Zastosowanie nowoczesnych fizjoterapeutycznych metod rehabilitacji w leczeniu wybranych postaci dysfonii

The usage of modern physioterapeutic methods of rehabilitation in treatment of chosen kinds of dysphonia

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ABSTRACT

Voice quality disorders – dysphonias are the significant problem from therapeutic, social and economic point of view. The routine therapy does not always bring spectacular effects. The important role play the innovative methods supporting therapy of voice quality disorders.

Purpose: The aim of the study is to assess the effects of vibratory therapy of the larynx (Medical VR) in patients with hyperfunctional dysphonia and stimulating currents in phonatory exercises (VocaStim–Master) in paralytic dysphonia based on the analysis of parameters of objective assessment of voice quality.

Material and methods: Forty patients with hyperfunctional dysphonia treated routinely were included in the study. 20 patients apart from the routine therapy were additionally treated using the vibratory therapy of regions of the larynx (Medical VR, CyberBioMed LLC). In group of 40 patients with paralytic dysphonia, in 20 patients the adjuvant therapy by stimulating currents in phonatory exercises (VocaStim–Master, Physiomed) was used. The results of treatment and adjuvant therapy in hyperfunctional and paralytic dysphonia were analyzed based on: MPT, parameters of stroboscopic and acoustic evaluation (F₀, Jitter, Shimmer, NHR) and narrow-band spectrography.

Results and conclusions: The analysis of the results indicated the usefulness of used parameters of objective assessment of voice quality taking into consideration the diagnostic and therapeutic aspect in hyperfunctional and paralytic dysphonia. Adjuvant vibratory therapy of the larynx in hyperfunctional dysphonia and stimulating currents in phonatory exercises in paralytic dysphonia improved the effectiveness of the therapy, what was confirmed by the analysis of parameters of objective assessment of voice quality.

Słowa kluczowe: dysfonia hiperfunkcjonalna, dysfonia porażenna, wibracyjna terapia stymulująca, prady stymulujące, badanie akustyczne głosu, videolaryngostroboskopia, MPT

Key words: Hyperfunctional dysphonia, Paralytic dysphonia, Vibratory stimulation therapy, Stimulating currents, Acoustic voice examination, Videolaryngostroboscopy, MPT