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УТВЕРЖДАЮ

Директор института общественного здоровья,
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ФОНД ОЦЕНОЧНЫХ СРЕДСТВ ДЛЯ ПРОВЕДЕНИЯ ПРОМЕЖУТОЧНОЙ АТТЕСТАЦИИ

Дисциплина:	<u>Иностранный язык для научного общения</u>
Направление подготовки:	<u>44.04.03 Специальное (дефектологическое) образование</u>
Квалификация:	<u>Магистр</u>

1. КАРТА КОМПЕТЕНЦИЙ

Контролируемые компетенции	Планируемые результаты обучения
УК-4 Способен применять современные коммуникативные технологии, в том числе на иностранном (ых) языке (ах), для академического и профессионального взаимодействия	ИД 1.4.1. Знает литературную форму государственного языка, основы устной и письменной коммуникации на иностранном языке, функциональные стили родного языка, требования к деловой коммуникации ИД 1.4.2. Умеет выражать свои мысли на государственном, родном и иностранном языке в ситуации деловой коммуникации ИД 1.4.3. Имеет практический опыт составления текстов на государственном и родном языках, опыт перевода текстов с иностранного языка на родной, опыт говорения на государственном и иностранном языках
ОПК-8. Способен проектировать педагогическую деятельность на основе специальных научных знаний и результатов исследований	ИД 1.8.1. Знает современную методологию педагогического проектирования, алгоритмы разработки, оценки качества и результатов педагогического проектирования, состояние и тенденции развития международных и отечественных педагогических исследований в области образования обучающихся с ОВЗ ИД 1.8.2. Умеет применять специальные научные знания для проектирования содержания и технологий педагогической деятельности ИД 1.8.3. Владеет навыками проектирования педагогической деятельности на основе специальных научных знаний и результатов исследований
ПК-9. Способен к планированию и проведению прикладных научных исследований в образовании	ИД 1.9.1. Знает Современные проблемы науки, инклюзивного и специального (дефектологического) образования, принципы планирования и проведения исследований, методы исследования и обработки данных в области инклюзивного образования ИД 1.9.2. Умеет проводить анализ литературных источников и нормативно – правовых документов; планировать прикладные психолого-педагогические исследования в области инклюзивного образования, осуществлять самостоятельный выбор методик, соответствующих исследовательским задачам, выбирать средства анализа и обработки данных; подготавливать научные отчеты, публикации, презентации ИД 1.9.3. Владеет навыками проведения психолого-педагогических исследований в области инклюзивного образования, анализа литературных источников и нормативно-правовых документов; анализа и обработки данных, презентации, составления отчетов, публикаций и т.д. по результатам исследований; составления психолого- педагогических рекомендаций на основе полученных исследовательских данных

2. ПОКАЗАТЕЛИ ОЦЕНИВАНИЯ ПЛАНИРУЕМЫХ РЕЗУЛЬТАТОВ ОБУЧЕНИЯ

Семестр	Шкала оценивания			
	«неудовлетворительно»	«удовлетворительно»	«хорошо»	«отлично»
знать				
2	Магистрант не способен самостоятельно выделять главные положения в изученном материале дисциплины. Не знает основных правил произношения, словообразования; грамматического и стилистического оформления высказывания; базового фонда общеупотребительной и терминологической лексики; основ перевода и реферирования специального медицинского текста.	Магистрант усвоил основное содержание материала дисциплины, но имеет пробелы в усвоении материала, не препятствующие дальнейшему усвоению учебного материала. Имеет несистематизированные знания об основных правилах произношения, словообразования; грамматического и стилистического оформления высказывания; о базовом фонде общеупотребительной и терминологической лексики; об основах перевода и реферирования специального медицинского текста.	Магистрант способен самостоятельно выделять главные положения в изученном материале. Знает основные правила произношения, словообразования; грамматического и стилистического оформления высказывания; базовый фонд общеупотребительной и терминологической лексики; основы перевода и реферирования специального медицинского текста.	Магистрант самостоятельно выделяет главные положения в изученном материале и способен дать краткую характеристику основным идеям проработанного материала дисциплины. Знает основные правила произношения, словообразования; грамматического и стилистического оформления высказывания; базовый фонд общеупотребительной и терминологической лексики; основы перевода и реферирования специального медицинского текста. Показывает глубокое знание и понимание основных положений текста и смысла всего текста в целом; структурной, лексико-грамматической и стилистической организации текста; причинно-следственных, логических и системообразующих связей в структуре текста; тематики устного монологического высказывания и принципов его грамотного оформления.
уметь				
2	Магистрант не умеет правильно произносить слова; анализировать лексику по	Магистрант испытывает затруднения при произношении, словообразовании и употреблении лексики; при	Магистрант умеет самостоятельно и последовательно выполнять лексико-грамматический,	Магистрант умеет последовательно, систематически и грамотно выполнять лексико-грамматический, структурный и

	словообразовательным элементам; правильно употреблять лексику и грамматические структуры; выполнять грамотный перевод и реферирование специального медицинского текста на всех языковых уровнях; строить устное монологическое высказывание по заданной тематике.	использовании грамматических конструкций; при выполнении перевода и реферирования специального медицинского текста; при оформлении устного монологического высказывания по заданной тематике. Студент непоследовательно и не систематизировано выполняет лексико-грамматический, структурный и логический анализ текста, перевод и реферирование специального медицинского текста. Студент затрудняется при построении устного монологического высказывания по заданной тематике и при ответах на вопросы экзаменатора.	структурный и логический анализ прочитанного текста; выполнять вполне грамотный перевод и реферирование специального медицинского текста; в целом правильно строить устное монологическое высказывание по заданной тематике. Студент умеет использовать изученный лексико-грамматический материал при чтении, переводе и реферировании специального медицинского текста; при оформлении устного монологического высказывания по заданной тематике.	логический анализ прочитанного текста; выполнять качественный перевод и реферирование специального медицинского текста на всех языковых уровнях. Студент умеет самостоятельно и грамотно строить устное монологическое высказывание по заданной тематике и отвечать на вопросы экзаменатора.
владеть				
2	Магистрант не владеет основными языковыми навыками произношения, словообразования и словоупотребления; использования грамматических конструкций; перевода и реферирования специального медицинского текста; построения устного монологического высказывания по заданной	Магистрант владеет основными навыками произношения, словообразования и словоупотребления; использования грамматических конструкций; навыками чтения, перевода и реферирования специального медицинского текста; построения подготовленного устного монологического высказывания по заданной тематике. Студент в основном способен самостоятельно выполнять	Магистрант владеет знаниями всего изученного программного материала, материал излагает последовательно и в основном правильно, но допускает незначительные ошибки и недочеты при воспроизведении изученного материала. Студент способен самостоятельно выделять главные положения в изученном материале, владеет навыком выделения значимых лексико-грамматических, логических и структурных	Магистрант самостоятельно выделяет главные положения в изученном материале и способен дать краткую характеристику основным идеям проработанного материала. Студент владеет навыком определения лексико-грамматической, структурной и логической организации специального медицинского текста; построения грамотного устного монологического высказывания по заданной тематике.

	тематике.	лексико-грамматический, структурный и логический анализ прочитанного текста; строить подготовленное устное монологическое высказывание по заданное тематике. Студент в основном владеет навыками чтения, перевода и реферирования специального медицинского текста; использования изученного лексико-грамматического и текстового материала при подготовке устного монологического высказывания по заданной тематике.	элементов прочитанного текста; выполнять вполне грамотный перевод и реферирование специального медицинского текста; строить вполне грамотное устное монологическое высказывание по заданной тематике; отвечать на вопросы экзаменатора.	Студент показывает глубокое и полное владение всем объемом изучаемой дисциплины в части способности самостоятельного выделения значимых свойств лексико-грамматических единиц и смысловых частей прочитанного специального медицинского текста; основных положений текстового материала с целью построения связного и грамотно оформленного устного монологического высказывания по заданной тематике.
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3. ОЦЕНОЧНЫЕ МАТЕРИАЛЫ ДЛЯ ПРОВЕДЕНИЯ ПРОМЕЖУТОЧНОЙ АТТЕСТАЦИИ

Перечень тем, выносимых на экзамен

2 семестр

1. Международные научные конференции и профессиональные мероприятия.
2. Круглый стол и панельные дискуссии.
3. Развитие презентационных навыков.
4. Академические публикации. Виды, структура и назначение академических текстов.
5. Поиск и обработка информации из академических ресурсов.
6. Обзоры книг и литературы. Цитаты и ссылки. Плагиат.
7. Написание статьи. Описание исследования и выводы.

КОМПЛЕКТ

Вопросов (закрытого типа)

1. Выберите правильный вариант ответа:

The man was operated on ... appendicitis.

- a) against
- b) –
- c) from
- d) for

2. Выберите правильный вариант ответа:

Look ... her skin. It has got a yellowish colour.

- a) for
- b) to
- c) on
- d) at

3. Выберите правильный вариант ответа:

Pancreas is a long thin gland lying ... the stomach.

- a) below
- b) above
- c) after
- d) on

4. Выберите правильный вариант ответа:

Respiratory diseases are associated ... many complications.

- a) of
- b) with
- c) for
- d) –

5. Выберите правильный вариант ответа:

Never show that you are afraid ... injections.

- a) –
- b) of
- c) for
- d) from

6. Выберите правильный вариант ответа:

I hope that ... my mother ... my father will help me.

- a) either...or
- b) not so...as
- c) as...as
- d) neither...or

7. Выберите правильный вариант ответа:

.... therapeutic ... surgical treatment was effective and the patient's condition became worse.

- a) Either...or
- b) Both...and
- c) Neither...nor
- d) Not so...a

8. Выберите правильный вариант ответа:

His temperature is not so ... as it was before the injection.

- a) higher
- b) high
- c) the highest
- d) more higher

9. Выберите правильный вариант ответа:

... came to visit me when I was ill.

- a) Anything
- b) Anybody
- c) Nobody
- d) Anyone

10. Выберите правильный вариант ответа:

She always tried to do it ...

- a) herself
- b) oneself
- c) oneselves
- d) ourselves

11. Выберите правильный вариант ответа:

Obstetrics ... very interesting to study.

- a) is
- b) are
- c) were
- d) been

22. Выберите правильный вариант ответа:

The initial diagnosis made by the doctor appeared to be correct. ... confirmed by X-ray examination.

- a) It was
- b) They were
- c) It is
- d) They are

13. Выберите правильный вариант ответа:

Some students ... part in our experiment because they were interested in Biology.

- a) take
- b) taking
- c) took
- d) taken

14. Выберите правильный вариант

If you come at 5 o'clock we Come at 6, please.

- a) work
- b) shall be working
- c) be working
- d) are working

15. Выберите правильный вариант

I can't make the diagnosis. I ... anything like this.

- a) has seen
- b) seen
- c) haven't seen
- d) was seen

16. Выберите правильный вариант

I ... got any good ideas about it.

- a) am not
- b) haven't
- c) have
- d) was not

17. Выберите правильный вариант

It is known that in this case physiotherapy ... improve the patient's condition.

- a) don't
- b) doesn't
- c) not
- d) is not

18. Выберите правильный вариант

The boy with pneumonia ... the necessary treatment.

- a) is giving
- b) were given
- c) gave
- d) was given

19. Выберите правильный вариант

X-ray examination ... in 2 hours.

- a) will do
- b) is doing
- c) will be done

d) have done

20. Выберите правильный вариант

If you want to be healthy you ... pay attention to your meals.

- a) can
- b) should
- c) may
- d) need

21. Выберите правильный вариант

... the injection of penicillin the nurse left the ward.

- a) Giving
- b) Having given
- c) Given
- d) Was given

22. Выберите правильный вариант перевода:

Instruments to be used should be sterilized.

- a) Инструменты должны быть использованы для стерилизации.
- b) Инструменты необходимо использовать при стерилизации.
- c) Инструменты для стерилизации должны быть использованы.
- d) Инструменты, которые будут использоваться, следует стерилизовать.

23. Выберите правильный вариант перевода:

To prevent the recurrence of the disease he was administered antibiotics.

- a) После предотвращения рецидива болезни ему назначили антибиотики.
- b) Для предотвращения рецидива болезни ему назначили антибиотики.
- c) Ему назначили антибиотики после рецидива болезни.
- d) Из-за рецидива болезни ему назначили антибиотики.

24. Выберите правильный вариант перевода:

It is too late to perform an operation.

- a) Это очень поздно делать операцию.
- b) Это слишком поздно оперировать.
- c) Поздно делать операцию тоже.
- d) Делать операцию слишком поздно.

25. Выберите правильный вариант перевода:

One knows that not all types of antibiotics are effective.

- a) Кто-то знает, что не все типы антибиотиков эффективны.
- b) Не все типы антибиотиков, известные нам, эффективны.
- c) Известно, что не все типы антибиотиков эффективны.
- d) Он знает, что не все типы антибиотиков эффективны.

ЭТАЛОН ОТВЕТОВ

1 b	11 a	21 b
2 d	12 a	22 d
3 a	13 c	23 b
4 b	14 b	24 d
5 b	15 c	25 c

6 a	16 b	
7 c	17 b	
8 b	18 d	
9 c	19 c	
10 a	20 b	

Результаты апробации и стандартизации:

«отлично» 25-23 правильных ответов;

«хорошо» 16-22 правильных ответов;

«удовлетворительно» 10-15 правильных ответов;

«неудовлетворительно» 9 и меньше правильных ответов.

КОМПЛЕКТ

Вопросов (открытого типа):

I. International academic conferences and professional events

1. What is an international academic conference? Who usually organizes/convenes academic conferences?
2. How do prospective participants get to know about the conference?
3. What is the role of international academic conferences in the activity of a young researcher?
4. Have you ever participated in a conference? What kind of conference was it?
5. What workshops did you attend? Did you make a presentation?
6. What was your impression of the conference? What experience did you gain?

II. A round-table and panel discussions. Discussion skills and matters

1. What is a panel discussion examples?
2. What is the purpose of a panel discussion?
3. What are the two types of panel discussion?
4. What is the difference between panel discussion and roundtable?
5. What is a virtual round table?

III. Developing presentation skills

1. What types of presentation do you know?
2. What are the qualities of a good presentation?
3. What makes a presenter unique?
4. How do you deliver an effective presentation?
5. What makes a bad presentation?

IV. Academic publications. Types, structure, and purpose of academic texts

1. What are the different types of academic text structures?
2. What are the purposes of academic text?
3. What are the example of academic texts?
4. What are academic features?
5. How can academic text help students?

V. Searching and processing of information from academic resources

1. What do you mean by searching for information?
2. How do you find academic resources?
3. What are the steps you follow to search for a topic to obtain detailed information?
4. What are the different materials you can search and browse in order to get information about a topic?
5. How do you know if a source is primary or secondary?

VI. Book and literature reviews. Citations and references. Plagiarism

1. What makes a good literature review?
2. How many citations should a literature review have?
3. How can plagiarism be avoided in writing the review of literature?

4. Can you use too many references?
5. How old should sources be in a literature review?

VII. Writing an article. Describing research and coming to conclusions

1. How do you describe a research article?
2. What is the difference between a research article and a journal article?
3. What are the 5 parts of research paper?
4. What are the contents of an article?
5. How would you describe the conclusions of a research work?

КОМПЛЕКТ

ОРИГИНАЛЬНЫХ ТЕКСТОВ ДЛЯ РЕФЕРИРОВАНИЯ И ПЕРЕВОДА на экзамене

Understanding Dyslexia: Challenges and Perspectives

Dyslexia is a neurodevelopmental condition characterized primarily by difficulties with accurate and fluent word recognition, spelling, and decoding abilities. Despite being one of the most common learning differences, it remains widely misunderstood, often leading to misconceptions about the intellectual capacities of those affected. It is crucial to recognize that dyslexia does not reflect a lack of intelligence or motivation; rather, it stems from differences in how the brain processes written language.

Individuals with dyslexia often face significant challenges in academic settings, where reading and writing are fundamental to learning. These difficulties can lead to frustration, lowered self-esteem, and sometimes even anxiety or depression if not adequately supported. However, with early diagnosis and appropriate interventions—such as multisensory teaching methods, tailored reading programs, and assistive technologies—people with dyslexia can achieve academic success and thrive in various professional fields.

Moreover, dyslexia is increasingly being viewed through a strengths-based lens. Many individuals with dyslexia exhibit exceptional creativity, problem-solving skills, and spatial reasoning abilities. This perspective encourages educators and employers to focus not only on overcoming challenges but also on harnessing unique talents.

In conclusion, raising awareness about dyslexia is essential for fostering inclusive educational environments and promoting understanding. By dispelling myths and providing adequate resources, society can empower those with dyslexia to reach their full potential and contribute meaningfully to their communities.

Understanding Dysarthria: Causes, Symptoms, and Management

Dysarthria is a motor speech disorder resulting from neurological injury that impairs the muscles responsible for speech production. Unlike language disorders that affect the ability to understand or formulate language, dysarthria primarily affects articulation, voice quality, and speech intelligibility. It can manifest in varying degrees of severity, depending on the location and extent of the neurological damage.

The causes of dysarthria are diverse and include stroke, traumatic brain injury, Parkinson's disease, multiple sclerosis, cerebral palsy, and other neurological conditions. The disorder often leads to slurred or slow speech, reduced vocal volume, and difficulties with pronunciation, which can significantly impact an individual's ability to communicate effectively.

Diagnosis typically involves a multidisciplinary approach, including neurologists, speech-language pathologists, and other healthcare professionals. Assessment focuses on identifying the specific speech impairments and underlying neurological causes. Early diagnosis is crucial to implement effective interventions.

Management of dysarthria centers on speech therapy tailored to the individual's needs. Techniques may include exercises to strengthen oral muscles, strategies to improve breath control, and the use of augmentative and alternative communication (AAC) devices when necessary. Advances in technology, such as speech-generating devices and apps, have greatly enhanced communication options for individuals with severe dysarthria.

In conclusion, while dysarthria poses significant communication challenges, comprehensive assessment and personalized therapy can improve speech function and quality of life. Increasing awareness and understanding of this condition are essential for fostering empathy and support for those affected.

Voice Disorders: Causes, Impact, and Treatment Approaches

Voice disorders encompass a broad range of conditions that affect the quality, pitch, volume, or flexibility of the voice, often impairing an individual's ability to communicate effectively. These disorders can arise from various causes, including vocal abuse, neurological conditions, structural abnormalities, infections, or psychological factors.

One of the most common types of voice disorders is dysphonia, characterized by hoarseness, breathiness, or strained voice. It may result from vocal fold nodules, polyps, or inflammation due to overuse or irritation. Other conditions such as spasmodic dysphonia involve involuntary spasms of the vocal cords, leading to disrupted speech patterns.

The impact of voice disorders extends beyond mere communication difficulties. For many individuals, their voice is a core aspect of identity and social interaction; thus, voice impairment can lead to emotional distress, social withdrawal, and reduced quality of life. This is particularly significant for professionals who rely heavily on vocal communication, such as teachers, singers, and public speakers.

Diagnosis typically involves a comprehensive evaluation by an otolaryngologist and a speech-language pathologist, including laryngoscopic examination to visualize the vocal folds and assess their function. Treatment depends on the underlying cause and may range from voice therapy and behavioral modifications to medical or surgical interventions.

Voice therapy, often the first line of treatment, focuses on optimizing vocal technique, reducing strain, and promoting healthy voice habits. In cases where structural lesions are present, surgical removal may be necessary. Additionally, emerging technologies such as biofeedback and voice analysis software are enhancing the precision and effectiveness of therapeutic interventions.

In summary, voice disorders are multifaceted conditions that require a multidisciplinary approach for accurate diagnosis and effective management. Raising awareness about vocal health and early intervention can significantly improve outcomes and help individuals maintain their vocal function and overall well-being.

Alalia: A Complex Speech Disorder in Early Childhood

Alalia is a rare neurological speech disorder characterized by a significant delay or complete absence of spoken language development in children, despite normal intelligence and hearing abilities. It typically manifests before the age of three, during critical periods of brain development, and is caused by organic damage to the brain's speech centers. Unlike aphasia, which involves loss of previously acquired language skills, alalia is marked by an initial failure to develop speech altogether.

There are two main forms of alalia: motor and sensory. Motor alalia, sometimes referred to as childhood apraxia of speech, involves difficulties in planning and coordinating the muscle movements necessary for speech production. Children with motor alalia often understand spoken language well but struggle to articulate words clearly, exhibiting symptoms such as inconsistent speech sound errors, impaired articulation, and abnormal speech rhythm or prosody. Sensory alalia, on the other hand, affects the child's ability to comprehend language, as it disrupts the processing and integration of auditory information related to speech sounds.

The symptoms of alalia can vary widely but commonly include delayed speech onset, limited vocabulary, incorrect pronunciation, and difficulty forming coherent sentences. Children may rely heavily on gestures and facial expressions to communicate their needs and emotions. Neurological signs such as motor coordination difficulties or atypical hand dominance are sometimes observed alongside speech impairments.

Early diagnosis and intervention are critical in managing alalia. Speech therapy tailored to the child's specific deficits plays a central role in treatment, focusing on improving speech praxis, expanding vocabulary, and enhancing grammatical skills. Innovative approaches, including multisensory stimulation and experimental therapies like stem cell transplantation, are being explored to improve outcomes, especially in motor alalia cases.

In conclusion, alalia presents significant challenges for affected children and their families. However, with comprehensive assessment and individualized therapy, many children can make meaningful progress in developing communication skills, thereby improving their social integration and quality of life.

Understanding Dysgraphia: Challenges in Written Expression

Dysgraphia is a specific learning disability that affects a person's ability to write, regardless of their intellectual capabilities. It is a neurological disorder that impacts the process of written expression, specifically handwriting, spelling, and organizing thoughts on paper. Unlike dyslexia, which primarily concerns reading, dysgraphia focuses on the motor skills and cognitive processes involved in the act of writing.

Individuals with dysgraphia often exhibit a range of difficulties. These can include illegible handwriting, inconsistent letter formation, incorrect spacing between words or letters, and poor spatial planning on the page. Beyond the physical act of writing, dysgraphia also affects the higher-level cognitive processes involved in composition. Sufferers may struggle with grammatical construction, sentence structure, punctuation, and transferring thoughts from their mind onto paper in a coherent and organized manner. This disconnect between thought and written output can be immensely frustrating, particularly for individuals who possess strong verbal communication skills and insightful ideas.

The challenges posed by dysgraphia extend across academic and professional settings. In schools, it can impact note-taking, essay writing, and test performance, even if the student fully comprehends the subject matter. In the workplace, it can hinder the production of reports, emails, and other written communications. It is crucial to recognize that dysgraphia is not a sign of laziness or a lack of effort; rather, it is a neurobiological difference that requires understanding and appropriate accommodations.

Diagnosis of dysgraphia typically involves a comprehensive evaluation by educational psychologists or learning specialists, assessing both fine motor skills and written language abilities. Effective interventions often include a multi-faceted approach. Occupational therapy can help improve fine motor control and handwriting mechanics. Specialized educational strategies, such as explicit teaching of writing skills, the use of graphic organizers, and assistive technologies like word processors, speech-to-text software, and predictive text tools, are invaluable. These technological aids help bypass the physical act of writing, allowing individuals to focus on the content and organization of their ideas.

In conclusion, dysgraphia is a complex learning difference that profoundly affects written expression. With early identification, tailored interventions, and the thoughtful

application of assistive technologies, individuals with dysgraphia can overcome significant hurdles, enabling them to articulate their thoughts effectively and achieve their full academic and professional potential.

Causes of Speech Disorders: An Overview

Speech disorders arise from a complex interplay of neurological, genetic, developmental, and environmental factors that affect an individual's ability to produce clear and effective verbal communication. Understanding these causes is essential for accurate diagnosis and effective intervention.

One of the primary causes of speech impairments is neurological damage or dysfunction. Conditions such as stroke, traumatic brain injury, and degenerative diseases like Parkinson's disease or amyotrophic lateral sclerosis (ALS) can impair the brain regions responsible for speech production and motor control. For example, dysarthria, a disorder characterized by slurred or slow speech, often results from nerve or muscle damage affecting the tongue, lips, or vocal cords. Similarly, aphasia, which disrupts language comprehension and expression, commonly follows strokes or brain trauma.

Genetic predisposition also plays a significant role, especially in children. A family history of speech or language disorders increases the likelihood of similar difficulties developing. Neurodevelopmental conditions such as autism spectrum disorder (ASD), attention-deficit/hyperactivity disorder (ADHD), and epilepsy frequently coexist with speech impairments, further complicating communication abilities.

Hearing loss is another critical factor. Since hearing is fundamental to learning and reproducing speech sounds, any impairment can hinder speech development, particularly in early childhood. Structural abnormalities, such as cleft palate, can also physically disrupt normal speech patterns, leading to articulation disorders and resonance problems.

Environmental and psychological factors contribute as well. Emotional stress, bullying, or trauma can exacerbate conditions like stuttering or selective mutism. Additionally, prolonged vocal abuse or misuse may cause voice disorders due to damage to the vocal cords.

Finally, certain risk factors increase vulnerability to speech disorders. These include being male, premature birth, low birth weight, and medical problems affecting the

ears, nose, or throat. These factors highlight the importance of early screening and intervention by speech-language pathologists, who use specialized assessments to identify the nature and severity of speech impairments.

In summary, speech disorders result from diverse and often overlapping causes, ranging from neurological injury and genetic factors to hearing loss and environmental influences. A multidisciplinary approach to diagnosis and treatment is crucial to address the specific needs of each individual and improve communication outcomes.

Anatomical and Physiological Mechanisms of Speech

Speech production is an extraordinarily complex process that involves the coordinated activity of multiple anatomical structures and physiological systems. Understanding these mechanisms is essential for appreciating how humans communicate verbally and for diagnosing and treating speech disorders.

At the core of speech production lies the respiratory system, which acts as the power source. The lungs generate a controlled airstream by the contraction and relaxation of the diaphragm and other respiratory muscles. This airflow is crucial because it provides the energy needed to produce sound. Effective breath control allows speakers to regulate loudness, pitch, and rhythm, which are vital for intelligible and expressive speech.

The next critical component is the larynx, often referred to as the voice box. Situated low in the throat, the larynx houses the vocal cords (or vocal folds), which transform the airflow into sound through vibration. By adjusting the tension and length of the vocal cords, the larynx modulates pitch and volume. The rapid and precise control of these muscles enables the production of voiced sounds, including vowels and voiced consonants.

Following phonation, the sound is shaped by the articulatory system, which includes the tongue, lips, teeth, palate, and jaw. These structures modify the airflow and sound waves to create distinct speech sounds. For example, the lips produce bilabial sounds like /p/ and /b/, while the tongue can articulate alveolar sounds such as /t/ and /d/ by touching the alveolar ridge. The velum (soft palate) controls nasal resonance by opening or closing the nasal passage during speech.

Resonance also plays a vital role in speech. The pharynx, oral cavity, and nasal passages act as resonators that amplify and enrich the sound produced by the vocal cords. The size and shape of these cavities influence the unique quality of each person's voice.

Neurologically, speech production is governed by a network of brain regions. The motor cortex plans and executes the precise movements of speech muscles, while auditory feedback mechanisms allow speakers to monitor and adjust their speech in real time. Key language areas such as Wernicke's area are involved in the comprehension of speech sounds, and the integration of sensory and motor information occurs through subcortical structures like the thalamus and cerebellum.

In summary, the production of speech is a finely tuned process requiring the interplay of respiratory power, vocal fold vibration, articulatory shaping, and neurological control. Disruptions in any of these components can lead to speech impairments, highlighting the importance of a comprehensive understanding of the anatomical and physiological bases of speech.

Dyslalia: Causes, Symptoms, and Treatment

Dyslalia is a speech disorder primarily affecting children and young people, characterized by difficulties in correctly pronouncing certain speech sounds. Although the term "dyslalia" is less commonly used today, it is often referred to as a pronunciation or articulation disorder. This condition can significantly impact a child's ability to communicate clearly and confidently, which in turn affects social interaction and academic progress.

There are two main types of dyslalia: phonetic and phonological. Phonetic dyslalia involves problems with the physical production of sounds. For example, a child might lisp, producing the "s" sound incorrectly. Phonological dyslalia, in contrast, occurs when a child can physically produce the sounds but does not use them correctly within words, often substituting or omitting sounds. For instance, "shopping" might be pronounced as "lopping," or "daring dad" as "raring rad." These errors are not random but follow identifiable patterns that speech therapists can analyze and address.

Symptoms of dyslalia include sound substitutions, omissions, and distortions, which can vary in severity. Some children might struggle with just one or two sounds,

while others have difficulties with many, making their speech hard to understand. These challenges often lead to frustration and social withdrawal, emphasizing the importance of early detection and intervention.

The causes of dyslalia are diverse. Functional dyslalia arises from poor coordination of the articulatory organs such as the lips, tongue, and palate, without any anatomical abnormalities. Organic dyslalia, however, is linked to physical or physiological anomalies in the speech organs, which may be congenital or acquired. Additionally, developmental delays, neurological conditions, or hearing impairments can contribute to the disorder.

Treatment for dyslalia typically involves speech therapy tailored to the individual's specific needs. Speech therapists use targeted exercises to improve articulation, phoneme recognition, and sound production. Parental involvement and consistent practice at home are crucial for successful outcomes. In some cases, therapy may also incorporate breathing and relaxation techniques to support clearer speech.

In summary, dyslalia is a multifaceted speech disorder that affects pronunciation and articulation, hindering effective communication. Early diagnosis and specialized therapy are essential to help children overcome these difficulties, fostering better social integration and academic achievement.

Rhinolalia: Causes, Types, and Treatment

Rhinolalia, commonly known as nasal speech, is a vocal resonance disorder characterized by abnormal airflow through the nasal cavity during speech. This condition alters the quality of the voice, making it sound excessively nasal or “nasalized,” which can significantly affect speech intelligibility and social communication.

The primary physiological cause of rhinolalia is velopharyngeal dysfunction, where the velopharyngeal sphincter—the soft palate and the pharyngeal walls—fails to close properly during speech. Normally, this closure separates the oral and nasal cavities, allowing air to flow solely through the mouth except for nasal consonants like /m/, /n/, and /ŋ/. When this closure is weak or incomplete, excessive air escapes through the nose, leading to hypernasality or open rhinolalia.

Rhinolalia is generally classified into three types:

Open Rhinolalia (Hypernasality): Characterized by too much nasal airflow due to an open velopharyngeal port. This type often results from structural abnormalities such as cleft palate, submucous cleft, or surgical defects. It causes distortion in the pronunciation of oral consonants, especially sibilants, reducing speech clarity.

Closed Rhinolalia (Hyponasality): Occurs when nasal airflow is obstructed, often due to enlarged adenoids, nasal polyps, or chronic nasal congestion. This blockage causes the voice to sound “stuffed” or muffled, as nasal resonance is diminished.

Mixed Rhinolalia: A combination of both open and closed types, where the speaker experiences fluctuating nasal resonance due to varying degrees of obstruction and velopharyngeal insufficiency.

The causes of rhinolalia are diverse. Congenital anomalies like cleft lip and palate are among the most common, but neurological conditions such as cerebral palsy or stroke can also impair velopharyngeal function. Additionally, trauma, infections, allergies, and surgical interventions may contribute to the disorder.

Symptoms include a nasal quality to the voice, difficulty articulating certain consonants, reduced speech intelligibility, and sometimes associated swallowing or breathing difficulties. These symptoms often lead to social anxiety and withdrawal, emphasizing the importance of timely diagnosis and treatment.

Diagnosis involves multidisciplinary assessment, including speech-language pathologists, otolaryngologists, and sometimes maxillofacial surgeons. Techniques such as nasoendoscopy, videofluoroscopy, and nasometry help evaluate velopharyngeal function and nasal resonance quantitatively.

Treatment depends on the underlying cause. Speech therapy aims to improve velopharyngeal closure and articulation through targeted exercises and resonance training. In cases of structural defects, surgical correction (e.g., palatoplasty) or prosthetic devices like speech bulbs may be necessary. Medical management of nasal obstructions and adjunctive orthodontic treatments can also support functional improvement.

In conclusion, rhinolalia is a multifaceted speech disorder with significant impacts on communication and quality of life. A comprehensive, individualized approach

combining medical, surgical, and therapeutic interventions offers the best outcomes for affected individuals.

Dysarthria: Causes, Symptoms, and Management

Dysarthria is a motor speech disorder resulting from weakness, paralysis, or poor coordination of the muscles used for speech production. These muscles include those of the face, lips, tongue, throat, and respiratory system. When these muscles are impaired, speech can become slurred, slow, or difficult to understand, significantly affecting communication and quality of life.

The causes of dysarthria are diverse but primarily involve damage to the nervous system. Common conditions leading to dysarthria include stroke, traumatic brain injury, Parkinson's disease, amyotrophic lateral sclerosis (ALS), multiple sclerosis, cerebral palsy, and other neurological disorders. In some cases, certain medications such as sedatives or antiseizure drugs can also induce symptoms resembling dysarthria. The specific symptoms and severity depend on the location and extent of neurological damage.

Typical symptoms of dysarthria include slurred or nasal speech, monotone or strained voice, irregular speech rhythm, and difficulty controlling speech volume. Individuals may speak too softly or loudly, exhibit rapid or slow speech, and have trouble moving their tongue, lips, or jaw. In more severe cases, speech may be reduced to short phrases or unintelligible sounds. Additionally, dysarthria can be accompanied by difficulties in swallowing (dysphagia) and drooling due to poor muscle control.

Diagnosis involves a comprehensive assessment by healthcare professionals, including neurologists and speech-language pathologists (SLPs). Evaluations focus on muscle strength, coordination, speech clarity, voice quality, and respiratory function. Advanced diagnostic tools such as MRI, CT scans, and electromyography may be used to identify underlying neurological causes.

Treatment of dysarthria targets both the underlying condition and speech symptoms. While some neurological causes may be progressive or irreversible, speech therapy plays a crucial role in improving communication abilities. Therapy focuses on strengthening oral muscles, enhancing breath support, improving articulation, and teaching compensatory strategies. Assistive technologies, such as speech-generating devices, can

also support communication for individuals with severe impairments. In cases where dysarthria is medication-induced, adjusting or discontinuing the offending drugs may alleviate symptoms.

Beyond physical symptoms, dysarthria often impacts social interaction, employment, and emotional well-being, sometimes leading to frustration, isolation, or depression. Therefore, a multidisciplinary approach that includes psychological support is essential for holistic care.

In conclusion, dysarthria is a complex speech disorder caused by neurological impairment of speech muscles. Early diagnosis and individualized, multidisciplinary treatment can significantly improve speech function and quality of life for affected individuals.

Voice Disorders: Causes, Symptoms, and Treatment

Voice disorders encompass a wide range of conditions that affect the quality, pitch, volume, or flexibility of the voice, often impairing an individual's ability to communicate effectively. These disorders can arise from various causes, including vocal overuse, neurological problems, structural abnormalities, infections, and psychological factors.

One of the most common causes of voice disorders is vocal overuse or misuse, such as excessive talking, yelling, or improper singing techniques. This can lead to vocal cord strain, inflammation, and the development of benign growths like nodules or polyps, which disrupt normal vocal fold vibration and cause hoarseness or breathiness. Vocal fold paralysis, often resulting from nerve damage due to surgery, trauma, or illness, can also severely impair voice quality by limiting vocal cord movement.

Neurological conditions such as spasmodic dysphonia cause involuntary spasms of the vocal cords, producing a tight, shaky, or jerky voice that fluctuates unpredictably. Other disorders like paradoxical vocal fold movement involve abnormal vocal cord closure during breathing, which can mimic asthma and cause breathing difficulties.

Symptoms of voice disorders vary widely but commonly include hoarseness, roughness, reduced pitch range, vocal fatigue, pain or discomfort when speaking, and in severe cases, partial or complete loss of voice. These symptoms can significantly impact social interaction, professional performance, and overall quality of life.

Diagnosis typically involves a thorough medical history, physical examination, and specialized assessments such as laryngoscopy to visualize the vocal cords. Imaging techniques like CT or MRI scans may be employed to identify structural abnormalities or lesions.

Treatment depends on the underlying cause and severity. Voice therapy, conducted by speech-language pathologists, is often the first line of intervention. It focuses on improving vocal technique, reducing strain, and promoting healthy vocal habits through exercises and behavioral modifications. Physiologic voice therapy aims to balance respiratory, phonatory, and resonatory subsystems, while symptomatic therapy targets specific vocal symptoms.

Medical treatments may include anti-inflammatory drugs, proton pump inhibitors for acid reflux, or antibiotics for infections. In cases of structural lesions, surgical removal using advanced techniques such as laser surgery may be necessary. For neurological disorders like spasmodic dysphonia, botulinum toxin injections into the vocal cords can reduce muscle spasms and improve voice quality.

Lifestyle modifications are crucial for prevention and management. These include vocal rest, hydration, avoiding irritants like tobacco smoke, and managing vocal load to prevent overuse injuries. Amplification devices can assist individuals who need to speak loudly or for extended periods, reducing vocal strain.

In conclusion, voice disorders are multifactorial conditions that require a comprehensive, multidisciplinary approach for effective diagnosis and treatment. With appropriate intervention, many individuals can regain optimal vocal function and improve their communication and quality of life.

Speech Therapy: An Essential Discipline for Communication Development

Speech therapy, also known as speech-language pathology, is a specialized healthcare field dedicated to the assessment, diagnosis, and treatment of communication disorders. These disorders can affect speech, language, voice, fluency, and swallowing functions across all age groups, from infants to the elderly. The primary goal of speech therapy is to enhance individuals' ability to communicate effectively, thereby improving their social integration, academic success, and overall quality of life.

The scope of speech therapy is broad, encompassing a variety of conditions such as articulation disorders, language delays, stuttering, voice disorders, aphasia, dysarthria, and cognitive-communication impairments. Speech therapists, or speech-language pathologists (SLPs), employ evidence-based techniques tailored to the unique needs of each client. Their work often involves multidisciplinary collaboration with educators, psychologists, neurologists, and otolaryngologists to provide comprehensive care.

Assessment is a crucial first step in speech therapy. It involves detailed evaluations of speech sound production, language comprehension and expression, voice quality, fluency, and swallowing function. These assessments help identify the nature and severity of the disorder, underlying causes, and the impact on daily life. Modern diagnostic tools, including standardized tests, acoustic analysis, and instrumental evaluations like videofluoroscopy, enhance the accuracy of diagnosis.

Intervention strategies in speech therapy are diverse and adaptive. For children with speech sound disorders, therapists use phonological awareness training, articulation exercises, and play-based activities to facilitate natural language acquisition. In adults recovering from stroke or brain injury, therapy may focus on regaining lost language skills and developing compensatory communication methods, including augmentative and alternative communication (AAC) devices.

Technological advancements have significantly enriched speech therapy practices. Computer-assisted therapy programs, mobile applications, and telepractice platforms enable remote delivery of services, increasing accessibility and engagement. Additionally, biofeedback and real-time visualizations help clients monitor and adjust their speech production more effectively.

Beyond clinical settings, speech therapists play a vital role in prevention and education. They work with parents, teachers, and caregivers to promote healthy communication habits and early identification of potential issues. Public awareness campaigns and community programs further support inclusive environments for individuals with communication challenges.

In conclusion, speech therapy is a dynamic and essential discipline that empowers individuals to overcome communication barriers. Through personalized interventions,

interdisciplinary collaboration, and innovative technologies, speech therapists contribute profoundly to enhancing human connection and participation in society.

Stuttering: Understanding Its Nature, Causes, and Treatment

Stuttering is a complex speech disorder characterized by disruptions in the normal flow of speech, such as repetitions, prolongations, or blocks of sounds, syllables, or words. These disruptions can significantly affect a person's ability to communicate fluently and confidently, often leading to social anxiety, frustration, and reduced quality of life.

The exact causes of stuttering remain multifactorial and not entirely understood. Research suggests that genetic predisposition plays a significant role, as stuttering tends to run in families. Neurological studies have identified differences in brain activity and structure in individuals who stutter, particularly in areas responsible for speech production and motor coordination. Environmental factors, such as stressful speaking situations or family dynamics, may exacerbate symptoms but are not considered primary causes.

Stuttering typically begins in early childhood during the critical period of speech and language development. While many children experience transient disfluencies, persistent stuttering beyond the age of five often requires professional intervention. The disorder manifests differently in each individual, ranging from mild disruptions to severe blocks that impede communication.

The impact of stuttering extends beyond speech fluency. It can affect self-esteem, academic performance, and social relationships. Many people who stutter develop coping mechanisms, such as avoiding certain words or speaking situations, which may further limit their participation in daily life.

Diagnosis involves a comprehensive evaluation by a speech-language pathologist (SLP), who assesses the frequency and types of disfluencies, secondary behaviors (like facial tension or eye blinking), and the emotional response to stuttering. This holistic approach helps tailor effective treatment plans.

Treatment for stuttering is multifaceted and often combines behavioral and cognitive strategies. Speech therapy techniques focus on improving speech fluency through controlled breathing, slow and deliberate speech patterns, and smooth transitions between sounds. Fluency shaping and stuttering modification are two widely used

therapeutic approaches. Additionally, cognitive-behavioral therapy (CBT) addresses the psychological aspects by reducing anxiety and negative self-perceptions associated with stuttering.

Technological advancements have introduced novel tools such as delayed auditory feedback devices and smartphone apps that support therapy and practice outside clinical settings. Group therapy and support groups also provide valuable social support and reduce feelings of isolation.

In conclusion, stuttering is a multifaceted speech disorder with neurological and genetic underpinnings, influenced by environmental factors. Early diagnosis and individualized, comprehensive treatment are essential to help individuals manage their stuttering, improve communication skills, and enhance their overall well-being.

Writing and Reading Disorders: Causes, Characteristics, and Interventions

Writing and reading disorders, often categorized under specific learning disabilities, significantly impact an individual's ability to acquire and use literacy skills essential for academic success and everyday communication. These disorders encompass a range of difficulties, from decoding and comprehension to spelling and written expression, and require targeted interventions to support affected individuals.

One of the most prevalent reading disorders is dyslexia, characterized by difficulties with accurate and fluent word recognition, poor spelling, and decoding challenges despite adequate intelligence and educational opportunities. Dyslexia stems from neurobiological differences affecting phonological processing—the ability to recognize and manipulate the sound structures of language. This deficit hampers the connection between letters and sounds, making reading acquisition laborious and effortful.

Writing disorders, such as dysgraphia, involve impairments in handwriting, spelling, and the organization of written text. Dysgraphia can manifest as illegible handwriting, inconsistent spacing, poor spelling, and difficulties in translating thoughts into coherent written language. These challenges often arise from deficits in fine motor skills, visual-motor integration, and executive functioning, which affect planning and sequencing during writing tasks.

The interplay between reading and writing disorders is complex, as both rely on overlapping cognitive and linguistic processes. For example, a child struggling with phonological processing may exhibit both dyslexia and dysgraphia, compounding academic difficulties. Early identification through comprehensive assessments is crucial to differentiate these disorders from general learning delays or intellectual disabilities.

Intervention strategies are multifaceted and tailored to individual needs. For reading disorders, evidence-based approaches emphasize phonics instruction, phonological awareness training, and guided reading practices that foster decoding skills and reading fluency. Assistive technologies, such as audiobooks and text-to-speech software, provide alternative access to written content, reducing barriers to learning.

In addressing writing disorders, occupational therapy can improve fine motor control and handwriting skills, while specialized writing instruction focuses on spelling, grammar, and text organization. The use of word processors, speech-to-text applications, and graphic organizers helps mitigate the mechanical challenges of writing, allowing learners to concentrate on content development.

Moreover, educational environments that promote multisensory learning, individualized support, and positive reinforcement significantly enhance outcomes for students with literacy disorders. Collaboration among educators, speech-language pathologists, psychologists, and families is essential to create comprehensive support systems.

In conclusion, writing and reading disorders present significant challenges but can be effectively managed through early diagnosis, targeted interventions, and supportive learning environments. Empowering individuals with these disorders fosters not only academic achievement but also lifelong confidence and communication skills.

Speech Disorders in Children with Sensory and Intellectual Disabilities

Speech and communication impairments are common and complex challenges faced by children with sensory and intellectual disabilities. These disorders significantly affect their ability to express themselves, understand others, and engage socially, which in turn impacts their overall development and quality of life.

Children with intellectual disabilities (ID) exhibit a wide range of speech and language impairments, depending on the severity of their cognitive limitations. Those with mild intellectual disability may experience subtle difficulties, such as trouble understanding abstract language or engaging in social communication. In contrast, children with severe or profound intellectual disabilities often have very limited verbal abilities, sometimes restricted to simple words or phrases, or may be entirely nonverbal. Many genetic syndromes associated with intellectual disability, such as Down syndrome, fragile X syndrome, and Williams syndrome, present distinct profiles of speech and language difficulties—for example, dysfluent speech in Down syndrome or echolalia in fragile X syndrome.

Sensory impairments, particularly hearing loss, compound these challenges by limiting access to auditory input, which is crucial for typical speech and language development. Children with dual sensory impairments (e.g., deafblindness) face even greater obstacles, as they must rely on alternative communication modes such as tactile signing or augmentative and alternative communication (AAC) systems. Early identification and intervention are critical to support language acquisition and prevent further developmental delays.

Speech disorders in this population often manifest as delays in expressive and receptive language, limited vocabulary, impaired articulation, and difficulties with pragmatic language skills—the social use of language. Some children may exhibit atypical speech patterns such as echolalia (repetition of words or phrases), or have challenges with speech fluency and voice quality. Moreover, co-occurring behavioral and psychiatric conditions, including anxiety, attention-deficit/hyperactivity disorder (ADHD), and autism spectrum disorder (ASD), frequently complicate the clinical picture and require integrated management approaches.

Assessment and diagnosis require a multidisciplinary team, including speech-language pathologists, audiologists, psychologists, and medical professionals. Comprehensive evaluation considers cognitive functioning, sensory abilities, motor skills, and social communication. Standardized tests are often supplemented by observational and functional communication assessments in naturalistic settings.

Intervention strategies are highly individualized and emphasize augmenting communication abilities through speech therapy, AAC devices, and environmental modifications. Speech therapy focuses on improving articulation, language comprehension, and social communication skills, while AAC provides alternative means for expression when verbal speech is limited or absent. Family involvement and education are essential components, ensuring consistent support across home and educational environments.

Inclusive educational settings that accommodate communication needs and promote peer interaction foster social development and reduce isolation. Teachers and caregivers benefit from training to understand the unique challenges faced by these children and to implement supportive communication strategies effectively.

In conclusion, speech disorders in children with sensory and intellectual disabilities are multifaceted and require early, comprehensive, and collaborative intervention. By addressing both the sensory and cognitive aspects of communication, professionals can help these children maximize their communicative potential and improve their participation in daily life.

Organization of Speech Therapy Services in Russia

Speech therapy in Russia is a well-established and multifaceted system aimed at supporting individuals with speech, language, and communication disorders across all age groups. The organization of speech therapy services combines public healthcare institutions, private clinics, educational settings, and specialized centers to provide comprehensive assessment, diagnosis, and intervention.

In Russia, speech therapy is delivered by highly qualified specialists known as speech therapists or speech-language pathologists (SLPs). These professionals undergo rigorous training and certification, ensuring they possess advanced knowledge of speech disorders and evidence-based therapeutic techniques. Many speech therapists are native Russian speakers and have extensive experience working with diverse populations, including children with developmental delays, adults with neurological impairments, and multilingual individuals.

Public healthcare institutions play a crucial role in providing accessible speech therapy services. Large hospitals and rehabilitation centers in major cities such as Moscow and St. Petersburg offer diagnostic evaluations and treatment programs for a wide range of speech disorders, including stuttering, dysarthria, alalia, and voice disorders. These facilities often incorporate multidisciplinary teams comprising neurologists, otolaryngologists, psychologists, and speech therapists to address the complex needs of patients.

Private clinics and pediatric centers complement public services by offering more individualized and flexible therapy options. These centers frequently provide specialized programs tailored to children's developmental needs, including early intervention for speech delays and support for reading and writing difficulties. Many private providers also cater to multilingual families, offering bilingual or multilingual therapy to address the unique challenges faced by children growing up in linguistically diverse environments.

Educational institutions, particularly international and private schools, increasingly integrate speech therapy into their support services. Speech therapists in schools conduct initial screenings, develop personalized intervention plans, and collaborate closely with teachers and parents to promote speech and language development within the academic context. Group sessions, individual therapy, and mini-groups are common formats used to address articulation, vocabulary expansion, expressive speech, and literacy skills.

The advent of teletherapy has expanded access to speech therapy across Russia, especially for families in remote areas or those requiring multilingual support. Online platforms enable qualified therapists to deliver sessions via video calls, ensuring continuity of care and convenient scheduling. This approach has proven particularly beneficial for expatriate families and those balancing multiple languages at home.

Parental involvement is a cornerstone of effective speech therapy in Russia. Therapists emphasize educating families about communication strategies and providing home-based exercises to reinforce progress. This collaborative model enhances outcomes and supports the generalization of skills beyond clinical settings.

Despite these strengths, challenges remain, including disparities in service availability between urban and rural areas, language barriers for non-Russian speakers,

and the need for increased public awareness about speech disorders. Efforts to improve training, expand teletherapy, and promote inclusive education continue to shape the future of speech therapy in Russia.

In summary, the organization of speech therapy in Russia is characterized by a comprehensive network of public and private providers, integration within educational systems, and growing use of technology. This multifaceted approach ensures that individuals with speech and language difficulties receive timely, personalized, and effective support to enhance their communication abilities and quality of life.