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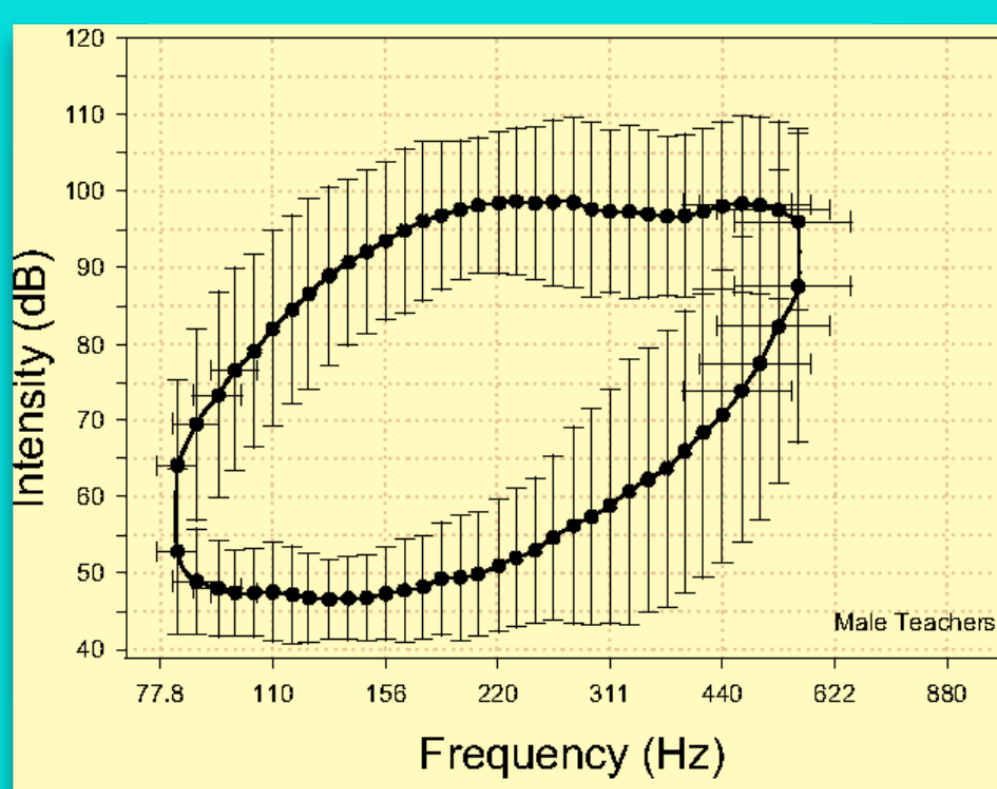
LOGOPEDICS IN HEALTH SCIENCES

Logopedics (logopaedics) - the study and treatment of speech-language pathology.

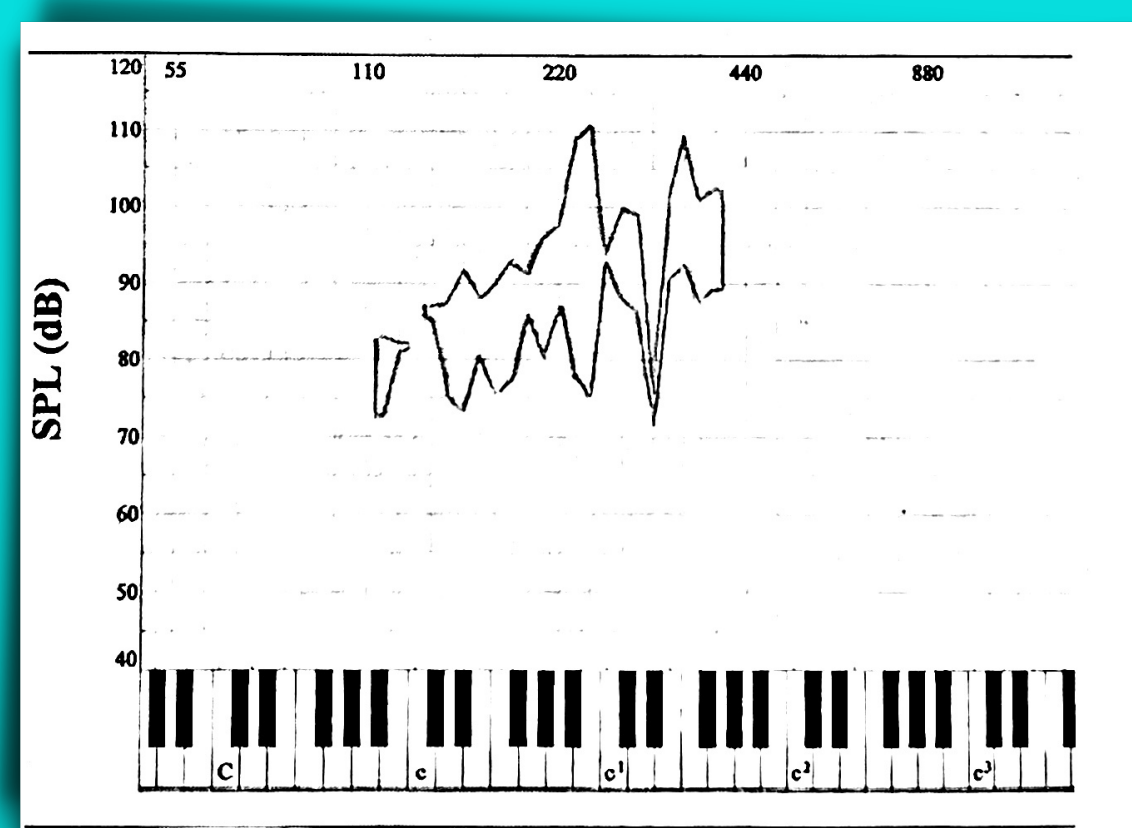
Logopedics is an interdisciplinary field that deserves a place in the health sciences. It includes achievements in medicine, pedagogy, phonetics, neurolinguistics, vocal studies, etc.

Speech therapists work in healthcare facilities that treat patients with aphasia and dysarthria (neurology and rehabilitation departments) and voice and hearing disorders (phoniatic and audiology departments).

- Example. The studies in 2008-2011 proved the effectiveness of logopedics therapy in treating patients with organic and functional dysphonia.



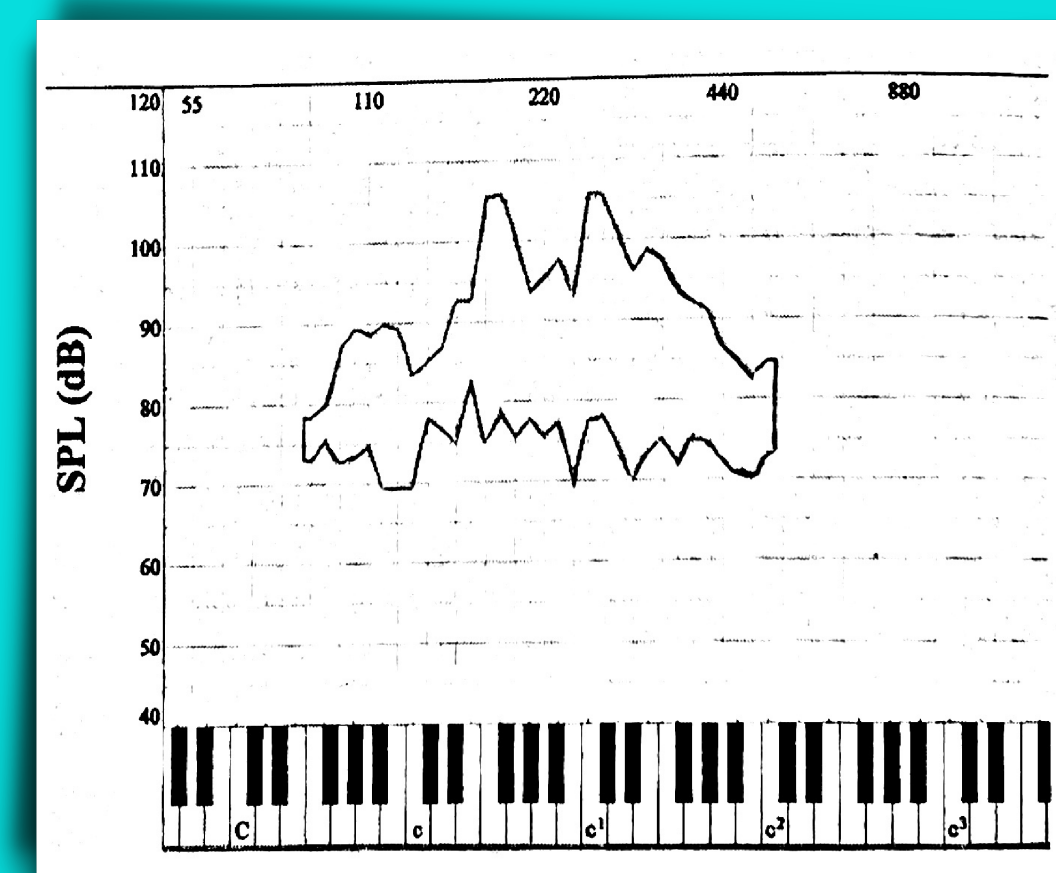
Comparative phonetogram. Phonetogram close to optimal.
<https://www.semanticscholar.org/paper/Normative-voice-range-profiles-of-male-and-female-Heylen-Wuyts/64675ed26b605e6441e6f12cc88351d8eccd6ef1>



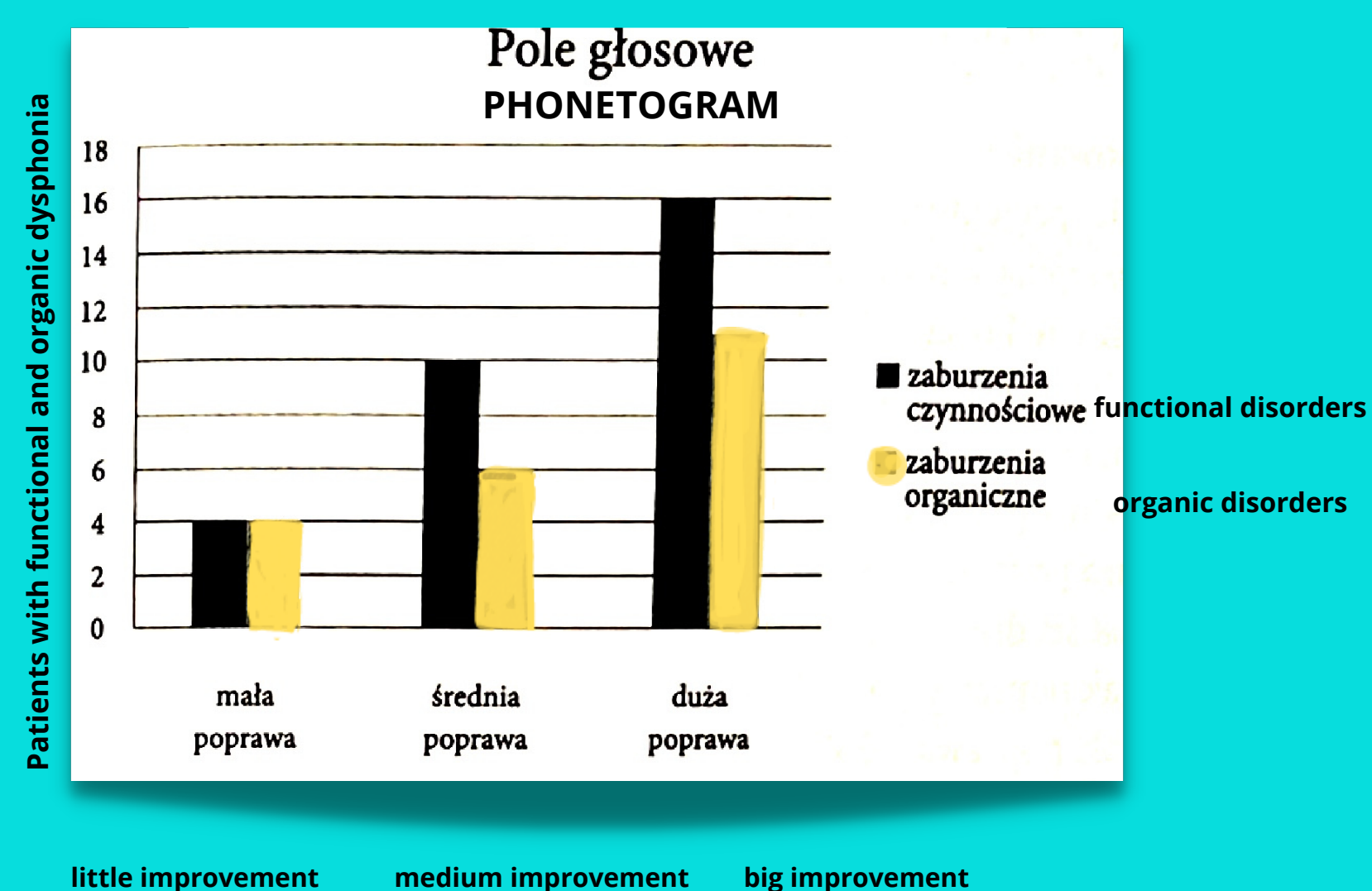
Examples of research results of a 57-years-old male patient with hyperfunctional dysphonia

BEFORE

Source: Own materials.



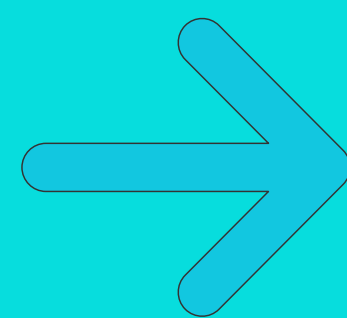
AFTER rehabilitation of voice disorders.



little improvement medium improvement big improvement

The degree of improvement in the phonetogram's (Voice Range Profile) size depending on the disease type.

Source: Own materials.



In the group of patients with functional disorders, the voice range increased by an average of 6.59 semitones (from 0 to a maximum of 13 semitones).

In the group of patients with organic voice disorders, the ambitus increased by an average of 5.79 semitones (from 0 to 14).

- Reports of S. Grabias (2011) indicate that logopedics is the science of biological determinants of language and language behaviors and describes and evaluates cognitive, language, and communication competence. It explains the natural causes that determine this state.
- Logopedics can be helpful in neurosciences, for example, in studying neurodegenerative diseases, where speech and language disorders occur.
- Medical universities should teach students to work in interdisciplinary teams and include speech and language therapy in the curriculum in direct contact with the patients.

References:

Grabias S. *Logopedics -The Science of Biological Determinants of Language and Language Behaviors*. Dec 2011.-Logopedia, 39-40: 9-32.

Mielnik M.I. *Badania nad zastosowaniem elementów śpiewu klasycznego w rehabilitacji chorych z zaburzeniami głosu*. Impuls. Kraków 2011.

Standardy postępowania logopedycznego. Grabias S., Panasiuk J., Woźniak T. (red.). UMCS Lublin, 2015.

