

Speech-Language Pathologists' Voice Assessment and Voice Therapy Practices: A Survey for Standard Clinical Guideline and Evidence-Based Practice

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Objectives: Currently, there is minimal information regarding the voice assessment and the voice therapy of clinical practices that speech-language pathologists (SLPs) use routinely and for their job analysis in Korea. This is a preliminary study for evidence-based practices of voice disorders in order to investigate common voice assessments and therapy techniques that SLPs use for the patients. **Methods:** Twenty-nine SLPs have completed a 37-item survey, and then the data was being analyzed. **Results:** The majority of SLPs routinely used clinician-based and patient-based subjective assessments with the objective method. Specifically, the auditory-perceptual analysis and the Multi-Dimensional Voice Program of Computerized Speech Lab in acoustic analysis were most commonly used for voice assessments. The procedures of recording voice were diversified depending on SLPs and facilities. In voice therapy, most SLPs used a combination of indirect and direct treatment methods for both adults and children with voice disorders. The vocal function exercises were most frequently used in holistic voice therapies, and the most widely used voice facilitation technique was respiration training for patients with hypofunctional and hyperfunctional voice disorders. Additionally, many SLPs relied on their senior SLPs or user manuals when developing skills of subjective and objective measures as well as the therapy itself. **Conclusion:** The results suggested that a consensus for standardized protocol or a guideline of voice assessment is essential to provide effective treatments based on evidence-based practice.

Keywords: Evidence-based practice, Voice assessment, Voice therapy, Speech-language pathologist, Clinical practice

음성장애는 언어재활사가 담당하는 5대 의사소통장애 영역(언어발달장애, 조음음운장애, 음성성 장애, 신경언어장애, 음성장애) 중 한 분야로서, 음성언어재활사는 임상적으로 음성장애의 위험이 있는 사람들을 선별하고, 음성 산출 체계의 병리적인 상태를 진단하기 위해 의뢰된 평가를 실시하고, 이를 통해 음성장애의 유무를 확인하여, 평가의 결과에 기초하여 적절한 음성치료를 제공한다. 따라서, 평가의 정확성은 진단적 증거를 제시할 수 있어야 하며, 환자에게 최선의 치료를 적시에 제공하기 위해 매우 중요하다. 뿐만 아니라, 임상적으로 사용되는 검사들이 바뀐 임상 현장에서 불필요하게 지나치지 않으면서도 다차원적인 음성을 적절히 평가해 낼

수 있어야 하며, 다양한 형태의 원인을 가진 음성의 문제를 적절히 파악하고, 정상 음성과 장애 음성의 차이를 의미 있게 변별해 낼 수 있어야 하며, 나아가 치료 전후의 변화를 효과적으로 평가해 줄 수 있어야 할 것이다. 음성장애를 다루는 이비인후과 의사나 음성언어 재활사들은 이러한 평가의 결과를 바탕으로 치료 방법의 선택 및 치료 목표에 대한 계획을 세우게 되므로, 평가에서 다루어지지 않은 부분은 치료에서 간과되기 쉽다. 따라서, 음성평가의 방법론적 측면의 타당관성이나 타당성 및 신뢰성의 부족은 표준화된 검사 구분 절차나 임상현장실무를 위한 프로토콜의 개발로 개선될 수 있을 것이다. 그럼에도 불구하고, 우리나라에서는 아직까지 음성평

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