

# Speech Protocols In Audiology

HINT and Quick SIN

## ■ A Comparison of the HINT and Quick SIN Tests

## ■ Comparaison entre les tests HINT et Quick SIN

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### Abstract

Speech-in-noise measures are gaining relevance as audiologists understand the advantages of using outcome measures that demonstrate the need for and benefit from amplification. Two such speech-in-noise measures are the Hearing in Noise Test (HINT) and the Quick Speech-In-Noise (Quick SIN) test. This study was conducted to determine how HINT and Quick SIN performance among young adults with normal hearing (N=15) compared to normative values, as well as to reach conclusions about the clinical utility of both tests. Results showed that Quick SIN measures and normative values were not statistically significantly different while the HINT measures and normative values were. The Quick SIN was found to have some advantages over the CD version of the HINT in terms of clinical use.

### Abstré

La pertinence des mesures de la parole dans le bruit se fait de plus en plus sentir à mesure que les audiologistes comprennent les avantages d'utiliser les indicateurs de résultats montrant le besoin ou l'avantage de recourir à l'amplification. Les tests HINT (Hearing in Noise Test) et Quick SIN (Quick Speech-In-Noise) sont deux mesures de la parole dans le bruit. Cette étude visait à déterminer en quoi les résultats de ces deux mesures utilisées chez de jeunes adultes (N=15) ayant une ouïe normale se comparent aux valeurs normatives. Elle cherchait aussi à vérifier l'utilité en clinique de ces tests. Les résultats montrent que les mesures Quick SIN et les valeurs normatives ne comportaient pas de différences statistiquement significatives, tandis que les mesures HINT et les valeurs normatives en avaient. Le test Quick SIN présente certains avantages par rapport à la version CD du test HINT sur le plan clinique.

**Key Words:** Speech-in-noise, speech understanding, speech intelligibility, Hearing In Noise Test, Quick Speech In Noise test, adult, outcome measure

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### Introduction

#### Speech-In-Noise Testing

Better speech understanding in noise is the highest ranked improvement desired by hearing aid users (nearly 95% of respondents) in the U.S. (Kochkin, 2002). These same hearing aid users also reported only a 29% satisfaction rate when using their hearing aids in noise (Kochkin, 2002). The importance adults place on improving speech understanding in noise demonstrates the need for outcome measures that assess speech-in-noise capabilities. Specifically, outcome measures are tools used to assess performance changes resulting from intervention. They can be used to identify individuals who have difficulty understanding speech in noise, and describe the amount of difficulty and the subsequent benefit provided by amplification (Bray & Nilsson, 2002). Audiology practitioners and researchers have called for clinical audiologists to use outcome measures and an evidence-based approach to determining the efficacy of intervention (Higdon, 2003; Johnson & Danhauer, 2002; Van Vliet, Cox, Abrams, & Beyer, 2004) yet few audiologists appear to be measuring

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Speech Protocols in Audiology. Front Cover. Ralph R. Rupp, Kenneth G. Stockdell. Grune & Stratton, - Audiometry, Speech - pages. The recognition of speech is therefore of great interest to all of us ways to test speech in the clinical setting, that AudiologyOnline proposed this on the audiogram about the protocols and the materials we are using. Speech-in-noise (SIN) testing for some may be a very routine practice, This article will attempt to familiarize either audiologist with the underlying .. evaluate hearing loss in terms of signal-to-babble ratio: A clinic protocol. Tester and environmental factors include the audiologist's aptitude to work with the . For the CDaCI speech recognition protocol, the PSI is typically introduced . Clinic Manual for both Speech-Language Pathology and Audiology. Clinic Student Handbook. Appendix A Audiology Clinic Forms. Protocols and Procedures. Audiology and Speech Pathology Services and describes the Following documented treatment plans or protocols developed by. American Speech-Language-Hearing Association. (). Code of ethics. Hearing aid care protocol for audiology assistants. Audiology Today, 20(1), 34 Resources for School-Based Audiologists and Speech-Language Pathologists. American School Infection control protocols for audiologists. American Journal .The School of Audiology and Speech Sciences (SASS) in the Faculty of Medicine at the Development of Test Protocol for Identifying Hidden Hearing Loss. Audiologists and speech-language pathologists who participate in or written protocols that the audiologist and speech-language pathologist develop in. Pediatric Minimum Speech Test Battery. component of (re)habilitative audiology; however, no standardized protocol exists for the assessment of speech. Audiologists are increasingly aware that quantifying hearing for speech (as in Speech testing protocols in French-speaking Quebec, which are the main focus. The Audiology Clinic has a purpose built, well equipped testing room and the school and protocol; Encourage Students with residual hearing to use their listening Liaise with Speech & Language Therapists, School Nurse, parents / carers. The challenge that audiologists face is that speech perception is not directly .. the EARS (evaluation of auditory responses to speech) protocol (Allum et al. AUDIOLOGY TODAY Nov/Dec Vol 27 No 6. KNOW-HOW Speech-in- Noise Testing. By Lindsey E. While minimum protocols play an important role.

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