

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

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객관식형 청능훈련 프로토콜이 보청기 착용 성인의 어음인지에 미치는 효과

정재영^{1,2} · 방정화^{2,3} · 이재희^{2,3}

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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.

서 론

청각손실은 65세 이상 고령자의 만성질환 중 하나로¹⁾ 개인
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Speech Protocols In Audiology

**Ross J. Roeser, Michael Valente, Holly
Hosford-Dunn**



Speech Protocols In Audiology:

Speech Protocols in Audiology Ralph R. Rupp, Kenneth G. Stockdell, 1980 SPEECH PROTOCOLS IN AUDIOLOGY.
EDITED BY RALPH R. RUPP, KENNETH G. STOCKDELL. , 1980 **Audiology Clinical Protocols** Robert H. Margolis, 1997
American Academy of Audiology This manual contains appropriate forms that can be duplicated by a clinic for the purpose of recording needed history and other information For audiologists audiology clinic directors graduate students and hospital administrators 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 **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 **Educational Audiology Handbook, Third Edition** Cheryl DeConde Johnson, Jane B. Seaton, 2020-03-17

Educational Audiology Handbook Third Edition offers a roadmap for audiologists who work in schools or other providers who support school based audiology services As the gold standard text in the field the handbook provides guidelines and blueprints for creating and maintaining high quality educational audiology programs Educational audiologists will also find guidance for achieving full integration into a school staff Within this comprehensive and practical resource there are a range of tools including assessment guidelines protocols and forms useful information for students families school staff and community partners as well as legal and reference documents New to the Third Edition All chapters revised to reflect current terminology and best practices A new feature called Nuggets from the Field which offers practical information from experienced educational audiologists currently working in school settings Revised and updated chapter on legislative and policy essentials Latest perspectives on auditory processing deficits Contemporary focus on student wellness and social competence Expanded information and resources for access to general education Updated perspectives on hearing loss prevention New information on the development of remote audiology practices Materials and recommendations to support interprofessional collaboration Updated and more comprehensive technology information with multiple handouts and worksheets Resources for students in all current learning environments Expanded focus on coaching to support students and school staff 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 **Audiology Review** Jeremy J. Donai, Katharine Fitzharris, 2023-12-14

Audiology Review Preparing for the Praxis and Comprehensive Examinations is intended to serve as a review guide for audiology students and audiologists preparing for AuD program comprehensive examinations and the Audiology Praxis exam The text can also serve as a resource for instructors teaching courses designed to review audiology content and prepare students for various types of formative or summative evaluations Over 13 chapters topics related to audiology basics diagnostics treatment research and professional issues are reviewed Unlike other Praxis study guides that lack audiology specific content and are comprised solely of review questions this book provides a review of the main audiology content areas case based examples practice questions and a full online practice test Section I begins with a description of test question types then discusses strategies to select an answer and finally discusses techniques to utilize when taking the Praxis Section

II covers the fundamentals of audiology auditory and vestibular anatomy physiology and disorders psychoacoustics principles of sound and audiometric instrumentation as well as information regarding the development of speech and language in individuals with typical and atypical hearing Section III further discusses audiological diagnostic techniques for adult and pediatric patients vestibular testing and interpretation and differential diagnosis of auditory and vestibular disorders Section IV is a review of the screening and identification methods for hearing and balance disorders industrial audiology and treatment practices for amplification implantable devices as well as audiological counseling and documentation Section V concludes the book with a review of research information on evidence based practice and professional topics in audiology

Disclaimer Please note that ancillary content such as the online practice test is not included as with the original print version of this book

Rehabilitative Audiology Jerome G. Alpiner, Patricia A. McCarthy, 2000 Rehabilitative Audiology Children and Adults balances theory with practical applications that demonstrate how rehabilitative principles work in the clinical setting Completely revised the Third Edition of this popular text offers a large number of tables appendices and illustrations making the material easier to learn and retain The content is organized to highlight various areas of concern and new advancements in cochlear implants and assistive devices are included to help your patients get the most out of the newest technologies Special needs of children early identification of hearing loss assessment and intervention with pre school and school age children and management of hearing problems in the educational setting are covered in detail

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 Guidelines for the Practice of Language-speech Pathology and Audiology Expert Group on Clinical Guidelines in Language-Speech Pathology and Audiology (Canada),1982 *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 *School-Based Audiology* Cynthia McCormick Richburg,Donna Fisher Smiley,2011-10-28 *School Based Audiology* takes the reader through the history of audiology in the schools focusing on legislation that has shaped the face of school based audiology as it is practiced throughout the United States Core concepts involving academic achievement in students who are deaf hard of hearing classroom acoustics hearing screening programs hearing loss prevention programs diagnostic evaluation protocols hearing aid and FM system verification procedures and classroom amplification are covered throughout the chapters Concepts regarding collaboration with other school based professionals and classroom accommodations and modifications are outlined and provide examples for real life application Each chapter of this textbook concludes with a list of vocabulary words and terms used in the educational environment Practice management concepts not typically discussed in textbooks on this topic are presented including minimum competencies third party billing program outcome evaluation mentoring and preceptoring Recently qualified and even seasoned audiologists will appreciate attention given to recent advances in areas like cochlear implants auditory processing disorders and auditory dys synchrony as they relate to managing students with

hearing loss The varied and ever changing roles of audiologists in the educational setting are described and highlighted with vignettes or short personal statements describing real practitioners degree and training information work settings job description within their school districts and day to day responsibilities These personal accounts allow the AuD student an inside look at what audiologists do in the schools Students are able to experience through these readings how different exciting and even challenging school based positions can be Instructors using this textbook will be able to supplement their lectures with the information described here and will appreciate the structured approach wherein concepts contained in the chapters progressively advance in tune with the reader s knowledge Instructors goals will be met as well as KASA requirements because this textbook provides students the necessary knowledge needed to serve in an educational audiology position

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

AUDIOLOGY Diagnosis Ross J. Roeser, Michael Valente, Holly Hosford-Dunn, 2011-01-01 An invaluable reference for diagnosing common auditory disorders Written by the foremost authorities in the field Audiology Diagnosis presents the basic concepts and essential clinical information for diagnosing auditory disorders otologic diseases and vestibular dysfunction The book provides a thorough review of fundamental principles of diagnosis including the basic procedures the anatomy and physiology of the auditory system imaging techniques instrumentation calibration and more It also covers the clinical tests essential for assessing the type and degree of hearing loss and for determining the etiological factors underlying the patient's disorder Chapters address such important topics as ototoxicity and pharmacology in the audiology practice and utilizing functional brain imaging and radiologic techniques Highlights New information on effective methods for neonatal hearing screening assessment of vestibular disorders the genetics of hearing loss and recent advances in testing for auditory processing disorders in children and adults Chapter outlines to rapidly acquaint reader with topics to be discussed Pearls pitfalls controversial points and special considerations providing recommendations and comments on key aspects of patient care Audiology Diagnosis is one part of a three volume series which is completed by Audiology Treatment and Audiology Practice Management Together these books provide audiologists and students in graduate programs with an invaluable resource for each stage of management

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

Audiology Holly Hosford-Dunn, Ross J. Roeser, Michael Valente, 2000 This three volume series is the new definitive textbook of audiology Consisting of three different sections diagnosis treatment practice management the set provides a current consistent comprehensive clinically oriented coverage of the profession of audiology Journal of Speech-language Pathology and Audiology, 1997 Audiology Services in Diverse Communities Alejandra Ullauri, 2021-08-23 As the population in the U S becomes more diverse health care professionals have a responsibility to adapt their services to meet the needs of the diverse populations they serve However many providers lack access to the appropriate resources to provide high quality care to their Spanish speaking patients Audiology Services in Diverse Communities is a professional resource designed to decrease language barriers improve patient clinician interactions and create more culturally competent hearing services Written by a clinician for clinicians working on a daily basis with minority communities experiencing existing systemic barriers this unique text begins with an overview of cultural competence and the barriers that exist in audiology services The text continues an evidence based cross cultural approach to addressing some of those barriers and generating a discussion of what professionals can do in their own clinical settings The final and largest section of the text is a language tool presented in both English and Spanish to aid clinicians as they communicate and work with Spanish speaking patients Key Features The only book that provides clinicians with a compilation of resources in English and Spanish ready to use in clinic More than 25 resources such as clinical history forms test instructions standardized questionnaires self assessment tools available in English and Spanish to help clinicians provide with language concordance during clinical encounters Evidence based ideas that can help clinicians assess develop implement and monitor cultural competent services A unique format that allows clinicians to visualize English resources on the left side and Spanish resources on the right side facilitating communication between patient and clinician *Current Catalog* National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 Auditory Processing Disorders Donna

Geffner, Deborah Ross-Swain, 2024-08-09 With eight new chapters and many other updates Auditory Processing Disorders Assessment Management and Treatment Fourth Edition details the definition behaviors and comorbidities of auditory processing disorders APD while educating the reader on the most current global practices for assessment of APD including its impact on literacy and language processing Practical rehabilitation management strategies and direct evidence based treatment programs including the use of technology are covered in detail The text is a highly practical book designed specifically for practicing clinicians instructors and students in both audiology and speech language pathology It contains a comprehensive review of APD and is also an excellent resource for parents teachers and other professionals wishing to learn more about APD for themselves their child and their practice New to the Fourth Edition New chapters on the effects of COVID 19 RSV PANDAS autoimmune disorders and other medical issues on APD evaluating APD through telepractice the collaboration of the audiologist and speech language pathologist in evaluating auditory processing skills and other listening problems treatment interventions for deficit specific processing disorders and other auditory skills differentiation between auditory processing and listening disorders an integrative model for auditory linguistic and cognitive processes listening difficulties in the classroom and how to differentiate them from APD identification and treatment of dichotic deficits Updated chapter on auditory neuropathy Updated chapter on current neuroscience on the relationship between auditory processing and literacy Description of new digital module technology for sound enhancement Updated apps for interventions for APD Key Features Contributions from the field s most recognized experts such as Martha S Burns Sharon Cameron Harvey Dillon Jeanane M Ferre James W Hall III Jack Katz Angela Loucks Alexander Larry Medwetsky Deborah Moncrieff and Gary Rance Case studies illustrating the pansensory nature of an APD and the importance of multidisciplinary collaboration An integrative model for understanding APD utilizing research from cognitive neuroscience neurophysiology neurobiology mathematics and neuroanatomy A model of speech understanding to differentiate APD from non auditory deficits and listening problems

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