

## CURRENT PROGRAM DEVELOPMENTS USED AT DIFFERENT STAGES OF LOGOPEDIC IMPACT

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In the article, the author emphasizes the existing positive potentials of information and communication technologies as an innovative tool in the system of speech therapy for people with speech disorders of different ages of primary and / or secondary genesis.

The researcher outlines the advantages of characterized software tools, which not only enrich the logo-correction process, but also positively influence its effectiveness, form the motivation of all participants and the person with speech defect, in particular, to actively participate in the joint work on speech correction.

The main part of the scientific work presents the characteristics of modern software and hardware systems for personal computers, as well as software applications for iOS and Android operating systems for smartphones, created by Ukrainian, Russian researchers and used in the last 5-6 years, both individually, and in educational and medical institutions of Russia and Ukraine.

These are Software-indicator Complex LOGO, Software-didactic Complex Logomer-2, Computer program "Home Speech Therapist-Intellect" and the Internet application "Balakunchyk" (Chatterbox).

LOGO Software Indicator is a tool that uses biological feedback function and is intended for the prevention and correction of speech disorders; it is successfully used in the practice of speech therapists, logoneurologists, psychologists, psychotherapists in the institutions of health care and social protection of Russia; the complex can operate in several modes ("Diagnosis", "Cardio", "Muscle relaxation" and "Exhale"); it has extensive multimedia and gaming capabilities that enhance motivation for correctional training and help achieve results in the shortest possible time.

The next software is the Logomer-2 Programming and Educational Complex, a modern, versatile set of interactive didactic materials for the logopedic room. It helps examine higher mental functions and, in particular, the speech of children, conduct developmental and corrective (individual and group) lessons in various stages of logopedic work (the program consists of 90 games and exercises for individual and group classes; bright characters and interesting game plots motivate children to practice and they perceive the game as a bonus).

The developments by Vlada Tarasenko in Ukraine are also modern and relevant. The author has created a number of software products for children both with norm and special features of psychophysical development, among which the program "Home Speech Therapist-Intellect" should be mentioned. It is an innovative program of high-frequency stimulation of brain activity (speech-auditory zone), an innovative method of correction and restoration of speech disorders of varying degrees and genesis.

The Ukrainian Internet application "Balakunchyk" (Chatterbox) is a program for alternative communication or artificial substitute for speech for people with speech disorders of different ages and genesis. The application contains several series of thematic cards, reflecting everyday activities, different items to choose from when a person with speech disorders builds sentences. The authors (the director is Artem Tuliuk) developed simultaneously two versions: Ukrainian and Russian; the Ukrainian one gives an opportunity to choose a voice of the speaker: female, male, or child.

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