Processing Disorders in Children* Jack A. Willeford, Joan M. Burleigh, 1985 Bilingualism and Language Disability Niklas Miller, 2013-12-11 *Sandlin's Textbook of Hearing Aid Amplification* Michael J. Metz, 2014-02-13 The comprehensive Sandlin's Textbook of Hearing Aid Amplification now in its third edition provides the hearing health professional with an overview of the technological advances related to hearing aid devices The authors give particular emphasis to the most current advances in clinical assessment techniques and hearing instrument technology and provide a detailed analysis of the application of digital signal processing Clinical insights into the psychology of hearing health are included to help professionals meet clients emotional as well as acoustic needs This is a valuable text for academic and clinical professionals involved in the selection and fitting of hearing aid devices for the acoustically impaired New to the third edition Updated chapters on earmold and earshell acoustics principles and applications of high fidelity amplitude compression and microphone technology Major revisions to chapters on digital signal processing hearing aid selection fitting and verification mathematical formulae for applying amplification measures of validity and verification and surgically implanted hearing devices for unilateral hearing loss Discussion of distribution methods considerations for treating children elements of design and implementation of DSP circuits the evolution from analog to digital hearing aids and future consideration for the field

Educational Audiology Handbook, Fourth Edition Cheryl DeConde Johnson, Jane B. Seaton, 2025-02-25 The fourth edition of Educational Audiology Handbook continues to provide essential strategies for collaborating effectively with educators parents and other professionals to support students who need audiology services in school settings This book emphasizes evidence based practices ensuring educational audiologists are equipped with the latest research and methodologies to enhance student outcomes Newly authored by contributors who practice as educational audiologists in local or regional school districts each chapter emphasizes an integration of real world experiences and case studies that reflect current challenges and successes in the field With a focus on practical applications readers will find assessment intervention and program development tools grounded in the latest evidence New to the Fourth Edition Three new chapters Advocating for Educational Audiology Services Remote Service Delivery Development and Management of Contracted Educational Audiology Services New contributors to introduce fresh perspectives relevant to today's educational audiology practice Updated to reflect current terminology legislative information and best practice essentials Expanded information and resources related to classroom acoustics and learning environments Updated perspectives on topics including auditory processing deficits



hearing technology out of booth assessment student wellness and social emotional competence and the audiologist s role in supporting the educational goal for students with hearing related needs Key Features Each chapter introduction includes lists of key terms key points and sample questions for instructors students and practicing educational audiologists Chapters include updated list of selected readings and resources Extensive appendices with customizable handouts forms and protocols ready for local use

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