



DIAGNOSTICS IN THE SYSTEM OF PSYCHOLOGICAL ASSISTANCE TO PERSONS WITH SPEECH DISORDERS

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Neuropsychology -

- Science, the main object of study of which is the cerebral organization of mental processes. Its purpose is to understand the relationship between the structure and functioning of the brain with mental processes and behavior of living beings.
- Techniques developed in neuropsychology are used in medicine, various types of expertise, correctional pedagogy, etc.

Development of child neuropsychology

- Domestic child neuropsychology began to develop relatively recently.
- However, a battery of neuropsychological tests has already been adapted for children 6-8 years old and tested,
- a standardized system for quantitative assessment of the results of performing neuropsychological tests has been developed and tested, reliable normative data have been obtained for performing tests of neuropsychological examination by children of different ages,
- data were obtained on the specifics of the development of higher mental functions in children with developmental disabilities, and correctional techniques were developed.

Scheme of neuropsychological examination for local brain lesions (A.R. Luria)

The scheme includes research:

1. Attentions
2. Emotional reactions
3. Gnosis (visual, auditory, somatosensory)
4. Movements and actions
5. Speeches (also writing, reading)
6. Accounts
7. Memory
8. Intelligent processes



Methods of neuropsychological diagnostics of children (Tsvetkova L.S.)

- Into the content express methods includes:
- Skills and skills of drawing and explanation of drawings
- Motor skills - speed, accuracy, agility
- Contact with a teacher, the ability to maintain a dialogue, the ability to cooperate
- 1. Substantive actions. Praxis (dynamic, poses)
- 2. Perception of different modality
- 3. Memory (auditory-speech, object-visual)
- 4. Attention during the survey
- 5. Speech
- 6. Intelligence (analogies, classification)

Methodology Fotekova T.A. (study formation speech skills in schoolchildren)

- Example. "Researching the skill of language analysis"
- Assignments: How many words are in a sentence?
- *The day was warm. A tall birch tree grew near the house.*
- How many syllables are in a word? *House, pencil.*
- How many sounds are there in a word? *Roof*
- Determine the place of the sound in the word.
1st roof, 3rd school, the last glass

Neuropsychological technique Fotekova T.A.

- Processing of results.
- 1 point correct answer
- 0.5 point answer on the second attempt
- 0.24 points answer from the third attempt
- 0 points no answer
- Calculation of the result. *The number of points (sum) is divided by the number of samples and multiplied by 100*
- *Interpretation from the table (compare the result in the group)*

Cross-functional brain hemisphere interaction

- **Process violation lateralization** mental functions, establishing dominance hemispheres indicates a violation cross-functional interactions of brain structures and leads to deviant development.
- Among people with speech impairments, left-handers and ambidextrous (the same development of functions of both hands)

Manifestation hemispheric specializations:

- Domination **left** hemispheres - speech, motor functions
- Dominance of the right - analysis of visual and kinesthetic information, connection with affective processes

Study of the profile of lateral preferences in persons with speech impairments

- Study hand preferences:
 - Interlocking fingers
 - Pose of Napoleon
 - Handset test
 - Test "Spyglass"
- Study leg preferences:
 - Jump on one leg
 - Test "Hit the ball"
- Sensory preferences:
 - telephone receiver (ear), spyglass (eye)