



Advanced Master's Degree Comprehensive Speech Therapy

» Modality: online» Duration: 2 years

» Certificate: TECH Global University

» Credits: 120 ECTS

» Schedule: at your own pace

» Exams: online

Website: www.techtitute.com/us/education/advanced-master-degree/advanced-master-degree-comprehensive-speech-therapy

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01 Introduction





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The latest advances in Speech Therapy, both clinical and educational, are giving an important twist to the new methodological approaches related to the detection, assessment and intervention in Speech, Language and Communication Disorders, with increasing incidence in children and youth school population.

Knowing what the specific educational needs arising from speech disorders are, how to identify them, what is their idiosyncrasy in terms of signs or observable characteristics and what models of both direct and indirect intervention are the most appropriate, are all key aspects for any process of speech therapy re-education.

In addition, it is important to take into account that professionals such as speakers, journalists, commercials, announcers, actors, singers, etc., require knowledge and management of their phonatory apparatus, since its use is essential for their work. In this sense, it is also important to know the multifactorial nature of the voice and its alterations. The changes that occur in the human voice over time are related, among other factors, to the maturation and development of the phonorespiratory system, as well as to its deterioration.

For this reason, TECH has designed this social commitment program to help specialize highly qualified professionals and develop their personal, social and labor skills during the course of the program. The graduate will be able to learn in a more organic, simpler and more efficient way by motivating critical thinking and development.

This program is designed to give the student access to the specific knowledge of this discipline in an intensive and practical way. A great value for any professional. Additionally, as it is a 100% online education, it is the students themselves who decide where and when to study. Without the restrictions of fixed timetables or having to move between classrooms, this course can be combined with work and family life.

This **Advanced Master's Degree in Comprehensive Speech Therapy** contains the most complete and up-to-date program on the market. The most important features include:

- The latest technology in e-learning software
- Intensely visual teaching system, supported by graphic and schematic contents that are easy to assimilate and understand.
- The development of practical case studies presented by practising experts
- State-of-the-art interactive video systems
- Teaching supported by telepractice
- Continuous updating and retraining systems
- Self-regulated learning: full compatibility with other occupations
- Practical exercises for self-assessment and learning verification
- Support groups and educational synergies: Questions to the expert, discussion and knowledge forums
- Communication with the teacher and individual reflection work.
- Content that is accessible from any fixed or portable device with an Internet connection.
- Supplementary documentation databases are permanently available, even after the program



A high-level scientific program, supported by an advanced technological development and the teaching experience of the best professionals"



A deep and complete immersion into strategies and approaches in Comprehensive Speech Therapy"

Our teaching staff is made up of working professionals. In this way we ensure that we deliver the educational update we are aiming for. A multidisciplinary team of qualified and experienced professionals in different environments, who will develop the theoretical knowledge efficiently, but, above all, will put at the service of the specialization the practical knowledge derived from their own experience: one of the differential qualities of this Advanced Master's Degree.

This command of the subject is complemented by the effectiveness of the methodological design of this Grand Master. Developed by a multidisciplinary team of e-learning experts, it integrates the latest advances in educational technology. In this way, you will be able to study with a range of easy-to-use and versatile multimedia tools that will give you the necessary skills you need for La specialization.

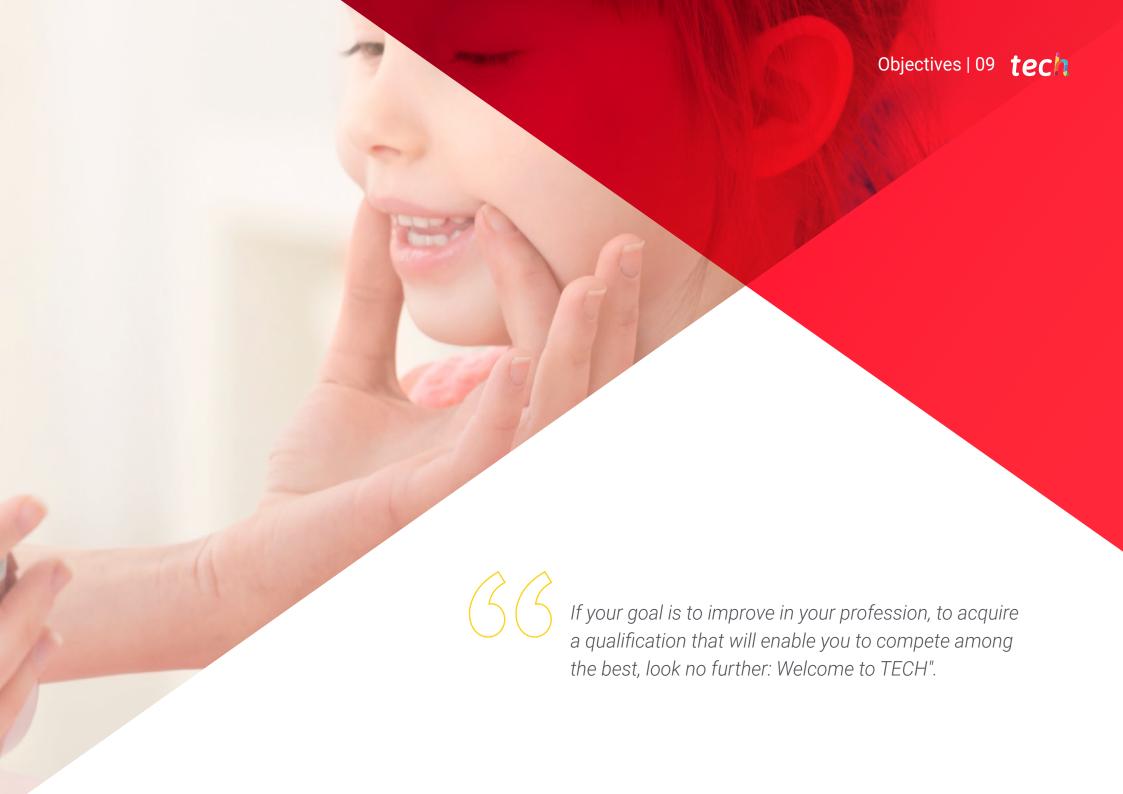
The design of this program is based on Problem-Based Learning: an approach that views learning as a highly practical process. To achieve this remotely, telepractice is used. With the help of an innovative, interactive video system and *learning from an expert*, you will be able to acquire the knowledge as if you were dealing with the case you are studying in real time. A concept that will make it possible to integrate and fix learning in a more realistic and permanent way.

A program created for professionals who aspire to excellence that will allow you to acquire new skills and strategies in a smooth and effective way.

We have the best teaching methodology and a multitude of simulated cases that will help you prepare for real situations.







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General Objectives

- Identify, assess, diagnose and effectively intervene in the different speech, language and communication disorders that have developed
- Learn the specific anatomical and functional aspects of the phonatory system as a basis for the rehabilitation of vocal pathologies and for vocal work with voice professionals
- Gain in-depth knowledge of the most current diagnostic and treatment techniques
- Delve into the knowledge and analysis of the results obtained in objective voice assessments
- Learn how to implement a correct and complete assessment of vocal function in daily clinical practice
- Know the most important features of the voice and learn to listen to different types of voices in order to know which aspects are altered to guide clinical practice
- Analyze the different possible vocal pathologies and achieve scientific rigor in treatments
- Learn about different approaches to the treatment of vocal pathologies
- Raise awareness of the need for vocal care
- Teach voice therapy work focused on different voice professionals.
- Learn the importance of multidisciplinary work in some voice pathologies
- View the voice as a global ability of the person and not as an exclusive act of the phonatory system
- Solve real case studies with current therapeutic approaches based on scientific evidence





Specific Objectives

Module 1. Basis of Speech and Language Therapy

- Delve into the concept of Speech Therapy and in the areas of action of the professionals of this discipline
- Acquire knowledge about the concept of Language and the different aspects that compose it
- Delve into the typical development of language, knowing its stages, as well as being able to identify the warning signs of language development.
- Understand and be able to classify the different Language pathologies, from the different approaches currently existing
- Know the different batteries and tests available in the discipline of Speech Therapy, to be able to carry out a correct evaluation of the different areas of Language
- Be able to develop a Speech Therapy report in a clear and precise way, both for the families and for the different professionals
- Understand the importance and effectiveness of working with an interdisciplinary team, whenever necessary and favorable for the child's rehabilitation

Module 2. Dyslalias: Assessment, Diagnosis, and Intervention

- Acquisition of the aspects involved in the articulation of the phonemes used in Spanish
- Delve into the knowledge of dyslalia and the different types of classifications and subtypes that exist
- Understand and be able to apply the processes involved in the intervention, at the same time, to acquire knowledge to be able to intervene and to make own and effective material for the different Dyslalias that can be presented

Module 3. Dyslexia: Assessment, Diagnosis, and Intervention

- Know everything involved in the evaluation process, in order to be able to carry out the most effective Speech Therapy intervention possible
- Learn about the reading process from vowels and syllables to paragraphs and complex texts
- Analyze and develop techniques for a correct reading process
- Be aware and be able to involve the family in the child's intervention, so that they are a part of the process and that this collaboration is as effective as possible

Module 4. Specific Language Disorder

- Acquire sufficient knowledge to be able to assess a Verbal Fluency Disorder
- Identify the main language disorders and their therapeutic treatment
- Knowing the need for an Intervention supported and supported by both the family and the team of teachers at the child's School

Module 5. Understanding Autism

- Contact with the disorder. Identify myths and false beliefs
- Know the different areas affected, as well as the first indicators within the therapeutic process
- Promote professional competence based on a global vision of the clinical picture; multifactorial assessment
- Provide the necessary tools for an adequate specific adaptation in each case
- Broaden the vision of the field of action; professionals and family as an active role
- The role of the speech therapist as a dynamic element in the patient with autism.

Module 6. Genetic Syndromes

• Be able to know and identify the most frequent genetic syndromes currently in use

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- In-depth knowledge about the characteristics of each of the syndromes described in the degree
- Acquire optimal knowledge to carry out a correct and functional evaluation of the different symptoms that may occur
- Delve into different intervention tools, including material and resources, both manipulatives
 and computer devices, as well as possible adaptations to be made All this, in order to
 achieve an effective and efficient intervention by the professional

Module 7. Dysphemia and/or Stuttering: Assessment, Diagnosis, and Intervention

- Know the concept of Dysphemia, including its symptoms and classification
- Be able to differentiate between Normal Dysfluency and Verbal Fluency impairment, such as Dysphemia
- Delve into in the marking of objectives and in the depth of the intervention of a Dysphemic child, in order to be able to carry out the most efficient and effective work possible
- Understand and be aware of the need to keep a record of all the sessions and everything that happens in them

Module 8. Dysarthria in Children and Adolescents

- Acquisition of the basic fundamentals of dysarthria in children and adolescents, both conceptual and classificatory, as well as the particularities and differences with other pathologies.
- Be able to differentiate the symptomatology and characteristics of verbal apraxia and dysarthria, being able to identify both pathologies by carrying out an adequate assessment process.
- Clarify the role of the speech therapist in both the assessment and intervention process, being able to apply appropriate and personalized exercises to the child
- Know the environments and contexts of development of children, being able to give adequate support in all of them and to guide the family and educational professionals in

- the rehabilitation process
- Know the professionals involved in the assessment and intervention of Dysarthric children, and the importance of collaboration with all of them during the intervention process

Module 9. Understanding Hearing Impairments

- Assimilation of the anatomy and functionality of the organs and mechanisms involved in hearing
- Deepening of the concept of Hypoacusis and the different types that exist
- Know the assessment and diagnostic tools to assess hearing loss and the importance of a multidisciplinary team to carry it out
- Be able to carry out an effective intervention in a Hypoacusia, knowing and internalizing all the phases of such intervention
- Know and understand the functioning and importance of Hearing Aids and Cochlear Implants
- Delve into Bimodal Communication and to be able to understand its functions and their importance
- Approach the world of Sign Language, knowing its history, its structure, and the importance of its existence
- Understand the role of the Interpreter in Sign Language (ILSE)

Module 10. Psychological Knowledge of Interest in the Speech Therapy Field

- Understand the area of knowledge and work of child and adolescent psychology: object of study, areas of action, etc.
- Become aware of the characteristics that a professional working with children and adolescents should have or enhance
- Acquire the basic knowledge necessary for the detection and referral of possible
 Psychological Problems in children and adolescents that may disturb the child's well-being
 and interfere in the Speech Therapy rehabilitation and to reflect on them

- Know the possible implications that different psychological problems (emotional, cognitive, and behavioral) may have on speech therapy rehabilitation
- Acquire knowledge related to attentional processes, as well as their influence on Language and intervention strategies to be carried out at the Speech Therapy level together with other professionals
- Delve into the subject of Executive Functions and to know their implications in the area of Language, as well as to acquire strategies to intervene on them at a Speech Therapy level together with other professionals
- Acquire knowledge on how to intervene at the level of Social Skills in children and adolescents, as well as to deepen in some concepts related to them, and to obtain specific strategies to enhance them
- Know different Behavior Modification strategies that are useful in consultation to achieve both the initiation, development, and generalization of appropriate behaviors, as well as the reduction or elimination of inappropriate behaviors
- Delve into the concept of motivation and to acquire strategies to promote it in consultation
- Acquire knowledge related to School failure in children and adolescents
- Know the main study habits and techniques that can help to improve the performance of children and adolescents from a Speech Therapy and Psychological point of view

Module 11. Anatomical, Physiological and Biomechanical Basics of the Voice

- ◆ Learn about the phylogenetic origin of the phonatory system
- Learn about the evolutionary development of the human larynx
- Learn the main muscles and the functioning of the respiratory system
- Learn about the main anatomical structures that make up the larynx and how they function
- Learn the histology of the vocal cords
- Analyze the vibratory cycle of the vocal cords
- Analyze the different structures and cavities that form the vocal tract
- Study the different theories that have given answers to how voice is produced

- Study the characteristics of phonatory physiology and its main components
- Gain in-depth knowledge of the different exploratory tests used in the morphofunctional exploration of the larynx
- Learn the instruments needed to perform a morphofunctional assessment of the phonatory system

Module 12. Objective Exploration of the Voice

- Analyze and understand the results obtained with objective screening tests
- Learn in which cases the performance of such objective tests is indicated or not
- Learn concepts of speech acoustics
- Learn the different observable parameters in a spectrogram
- Learn how to analyze a spectrogram
- Know how to collect voice samples for acoustic analysis
- Interpret results obtained in the acoustic analysis of the voice
- Optimally use different acoustic analysis programs

Module 13. Functional Assessment of the Voice

- Learn to listen to different types of voices with objective criteria
- Apply different audio-perceptual scales in daily practice
- Learn about the different existing vocal function assessment tests
- Know the concept of fundamental frequency and learn how to obtain it from a speech sample
- Know the phonetogram and learn to use it in daily practice
- Calculate vocal functionality indexes
- Perform a complete anamnesis based on the patient's characteristics
- Learn about additional tests that can guide us in our treatment

Module 14. Normal Voice vs. Pathological Voice

• Differentiating normal voice from pathological voice

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- Differentiate between the concepts of euphonia and dysphonia
- Learn to detect early symptoms/traits of dysphonia through listening
- Know the different types of voices and their characteristics
- Analyze the different types of functional dysphonia
- Analyze the different types of congenital organic dysphonia
- Analyze the different types of acquired organic dysphonia
- Analyze the different types of organic-functional dysphonia
- Be able to identify the observed vocal pathology in an image
- Learn how to analyze and classify a voice according to its audible acoustic features

Module 15. Medical-Surgical Treatments of Vocal Pathology

- Learn about the different existing phonosurgery techniques
- Learn about the different common laryngeal surgeries
- Be familiar with the different medications prescribed by physicians in case of dysphonia
- Give importance to teamwork in the rehabilitation of voice pathologies

Module 16. Speech Therapy for Voice Disorders

- Know when speech therapy treatment is or isn't indicated.
- Know and plan the general objectives of rehabilitation
- Know the different possible approaches in the rehabilitation approach
- Learn the basic principles of muscle conditioning
- Learn the basic principles of respiratory conditioning
- Learn the basic principles of hygiene therapy
- Learn the basic principles of confidential voice therapy
- Learn the basic principles of resonant voice therapy

- Learn the basic principles of the accent method
- Learn the basic principles of vocal function exercises
- Learn the basic principles of fluent phonation
- Learn the basic principles of Lee Silverman LSVT
- Learn the basic principles of physiological therapy
- Learn the basic principles of semi-occluded vocal tract exercises
- Learn the basic principles of manual laryngeal massage
- Learn the basic principles of facilitating sounds
- Learn the basic principles of ESTILL VOICE TRAINING
- Learn the basic principles of the PROEL method
- Learn the basic principles of the NEIRA method
- Learn the basic principles of the body-voice-movement approach
- Know how to choose the most effective therapy for each patient in relation to their specific vocal characteristics and needs

Module 17. Speech Therapy for Pathologies

- Approach rehabilitation treatment in pathologies of functional origin
- Approach rehabilitation treatment in pathologies of organic origin, both congenital and acquired
- Approach rehabilitation treatment in pathologies of organic-functional origin
- Address rehabilitative treatment in patients who underwent a laryngectomy
- Address vocal conditioning in patients attending a clinic due to gender reassignment
- Solve practical cases

Module 18. The Professional Use of the Spoken Voice

• Learn the risk groups of professional vocal pathology



- Apply a plan of hygienic measures to care for the voice
- Learn the specific objectives of vocal work for each group of professionals
- Learn to work on aspects of vocal flexibility
- Learn to work on aspects of vocal resistance
- Learn to work on the versatility of the voice required in these professional groups
- Make work proposals according to each group
- Solve practical cases
- List the components of the singing voice
- Describe the aspects of emission, articulation and intonation
- Explain the different vocal registers

Module 19. Professional Singing Voice

- Program voice therapy goals in professional singing voice
- Describe the artistic part of the process
- Explain, handle and manipulate the tone
- Explain, manage and manipulate intensity in a healthy way
- Know, handle and manipulate projection in a healthy way
- Know how to apply a vocal resistance program without damage
- Define the basis of sensorimotor learning applied to the singing voice
- Localize the muscular work in each emission
- Solve practical cases
- Define the relationship between psychology and voice
- Explain the influence of vocal aspects on non-verbal communication

Module 20. Psychology and Voice

• Explain the importance of multidisciplinary work in the prevention and treatment of voice

pathologies

- Describe the relationship between voice and emotions
- Describe the relationship between voice and stress
- Explain the different types of dysphonia in which a multidisciplinary approach is needed
- Analyze aspects of voice problem prevention from a psychological and health perspective

Module 21. Vocal Rehabilitation

- Gain in-depth knowledge of the most current diagnostic and treatment techniques
- Analyze the different possible vocal pathologies and achieve scientific rigor in treatments
- Solve real case studies with current therapeutic approaches based on scientific evidence
- Delve into the knowledge and analysis of the results obtained in objective voice assessments
- Learn about different approaches to the treatment of vocal pathologies
- Raise awareness of the need for vocal care
- View the voice as a global ability of the person and not as an exclusive act of the phonatory system

03 **Skills**

Once all the contents have been studied and the objectives of the Advanced Master's Degree in Comprehensive Speech Therapy have been achieved, the professional will have superior competence and performance in this field. A comprehensive approach, in a top-level qualification, that makes all the difference.



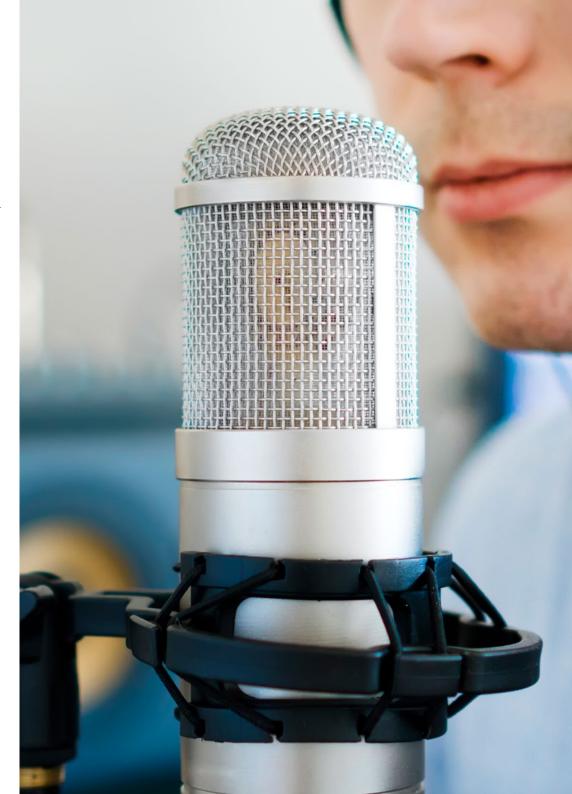


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General Skills

- Delve into concepts and logopedic procedures and each and every one of the areas of action of the professionals of this discipline
- Acquire knowledge about the dimensions of Language and Speech
- Delve into the evolutionary and normative neurodevelopmental aspects
- Understand and be able to classify the different Speech and Language Pathologies
- Acquire skills for the elaboration of Technical Reports
- Assimilate effective intervention practices from a multidisciplinary approach
- Possess and understand knowledge that provides a basis or opportunity to be original in the development and/or application of ideas, often in a research context
- Apply acquired knowledge and problem-solving skills in new or unfamiliar environments within broader (or multidisciplinary) contexts related to their field of study.
- Integrate knowledge and face the complexity of making judgments based on incomplete or limited information, including reflections on the social and ethical responsibilities linked to the application of their knowledge and judgments
- Know how to communicate conclusions, knowledge, and supporting arguments to specialized and non-specialized audiences in a clear and unambiguous way
- Acquire the learning skills that will enable them to continue studying in a manner that will be largely self-directed or autonomous





Specific Skills

- Acquisition of the aspects involved in psycholinguistic production in Spanish Language
- Delve into the knowledge of Logopathies and the different types of classifications and subtypes that exist
- Understand and be able to apply the processes involved in the intervention, as well as to
 acquire the knowledge to be able to intervene and to create their own effective material for
 the different dyslalias that may occur
- Be aware and be able to involve the family, as well as the rest of the educational agents in the whole Speech Therapy process, considering the contextual and Psychosocial variables
- Learn and integrate the use of technologies, as well as the application of Innovative Therapies and resources from other related disciplines
- Know the necessary tools for approaching daily clinical practice in an efficient way, achieving the improvement of vocal function in your patients.
- Adapt your working methodology to the individual idiosyncrasies of each patient.
- Know when to refer to other professionals or to carry out team treatments with the ultimate goal of patient benefit and improvement.
- Explore the infinite possibilities of the human voice and be able to practice them both on yourself and on your patients
- Conduct comprehensive reports on your patients' vocal function for coordination with other professionals involved in treatment.
- Self-evaluate your clinical practice, adjusting the daily work to the evolution of your patients.
- Know the characteristics of the voice and the parameters that define them.

- Interpret voices in relation to the emotions and the psychological-affective variables.
- Analyze differential variables in the use of voice according to context.
- Recognize characteristics in the use of the voice according to the profession.
- Practice different vocal registers adapted to the role.
- Describe the use of your own voice and interpret the feelings in your own body.
- Practice self-evaluating your own voice and measuring its own parameters.
- Acquire knowledge of what the phonatory apparatus is like and how it works in order to understand vocal practice.
- Understand how the voice works in relation to explanatory theories of phonation.
- Perform speech therapy intervention in all the required areas, applying principles of coherent intervention and with professional skill



Our objective is very simple: to offer you quality education, with the best teaching system available today, so that you can achieve excellence in your profession"





International Guest Director

Dr. Elizabeth Anne Rosenzweig is an internationally renowned specialist dedicated to the care of children with hearing loss. As a Speech Language Expert and Certified Therapist, she has pioneered several telepractice-based early assistance strategies of broad benefit to patients and their families.

Dr. Rosenzweig's research interests have also focused on trauma support, culturally sensitive auditory-verbal practice and personal coaching. Her active scholarly work in these areas has earned her numerous awards, including Columbia University's Diversity Research Award.

Thanks to her advanced skills, she has taken on professional challenges such as the leadership of the Edward D. Mysak Communication Disorders Clinic at Columbia University. She is also known for her academic career, having served as a professor at Columbia's Teachers College and as a collaborator with the General Institute of Health Professions. On the other hand, she is an official reviewer of publications with a high impact in the scientific community such as The Journal of Early Hearing Detection and Intervention and The Journal of Deaf Studies and Deaf Education.

In addition, Dr. Rosenzweig manages and directs the AuditoryVerbalTherapy.net project, from where she offers remote therapy services to patients located in different parts of the world. She is also a speech and audiology consultant for other specialized centers located in different parts of the world. She has also focused on developing non-profit work and participating in the Listening Without Limits Project for children and professionals in Latin America. At the same time, the Alexander Graham Bell Association for the Deaf and Hard of Hearing relies on her as its vice-president.



Dra. Rosenzweig, Elizabeth Anne

- Director of the Communication Disorders Clinic at Columbia University, New York, United States
- Professor, General Hospital Institute of Health Professions, New York, United States
- Director of Private Practice AuditoryVerbalTherapy.net
- Department Head, Yeshiva University
- Attending Specialist at Teachers College, Columbia University
- Reviewer for The Journal of Deaf Studies and Deaf Education and The Journal of Early
- Hearing Detection and Intervention
- Vice-President, Alexander Graham Bell Association for the Deaf and Hard of Hearing
- Ph.D. in Education from Columbia University
- Master's Degree in Speech Therapy from Fontbonne University
- B.S. in Communication Sciences and Communication Disorders from Texas Christian University
- Member of:
- American Speech and Language Association

- American Cochlear Implant Alliance
- National Consortium for Leadership in Sensory Impairment



Thanks to TECH you will be able to learn with the best professionals in the world"

Management



Ms. Martín Bielsa, Laura

- Speech therapist and teacher
- Expert in voice pathology
- Director of Multidisciplinary Center Dime Más
- CFP Estill Voice Training
- Extensively trained in different methods of vocal rehabilitation
- Dean of the Professional Association of Speech-Language Pathologists of Aragon



Ms. Vázquez Pérez, Maria Asunción

- Speech Therapist Specialist in Neurologopedia
- Speech therapist at Neurosens
- Speech therapist in Rehabilitation Clinic Rehasaluc
- Speech Therapist at Sendas Psychology Office
- Graduate in Speech Therapy from the University of A Coruña
- Master's Degree in Neurology Therapy

Professors

Ms. Berbel, Fina Mari

- Speech Therapist Specialist in Clinical Audiology and Hearing Therapy
- Speech therapist at the Federation of Deaf People of Alicante
- Degree in Speech Therapy from the University of Murcia
- Training in Spanish Sign Language Interpretation (LSE)

Ms. Cerezo Fernández, Ester

- Speech Therapist Specialist in Neuropsychology
- Speech Therapist at the Neurorehabilitation Clinic Paso a Paso
- Speech therapist at the San Jeronimo Residence
- Editor of Zona Hospitalaria Magazine
- Graduate in Speech Therapy from the University of Castilla-La Mancha
- Master's Degree in Clinical Neuropsychology by Iteap Institute
- Expert in Myofunctional Therapy by Euroinnova Business School
- Expert in Early Childhood Care by Euroinnova Business School
- Expert in Music Therapy by Euroinnova Business School

Ms. López Mouriz, Patricia

- General Health Psychologist
- Psychologist at FÍSICO Fisioterapia y Salud
- Psychologist Mediator at ADAFAD Association
- Psychologist at Centro Orienta
- Psychologist in Psychotécnico Abrente
- Degree in Psychology from the University of Santiago de Compostela (USC)
- Master's Degree in General Health Psychology from the University of Santiago de Compostela (USC)

• Training in Equality, Brief Therapy and Learning Difficulties in Children

Ms. Quílez Félez, Olaya

- Health Psychologist at Dime Más Multidisciplinary Center and other Health Centers in Aragon
- Master's Degree in Neuropsychology
- Collaborator in research projects with the University of Zaragoza

Ms. Corvo, Sandra

- Speech therapist
- Director of Clínica Córtex-Ciudad Rodrigo
- Master's Degree in Advances in Neurorehabilitation of Communicative and Motor Functions of the Gimbernat Cantabria School
- She is currently working on her doctoral thesis on the improvement of voice and speech in patients with Parkinson's disease by means of movement co-programming through dance

Mr. Gómez, Agustín

- Speech therapist
- Director of the Alpadif center Albacete
- Associate Professor and collaborator of the Speech Therapy Degree at the UCLM
- Diverse voice training: CFP Estill Voice Training and PROEL, among others
- Actor with more than 20 years of experience in different independent theatrical companies

Fernández Peñarroya, Raúl

- Director of the Fisyos center in Andorra
- Physiotherapist with extensive training in rehabilitation, manual therapy, fascial treatment and dry needling.

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• Research activity on aspects of physiotherapy treatment in Parkinson's disease

Ms. Mata Ares, Sandra María

- Speech Therapist Specialized in Speech Therapy Intervention in Children and Adolescents
- Speech Therapist at Sandra Comunicate Speech Therapist
- Speech therapist at Fisiosaúde
- Speech therapist at Ana Parada Multi-Purpose Center
- Speech Therapist at Psychology and Family Speech Therapist Health Center
- Graduate in Speech Therapy from the University of A Coruña
- Master's Degree in Speech Therapy Intervention in Childhood and Adolescence from the University of A Coruña

Ms. Pozo García, Susana

- Physiotherapist
- Director of the Fisyos Center in Andorra
- Osteopathic specialist with extensive training and clinical experience in myofascial induction, dry needling and lymphatic drainage
- Internship tutor at the Health Sciences University School of Zaragoza

Ms. Rico Sánchez, Rosana

- Director and Speech Therapist in the Speech Therapy and Pedagogy Center Palabras Y Más
- Speech therapist at OrientaMedia
- Speaker at specialized conferences





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- Diploma in Speech Therapy from the University of Valladolid
- Degree in Psychology from UNED
- Specialist in Alternative and/or Augmentative Communication Systems (SAAC)

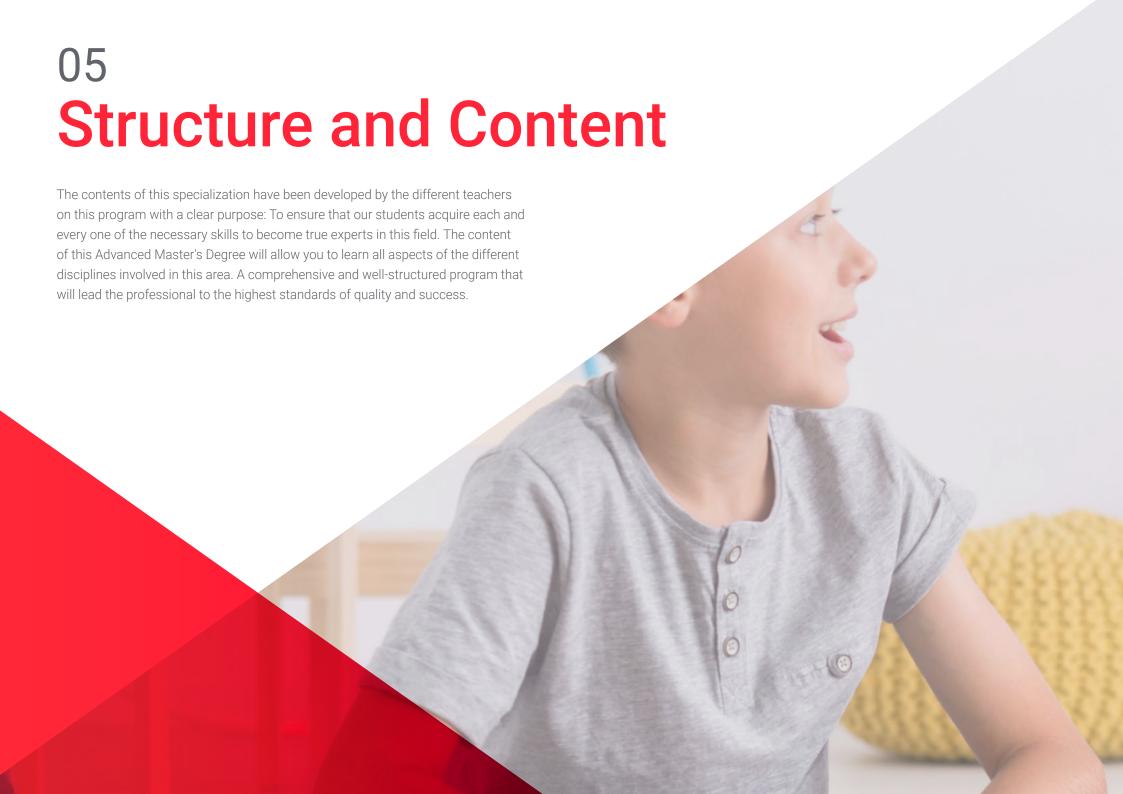
Ms. Romero Meca, Alizia

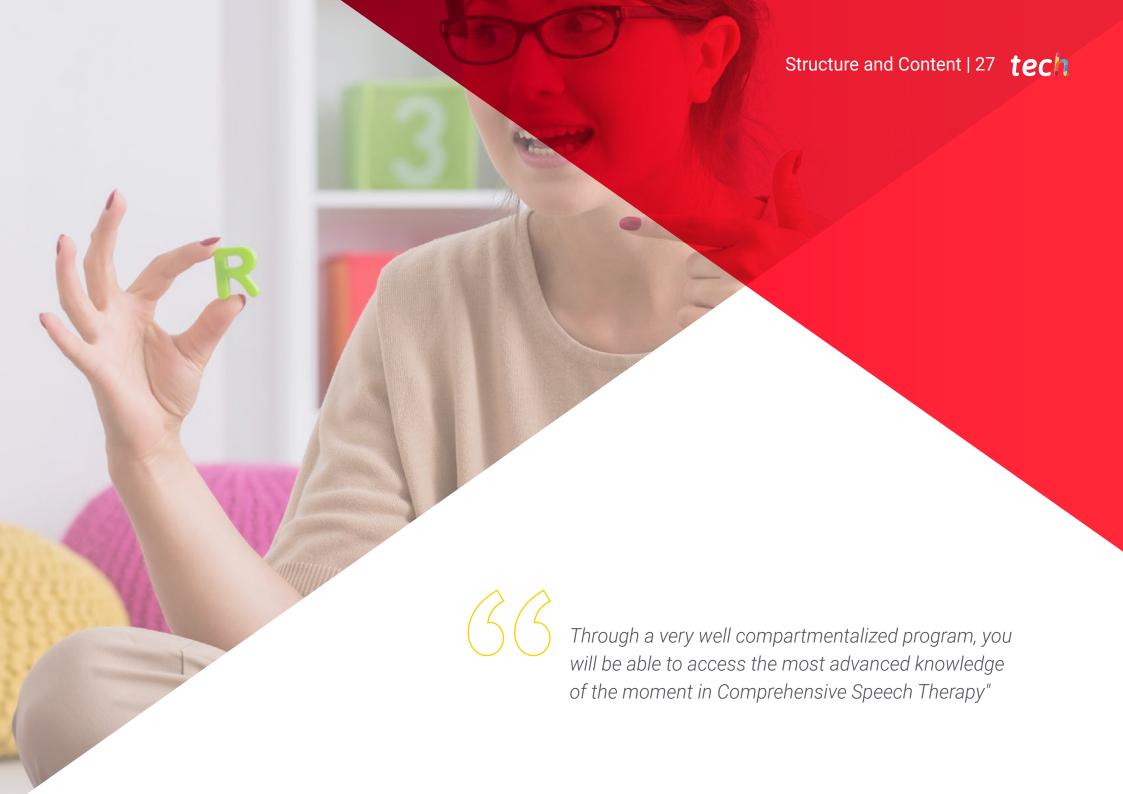
- Diploma in Music Education
- CMT Certified Teacher at Estill Voice Training
- Currently , preparing for certification as a CCI Instructor at Estill Voice Training
- Professional singer since 1996, with several tours and more than 500 performances
- Vocal Coach since 2000, teaching classes of all musical genres, levels and groups
- Director and singer of the Chamber Choir The Gospel Wave Choir

Ms. Plana González, Andrea

- Founder and Speech Therapist at Logrospedia
- Speech therapist at ClínicActiva and Amaco Salud
- Graduate in Speech Therapy from the University of Valladolid
- Master's Degree in Orofacial Motricity and Myofunctional Therapy from the Pontifical University of Salamanca





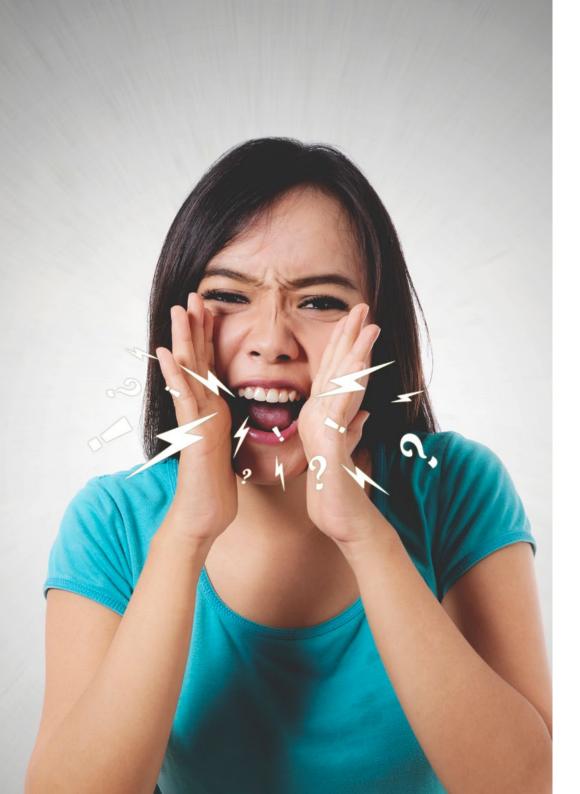


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Module 1. Basis of Speech and Language Therapy

- 1.1. Introduction to the Master's Degree and the Modules
 - 1.1.1. Introduction to the Master's Degree
 - 1.1.2. Introduction to the Module
 - 1.1.3. Previous Aspects of the Language
 - 1.1.4. History of the Study of Language
 - 1.1.5. Basic Theories of Language
 - 1.1.6. Research in Language Acquisition
 - 1.1.7. Neurological Bases of Language Development.
 - 1.1.8. Perceptual Bases in Language Development
 - 1.1.9. Social and Cognitive Bases of Language
 - 1.1.9.1. Introduction
 - 1.1.9.2. The Importance of Imitation
 - 1.1.10. Final Conclusions
- 1.2. What is Speech Therapy?
 - 1.2.1. Speech Therapy
 - 1.2.1.1. Concept of Speech Therapy
 - 1.2.1.2. Concept of Speech Therapist
 - 1.2.2. History of Speech Therapy
 - 1.2.3. Speech Therapy in Spain
 - 1.2.3.1. Importance of the Speech Therapy professional in Spain
 - 1.2.3.2. Is the Speech Therapist valued in Spain?
 - 1.2.4. Speech Therapy in the Rest of the World
 - 1.2.4.1. Importance of the Speech Therapy Professional in the Rest of the World
 - 1.2.4.2. What Are Speech Therapists Called in Other Countries?
 - 1.2.4.3. Is the figure of the Speech Therapist Valued in Other Countries?
 - 1.2.5. Functions of the Speech-Language Pathologist
 - 1.2.5.1. Functions of the Speech Therapist according to the BOE
 - 1.2.5.2. The Reality of Speech Therapy
 - 1.2.6. Areas of Intervention of the Speech Therapist
 - 1.2.6.1. Areas of Intervention According to the BOE
 - 1.2.6.2. The Reality of the Speech-Language Pathologist's areas of intervention

- 1.2.7. Forensic Speech Therapy
 - 1.2.7.1. Initial Considerations
 - 1.2.7.2. Concept of Forensic Speech Therapist
 - 1.2.7.3. The Importance of Forensic Speech Therapists
- 1.2.8. Hearing and Speech Teachers
 - 1.2.8.1. Hearing and Speech Teacher Concept
 - 1.2.8.2. Work Areas of Hearing and Speech Teachers
 - 1.2.8.3. Differences between Speech-Language Pathologist and Hearing and Speech Teachers
- 1.2.9. BORRAR
 - 1 2 9 1 Functions of the Professional Associations
 - 1.2.9.2. The Autonomous Communities
 - 1.2.9.3. Why Join a Professional Association?
- 1.2.10. Final Conclusions
- 1.3. Language, Speech, and Communication
 - 1.3.1. Preliminary Considerations
 - 1.3.2. Language, Speech, and Communication
 - 1.3.2.1. Concept of Language
 - 1.3.2.2. Concept of Speech
 - 1.3.2.3. Concept of Communication
 - 1.3.2.4. How Do they Differ?
 - 1.3.3. Language Dimensions
 - 1.3.3.1. Formal or Structural Dimension
 - 1.3.3.2. Functional Dimension
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 - 1.3.4. Theories that explain Language Development
 - 1.3.4.1. Preliminary Considerations
 - 1.3.4.2. Theory of Determinism: Whorf
 - 1.3.4.3. Theory of Behaviorism: Skinner
 - 1.3.4.4. Theory of Innatism: Chomsky
 - 1.3.4.5. Interactionist positions
 - 1.3.5. Cognitive Theories Explaining Language Development
 - 1.3.5.1. Piaget
 - 1.3.5.2. Vygotsky
 - 1.3.5.3. Luria



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- 1.3.6. Influence of the Environment on Language Acquisition
- 1.3.7. Language Components
 - 1.3.7.1. Phonetics and Phonology
 - 1.3.7.2. Semantics and Lexicon
 - 1.3.7.3. Morphosyntax
 - 1.3.7.4. Pragmatics
- 1.3.8. Stages of Language Development
 - 1.3.8.1. Prelinguistic Stage
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- 1.3.9. Summary Table of Normative Language Development
- 1.3.10. Final Conclusions
- 1.4. Communication, Speech and Language Disorders
 - 1.4.1. Introduction to the Unit
 - 1.4.2. Communication, Speech and Language Disorders
 - 1.4.2.1. Concept of Communication Disorder
 - 1.4.2.2. Concept of Speech Disorder
 - 1.4.2.3. Concept of Language Disorder
 - 1.4.2.4. How Do they Differ?
 - 1.4.3. Communication Disorders
 - 1.4.3.1. Preliminary Considerations
 - 1.4.3.2. Comorbidity with other Disorders
 - 1.4.3.3. Types of Communication Disorders
 - 1.4.3.3.1. Social Communication Disorder

 - 1.4.3.3.2. Unspecified Communication Disorder
 - 1.4.4. Speech Disorders
 - 1.4.4.1. Preliminary Considerations
 - 1.4.4.2. Origin of Speech Disorders
 - 1.4.4.3. Symptoms of a Speech Disorder
 - 1.4.4.3.1. Mild delay
 - 1.4.4.3.2. Moderate Delay
 - 1.4.4.3.3. Severe Delay

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	1.4.4.4. Warning Signs in Speech Disorders
1.4.5.	Classification of Speech Disorders
	1.4.5.1. Phonological Disorder or Dyslalia
	1.4.5.2. Dysphemia
	1.4.5.3. Diglossia
	1.4.5.4. Dysarthria
	1.4.5.5. Tachyphemia
	1.4.5.6. Others
1.4.6.	Language Disorders
	1.4.6.1. Preliminary Considerations
	1.4.6.2. Origin of Language Disorders
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	1.4.6.4. Warning Signs in Language Development
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	1.4.7.1. Receptive Language Difficulties
	1.4.7.2. Expressive Language Difficulties
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1.4.8.	Classification of Language Disorders
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	1.4.8.2. From the Educational Approach
	1.4.8.3. From the Psycholinguistic Approach
	1.4.8.4. From the Axiological point of view
1.4.9.	What Skills Are Affected in a Language Disorder?
	1.4.9.1. Social Skills
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	1.4.9.3. Other affected skills
1.4.10.	Types of Language Disorders
	1.4.10.1. TEL
	1.4.10.2. Aphasia
	1.4.10.3. Dyslexia
	1.4.10.4. Attention Deficit Hyperactivity Disorder (ADHD)
	1.4.10.5. Others

- 1.4.11. Comparative Table of Typical Development and Developmental Disturbances.
- 1.5. Logopedic Evaluation Instruments
 - 1.5.1. Introduction to the Unit
 - 1.5.2. Aspects to be Highlighted during the Logopedic Evaluation
 - 1.5.2.1. Fundamental considerations
 - 1.5.3. Evaluation of Orofacial Motor Skills: The Stomatognathic System
 - 1.5.4. Areas of Speech-Language, Speech, and Communication Speech-Language Assessment:
 - 1.5.4.1. Anamnesis (family interview)
 - 1.5.4.2. Evaluation of the Preverbal Stage
 - 1.5.4.3. Assessment of Phonetics and Phonology
 - 1.5.4.4. Assessment of Morphology
 - 1.5.4.5. Syntax Evaluation
 - 1.5.4.6. Evaluation of Semantics
 - 1.5.4.7. Evaluation of Pragmatics
 - 1.5.5. General Classification of the Most Commonly Used Tests in Speech Assessment
 - 1.5.5.1. Developmental Scales: Introduction
 - 1.5.5.2. Oral Language Assessment Tests: Introduction
 - 1.5.5.3. Test for the Assessment of Reading and Writing: Introduction
 - 1.5.6. Developmental Scales
 - 1.5.6.1. Brunet-Lézine Developmental Scale
 - 1.5.6.2. Battelle Developmental Inventory
 - 1.5.6.3. Portage Guide
 - 1.5.6.4. Haizea-Llevant
 - 1.5.6.5. Bayley scale of Child Development
 - 1.5.6.6. McCarthy Scale (Scale of Aptitudes and Psychomotor Skills for Children)
 - 1.5.7. Oral Language Assessment Test
 - 1.5.7.1. BLOC
 - 1.5.7.2. Monfort Induced Phonological Register
 - 1.5.7.3. ITPA
 - 1.5.7.4. PLON-R
 - 1.5.7.5. PEABODY
 - 1.5.7.6. RFI
 - 1.5.7.7. ALS-R
 - 1.5.7.8. EDAF

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		1.5.7.11. TSA		
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	1.5.8.	Test for Reading and Writing Assessment		
		1.5.8.1. PROLEC-R		
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	1.5.9.	Summary Table of the Different Tests		
	1.5.10.	Final Conclusions		
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	1.6.1.	Introduction to the Unit		
	1.6.2.	The Reason for the Appraisal		
		1.6.2.1. Request or Referral by the Family		
		1.6.2.2. Request or Referral by School or External Center		
	1.6.3.	Medical History		
		1.6.3.1. Anamnesis with the Family		
	1.6.3.2. Meeting with the Educational Center			
		1.6.3.3. Meeting with Other Professionals		
	1.6.4.	The Patient's Medical and Academic History		
		1.6.4.1. Medical History		
		1.6.4.1.1. Evolutionary Development		
		1.6.4.2. Academic History		
	1.6.5.	Situation of the Different Contexts		
		1.6.5.1. Situation of the Family Context		
		1.6.5.2. Situation of the Social Context		
		1.6.5.3. Situation of the School Context		
	1.6.6.	Professional Assessments		
		1.6.6.1. Assessment by the Speech Therapist		
		1.6.6.2. Assessments by other Professionals		
		1.6.6.2.1. Assessment by the Occupational Therapist		

1.6.6.2.2. Teacher Assessment

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Psychologist's Assessment Psychologist's Assessment 1.6.6.2.4. Other Assessments 1.6.7. Results of the Assessments 1.6.7.1. Logopedic Evaluation Results 1.6.7.2. Results of the other Evaluations 1.6.8. Clinical Judgment and/or Conclusions 1.6.8.1. Speech-Language Pathologist's Judgment 1.6.8.2. Judgment of Other Professionals 1.6.8.3. Judgment in Common with the Other Professionals 1.6.9. Speech Therapy Intervention Plan 1.6.9.1. Objectives to Intervene 1.6.9.2. Intervention Program 1.6.9.3. Guidelines and/or Recommendations for the Family 1.6.10. Why is it so Important to Carry Out a Speech Therapy Report? 1.6.10.1. Preliminary Considerations 1.6.10.2. Areas where a Speech Therapy Report can be Key 1.7. Speech Therapy Intervention Program 1.7.1. Introduction 1.7.1.1. The need to elaborate a Speech Therapy Intervention Program 1.7.2. What is a Speech Therapy Intervention Program? 1.7.2.1. Concept of the Intervention Program 1.7.2.2. Intervention Program Fundamentals 1.7.2.3. Speech Therapy Intervention Program Considerations 1.7.3. Fundamental Aspects for the Elaboration of a Speech Therapy Intervention Program 1.7.3.1. Characteristics of the Child 1.7.4. Planning of the Speech Therapy Intervention 1.7.4.1. Methodology of Intervention to be Carried Out 1.7.4.2. Factors to Take Into Account in the Planning of the Intervention 1.7.4.2.1. Extracurricular Activities 1.7.4.2.2. Chronological and Corrected Age of the Child

1.7.4.2.3. Number of Sessions per Week

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1.7.4.2.4. Collaboration on the Part of the Family 1.7.4.2.5. Economic Situation of the Family 1.7.5. Objectives of the Speech Therapy Intervention Program 1.7.5.1. General Objectives of the Speech Therapy Intervention Program 1.7.5.2. Specific Objectives of the Speech Therapy Intervention Program 1.7.6. Areas of Speech Therapy Intervention and Techniques for its Intervention 1.7.6.1. Voice 1.7.6.2. Speech 1.7.6.3. Prosody 1.7.6.4. Language 1.7.6.5. Reading 1.7.6.6. Writing 1.7.6.7. Orofacial 1768 Communication Environments 1.7.6.9. Hearing 1.7.6.10. Breathing 1.7.7. Materials and Resources for Speech Therapy Intervention 1.7.7.1. Proposition of Materials of Own Manufacture and Indispensable in a Speech Therapy Room 1.7.7.2. Proposition of Indispensable Materials on the Market for a Speech Therapy Room 1.7.7.3. Indispensable Technological Resources for Speech Therapy Intervention 1.7.8. Methods of Speech Therapy Intervention 1.7.8.1. Introduction 1.7.8.2. Types of Intervention Methods 1.7.8.2.1. Phonological Methods 1.7.8.2.2. Clinical Intervention Methods 1.7.8.2.3. Semantic Methods 1.7.8.2.4. Behavioral-Logopedic Methods 1.7.8.2.5. Pragmatic Methods 1.7.8.2.6. Medical Methods

1.7.8.2.7. Others 1.7.8.3. Choice of the Most Appropriate Method of Intervention for Each Subject 1.7.9. The Interdisciplinary Team 1.7.9.1. Introduction 1.7.9.2. Professionals Who Collaborate Directly with the Speech Therapist 1.7.9.2.1. Psychologists 1.7.9.2.2. Occupational Therapists 1.7.9.2.3. Professors 1.7.9.2.4. Hearing and Speech Teachers 1.7.9.2.5. Others 1.7.9.3. The Work of these Professionals in Speech-Language Pathology Intervention 1.7.10. Final Conclusions Augmentative and Alternative Communication Systems (AACS) 1.8.1. Introduction to the Unit 1.8.2. What are AACS? 1.8.2.1. Augmentative Communication System Concept 1.8.2.2. Alternative Communication System Concept 1.8.2.3. Similarities and Differences 1.8.2.4. Advantages of AACS 1.8.2.5. Disadvantages: of AACS 1.8.2.6. How do AACS arise? 1.8.3. Principles: of AACS 1.8.3.1. General Principles 1.8.3.2. False Myths about AACS 1.8.4. How to Know the Most Suitable AACS 1.8.5. Communication Support Products 1.8.5.1. Basic Support Products 1.8.5.2. Technological Support Products 1.8.6. Strategies and Support Products for Access 1.8.6.1. Direct Selection 1.8.6.2. Mouse Selection 1.8.6.3. Dependent Scanning or Sweeping

1.8.6.4. Coded Selection

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1.8.7.	Types of AACS			1.9.4.1. Concept of Family Centered Intervention
	1.8.7.1. Sign Language			1.9.4.2. How to Carry Out the Family Centered Intervention?
	1.8.7.2. The Complemented Word			1.9.4.3. The Importance of the Family-Centered Model
	1.8.7.3. PECs	1	1.9.5.	Integration of the Family in the Speech-Language Pathology Intervention
	1.8.7.4. Bimodal Communication			1.9.5.1. How to Integrate the Family into the Intervention
	1.8.7.5. Bliss System			1.9.5.2. Guidelines for the Professional
	1.8.7.6. Communicators	1	1.9.6.	Advantages of Family Integration in All Contexts of the Subject
	1.8.7.7. Minspeak			1.9.6.1. Advantages of Coordination with Educational Professionals
	1.8.7.8. Schaeffer System			1.9.6.2. Advantages of Coordination with Health Professionals
1.8.8.	How to Promote the Success of the AACS Intervention?	1	1.9.7.	Recommendations for the Family Environment
1.8.9.	Technical Aids Adapted to Each Person			1.9.7.1. Recommendations to Facilitate Oral Communication
	1.8.9.1. Communicators			1.9.7.2. Recommendations for a Good Relationship in the Family Environment
	1.8.9.2. Pushbuttons	1	1.9.8.	The Family as a Key Part in the Generalization of the Established Objectives
	1.8.9.3. Virtual Keypads			1.9.8.1. The Importance of the Family in Generalization
	1.8.9.4. Adapted Mice			1.9.8.2. Recommendations to facilitate Generalization
	1.8.9.5. Data Input Devices	1	1.9.9.	How Do I Communicate with My Child?
1.8.10.	AACS Resources and Technologies			1.9.9.1. Modifications in the Child's Family Environment
	1.8.10.1. AraBoard Builder			1.9.9.2. Advice and Recommendations from the Child
	1.8.10.2. Talk up!			1.9.9.3. The Importance of keeping a Record Sheet
	1.8.10.3. #lamVisual	1	1.9.10.	Conclusions
	1.8.10.4. SPQR 1	1.10. (Child De	evelopment in the School Context
	1.8.10.5. Dictapicto	1	1.10.1.	Introduction to the Unit
	1.8.10.6. AraWord	1	1.10.2.	The Involvement of the School Center During the Speech Therapy Intervention
	1.8.10.7. PictoSelector			1.10.2.1. The Influence of the School Center in the Child's Development
The far	nily as Part of the Intervention and Support for the Child			1.10.2.2. The Importance of the Center in the Speech Therapy Intervention
1.9.1.	Introduction	1	1.10.3.	School Supports
	1.9.1.1. The Importance of the Family in the Correct Development of the child			1.10.3.1. Concept of School Support
1.9.2.	Consequences in the Family Context of a Child with Atypical Development			1.10.3.2. Who Provides School Support in the Center?
	1.9.2.1. Difficulties Present in the Immediate Environment			1.10.3.2.1. Hearing and Speech Teacher
1.9.3.	Communication Problems in the Immediate Environment			1.10.3.2.2. Therapeutic Pedagogy Teacher (PT)
	1.9.3.1. Communicative Barriers Encountered by the Subject at Home			1.10.3.2.3. Counselor
1.9.4.	Speech Therapy intervention aimed at the Family-Centered Intervention Model	1	1.10.4.	Coordination with the Professionals of the Educational Center

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1.10.4.1. Educational Professionals with whom the Speech-Language Pathologist coordinates with 1.10.4.2. Basis for Coordination 1.10.4.3. The Importance of Coordination in the child's Development 1.10.5. Consequences of the Child with Special Educational Needs in the classroom 1.10.5.1. How the Child Communicates with Teachers and Students 1.10.5.2. Psychological Consequences 1.10.6. School Needs of the Child 1.10.6.1. Taking Educational Needs into Account in Intervention 1.10.6.2. Who determines the child's Educational Needs? 1.10.6.3. How Are They Established 1.10.7. The Different Types of Education in Spain 1.10.7.1. Normal School 1.10.7.1.1. Concept 1.10.7.1.2. How Does it Benefit the Child with Special Educational Needs? 1.10.7.2. Special Education School 1.10.7.2.1. Concept 1.10.7.2.2. How Does it Benefit the Child with Special Educational Needs? 1.10.7.3. Combined Education 1.10.7.3.1. Concept 1.10.7.3.2. How Does it Benefit the Child with Special Educational Needs? 1.10.8. Methodological bases for Classroom Intervention. 1.10.8.1. Strategies to favor the child's Integration 1.10.9. Curricular Adaptation 1.10.9.1. Concept of Curricular Adaptation

1.10.9.2. Professionals who Apply it 1.10.9.3. How Does it Benefit the Child with Special Educational Needs? 1.10.10. Conclusions

Module 2. Dyslalias: Assessment, Diagnosis, and Intervention

	u. u	by Grander, Recessiverit, Braginesis, and meer
2.1.	Module	Presentation
	2.1.1.	Introduction
2.2.	Introdu	ction to Dyslalia
	2.2.1.	What are Phonetics and Phonology?
		2.2.1.1. Basic Concepts
		2.2.1.2. Phonemes
	2.2.2.	Classification of Phonemes
		2.2.2.1. Preliminary Considerations
		2.2.2.2. According to the Point of Articulation
		2.2.2.3. According to the Mode of Articulation
	2.2.3.	Speech Emission
		2.2.3.1. Aspects of Sound Emission
		2.2.3.2. Mechanisms Involved in Speech
	2.2.4.	Phonological Development
		2.2.4.1. The Implication of Phonological Awareness
	2.2.5.	Organs Involved in Phoneme Articulation
		2.2.5.1. Breathing Organs
		2.2.5.2. Organs of Articulation
		2.2.5.3. Organs of Phonation

2.2.6.1. Etymology of the Term 2.2.6.2. Concept of Dyslalia

2.2.7.1. Preliminary Considerations2.2.7.2. Characteristics of Adult Dyslalia

2.2.6. Dyslalias

2.2.7. Adult Dyslalia

	2.2.7.3. What Is the Difference between Childhood Dyslalia and Adult Dyslalia?		2.3.5.	Classification of Dyslalia based on Linguistic Level
2.2.8.	Comorbidity			2.3.5.1. Phonetic Dyslalia
	2.2.8.1. Comorbidity in Dyslalia			2.3.5.2. Phonological Dyslalia
	2.2.8.2. Associated Disorders			2.3.5.3. Mixed Dyslalia
2.2.9.	Prevalence		2.3.6.	Classification of Dyslalia according to the Phoneme involved.
	2.2.9.1. Preliminary Considerations			2.3.6.1. Hotentotism
	2.2.9.2. The Prevalence of Dyslalia in the PreSchool Population			2.3.6.2. Altered Phonemes
	2.2.9.3. The Prevalence of Dyslalia in the School Population		2.3.7.	Classification of Dyslalia according to the number of errors and their persistence
2.2.10.	Final Conclusions			2.3.7.1. Simple Dyslalia
Etiolog	y and Classification of Dyslalias			2.3.7.2. Multiple Dyslalias
2.3.1.	Etiology of Dyslalias			2.3.7.3. Speech Delay
	2.3.1.1. Preliminary Considerations		2.3.8.	The Classification of Dyslalias according to the type of error
	2.3.1.2. Poor Motor Skills			2.3.8.1. Omission
	2.3.1.3. Respiratory Difficulties			2.3.8.2. Addiction/Insertion
	2.3.1.4. Lack of Comprehension or Auditory Discrimination			2.3.8.3. Substitution
	2.3.1.5. Psychological Factors			2.3.8.4. Inversions
	2.3.1.6. Environmental Factors			2.3.8.5. Distortion
	2.3.1.7. Hereditary Factors			2.3.8.6. Assimilation
	2.3.1.8. Intellectual Factors		2.3.9.	Classification of Dyslalia in Terms of Temporality
2.3.2.	Classification of Dyslalias according to Etiological Criteria			2.3.9.1. Permanent Dyslalias
	2.3.2.1. Organic Dyslalias			2.3.9.2. Transient Dyslalias
	2.3.2.2. Functional Dyslalias		2.3.10.	Final Conclusions
	2.3.2.3. Developmental Dyslalias	2.4.	Assess	ment Processes for the Diagnosis and Detection of Dyslalia
	2.3.2.4. Audiogenic Dyslalias		2.4.1.	Introduction to the Structure of the Assessment Process
2.3.3.	The classification of Dyslalias according to Chronological Criteria		2.4.2.	Medical History
	2.3.3.1. Preliminary Considerations			2.4.2.1. Preliminary Considerations
	2.3.3.2. Speech Delay			2.4.2.2. Content of the Anamnesis
	2.3.3.3. Dyslalia			2.4.2.3. Aspects to emphasize of the Anamnesis
2.3.4.	Classification of Dyslalia according to the Phonological Process involved.		2.4.3.	Articulation
	2.3.4.1. Simplification			2.4.3.1. In Spontaneous Language
	2.3.4.2. Assimilation			2.4.3.2. In Repeated Speech
	2.3.4.3. Syllable Structure			2.4.3.3. In Directed Language

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2.4.4.	Motor Skills		2.5.4.	Direct intervention in children with Dyslalia
	2.4.4.1. Key Elements			2.5.4.1. Concept of Direct Intervention
	2.4.4.2. Orofacial Motor Skills			2.5.4.2. Who Is the Focus of this Intervention?
	2.4.4.3. Muscle Tone			2.5.4.3. The importance of Direct Intervention for Dyslexic Children
2.4.5.	Auditory Perception and Discrimination		2.5.5.	Indirect Intervention for Children with Dyslalia
	2.4.5.1. Sound Discrimination			2.5.5.1. Concept of Indirect Intervention
	2.4.5.2. Phoneme Discrimination			2.5.5.2. Who Is the Focus of this Intervention?
	2.4.5.3. Word Discrimination			2.5.5.3. The Importance of Carrying Out Indirect Intervention in Dyslexic Children.
2.4.6.	Speech Samples		2.5.6.	The Importance of Play During Rehabilitation
	2.4.6.1. Preliminary Considerations			2.5.6.1. Preliminary Considerations
	2.4.6.2. How to Collect a Speech Sample			2.5.6.2. How to Use Games for Rehabilitation
	2.4.6.3. How to Make a Record of the Speech Samples?			2.5.6.3. Adaptation of Games to Children, Necessary or Not?
2.4.7.	Standardized tests for the Diagnosis of Dyslalia		2.5.7.	Auditory Discrimination
	2.4.7.1. What Are Standardized Tests?			2.5.7.1. Preliminary Considerations
	2.4.7.2. Purpose of Standardized Tests			2.5.7.2. Concept of Auditory Discrimination
	2.4.7.3. Classification			2.5.7.3. When Is the Right Time During the Intervention to Include Auditory
2.4.8.	Non-Standardized Tests for the Diagnosis of Dyslalias			Discrimination?
	2.4.8.1. What are Non-Standardized Tests? 2.4.8.2. Purpose of Non-Standardized Tests		2.5.8.	Making a Schedule
				2.5.8.1. What is a Schedule?
	2.4.8.3. Classification			2.5.8.2. Why Should a Schedule Be Used in the Speech Therapy Intervention of
2.4.9.	Differential Diagnosis of Dyslalia			the Dyslexic Child?
2.4.10.	Final Conclusions		0.50	2.5.8.3. Benefits of Making a Schedule
User-ce	entered Speech-Language Pathology Intervention		2.5.9.	Requirements to Justify Discharge
2.5.1.	Introduction to the Unit			Final Conclusions
2.5.2.	How to Set Goals during the Intervention	2.6.		mily as a Part of the Intervention of the Dysbalic Child
	2.5.2.1. General Considerations			Introduction to the Unit
	2.5.2.2. Individualized or Group Intervention, which is more effective?		2.6.2.	Communication Problems with the Family Environment
	2.5.2.3. Specific Objectives that the Speech-Language Pathologist Has to Take into Account for the Intervention of Each Dyslalia			2.6.2.1. What Difficulties does the Dyslexic Child Encounter in their Family Environment to Communicate?
2.5.3.	Structure to be followed during Dyslalia Intervention		2.6.3.	Consequences of Dyslalias in the Family
2.0.0.	2.5.3.1. Initial Considerations			2.6.3.1. How Does Dyslalias Influence the Child in their Home
	2.5.3.2. What is the order of Intervention for Dyslalia?			2.6.3.2. How Does Dyslalias Influence the Child's Family?
	2.5.3.3. In Multiple Dyslalia, which Phoneme would the Speech-Language		2.6.4.	Family Involvement in the Development of the Dyslalic Child.
	Pathologist Start Working on and What Would Be the Reason?			2.6.4.1. The Importance of the Family in the Child's Development

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	2.6.4.2. How to Involve the Family in the Intervention		2.7.8.	The School as an Enabling Environment
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- 3.10.10. Conclusions and Appendices

Module 4. Specific Language Disorder

- 4.1. Background Information
 - 4.1.1. Module Presentation
 - 4.1.2. Module Objectives
 - 4.1.3. Historical Evolution of SLD
 - 4.1.4. Late Language Onset vs. SLD SLD
 - 4.1.5. Differences between SLD and Language Delay
 - 4.1.6. Difference between ASD and SLD
 - 4.1.7. Specific Language Disorder vs. Aphasia
 - 4.1.8. SLD as a predecessor of Literacy Disorders
 - 4.1.9. Intelligence and Specific Language Disorder
 - 4.1.10. Prevention of Specific Language Disorder
- 4.2. Approach to the Specific Language Disorder
 - 4.2.1. Definition of SLD
 - 4.2.2. General characteristics of SLD
 - 4.2.3. Prevalence of SLD
 - 4.2.4. Prognosis of SLD
 - 4.2.5. Etiology of SLD
 - 4.2.6. Clinically Based Classification of SLD
 - 4.2.7. Empirically Based Classification of SLD
 - 4.2.8. Empirical-Clinical Based Classification of SLD
 - 4.2.9 SLD Comorbidities
 - 4.2.10. SLD, not only a Difficulty in the Acquisition and Development of Language.
- 4.3. Linguistic Characteristics in Specific Language Disorder
 - 4.3.1. Concept of Linguistic Capabilities
 - 4.3.2. General Linguistic Characteristics

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- 4.3.3. Linguistic Studies in SLD in Different Languages
- 4.3.4. General Alterations in Language Skills Presented by People with SLD
- 4.3.5. Grammatical Characteristics in SLD
- 4.3.6. Narrative Features in SLD
- 4.3.7. Pragmatic Features in SLD
- 4.3.8. Phonetic and Phonological Features in SLD
- 4.3.9. Lexical Features in SLD
- 4.3.10. Preserved Language Skills in SLD
- 4.4. Terminological Change
 - 4.4.1. Changes in the Terminology of SLD
 - 4.4.2. Classification According to DSM
 - 4.4.3. Changes Introduced in the DSM
 - 4.4.4. Consequences of Changes in Classification with the DSM.
 - 4.4.5. New Nomenclature: Language Disorder
 - 4.4.6. Characteristics of Language Disorder
 - 4.4.7. Main Differences and Concordances between SLD and SL
 - 4.4.8. Altered Executive Functions in SLD
 - 4.4.9. Preserved Executive Functions in SL
 - 4.4.10. Detractors of Terminology Change
- 4.5. Assessment in Specific Language Disorder
 - 4.5.1. Speech-Language Evaluation: Prior Information
 - 4.5.2. Early identification of SLD: Prelinguistic Predictors
 - 4.5.3. General Considerations to take into account in the Speech Therapy Evaluation of SLD
 - 4.5.4. Principles of Evaluation in Cases of SLD
 - 4.5.5. The Importance and Objectives of Speech-Language Pathology Assessment in SLD
 - 4.5.6 Evaluation Process of SLD

- 4.5.7. Assessment of Language, Communicative Skills and Executive Functions in SLD
- 4.5.8. Evaluation Instrument of SLD
- 4.5.9. Interdisciplinary Evaluation
- 4.5.10 Diagnosis of SLD
- 4.6. interventions in Specific Language Disorder
 - 4.6.1. The Speech Therapy Intervention
 - 4.6.2. Basic Principles of Speech Therapy Intervention
 - 4.6.3. Environments and Agents of Intervention in SLD
 - 4.6.4. Intervention Model in Levels
 - 4.6.5. Early Intervention in SLD
 - 4.6.6. Importance of Intervention in SLD
 - 4.6.7. Music Therapy in the intervention of SLD
 - 4.6.8. Technological Resources in the Intervention of SLD
 - 4.6.9. Intervention in the Executive Functions in SLD
 - 4.6.10. Multidisciplinary Intervention in SLD
- 4.7. Elaboration of a Speech Therapy Intervention Program for Children with Specific Language Disorder
 - 4.7.1. Speech Therapy Intervention Program
 - 4.7.2. Approaches on SLD to design an Intervention Program
 - 4.7.3. Objectives and Strategies of SLD Intervention Programs
 - 4.7.4. Indications to Follow in the Intervention of Children with SLD
 - 4.7.5. Comprehension Treatment
 - 4.7.6. Treatment of Expression in cases of SLD
 - 4.7.7. Intervention in Reading and Writing
 - 4.7.8. Social Skills Training in SLD
 - 4.7.9. Agents and Timing of Intervention in cases of SLD
 - 4.7.10. SAACs in the Intervention in cases of SLD
- 4.8. The School in Cases of Specific Language Disorder
 - 4.8.1. The School in Child Development
 - 4.8.2. School Consequences in children with SLD
 - 4.8.3. Schooling of Children with SLD
 - 4.8.4. Aspects to Take into Account in School Intervention.
 - 4.8.5. Objectives of School Intervention in Cases of SLD
 - 4.8.6. Guidelines and Strategies for Classroom Intervention with Children with SLD

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- 4.8.7. Development and Intervention in Social Relationships within the School
- 4.8.8. Dynamic Playground Program
- 4.8.9. The School and the Relationship with Other Intervention Agents.
- 4.8.10. Observation and Monitoring of School Intervention
- 4.9. The Family and Its Intervention in Cases of Children with Specific Language Disorder
 - 4.9.1. Consequences of SLD in the Family Environment
 - 4.9.2. Family Intervention Models
 - 4.9.3. General Considerations to Be Taken into Account
 - 4.9.4. The importance of Family Intervention in SLD
 - 4.9.5. Family Orientations
 - 4.9.6. Communication Strategies for the Family
 - 4.9.7. Needs of Families of Children with SLD
 - 4.9.8. The Speech Therapist in the Family Intervention
 - 4.9.9. Objectives of the Family Speech Therapy Intervention in the SLD
 - 4.9.10. Follow-up and Timing of the Family Intervention in SLD
- 4.10. Associations and Support Guides for Families and Schools of Children with SLD
 - 4.10.1. Parent Associations
 - 4.10.2. Information Guides
 - 4.10.3. AVATEL
 - 4.10.4. ATELMA
 - 4.10.5. ATELAS
 - 4.10.6. ATELCA
 - 4.10.7. ATEL CLM
 - 4.10.8. Other Associations
 - 4.10.9. SLD Guides aimed at the Educational Field
 - 4.10.10. SLD Guides and Manuals aimed at the Family Environment

Module 5. Understanding Autism

- 5.1. Temporal Development in Its Definition
 - 5.1.1. Theoretical Approaches to ASD 5.1.1.1. Early Definitions

- 5.1.1.2. Evolution throughout History
- 5.1.2. Current Classification of Autism Spectrum Disorder
 - 5.1.2.1. Classification according to DSM-IV
 - 5.1.2.2. DSM-V Definition
- 5.1.3. Table of Disorders Pertaining to ASD
 - 5.1.3.1. Autism Spectrum Disorder
 - 5.1.3.2. Asperger's Disorder
 - 5.1.3.3. Rett's Disorder
 - 5.1.3.4. Childhood Disintegrative Disorder
 - 5.1.3.5. Pervasive Developmental Disorder
- 5.1.4. Comorbidity with other Pathologies
 - 5.1.4.1. ASD and ADHD (Attention and/or Hyperactivity Disorder)
 - 5.1.4.2. ASD AND HF (High Functioning)
 - 5.1.4.3. Other Pathologies of Lower Associated Percentage
- 5.1.5. Differential Diagnosis of Autism Spectrum Disorder
 - 5.1.5.1. Non-Verbal Learning Disorder.
 - 5.1.5.2. NPDD (Perturbing Disorder Not Predetermined)
 - 5.1.5.3. Schizoid Personality Disorder
 - 5.1.5.4. Affective and Anxiety Disorders
 - 5.1.5.5. Tourette's Disorder
 - 5.1.5.6. Representative Table of Specified Disorders
- 5.1.6. Theory of Mind
 - 5.1.6.1. The Senses
 - 5.1.6.2. Perspectives
 - 5.1.6.3. False Beliefs
 - 5.1.6.4. Complex Emotional States
- 5.1.7. Weak Central Coherence Theory
 - 5.1.7.1. Tendency of Children with ASD to Focus their Attention on Details in Relation to the Whole
 - 5.1.7.2. First Theoretical Approach (Frith, 1989)
 - 5.1.7.3. Central Coherence Theory Today (2006)
- 5.1.8. Theory of Executive Dysfunction
 - 5.1.8.1. What Do We Know as "Executive Functions"?
 - 5.1.8.2. Planning

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	5.1.8.3. Cognitive Flexibility
	5.1.8.4. Response Inhibition
	5.1.8.5. Mentalistic Skills
	5.1.8.6. Sense of Activity
5.1.9.	Systematization Theory
	5.1.9.1. Explanatory Theories Put Forth by Baron-Cohen, S
	5.1.9.2. Types of Brain
	5.1.9.3. Empathy Quotient (EQ)
	5.1.9.4. Systematization Quotient (SQ)
	5.1.9.5. Autism Spectrum Quotient (ASQ)
5.1.10.	Autism and Genetics
	5.1.10.1. Causes Potentially Responsible for the Disorder
	5.1.10.2. Chromosomopathies and Genetic Alterations
	5.1.10.3. Repercussions on Communication
Detection	on
5.2.1.	Main Indicators in Early Detection
	5.2.1.1. Warning Signs
	5.2.1.2. Warning Signs
5.2.2 C	ommunicative Domain in Autism Spectrum Disorder
	5.2.2.1. Aspects to Take into Account
	5.2.2.2. Warning Signs
5.2.3.	Sensorimotor Area
	5.2.3.1. Sensory Processing
	5.2.3.2. Dysfunctions in Sensory Integration
5.2.4.	•
	5.2.4.1. Persistent Difficulties in Social Interaction.
	5.2.4.2. Restricted Patterns of Behavior
5.2.5.	Evaluation Process
	5.2.5.1. Developmental Scales
	5.2.5.2. Tests and Questionnaires for Parents
	5.2.5.3. Standardized Tests for Evaluation by the Professional.
5.2.6.	Data Collection
	5.2.6.1. Instruments used for Screening

5.2.

		5.2.6.2. Case Studies M-CHAT
		5.2.6.3. Standardized Tests
	5.2.7.	In-session Observation
		5.2.7.1. Aspects to Take into Account within the Session
	5.2.8.	Final Diagnosis
		5.2.8.1. Procedures to Be Followed
		5.2.8.2. Proposed Therapeutic Plan
	5.2.9.	Preparation of the Intervention Process
		5.2.9.1. Strategies for Intervention on ASD in Early Care
	5.2.10.	Scale for the Detection of Asperger's Syndrome
		5.2.10.1. Stand-Alone Scale for the Detection of Asperger Syndrome and High-Functioning Autism (HF) 5.3.
5.3.	Identific	cation of Specific Difficulties
	5.3.1.	Protocol to Be Followed
		5.3.1.1. Factors to Consider
	5.3.2.	Needs Assessment based on Age and Developmental Level
		5.3.2.1. Protocol for Screening from 0 to 3 years of age
		5.3.2.2. M-CHAT-R Questionnaire. (16-30 months)
		5.3.2.3. Follow-up Interview M-CHAT-R/F
	5.3.3.	Fields of Intervention
		5.3.3.1. Evaluation of the Effectiveness of Psychoeducational Intervention
		5.3.3.2. Clinical Practice Guideline Recommendations
		5.3.3.3. Main Areas of Potential Work
	5.3.4.	Cognitive Area
		5.3.4.1. Mentalistic Skills Scale
		5.3.4.2. What Is It? How Do We Apply this Scale in ASD?
	5.3.5.	Communication Area
		5.3.5.1. Communication Skills in ASD
		5.3.5.2. We Identify the Demand Based on Developmental Level
		5.3.5.3. Comparative Tables of Development with ASD and Normotypical Development
	5.3.6.	Eating Disorders
		5.3.6.1. Intolerance Chart

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		5.3.6.2. Aversion to Textures			5.4.7.4. Aspects to Take into Account
		5.3.6.3. Eating Disorders in ASD		5.4.8.	School Age
	5.3.7.	Social Area			5.4.8.1. Main Aspects to Consider
		5.3.7.1. SCERTS (Social-Communication, Emotional Regulation, and Transactional			5.4.8.2. Open Communication with the Teaching Staff
		Support)			5.4.8.3. Types of Schooling
	5.3.8.	Personal Autonomy		5.4.9.	Educational Environment
		5.3.8.1. Daily Living Therapy			5.4.9.1. Bullying
	5.3.9.	Competency Assessment			5.4.9.2. Emotional Impact
		5.3.9.1. Strengths		5.4.10.	Warning Signs
		5.3.9.2. Reinforcement-Based Intervention			5.4.10.1. Guidelines for Action
	5.3.10.	Specific Intervention Programs			5.4.10.2. Conflict Resolution
		5.3.10.1. Case Studies and their Results	5.5.	Commi	unication Systems
		5.3.10.2. Clinical Discussion		5.5.1.	Available Tools
.4.	Commi	unication and Language in Autism Spectrum Disorder			5.5.1.1. ICT Tools for Children with Autism
	5.4.1.	Stages in the Development of Normotypical Language			5.5.1.2. Augmentative and Alternative Communication Systems (AACS)
		5.4.1.1. Comparative Table of Language Development in Patients with and without ASD.		5.5.2.	Communication Intervention Models
		5.4.1.2. Specific Language Development in Autistic Children			5.5.2.1. Facilitated Communication (FC)
	5.4.2.	Communication Deficits in ASD			5.5.2.2. Verbal Behavioral Approach (VB)
		5.4.2.1. Aspects to Take into Account in the Early Stages of Development		5.5.3.	Alternative and/or Augmentative Communication Systems
		5.4.2.2. Explanatory Table with Factors to Take into Account During these Early			5.5.3.1. PEC's (Picture Exchange Communication System)
	F 4.0	Stages			5.5.3.2. Benson Schaeffer Total Signed Speech System
	5.4.3.	Autism and Language Pathology			5.5.3.3. Sign Language
	ГЛЛ	5.4.3.1. ASD and Dysphasia			5.5.3.4. Bimodal System
	5.4.4.	Preventive Education		5.5.4.	Alternative Therapies
	ГЛГ	5.4.4.1. Introduction to Prenatal Infant Development			5.5.4.1. Hotchpotch
	5.4.5.	From 0 to 3 Years Old			5.5.4.2. Alternative Medicines
		5.4.5.1. Developmental Scales			5.5.4.3. Cognitive-Behavioral
	E 16	5.4.5.2. Implementation and Monitoring of Individualized Intervention Plans (IIP).		5.5.5.	Choice of System
	5.4.6.	CAT Means-Methodology			5.5.5.1. Factors to Consider
	5.4.7.	5.4.6.1. Nursery School (NS)			5.5.5.2. Decision Making
	5.4.7.	From 3 to 6 years old		5.5.6.	Scale of Objectives and Priorities to Be Developed
		5.4.7.1. Schooling in Normal Center 5.4.7.2. Coordination of the Professional with the Follow-up by the Pediatrician and			5.5.6.1. Assessment, Based on the Resources Available to the Student, of t
		Neuropediatrician			System Best Suited to Their Capabilities
		5.4.7.3. Communication Skills to be Developed within this Age Range.		5.5.7.	Identification of the Appropriate System

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		5.5.7.1. We implement the most appropriate Communication System or Therapy taking into Account the Strengths of the Patient.		5.6.9.	Support for University Integration of Grade I ASD
	5.5.8.	Implementation.			5.6.9.1. Best Practices for Supporting Students in Higher Education
	0.0.6.	5.5.8.1. Planning and Structuring of the Sessions		5.6.10.	Positive Behavioral Reinforcement
		5.5.8.2. Duration and Timing			5.6.10.1. Program Structure
		5.5.8.3. Evolution and Estimated Short-Term Objectives			5.6.10.2. Guidelines to Follow to Carry Out the Method
	E E O		5.7.		ional Materials and Resources
	5.5.9.	Monitoring		5.7.1.	What Can We Do as Speech Therapists?
		5.5.9.1. Longitudinal Evaluation 5.5.9.2. Re-Evaluation Over Time			5.7.1.1. Professional as an Active Role in the Development and Continuous
	F F 10			F 7 0	Adaptation of Materials
	5.5.10.	Adaptation Over Time		5.7.2.	List of Adapted Resources and Materials
		5.5.10.1. Restructuring of Objectives based on Demanded Needs			5.7.2.1. What should I consider?
		5.5.10.2. Adaptation of the Intervention According to the Results Obtained			5.7.2.2. Brainstorming
5.6.		ation of an Intervention Program		5.7.3.	Methods
	5.6.1.	Identification of Needs and Selection of Objectives			5.7.3.1. Theoretical Approach to the Most Commonly Used Methods
		5.6.1.1. Early Care Intervention Strategies			5.7.3.2. Functionality Comparative Table with the Methods Presented
		5.6.1.2. Denver Model		5.7.4.	TEACHH Program
	5.6.2.	Analysis of Objectives based on Developmental Levels			5.7.4.1. Educational Principles based on this Method
		5.6.2.1. Intervention Program to Strengthen Communicative and Linguistic Areas			5.7.4.2. Characteristics of Autism as a Basis for Structured Teaching.
	5.6.3.	Development of Preverbal Communicative Behaviors		5.7.5.	INMER Program
		5.6.3.1. Applied Behavior Analysis			5.7.5.1. Fundamental Bases of the Program Main Function
	5.6.4.	Bibliographic Review of Theories and Programs in Childhood Autism.			5.7.5.2. Virtual Reality Immersion System for People with Autism
		5.6.4.1. Scientific Studies with Groups of Children with ASD		5.7.6.	ICT-mediated Learning
		5.6.4.2. Results and Final Conclusions Based on the Proposed Programs			5.7.6.1. Software for Teaching Emotions
	5.6.5.	School Age			5.7.6.2. Applications that favour Language Development
		5.6.5.1. Educational Inclusion		5.7.7.	Development of Materials
		5.6.5.2. Global Reading as a Facilitator of Integration in the Classroom			5.7.7.1. Sources Used
	5.6.6.	Adulthood			5.7.7.2. Image Banks
		5.6.6.1. How to Intervene/Support in Adulthood			5.7.7.3. Pictogram Banks
		5.6.6.2. Elaboration of a Specific Program			5.7.7.4. Recommended Materials
	5.6.7.	Behavioral Intervention		5.7.8.	Free Resources to Support Learning
		5.6.7.1. Applied Behavior Analysis (ABA)			5.7.8.1. List of Reinforcement Pages with Programs to Reinforce Learning
		5.6.7.2. Training of Separate Trials		5.7.9.	SPC
	5.6.8.	Combined Intervention			5.7.9.1. Access to the Pictographic Communication System
		5.6.8.1. The TEACCH Model			

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		5.7.9.2. Methodology			5.9.1.2. Curricular Adaptation
		5.7.9.3. Main Function		5.9.2.	School Inclusion
	5.7.10.	Implementation.			5.9.2.1. We All Add Up
		5.7.10.1. Selection of the Appropriate Program			5.9.2.2. How to Help from our Role as Speech-Language Pathologists
		5.7.10.2. List of Benefits and Disadvantages		5.9.3.	Characteristics of Students with ASD
.8.	Adaptin	ng the Environment to the Student with Autism Spectrum Disorder			5.9.3.1. Restricted Interests
	5.8.1.	General Considerations to Be Taken into Account			5.9.3.2. Sensitivity to the Context and its Constraints
		5.8.1.1. Possible Difficulties within the Daily Routine		5.9.4.	Characteristics of Students with Asperger's
	5.8.2.	Implementation of Visual Aids			5.9.4.1. Potentialities
		5.8.2.1. Guidelines to Have at Home for Adaptation			5.9.4.2. Difficulties and Repercussions at the Emotional Level
	5.8.3.	Classroom Adaptation			5.9.4.3. Relationship with the Peer Group
		5.8.3.1. Inclusive Teaching		5.9.5.	Placement of the Student in the Classroom
	5.8.4.	Natural Environment			5.9.5.1. Factors to Be Taken into Account for Proper Student Performance
		5.8.4.1. General Guidelines for Educational Response		5.9.6.	Materials and Supports to Consider
	5.8.5.	Intervention in Autism Spectrum Disorders and other Severe Personality Disorders			5.9.6.1. External Support
	5.8.6.	Curricular Adaptations of the Center			5.9.6.2. Teacher as a Reinforcement Element within the Classroom
		5.8.6.1. Heterogeneous Groupings		5.9.7.	Assessment of Task Completion Times
	5.8.7.	Adaptation of Individual Curricular Needs			5.9.7.1. Application of Tools such as Anticipators or Timers
		5.8.7.1. Individual Curricular Adaptation		5.9.8.	Inhibition Times
		5.8.7.2. Limitations			5.9.8.1. Reduction of inappropriate Behaviors through Visual Support
	5.8.8.	Curricular Adaptations in the Classroom			5.9.8.2. Visual Schedules
		5.8.8.1. Cooperative Education			5.9.8.3. Time-Outs
		5.8.8.2. Cooperative Learning		5.9.9.	Hypo- and Hypersensitivity
	5.8.9.	Educational Responses to the Different Needs Demanded			5.9.9.1. Noise Environment
		5.8.9.1. Tools to Be Taken into Account for Effective Teaching			5.9.9.2. Stress-generating Situations
	5.8.10.	Relationship with the Social and Cultural Environment		5.9.10.	Anticipation of Conflict Situations
		5.8.10.1. Habits-Autonomy			5.9.10.1. Back to School Time of Entry and Exit
		5.8.10.2. Communication and Socialization			5.9.10.2. Canteen
5.9.	School	Context			5.9.10.3. Vacations
	5.9.1.	Classroom Adaptation	5.10.	Conside	erations to Be Taken into Account with Families
		5.9.1.1. Factors to Consider		5.10.1.	Conditioning Factors of parental Stress and Anxiety
					5.10.1.1. How does the Family Adaptation Process occur?
					5 10 1 2 Most Common Worries

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	5.10.1.3. Anxiety Management
5.10.2.	Information for Parents When a Diagnosis Is Suspected
	5.10.2.1. Open Communication
	5.10.2.2. Stress Management Guidelines
5.10.3.	Assessment Records for Parents
	5.10.3.1. Strategies for the Management of Suspected ASD in Early Care
	5.10.3.2. PEDs. Questions about Parents' Developmental Concerns
	5.10.3.3. Situation Assessment and Building a Bond of Trust with Parents
5.10.4.	Multimedia Resources
	5.10.4.1. Table of Freely Available Resources
5.10.5.	Associations of Families of People with ASD
	5.10.5.1. List of Recognized and Proactive Associations
5.10.6.	Return of Therapy and Appropriate Evolution
	5.10.6.1. Aspects to Take into Account for Information Exchange
	5.10.6.2. Creation of Empathy
	5.10.6.3. Creation of a Circle of Trust between Therapist-Relatives-Patient
5.10.7.	Return of the Diagnosis and follow-up to the different Healthcare Professionals
	5.10.7.1. Speech Therapist in their Active and Dynamic role.
	5.10.7.2. Contact with the Different Health Areas
	5.10.7.3. The Importance of Maintaining a Common Line
5.10.8.	Parents; How to Intervene with the Child?
	5.10.8.1. Advice and Guidelines
	5.10.8.2. Family Respite
5.10.9.	Generation of Positive Experiences in the Family Environment
	5.10.9.1. Practical Tips for Reinforcing Pleasant Experiences in the Family Environment

5.10.9.2. Proposals for Activities that Generate Positive Experiences 5.10.10. Websites of Interest 5.10.10.1. Links of Interest

Module 6. Genetic Syndromes

6.1.	Introduction to Genetic Syndrome	38
	6.1.1. Introduction to the Unit	

6.1.2. Genetics

6.1.2.1. Concept of Genetics

6.1.2.2. Genes and Chromosomes

6.1.3. The Evolution of Genetics

6.1.3.1. Basis of Genetics

6.1.3.2. The Pioneers of Genetics

6.1.4. Basic Concepts of Genetics

6.1.4.1. Genotype and Phenotype

6.1.4.2. The Genome

6.1.4.3. DNA

6.1.4.4. RNA

6.1.4.5. Genetic Code

6.1.5. Mendel's Laws

6.1.5.1. Mendel's 1st Law

6.1.5.2. 2nd Mendel's Law

6.1.5.3. 3rd Mendel's Law

6.1.6. Mutations

6.1.6.1. What are Mutations?

6.1.6.2. Levels of Mutations

6.1.6.3. Types of Mutations

6.1.7. Concept of Syndrome

6.1.8. Classification

6.1.9. The Most Frequent Syndromes

6.1.10. Final Conclusions

6.2. Down Syndrome

6.2.1. Introduction to the Unit

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6.2.2.	6.2.1.1. History of Down SyndromeConcept of Down Syndrome6.2.2.1. What Is Down Syndrome?6.2.2.2. Genetics of Down Syndrome			6.2.8.1. Aspects to Take into Account6.2.8.2. Setting Objectives for the Intervention6.2.8.3. Material for Rehabilitation6.2.8.4. Resources to Be Used
	6.2.2.3. Chromosomal Alterations in Down Syndrome		6.2.9.	Guidelines
	6.2.2.2.1. Trisomy 21			6.2.9.1. Guidelines to the Person with Down Syndrome to Consider
	6.2.2.2.2. Chromosomal Translocation			6.2.9.2. Guidelines to for the Family to Consider
	6.2.2.3. Mosaicism or Mosaic Trisomy			6.2.9.3. Guidelines for the Educational Context
	6.2.2.4. Prognosis of Down Syndrome			6.2.9.4. Resources and Associations
6.2.3.	Etiology		6.2.10.	The Interdisciplinary Team
	6.2.3.1. The Origin of Down Syndrome			6.2.10.1. The Importance of the Interdisciplinary Team
6.2.4.	Prevalence			6.2.10.2. Speech Therapy
	6.2.4.1. Prevalence of Down Syndrome in Spain			6.2.10.3. Occupational Therapy
	6.2.4.2. Prevalence of Down Syndrome in Other Countries			6.2.10.4. Physiotherapy
6.2.5.	Characteristics of Down Syndrome			6.2.10.5. Psychology
	6.2.5.1. Physical Characteristics	6.3.	Hunter	Syndrome
	6.2.5.2. Speech and Language Development Characteristics		6.3.1.	Introduction to the Unit
	6.2.5.3. Motor Developmental Characteristics			6.3.1.1. History of Hunter Syndrome
6.2.6.	Comorbidity of Down Syndrome		6.3.2.	Concept of Hunter Syndrome
	6.2.6.1. What Is Comorbidity?			6.3.2.1. What Is Hunter Syndrome?
	6.2.6.2. Comorbidity in Down Syndrome			6.3.2.2. Genetics of Hunter Syndrome
	6.2.6.3. Associated Disorders			6.3.2.3. Prognosis of Hunter Syndrome
6.2.7.	Diagnosis and Evaluation of Down Syndrome		6.3.3.	Etiology
	6.2.7.1. The Diagnosis of Down Syndrome			6.3.3.1. The Origin of Hunter Syndrome
	6.2.7.1.1. Where It Is Performed		6.3.4.	Prevalence
	6.2.7.1.2. Who Performs It			6.3.4.1.
	6.2.7.1.3. When Can It Be Performed			6.3.4.2. Hunter Syndrome in Other Countries
	6.2.7.2. Speech Therapy Evaluation of Down Syndrome		6.3.5.	Main Impacts
	6.2.7.2.1. Medical History			6.3.5.1. Physical Characteristics
	6.2.7.2.2. Areas to Consider			6.3.5.2. Speech and Language Development Characteristics
6.2.8.	Speech Therapy Based Intervention			6.3.5.3. Motor Developmental Characteristics

6.3.6.	Comorbidity of Hunter Syndrome
	6.3.6.1. What Is Comorbidity?
	6.3.6.2. Comorbidity in Hunter Syndrome
	6.3.6.3. Associated Disorders
6.3.7.	Diagnosis and Evaluation of Hunter Syndrome
	6.3.7.1. The Diagnosis of Hunter Syndrome
	6.3.7.1.1. Where It Is Performed
	6.3.7.1.2. Who Performs It
	6.3.7.1.3. When Can It Be Performed
	6.3.7.2. Speech Therapy Evaluation of Hunter Syndrome
	6.3.7.2.1. Medical History
	6.3.7.2.2. Areas to Consider
6.3.8.	Speech Therapy Based Intervention
	6.3.8.1. Aspects to Take into Account
	6.3.8.2. Setting Objectives for the Intervention
	6.3.8.3. Material for Rehabilitation
	6.3.8.4. Resources to Be Used
6.3.9.	Guidelines
	6.3.9.1. Guidelines to the Person with Hunter Syndrome to Consider
	6.3.9.2. Guidelines to for the Family to Consider
	6.3.9.3. Guidelines for the Educational Context
	6.3.9.4. Resources and Associations
6.3.10.	The Interdisciplinary Team
	6.3.10.1. The Importance of the Interdisciplinary Team
	6.3.10.2. Speech Therapy
	6.3.10.3. Occupational Therapy
	6.3.10.4. Physiotherapy
	6.3.10.5. Psychology
Fragile 2	X Syndrome
6.4.1.	Introduction to the Unit
	6.4.1.1 History of Fragile X Syndrome

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6.4.2. Concept of Fragile X Syndrome

6.4.2.1. What Is Fragile X Syndrome??

	6.4.2.2. Genetics of Fragile X Syndrome
	6.4.2.3. Prognosis of Fragile X Syndrome
6.4.3.	Etiology
	6.4.3.1. The Origin of Fragile X Syndrome
6.4.4.	Prevalence
	6.4.4.1.
	6.4.4.2. Fragile X Syndrome in Other Countries
6.4.5.	Main Impacts
	6.4.5.1. Physical Characteristics
	6.4.5.2. Speech and Language Development Characteristics
	6.4.5.3. Characteristics in the Development of Intelligence and Learning
	6.4.5.4. Social, Emotional, and Behavioral Characteristics
	6.4.5.5. Sensory Characteristics
6.4.6.	Comorbidity of Fragile X Syndrome
	6.4.6.1. What Is Comorbidity?
	6.4.6.2. Comorbidity of Fragile X Syndrome
	6.4.6.3. Associated Disorders
6.4.7.	Diagnosis and Evaluation of Fragile X Syndrome
	6.4.7.1. The Diagnosis of Fragile X Syndrome
	6.4.7.1.1. Where It Is Performed
	6.4.7.1.2. Who Performs It
	6.4.7.1.3. When Can It Be Performed
	6.4.7.2. Logopedic Evaluation of Fragile X Syndrome
	6.4.7.2.1. Medical History
	6.4.7.2.2. Areas to Consider
6.4.8.	Speech Therapy Based Intervention
	6.4.8.1. Aspects to Take into Account
	6.4.8.2. Setting Objectives for the Intervention
	6.4.8.3. Material for Rehabilitation
	6.4.8.4. Resources to Be Used
6.4.9.	Guidelines

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	6.4.9.1. Guidelines to the Person with Fragile X Syndrome to Consider		6.5.6.	Main Impacts
	6.4.9.2. Guidelines to for the Family to Consider			6.5.6.1. Introduction
	6.4.9.3. Guidelines for the Educational Context			6.5.6.2. Physical Characteristics
	6.4.9.4. Resources and Associations			6.5.6.3. Clinical Characteristics
6.4.10.	The Interdisciplinary Team		6.5.7.	Diagnosis and Evaluation of Rett Syndrome
	6.4.10.1. The Importance of the Interdisciplinary Team			6.5.7.1. The Diagnosis of Rett Syndrome
	6.4.10.2. Speech Therapy			6.5.7.1.1. Where It Is performed
	6.4.10.3. Occupational Therapy			6.5.7.1.2. Who Performs It
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6.5.1.	Introduction to the Unit			6.5.7.2.1. Medical History
	6.5.1.1. History of Rett Syndrome			6.5.7.2.2. Areas to Consider
6.5.2.	Concept of Rett Syndrome		6.5.8.	Speech Therapy Based Intervention
	6.5.2.1. What Is Rett Syndrome?			6.5.8.1. Aspects to Take into Account
	6.5.2.2. Genetics of Rett Syndrome			6.5.8.2. Setting Objectives for the Intervention
	6.5.2.3. Prognosis of Rett Syndrome			6.5.8.3. Material for Rehabilitation
6.5.3.	Etiology			6.5.8.4. Resources to Be Used
	6.5.3.1. The Origin of Rett Syndrome		6.5.9.	Guidelines
6.5.4.	Prevalence			6.5.9.1. Guidelines to the Person with Rett Syndrome to Consider
	6.5.4.1.			6.5.9.2. Guidelines to for the Family to Consider
	6.5.4.2. Rett Syndrome in Other Countries			6.5.9.3. Guidelines for the Educational Context
	6.5.4.3. Stages in the Development of Rett Syndrome			6.5.9.4. Resources and Associations
	6.5.4.3.1. Stage I: Early Onset Stage		6.5.10.	The Interdisciplinary Team
	6.5.4.3.2. Stage II: Accelerated Destruction Stage			6.5.10.1. The Importance of the Interdisciplinary Team
	6.5.4.3.3. Stage III: Stabilization or Pseudo-Stationary Stage			6.5.10.2. Speech Therapy
	6.5.4.3.4. Stage IV: Late Motor Impairment Stage			6.5.10.3. Occupational Therapy
6.5.5.	Comorbidity of Rett Syndrome			6.5.10.4. Physiotherapy
	6.5.5.1. What Is Comorbidity?	6.6.	Smith-N	Magenis Syndrome
	6.5.5.2. Comorbidity in Rett Syndrome		6.6.1.	Smith-Magenis Syndrome
	6.5.5.3. Associated Disorders			6.6.1.1. Introduction
				6.6.1.2. Concept
			6.6.2.	Etiology

6.6.3. Epidemiology

6.6.4. Development according to Stages

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	6.6.4.1. Infants (up to 2 years of age) 6.6.4.2. Childhood (from 2 to 12 years of age)			6.7.6.5. Language Characteristics 6.7.6.5.1. Early Language Development
	6.6.4.2.1. Adolescence and Adulthood. (From 2 Years Onwards)			6.7.6.5.2. Characteristics of Language in the SW from 4 Years of Age Onwards
6.6.5.	Differential Diagnosis			6.7.6.6. Socio-Affective Characteristics in Williams Syndrome
6.6.6.	Clinical, Cognitive, Behavioral, and Physical Features of Smith-Magenis Syndrome.		6.7.7.	Speech Therapy Intervention in Early Care in Children with Williams Syndrome
0.0.0.	6.6.6.1. Clinical Characteristics		6.7.8.	Speech Therapy Intervention at School with Williams Syndrome
	6.6.6.2. Cognitive and Behavioral Characteristics		6.7.9.	Speech Therapy Intervention in Adulthood with Williams Syndrome
	6.6.6.3. Physical Characteristics			Associations
6.6.7.	Speech Therapy Evaluation in Smith-Magens Syndrome	6.8.		an Syndrome
6.6.8.	Speech Therapy Intervention in Smith-Magenis Syndrome		_	Introduction to the Unit
	6.6.8.1. General Considerations for starting the Intervention			6.8.1.1. History of Angelman Syndrome
	6.6.8.2. Stages of the Intervention Process		6.8.2.	Concept of Angelman Syndrome
	6.6.8.3. Communicative Aspects of Intervention			6.8.2.1. What Is Angelman Syndrome?
6.6.9.	Speech Therapy Exercises for Smith-Magenis Syndrome			6.8.2.2. Genetics of Angelman Syndrome
	6.6.9.1. Auditory Stimulation Exercises: Sounds and Words			6.8.2.3. Prognosis of Angelman Syndrome
	6.6.9.2. Exercises to Promote Grammatical Structures		6.8.3.	Etiology
	6.6.9.3. Exercises to Increase Vocabulary			6.8.3.1. The Origin of Angelman Syndrome
	6.6.9.4. Exercises to Improve the Use of Language		6.8.4.	Prevalence
	6.6.9.5. Exercises for Problem Solving and Reasoning			6.8.4.1.
6.6.10.	Associations to Help Patients and Families of Smith-Magenis Syndrome			6.8.4.2. Angelman Syndrome in Other Countries
William	s Syndrome		6.8.5.	Main Impacts
6.7.1.	Williams Syndrome			6.8.5.1. Introduction
	6.7.1.1. History of Williams Syndrome			6.8.5.2. Frequent Manifestations of Angelman Syndrome
	6.7.1.2. Concept of Williams Syndrome			6.8.5.3. Rare Manifestations
6.7.2 Et	tiology of Williams Syndrome		6.8.6.	Comorbidity of Angelman Syndrome
6.7.3 Ep	pidemiology of Williams Syndrome			6.8.6.1. What Is Comorbidity?
6.7.4 D	iagnosis of Williams Syndrome			6.8.6.2. Comorbidity in Angelman Syndrome
6.7.5 Sp	peech Therapy Evaluation of Williams Syndrome			6.8.6.3. Associated Disorders
6.7.6 C	haracteristics of Williams Syndrome		6.8.7.	Diagnosis and Evaluation of Angelman Syndrome
	6.7.6.1. Medical Aspects			6.8.7.1. The Diagnosis of Angelman Syndrome
	6.7.6.2. Facial Features			6.8.7.1.1. Where It Is Performed
	6.7.6.3. Hyperacusis			6.8.7.1.2. Who Performs It
	6.7.6.4. Neuroanatomical Features			

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	6.8.7.1.3. When Can It Be Performed		6.9.5.1. Introduction
	6.8.7.2. Speech Therapy Evaluation of Angelman Syndrome		6.9.5.2. Clinical Manifestations of Duchenne Disease
	6.8.7.2.1. Medical History		6.9.5.2.1. Speech Delay
	6.8.7.2.2. Areas to Consider		6.9.5.2.2. Behavioral Problems
6.8.8.	Speech Therapy Based Intervention		6.9.5.2.3. Muscle Weakness
	6.8.8.1. Aspects to Take into Account		6.9.5.2.4. Stiffness
	6.8.8.2. Setting Objectives for the Intervention		6.9.5.2.5. Lordosis
	6.8.8.3. Material for Rehabilitation		6.9.5.2.6. Respiratory Dysfunction
	6.8.8.4. Resources to Be Used		6.9.5.3. Most common Symptoms of Duchenne Disease
6.8.9.	Guidelines	6.9.6.	Comorbidity of Duchenne Disease
	6.8.9.1. Guidelines for the Person with Angelman Syndrome to Consider		6.9.6.1. What Is Comorbidity?
	6.8.9.2. Guidelines for the Family to Consider		6.9.6.2. Comorbidity of Duchenne Disease
	6.8.9.3. Guidelines for the Educational Context		6.9.6.3. Associated Disorders
	6.8.9.4. Resources and Associations	6.9.7.	Diagnosis and Evaluation of Duchenne Disease
6.8.10.	The Interdisciplinary Team		6.9.7.1. The Diagnosis of Duchenne Disease
	6.8.10.1. The Importance of the Interdisciplinary Team		6.9.7.1.1. Where It Is Performed
	6.8.10.2. Speech Therapy		6.9.7.1.2. Who Performs It
	6.8.10.3. Occupational Therapy		6.9.7.1.3. When Can It Be Performed
	6.8.10.4. Physiotherapy		6.9.7.2. Speech Therapy Evaluation of Duchenne Disease
Duchenne Disease			6.9.7.2.1. Medical History
6.9.1.	Introduction to the Unit		6.9.7.2.2. Areas to Consider
	6.9.1.1. History of Duchenne Disease	6.9.8.	Speech Therapy Based Intervention
6.9.2.	Concept of Duchenne Disease		6.9.8.1. Aspects to Take into Account
	6.9.2.1. What Is Duchenne Disease?		6.9.8.2. Setting Objectives for the Intervention
	6.9.2.2. Genetics of Duchenne Disease		6.9.8.3. Material for Rehabilitation
	6.9.2.3. Prognosis of Duchenne Disease		6.9.8.4. Resources to Be Used
6.9.3.	Etiology	6.9.9.	Guidelines
	6.9.3.1. The Origin of Duchenne Disease		6.9.9.1. Guidelines for the Person with Duchenne Disease to Consider
6.9.4.	Prevalence		6.9.9.2. Guidelines for the Family to Consider
	6.9.4.1. Prevalence of Duchenne Disease in Spain		6.9.9.3. Guidelines for the Educational Context
	6.9.4.2. Prevalence of Duchenne Disease in Other Countries		6.9.9.4. Resources and Associations
6.9.5.	Main Impacts	6.9.10.	The Interdisciplinary Team

		6.9.10.2. Speech Therapy 6.9.10.3. Occupational Therapy		
		6.9.10.4. Physiotherapy		
6.10.	Usher Syndrome			
	6.10.1.	Introduction to the Unit		
		6.10.1.1. History of Usher Syndrome		
	6.10.2.	Concept of Usher Syndrome		
		6.10.2.1. What is Usher Syndrome?		
		6.10.2.2. Genetics of Usher Syndrome		
		6.10.2.3. Typology of Usher Syndrome		
		6.10.2.3.1. Type I		
		6.10.2.3.2. Type I		
		6.10.2.3.3. Type III		
		6.10.2.4. Prognosis of Usher Syndrome		
	6.10.3.	Etiology		
		6.10.3.1. The Origin of Usher Syndrome		
	6.10.4.	Prevalence		
		6.10.4.1.		
		6.10.4.2. Usher Syndrome in Other Countries		
	6.10.5.	Main Impacts		
		6.10.5.1. Introduction		
		6.10.5.2. Frequent Manifestations of Usher Syndrome		
		6.10.5.3. Rare Manifestations		
	6.10.6.	Comorbidity of Usher Syndrome		
		6.10.6.1. What Is Comorbidity?		
		6.10.6.2. Comorbidity in Usher Syndrome		
		6.10.6.3. Associated Disorders		
	6.10.7.	Diagnosis and Evaluation of Usher Syndrome		
		6.10.7.1. The Diagnosis of Usher Syndrome		
		6.10.7.1.1. Where It Is Performed		
		6.10.7.1.2. Who Performs It		

6.9.10.1. The Importance of the Interdisciplinary Team

	6.10.7.2. Speech Therapy Evaluation of Usher Syndrome
	6.10.7.2.1. Medical History 6.10.7.2.2. Areas to Consider
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0.10.0.	Speech Therapy Based Intervention
	6.10.8.1. Aspects to Take into Account
	6.10.8.2. Setting Objectives for the Intervention
	6.10.8.3. Material for Rehabilitation
	6.10.8.4. Resources to Be Used
6.10.9.	Guidelines
	6.10.9.1. Guidelines for the Person with Usher Syndrome to Consider
	6.10.9.2. Guidelines for the Family to Consider
	6.10.9.3. Guidelines for the Educational Context
	6.10.9.4. Resources and Associations
6.10.10.	The Interdisciplinary Team
	6.10.10.1. The Importance of the Interdisciplinary Team
	6.10.10.2. Speech Therapy
	6.10.10.3. Occupational Therapy
	6.10.10.4. Physiotherapy

6.10.7.1.3. When Can It Be Performed

Module 7. Dysphemia and/or Stuttering: Assessment, Diagnosis, and Intervention

7.1.2. Module Presentation

7.2. Dysphemia or Stuttering

7.2.1. History of Stuttering

7.2.2. Stuttering

7.2.2.1. Concept of Stuttering

7.2.2.2. Symptomatology of Stuttering

7.2.2.2.1. Linguistic Manifestations

7.2.2.2.2. Behavioral Manifestations

7.2.2.3. Bodily Manifestations

7.2.2.3.1. Characteristics of Stuttering

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7.2.3.	Classification
	7.2.3.1. Tonic Stuttering
	7.2.3.2. Clonic Stuttering
	7.2.3.3. Mixed Stuttering
7.2.4.	Other Specific Disorders of Fluency of Verbal Expression
7.2.5.	Development of the Disorder
	7.2.5.1. Preliminary Considerations
	7.2.5.2. Levels of Development and Severity
	7.2.5.2.1. Initial Phase
	7.2.5.2.2. Borderline Stuttering
	7.2.5.2.3. Initial Stuttering
	7.2.5.2.4. Intermediate Stuttering
	7.2.5.2.5. Advanced Stuttering
7.2.6.	Comorbidity
	7.2.6.1. Comorbidity in Dysphemia
	7.2.6.2. Associated Disorders
7.2.7.	Prognosis of Recovery
	7.2.7.1. Preliminary Considerations
	7.2.7.2. Key Factors
	7.2.7.3. Prognosis According to the moment of Intervention
7.2.8.	The Incidence and Prevalence of Stuttering
	7.2.8.1. Preliminary Considerations
	7.2.8.2. Incidence in Spain at School Age
	7.2.8.3. Prevalence in Spain at School Age
7.2.9.	Etiology of Stuttering
	7.2.9.1. Preliminary Considerations
	7.2.9.2. Physiological Factors
	7.2.9.3. Genetic Factors.
	7.2.9.4. Environmental Factors
	7.2.9.5. Psychosocial Factors

		7.2.9.6. Linguistic Factors
	7.2.10.	Warning Signs
		7.2.10.1. Preliminary Considerations
		7.2.10.2. When to Evaluate?
		7.2.10.3. Is it possible to prevent the Disorder?
7.3.		ion of Dysphemia
		Introduction to the Unit
	7.3.2.	Dysphemia or normal Dysfluencies?
		7.3.2.1. Initial Considerations
		7.3.2.2. What Are Normal Disfluencies?
		7.3.2.3. Differences between Dysphemia and Normal Dysfluencies.
		7.3.2.4. When to Act?
	7.3.3.	Objective of the Evaluation
	7.3.4.	Evaluation Method
		7.3.4.1. Preliminary Considerations
		7.3.4.2. Outline of the Evaluation Method
	7.3.5.	Collection of Information
		7.3.5.1. Interview with Parents
		7.3.5.2. Gathering Relevant Information
		7.3.5.3. Medical History
	7.3.6.	Collecting Additional Information
		7.3.6.1. Questionnaires for Parents
		7.3.6.2. Questionnaires for Teachers
	7.3.7.	Evaluation of the Child
		7.3.7.1. Observation of the Child
		7.3.7.2. Questionnaire for the Child
		7.3.7.3. Parent-Child Interaction Profile
	7.3.8.	Diagnosis
		7.3.8.1. Clinical Judgment of the Information Collected
		7.3.8.2. Prognosis
		7.3.8.3. Types of Treatment

	7.3.8.4. Treatment Objectives	
7.3.9.	Return	
	7.3.9.1. Return of Information to Parents	
	7.3.9.2. Informing the Child of the Results	
	7.3.9.3. Explain Treatment to the Child	
7.3.10.		
	7.3.10.1. Preliminary Considerations	
	7.3.10.2. Factors that May Affect the Fluency of Speech	
	7.3.10.2.1. Communication Environments	
	7.3.10.2.2. Difficulties in Language Development	
	7.3.10.2.3. Interpersonal Interactions	
	7.3.10.2.4. Changes	
	7.3.10.2.5. Excessive Demands	
	7.3.10.2.6. Self-esteem	
	7.3.10.2.7. Social Resources	
User-Centered Speech Therapy Intervention in Dysphemia: Direct Treatment		
	Introduction to the Unit	
7.4.2.	Direct Treatment	
	7.4.2.1. Treatment Characteristics	
	7.4.2.2. Therapist Skills	
7.4.3.	Therapy Goals	
	7.4.3.1. Goals with the Child	
	7.4.3.2. Objectives with the Parents	
	7.4.3.3. Objectives with the Teacher	
7.4.4.	Objectives with the Child: Speech Control	
	7.4.4.1. Objectives	
	7.4.4.2. Techniques for Speech Control	
7.4.5.	Objectives with the Child: Anxiety Control	
	7.4.5.1. Objectives	
	7.4.5.2. Techniques for Anxiety Control	
7.4.6.	Objectives with the Child: Thought Control	
	7.4.6.1. Objectives	
	7.4.6.2. Techniques for Thoughts Control	
7.4.7.	Objectives with the Child: Emotion Control	

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	7.4.7.1. Objectives
	7.4.7.2. Techniques for Emotion Control
7.4.8.	Objectives with the Child: Social and Communication Skills
	7.4.8.1. Objectives
	7.4.8.2. Techniques for the Promotion of Social and Communication Skills
7.4.9.	Generalization and Maintenance
	7.4.9.1. Objectives
	7.4.9.2. Generalization and Maintenance Techniques
7.4.10.	Recommendations for User Discharge
Speech Prograr	Therapy Intervention in User-centered Dysphemia: Lidcombe Early Intervention
7.5.1.	Introduction to the Unit
7.5.2.	Program Development
	7.5.2.1. Who Developed It?
	7.5.2.2. Where Was It Developed?
7.5.3.	Is it Really Effective?
7.5.4.	Fundamentals of the Lindcombe Program
	7.5.4.1. Preliminary Considerations
	7.5.4.2. Age of Application
7.5.5.	Essential Components
	7.5.5.1. Parental Verbal Contingencies
	7.5.5.2. Stuttering Measures
	7.5.5.3. Treatment in Structured and Unstructured Conversations
	7.5.5.4. Scheduled Maintenance
7.5.6.	Assessment
	7.5.6.1. Evaluation Based on Lindcombe Program
7.5.7.	Stages of the Lindcombe Program
	7.5.7.1. Stage 1
	7.5.7.2. Stage 2
7.5.8.	Frequency of Sessions
	7.5.8.1. Weekly Visits to the Specialist
7.5.9.	Individualization in the Lindcombe Program
7.5.10.	Final Conclusions
Speech	Therapy Intervention in the Child Dysphemics: Proposed Exercises

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7.6.1.	Introduction to the Unit
7.6.2.	Exercises for Speech Control
	7.6.2.1. Self-made Resources
	7.6.2.2. Resources Found on the Market
	7.6.2.3. Technological Resources
7.6.3.	Exercises for Anxiety Control
	7.6.3.1. Self-made Resources
	7.6.3.2. Resources Found on the Market
	7.6.3.3. Technological Resources
7.6.4.	Exercises for Thought Control
	7.6.4.1. Self-made Resources
	7.6.4.2. Resources Found on the Market
	7.6.4.3. Technological Resources
7.6.5.	Exercises for Emotion Control
	7.6.5.1. Self-Made Resources
	7.6.5.2. Resources Found on the Market
	7.6.5.3. Technological Resources
7.6.6.	Exercises to improve of Social and Communication Skills
	7.6.6.1. Self-Made Resources
	7.6.6.2. Resources Found on the Market
	7.6.6.3. Technological Resources
7.6.7.	Exercises that Promote Generalization
	7.6.7.1. Self-made Resources
	7.6.7.2. Resources Found on the Market
	7.6.7.3. Technological Resources
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		10.7.6.3. Characteristics of Self-Esteem Deficit	10.8	8. Responding to Criticism
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		10.7.6.5. Strategies to Promote Self-Esteem		10.8.8.2. Specific Guidelines for Reacting Assertively to Criticism
	1077	Empathy	10.8	9. Asking for Behavioral Changes
	10.7.7.	10.7.7.1. Concept of Empathy	10.0.	10.8.9.1. Reasons for Requesting Behavioral Changes
		10.7.7.2. Is Empathy the Same as Sympathy?		10.8.9.2. Specific Strategies for Requesting Behavioral Changes
		10.7.7.3. Types of Empathy 10.7.7.3. Types of Empathy	10.8	10. Interpersonal Conflict Management
		10.7.7.4. Theory of Mind	10.0.	10.8.10.1 Types of Conflicts
		10.7.7.5. Strategies to Promote Empathy		10.8.10.2. Non-Assertive Ways of Dealing with Conflicts
		10.7.7.6. Strategies to work on Theory of Mind		10.8.10.3. Specific strategies for Dealing Assertively with Conflicts
3	Social S		n 9 Strate	egies for Behavior Modification in Consultation and for Increasing the Motivation of
		Communicative Intention		oungest Children in Consultation
		10.8.1.1. Factors to Take into Account When Starting a Conversation	10.9.	1. What Are Behavior Modification Techniques?
		10.8.1.2. Specific Guidelines for Initiating a Conversation	10.9.	2. Techniques Based on Operant Conditioning
	10.8.2.	Entering an Initiated Conversation	10.9.	3. Techniques for the Initiation, Development, and Generalization of Appropriate
		10.8.2.1. Specific Guidelines for Entering an Initiated Conversation		Behaviors
	10.8.3.	Maintaining the Dialogue		10.9.3.1. Positive Reinforcement
		10.8.3.1. Active Listening		10.9.3.2. Token Economy
		10.8.3.2. Specific Guidelines for Maintaining Conversations	10.9.	4. Techniques for the Reduction or Elimination of Inappropriate Behaviors
	10.8.4.	Conversational Closure		10.9.4.1. Extinction
		10.8.4.1. Difficulties Encountered in Closing Conversations		10.9.4.2. Reinforcement of Incompatible Behaviors
		10.8.4.2. Assertive Style in Conversational Closure		10.9.4.3. Response Cost and Withdrawal of Privileges
		10.8.4.3. Specific Guidelines for Closing Conversations in Different Circumstances	10.9.5.	5. Punishment
	10.8.5.	Making Requests		10.9.5.1. Concept
		10.8.5.1. Non-Assertive Ways of Making Requests		10.9.5.2. Main Disadvantages
		10.8.5.2. Specific Guidelines for Making Requests in an Assertive Manner		10.9.5.3. Guidelines for the Application of Punishment
			10.9.	6. Motivation
				10.9.6.1. Concept and Main Characteristics

10.9.6.2. Types of Motivation

10.9.6.3. Main Explanatory Theories

10.9.6.4. The Influence of Beliefs and Other Variables on Motivation

10.9.6.5. Main Manifestations of Low Motivation

10.9.6.6. Guidelines to Promote Motivation in Consultation

10.10. School Failure Study Habits and Techniques from a Speech Therapy and Psychological Point of View

10.10.1. Concept of School Failure

10.10.2. Causes of School Failure

10.10.3. Consequences of School Failure in Children

10.10.4. Influencing Factors in School Success

10.10.5. The Aspects that We Must Take Care of to Obtain a Good Performance

10.10.5.1. Sleep

10.10.5.2. Nutrition

10.10.5.3. Physical Activity

10.10.6. The Role of Parents

10.10.7. Some Guidelines and Study Techniques that Can Help Children and Adolescents

10.10.7.1. The Study Environment

10.10.7.2. The Organization and Planning of the Study

10.10.7.3. Calculation of Time

10.10.7.4. Underlining Techniques

10.10.7.5. Schemes

10.10.7.6. Mnemonic Rules

10.10.7.7. Review

10.10.7.8. Breaks

Module 11. Anatomical, Physiological and Biomechanical Basics of the Voice

11.1. Laryngeal Phylogeny and Embryology

11.1.1. Laryngeal Phylogeny

11.1.2. Laryngeal Embryology

11.2. Basic Concepts of Physiology

11.2.1. Muscle Tissue

11.2.2. Types of Muscle Fibers

11.3. Respiratory System Structures

11.3.1. Chest

11.3.2. Airways

11.4. Respiratory System Musculature

11.4.1. Inspiratory Muscles

11.4.2. Expiratory Muscles

11.5. Respiratory System Physiology

11.5.1. Respiratory System Function

11.5.2. Lung Capacities and Volumes

11.5.3. Lung Nervous System

11.5.4. Resting Breathing vs. Breathing in Phonation

11.6. Laryngeal Anatomy and Physiology

11.6.1. Laryngeal Skeleton

11.6.2. Laryngeal Cartilages

11.6.3. Ligaments and Membranes

11.6.4. Joints

11.6.5. Musculature

11.6.6. Vascularization

11.6.7. Laryngeal Innervation

11.6.8. Lymphatic System

11.7. Structure and Function of the Vocal Cords

11.7.1. Histology of the Vocal Cords

11.7.2. Biomechanical Properties of the Vocal Cords

11.7.3. Phases of the Vibration Cycle

11.7.4. Fundamental Frequency

11.8. Anatomy and Physiology of the Vocal Tract

11.8.1. Nasal Cavity

11.8.2. Oral Cavity

11.8.3. Laryngeal Cavity

11.8.4. Linear and Non-Linear Source and Filter Theory

11.9. Voice Production Theory

11.9.1. Historical Recap

11.9.2. Ewald's Primitive Myoelastic Theory

11.9.3. Husson's Neuro-Chronaxial Theory

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- 11.9.4. Completed Mucoondulatory Theory and Aerodynamic Theory
- 11.9.5. Neurooscillatory Theory
- 11.9.6. Oscillo-Impedial Theory
- 11.9.7. Mass-Spring Models
- 11.10. The Physiology of Phonation
 - 11.10.1. Neurological Control of Phonation
 - 11.10.2. Pressure
 - 11.10.3. Thresholds
 - 11.10.4. Beginnings and Endings of the Vibration Cycle
 - 11.10.5. Laryngeal Adjustments for Phonation

Module 12. Objective Exploration of the Voice

- 12.1. Morphofunctional Exploration
 - 12.1.1. Indirect Laryngoscopy
 - 12.1.2. Nasofibrolaryngoscopy
 - 12.1.3. Telelaryngoscopy
 - 12.1.4. Stroboscopy
 - 12.1.5. Videochemography
- 12.2. Electroglottography
 - 12.2.1. Equipment
 - 12.2.2. Use
 - 12.2.3. Electroglottographic Parameters
 - 12.2.4. Interpreting Results
- 12.3. Aerodynamic Measurements
 - 12.3.1. Equipment
 - 12.3.2. Use
 - 12.3.3. Aerodynamic Parameters
 - 12.3.4. Interpreting Results
- 12.4. Electromyography
 - 12.4.1. What is an EMG
 - 12.4.2. Indicated Pathologies
 - 12.4.3. Procedure
 - 12.4.4. Interpreting Results

- 12.5. Video Chemography
 - 12.5.1. What is an VKG
 - 12.5.2. Interpreting Results
- 12.6. Physical Aspects of the Voice
 - 12.6.1. Types of Waves
 - 12.6.2. Amplitude
 - 12.6.3. Frequency (F)
 - 12.6.4. Time
- 12.7. Acoustic Aspects of Voice
 - 12.7.1. Intensity
 - 12.7.2. Pitch
 - 12.7.3. Duration
 - 12.7.4. Quality
- 12.8. Acoustic Analysis of Voice
 - 12.8.1. Fundamental Frequency
 - 12.8.2. Harmonics
 - 12.8.3. Formants
 - 12.8.4. Speech Acoustics
 - 12.8.5. The Spectrogram
 - 12.8.6. Disturbance Measures
 - 12.8.7. Noise Measures
 - 12.8.8. Voice Equipment/Laboratory
 - 12.8.9. Gathering Samples
 - 12.8.10. Interpreting Results

Module 13. Functional Assessment of the Voice

- 13.1. Perceptual Assessment
 - 13.1.1. GRBAS
 - 13.1.2. RASAT
 - 13.1.3. GBR Score
 - 13.1.4. CAPE-V
 - 13.1.5. VPAS

13.2.	Assessr	ment of Vocal Function				
	13.2.1.	Fundamental Frequency				
	13.2.2.	Phonetogram				
	13.2.3.	Maximum Phonatory Times				
	13.2.4.	Velo-Palatine Efficiency				
	13.2.5.	VHI				
13.3.	Medical History					
	13.3.1.	The Importance of the Clinical History				
	13.3.2.	Characteristics of the Initial Interview				
	13.3.3.	Medical History Sections and Voice Implications				
	13.3.4.	Proposal of a Model of Anamnesis for Vocal Pathology				
13.4.	Body As	ssessment				
	13.4.1.	Introduction				
	13.4.2.	Posture				
		13.4.2.1. Ideal or Correct Posture				
	13.4.3.	Voice-Posture Relationship				
	13.4.4.	Posture Assessment				
13.5.	Respiratory Assessment					
	13.5.1.	Respiratory Function				
	13.5.2.	Breathing-Voice Relationship				
	13.5.3.	Aspects to Assess				
13.6.	Assessment of the Stomatognathic System					
	13.6.1.	Stomatognathic System				
	13.6.2.	Relationships Between the Stomatognathic System and Voice Production				
	13.6.3.	Assessment				
13.7.	Assessing Vocal Function					
	13.7.1.	Vocal Quality				
	13.7.2.	High Vocal Quality vs. Low Vocal Quality				
	13.7.3.	Vocal Quality Assessment in Voice Professionals				
13.8.	Softwar	e for Assessing Vocal Function				
	13.8.1.	Introduction				
	13.8.2.	Free Software				

Materia	als to Collect Information and Assess Vocal Function
13.9.1.	Medical History
13.9.2.	Reading text for Speech Sample Collection in Spanish
13.9.3.	Perceptual Assessment (After Medical History and Anamnesis)
13.9.4.	Self-Assessment
13.9.5.	Assessing Vocal Function
13.9.6.	Respiratory Assessment
13.9.7.	Stomatognathic Assessment
13.9.8.	Posture Assessment
13.9.9.	Acoustic Analysis of Vocal Quality
lule 14.	Normal Voice vs. Pathological Voice
	Voice and Pathological Voice
	Euphonia vs. Dysphonia
	Types of Voices
	Introduction
	14.2.1.1. Advice to Prevent Vocal Fatigue
14.2.2.	Synthesis
	ic Signs of Dysphonia
	First Signs
	Acoustic Features
14.3.3.	Levels of Severity
Functio	nal Dysphonias
i unictio	rial by opinorial
	Type I: Isometric Laryngeal Disorder
14.4.1.	
14.4.1. 14.4.2.	Type I: Isometric Laryngeal Disorder
14.4.1. 14.4.2. 14.4.3.	Type I: Isometric Laryngeal Disorder Type II: Glottic and Supraglottic Lateral Contraction
14.4.1. 14.4.2. 14.4.3. 14.4.4.	Type I: Isometric Laryngeal Disorder Type II: Glottic and Supraglottic Lateral Contraction Type III: Anteroposterior Supraglottic Contraction
	13.9.2. 13.9.3. 13.9.4. 13.9.5. 13.9.6. 13.9.7. 13.9.8. 13.9.9. Normal 14.1.1. 14.1.2. Vocal F 14.2.1. 14.2.2. Acousti 14.3.1. 14.3.2. 14.3.2. 14.3.3.

13.8.3. Payment Software

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14.5.	Psycho	genic Dysphonia				
	14.5.1.	Definition				
	14.5.2.	Patient Characteristics				
	14.5.3.	Signs of Psychogenic Dysphonia and Voice Characteristics				
	14.5.4.	Clinical Forms				
	14.5.5.	Diagnosis and Treatment of Psychogenic Dysphonia				
	14.5.6.	Synthesis				
14.6.	Transitional Adolescent Dysphonia					
	14.6.1.	Vocal Changes				
	14.6.2.	Concept of Adolescent Transitional Dysphonia				
	14.6.3.	Treatment				
	14.6.4.	Synthesis				
14.7.	Dyspho	nia Due to Congenital Organic Lesions				
	14.7.1.	Introduction				
	14.7.2.	Intrachordal Epidermal Cyst				
	14.7.3.	Sulcus Vocalis				
	14.7.4.	Mucosal Bridge				
	14.7.5.	Vergeture				
	14.7.6.	Micro-Adherence				
	14.7.7.	Laryngomalacia				
	14.7.8.	Synthesis				
14.8.	Acquired Organic Dysphonias					
	14.8.1.	Introduction				
	14.8.2.	Dysphonias of Neurological Origin				
		14.8.2.1. Peripheral Laryngeal Paralysis				
		14.8.2.2. Upper Motor Neuron Disorders				
		14.8.2.3. Extrapyramidal Alterations				
		14.8.2.4. Cerebellar Alterations				
		14.8.2.5. Lower Motor Neuron Disorders				
		14.8.2.6. Other Alterations				
	14.8.3.	Organic Dysphonias of Acquired Origin				
		14.8.3.1. Of Traumatic Origin				

14.8.3.2. Inflammatory
14.8.3.3. Dysphonias of Neoplastic Origin
14.8.4. Synthesis
14.9. Mixed Dysphonias
14.9.1. Introduction
14.9.2. Vocal Nodes
14.9.3. Laryngeal Polyps
14.9.4. Reinke's Edema

14.9.5. Vocal Cord Hemorrhage

14.9.6. Contact Ulcer or Granuloma

14.9.7. Mucous Retention Cyst

14.9.8. Synthesis

Module 15. Medical-Surgical Treatments of Vocal Pathology

15.1. Phonosurgery

15.1.1. Flush Section

15.1.2. Cordotomies

15.1.3. Injection Techniques

15.2. Laryngeal Surgery

15.2.1. Thyroplasties

15.2.2. Laryngeal Neurosurgery

15.2.3. Surgery in Malignant Laryngeal Pathologies

15.3. Medication in Dysphonia

15.3.1. Medication to Regularize Respiratory Aspects

15.3.2. Medication to Regularize Digestive Aspects

15.3.3. Medication to Regulate the Non-Autonomous Nervous System

15.3.4. Types of Medication

Module 16. Speech Therapy for Voice Disorders

 $16.1. \ \ \, \text{The Importance of the Multidisciplinary Team in the Approach to Treatment}$

16.1.1. Introduction

16.1.2. Teamwork

16.1.2.1. Characteristics of Multidisciplinary Work

16.1.3. Multidisciplinary Work in the Treatment of Vocal Pathology 16.2. Indications and Restrictions of Speech Therapy Treatment 16.2.1. Prevalence of Vocal Disorders 16.2.2 Treatment Indications 16.2.3. Treatment Limitations and Restrictions 16.2.4. Adherence to Treatment 16.3. General Intervention Objectives 16.3.1. The General Objectives of All Vocal Work 16.3.2. How to Meet the General Objectives? 16.4. Muscle Conditioning 16.4.1. Voice as a Muscle Activity 16.4.2. General Aspects of Training 16.4.3. Principles of Training 16.5. Respiratory Conditioning 16.5.1. Justifying Respiratory Work in Vocal Therapy 16.5.2. Methodology 16.5.3. Static Exercises With Facilitating Postures 16.5.4. Semisupine

16.5.5. Neutral or Monkey Position

16.6. Hygiene Therapy

16.6.1 Introduction

16.7. Confidential Voice Therapy

16.7.3. Therapy Uses

16.8. Resonance Voice Therapy

16.6.3 Preventive Measures

16.7.1. History of the Method16.7.2. Foundation and Principles

16.8.1. Description of the Method

16.8.2. Laryngeal Behavior

16.5.6. Dynamic Exercises With Facilitating Postures

16.6.2. Harmful Habits and Their Effects on the Voice

- 16.8.3. Uses and Benefits
- 16.9 Accent Method
 - 16.9.1. Introduction
 - 16.9.2. Justification of the Method
 - 16.9.3. Methodology
- 16.10. Vocal Function Exercises
 - 16.10.1. Introduction
 - 16.10.2. Justification
 - 16.10.3. Methodology
- 16.11. Fluid Phonation
 - 16.11.1. Introduction
 - 16.11.2. Justification
 - 16.11.3. Methodology
- 16.12. Lee Silverman LSVT
 - 16.12.1. Introduction
 - 16.12.2. Justification
 - 16.12.3. Methodology
- 16.13. Physiological Therapy
 - 16.13.1. Justification
 - 16.13.2. Physiological Objectives
 - 16.13.3. Training
- 16.14. Semi-Occluded Vocal Tract Exercises
 - 16.14.1. Introduction
 - 16.14.2. Justification
 - 16.14.3. TVSO
- 16.15. Manual Laryngeal Massage
 - 16.15.1. Introduction
 - 16.15.2. Manual Circumlaryngeal Therapy
 - 16.15.3. Laryngeal Massage Technique
 - 16.15.4. Introduction to Functional and Structural Techniques
 - 16.15.4.1. Jones Technique for the Suprahyoid Muscles
 - 16.15.4.2. Functional Hyoid Bone Technique
 - 16.15.4.3. Functional Technique for Tongue and Hyoid Bone

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16.15.4.4. Functional Technique for the Tongue
16.15.4.5. Technique for Maxillopharyngeal Fasciae
16.16. Facilitating Techniques
16.16.1. Introduction
16.16.2. Description of Facilitating Techniques
16.17. Estill Voice Training
16.17.1. Jo Estill and the Creation of the Model
16.17.2. Principles of Estill Voice Training
16.17.3. Description
16.18. PROEL Method
16.18.1. Introduction
16.18.2. Principles
16.18.3. Curiosities
16.19. NEIRA Method
16.19.1. Introduction
16.19.2. Concept of Euphony
16.19.3. Objectives of the Method
16.19.4. Body-Vocal Scaffolding
16.19.4.1. Body Work
16.19.4.2. Respiratory Attitude
16.19.4.3. Resonance Work
16.19.4.4. Vocal Work
16.19.4.5. Emotional Work
16.20. Body, Voice and Movement
16.20.1. Introduction and Justification
16.20.2. Techniques That Incorporate Movement Into Their Programs
16.20.3. Examples:
16.21. Elastic Bandages
16.21.1. History
16.21.2. Bandage Characteristics
16.21.3. Effects
16.21.4. Contraindications

16.21.5.1. Uses in the Voice 16.22. Electrostimulation 16.22.1. Introduction 16.22.2. Justification 16.22.3. Methodology 16.23. Low-Power Laser 16.23.1. History 16.23.2. Physical Concepts 16.23.3. Classification of the Types of Laser 16.23.4. Effects of Lasers and Their Interaction With Tissues 16.23.5. Safety Measures and Contraindications 16.23.6. Use of Lasers in the Prevention and Treatment of Voice Disorders Module 17. Speech Therapy for Pathologies 17.1. Speech Therapy in Functional Dysphonias 17.1.1. Type I: Isometric Laryngeal Disorder 17.1.2. Type II: Glottic and Supraglottic Lateral Contraction 17.1.3. Type III: Anteroposterior Supraglottic Contraction 17.1.4. Type IV: Conversion Aphonia/Dysphonia 17.1.5. Psychogenic Dysphonia with Arched Vocal Cords 17.1.6. Transitional Adolescent Dysphonia 17.2. Speech Therapy in Organic Origin Dysphonias 17.2.1. Speech Therapy in Congenital Origin Dysphonias 17.2.2. Speech Therapy in Acquired Origin Dysphonias 17.3. Speech Therapy in Organic-Functional Origin Dysphonias 17.3.1. Nodes 17.3.2. Polyps 17.3.3. Mucous Cysts 17.3.4. Others

16.21.5. Techniques

- 17.4. Post-Laryngectomy Rehabilitation
 - 17.4.1. Types of Prosthesis
 - 17.4.2. The Esophageal Voice: Murmurs, Esophageal Sound, Learning Sequence, Characteristics of the Esophageal Voice
 - 17.4.3. Tracheoesophageal Voice
 - 17.4.4. The Voice in Patients with Prostheses
- 17.5. Treating the Voice in Gender Change
 - 17.5.1. Initial Considerations
 - 17.5.2. Voice Masculinization Objectives
 - 17.5.3. Voice Feminization Objectives
 - 17.5.4. Acoustic Aspects of Voice Accommodation: Vocal String Body and Cover, Fundamental Frequency, Resonance, and Timbre
 - 17.5.5. Suprasegmental Aspects of Speech

Module 18. The Professional Use of the Spoken Voice

- 18.1. Risk Factors in Voice Professionals
 - 18.1.1. General Aspects
 - 18.1.2. Teachers
 - 18.1.3. Actors
 - 18.1.4. Dubbing
 - 18.1.5. Broadcasters
 - 18.1.6. Telephone Operators
 - 18.1.7. Hygienic Measures Plan for Vocal Care
- 18.2. Bases and Objectives of Vocal Training
 - 18.2.1. Physiological Basis of the Spoken Voice
 - 18.2.2. Objectives of Vocal Training in Healthy Voices
- 18.3. Flexibility.
 - 18.3.1. What is Flexibility?
 - 18.3.2. Vocal Flexibility
 - 18.3.2.1. Power
 - 18.3.2.2. Source
 - 18.3.2.3. Filter

- 18.3.2.4. Body
- 18.3.2.5. Emotion
- 18.4. Resistance
 - 18.4.1. What is Vocal Endurance?
 - 18.4.2. Vocal Endurance
- 18.5. Communication: A Versatile Voice
 - 18.5.1. Theoretical Framework
 - 18.5.2. Paralanguage
 - 18.5.3. Strategies for Working on the Aspects of Paralanguage
- 18.6. The Teacher's Voice
 - 18.6.1. Features
 - 18.6.2. Objectives of Vocal Work
 - 18.6.3. Work Proposal
- 18.7. The Actors's Voice
 - 18.7.1. Features
 - 18.7.2. Objectives of Vocal Work
 - 18.7.3. Work Proposal
- 18.8. Dubbing
 - 18.8.1. Features
 - 18.8.2. Objectives of Vocal Work
 - 18.8.3. Work Proposal
- 18.9. Broadcasters
 - 18.9.1. Features
 - 18.9.2. Objectives of Vocal Work
 - 18.9.3. Work Proposal
- 18.10. Telephone Operators
 - 18.10.1. Features
 - 18.10.2. Objectives of Vocal Work
 - 18.10.3. Work Proposal

Module 19. Professional Singing Voice

- 19.1. Musical Concepts
 - 19.1.1. Introduction
 - 19.1.2. Musical Sounds

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	19.1.3.	Major Scale. Tonality. Intervals		
		Chords Common Combinations		
19.2.	Physiological Bases of the Singing Voice			
	,	Power, Source and Filters		
	19.2.2.	Transmission		
	19.2.3.	Articulation		
	19.2.4.	Tuning		
	19.2.5.	Vocal Registers		
19.3.				
	19.3.1.	Vocal Technique as a Mechanical Process		
	19.3.2.	The Training System		
	19.3.3.	Healthy vs. Fatigue		
	19.3.4.	Vocal Technique and the Artistic Side		
19.4.	Tone			
	19.4.1.	Tone as Frequency		
	19.4.2.	Low Frequencies		
	19.4.3.	The Use of the Spoken Voice		
	19.4.4.	High Frequency		
		Extension and Tessitura		
19.5.	Intensity			
	19.5.1.	Levels of Intensity		
	19.5.2.	Healthy Ways of Increasing Intensity		
	19.5.3.	Working with Low Intensity		
19.6.	Projection			
	19.6.1.	How to Project the Voice		
	19.6.2.	Healthy Ways of Using Projection		
	19.6.3.	Working With or Without a Microphone		
19.7.	Endurance			
	19.7.1.	Vocal Athletes		
	19.7.2.	Healthy Training		
	19.7.3.	Harmful Habits		
19.8.		ance of Sensorimotor Learning		
	19.8.1.	Proprioception and Muscle Work Placement		

19.8.2. Sound Proprioception

- 19.9. Exercises to Improve the Singing Voice
 - 19.9.1. Introduction
 - 19.9.2. Kim Chandler / O- Funky' n Fun
 - 19.9.3. Estill Études Volume I Alejandro Saorín Martínez
 - 19.9.4. Other Publications
 - 19.9.5. Compilation of Exercises Indicating Their Authors
 - 19.9.5.1. Relief of Muscle Tension
 - 19.9.5.2. Work on Articulation, Projection, Resonance and Intonation
 - 19.9.5.3. Work on Register, Tessitura and Vocal Instability
 - 19.9.5.4. Others
- 19.10. Proposal of Adapted Songs by Level
 - 19.10.1. Introduction
 - 19.10.2. Categories

Module 20. Psychology and Voice

- 20.1. Voice Psychology as a Specialty
 - 20.1.1. Voice Psychology as a Specialty
 - 20.1.2. Relation Between Voice and Psychology
 - 20.1.3. Voice as a Fundamental Element in Non-Verbal Communication
 - 20.1.4. Summary
- 20.2. Connection Between Voice and Psychology
 - 20.2.1. What is Voice?
 - 20.2.2. What is Psychology?
 - 20.2.3. Psychological Aspects of the Voice
 - 20.2.4. Voice According to Mood
 - 20.2.5. Voice According to Personality
 - 20.2.6. Summary
- 20.3. Voice as a Fundamental Element in Non-Verbal Communication
 - 20.3.1. Non-Verbal Communication
 - 20.3.2. Paraverbal Elements of Communication
 - 20.3.3. Impact of the Voice on the Oral Message

	20.3.4.	Psychological Types and Vocal Characteristics		
	20.3.5.	Summary		
20.4.	Voice and Emotions			
	20.4.1.	What is an Emotion?		
	20.4.2.	Functions of Emotions		
	20.4.3.	Classification of Emotions		
	20.4.4.	Expressing Emotions		
	20.4.5.	Summary		
20.5.	Voice and Stress			
	20.5.1.	What is Stress?		
	20.5.2.	Theories and Models that Explain Stress		
	20.5.3.	Characteristics of Stressors		
	20.5.4.	Consequences of Stress		
	20.5.5.	Summary		
20.6.	Types of Functional and Psychogenic Dysphonias			
	20.6.1.	What are Dysphonias?		
	20.6.2.	Difference Between Functional and Organic Dysphonia		
	20.6.3.	Causes of Functional Dysphonia		
	20.6.4.	Types of Functional Dysphonia		
	20.6.5.	Summary		
20.7.	Prevention of Voice Problems			
	20.7.1.	Healthy Lifestyle Habits		
	20.7.2.	Sleep-Wake Connection		
	20.7.3.	Feeding		
	20.7.4.	Tobacco		
	20.7.5.	Physical Exercise		
20.8.	Consciousness: Mind-Body Connection			
	20.8.1.	Difference Between Consciousness and Conscience		
	20.8.2.	Historical Trajectory of Consciousness		
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20.9.	Psychoeducation
	20.9.1. What Is Psychoeducation?
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20.10	. Mindfulness
	20.10.1. What Is Mindfulness?
	20.10.2. Types of Mindfulness Practices
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20.11	. Psychological Therapy in Voice Pathology
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21.1.	Speech Therapy Treatment for Functional Dysphonias
	21.1.1. Type I: Isometric Laryngeal Disorder
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	21.1.4. Type IV: Conversion Aphonia/Dysphonia and Psychogenic Dysphonia with Arched Vocal Cords
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21.2.	Speech Therapy Treatment for Organic Dysphonias
	21.2.1. Introduction
	21.2.2. Speech Therapy in Congenital Origin Dysphonias
	21.2.3. Epidermoid Cyst
	21.2.4. Sulcus and Vergetures
	21.2.5. Speech Therapy in Acquired Origin Dysphonias
01.0	Speech Therapy Treatment for Organic-Functional Dysphonias

21.3.1. Introduction

tech 88 | Structure and Content

- 21.3.2. Objectives in the Rehabilitation of Organic-Functional Pathologies
- 21.3.3. Proposal of Exercises and Techniques According to the Rehabilitation Objective
- 21.4. Voice in Acquired Neurological Problems
 - 21.4.1. Dysphonias of Neurological Origin
 - 21.4.2. Peripheral Laryngeal Paralysis
 - 21.4.3. Upper Motor Neuron Disorders
 - 21.4.4. Extrapyramidal Alterations
 - 21.4.5. Cerebellar Alterations
 - 21.4.6. Lower Motor Neuron Disorders
 - 21.4.7. Other Alterations
 - 21.4.8. Logopedic Work Proposals
 - 21.4.9. Laryngeal Paralysis
 - 21.4.10. Parkinson's Disease
 - 21.4.11. Bibliography
- 21.5. Child Dysphonia
 - 21.5.1. Child Voice Physiology
 - 21.5.2. Child Dysphonia
 - 21.5.3. Assessment
 - 21.5.4. Treatment
- 21.6. Hygiene Therapy
 - 21.6.1. Introduction
 - 21.6.2. Harmful Habits and Their Effect on the Voice
 - 21.6.3. Clearing Throat and Coughing
 - 21.6.4. Voice Use in Harmful Environments and Situations
 - 21.6.5. Toxic Agents

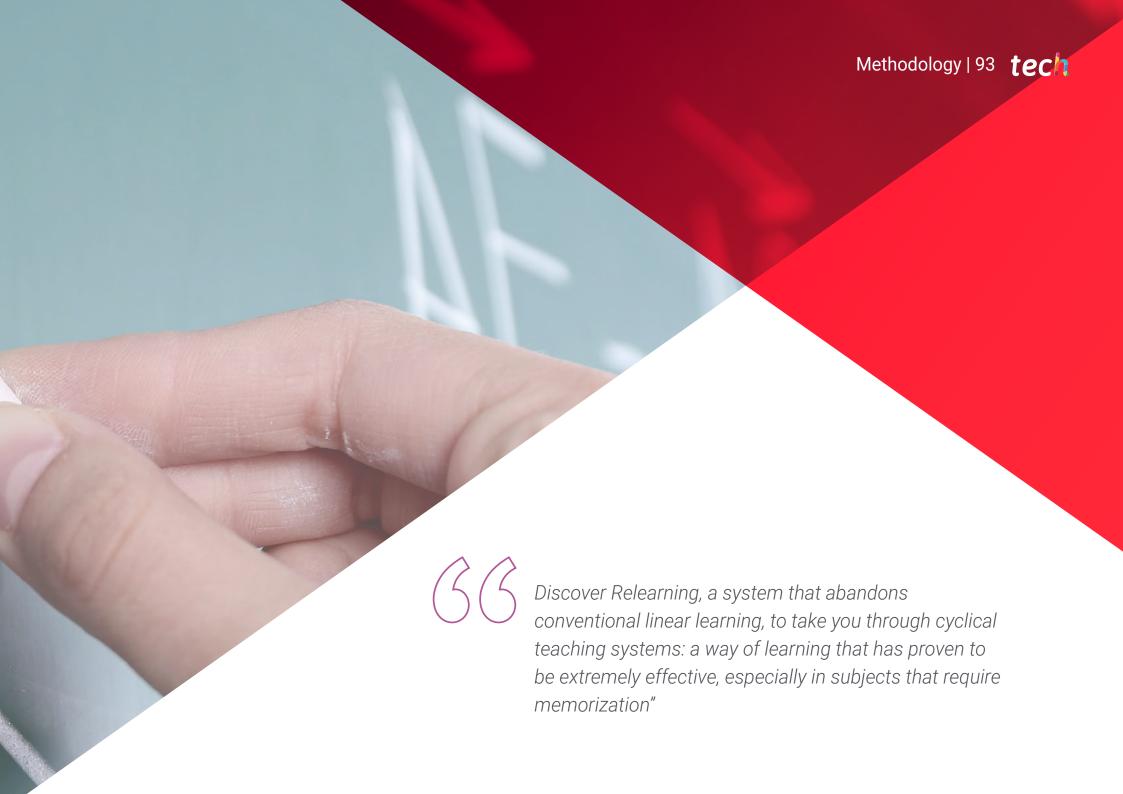






A complete training that will take you through the knowledge you need to compete among the best"





tech 94 | Methodology

At TECH Education School we use the Case Method

In a given situation, what should a professional do? Throughout the program, students will be presented with multiple simulated cases based on real situations, where they will have to investigate, establish hypotheses and, finally, resolve the situation. There is an abundance of scientific evidence on the effectiveness of the method.

With TECH, educators can experience a learning methodology that is shaking the foundations of traditional universities around the world.



It is a technique that develops critical skills and prepares educators to make decisions, defend their arguments, and contrast opinions.



Did you know that this method was developed in 1912, at Harvard, for law students? The case method consisted of presenting students with real-life, complex situations for them to make decisions and justify their decisions on how to solve them. In 1924, Harvard adopted it as a standard teaching method.

The effectiveness of the method is justified by four fundamental

- Educators who follow this method not only grasp concepts, but also develop their mental capacity, by evaluating real situations and applying their knowledge.
- 2. The learning process is solidly focused on practical skills that allow educators to better integrate the knowledge into daily practice.
- **3.** Ideas and concepts are understood more efficiently, given that the example situations are based on real-life teaching.
- **4.** Students like to feel that the effort they put into their studies is worthwhile. This then translates into a greater interest in learning and more time dedicated to working on the course.



tech 96 | Methodology

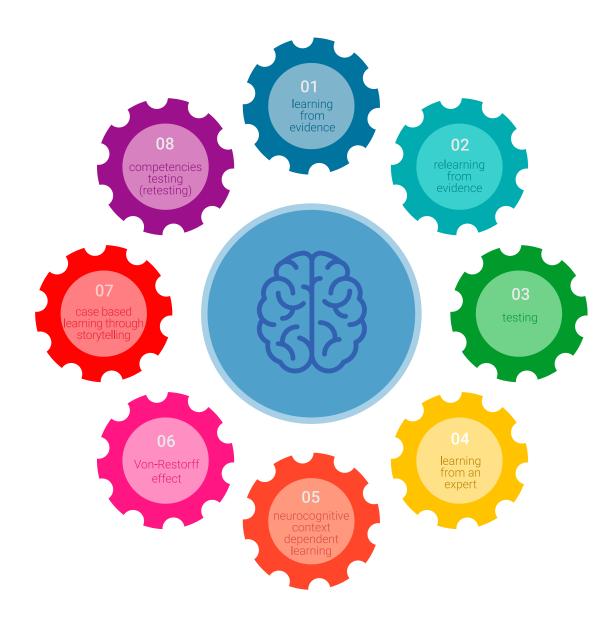
Relearning Methodology

TECH effectively combines the Case Study methodology with a 100% online learning system based on repetition, which combines 8 different teaching elements in each lesson.

We enhance the Case Study with the best 100% online teaching method: Relearning.

Educators will learn through real cases and by solving complex situations in simulated learning environments.

These simulations are developed using state-of-the-art software to facilitate immersive learning.



Methodology | 97 tech

At the forefront of world teaching, the Relearning method has managed to improve the overall satisfaction levels of professionals who complete their studies, with respect to the quality indicators of the best online university (Columbia University).

With this methodology we have prepared more than 85,000 educators with unprecedented success in all specialties. All this in a highly demanding environment, where the students have a strong socio-economic profile and an average age of 43.5 years.

Relearning will allow you to learn with less effort and better performance, involving you more in your specialization, developing a critical mindset, defending arguments, and contrasting opinions: a direct equation to success.

In our program, learning is not a linear process, but rather a spiral (learn, unlearn, forget, and re-learn). Therefore, we combine each of these elements concentrically.

The overall score obtained by our learning system is 8.01, according to the highest international standards.

This program offers the best educational material, prepared with professionals in mind:



Study Material

All teaching material is produced by the specialist educators who teach the course, specifically for the course, so that the teaching content is really specific and precise.

These contents are then adapted in audiovisual format, to create the TECH online working method. All this, with the latest techniques that offer high-quality pieces in each and every one of the materials that are made available to the student.



Video Education Techniques and Procedures

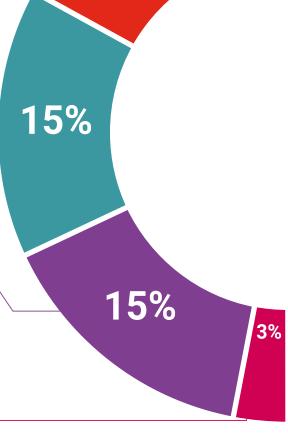
TECH introduces students to the latest techniques, with the latest educational advances, and to the forefront of Education. All this, first-hand, with the maximum rigor, explained and detailed for your assimilation and understanding. And best of all, students can watch them as many times as they want.



Interactive Summaries

The TECH team presents the contents attractively and dynamically in multimedia lessons that include audio, videos, images, diagrams, and concept maps in order to reinforce knowledge.

This exclusive educational system for presenting multimedia content was awarded by Microsoft as a "European Success Story".





Additional Reading

Recent articles, consensus documents and international guidelines, among others. In TECH's virtual library, students will have access to everything they need to complete their course.



Expert-Led Case Studies and Case Analysis

Effective learning ought to be contextual. Therefore, TECH presents real cases in which the expert will guide students, focusing on and solving the different situations: a clear and direct way to achieve the highest degree of understanding.



Testing & Retesting

We periodically assess and re-assess students' knowledge throughout the program, through assessment and self-assessment activities and exercises, so that they can see how they are achieving their goals.



Classes

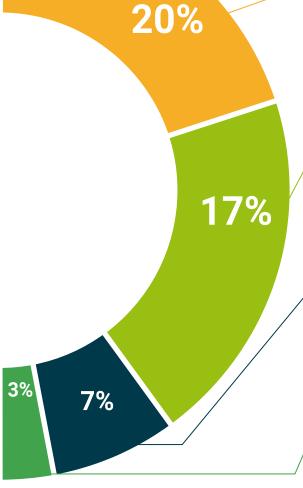
There is scientific evidence suggesting that observing third-party experts can be useful.

Learning from an Expert strengthens knowledge and memory, and generates confidence in future difficult decisions.



Quick Action Guides

TECH offers the most relevant contents of the course in the form of worksheets or quick action guides. A synthetic, practical and effective way to help students progress in their learning.







tech 100 | Certificate

The Advanced Master's Degree in **Advanced Master's Degree in Comprehensive Speech Therapy** guarantees students, in addition to the most rigorous and up-to-date education, access to a Postgraduate Certificate issued by **TECH Global University**.

TECH Global University is an official European University publicly recognized by the Government of Andorra (*official bulletin*). Andorra is part of the European Higher Education Area (EHEA) since 2003. The EHEA is an initiative promoted by the European Union that aims to organize the international training framework and harmonize the higher education systems of the member countries of this space. The project promotes common values, the implementation of collaborative tools and strengthening its quality assurance mechanisms to enhance collaboration and mobility among students, researchers and academics.

This **TECH Global University** title is a European program of continuing education and professional updating that guarantees the acquisition of competencies in its area of knowledge, providing a high curricular value to the student who completes the program.

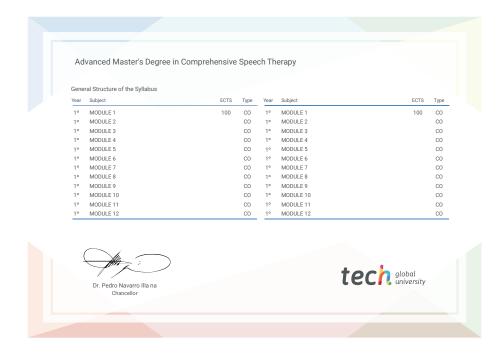
Title: Advanced Master's Degree in Comprehensive Speech Therapy

Modality: online

Duration: 2 years

Accreditation: 120 ECTS





^{*}Apostille Convention. In the event that the student wishes to have their paper diploma issued with an apostille, TECH EDUCATION will make the necessary arrangements to obtain it, at an additional cost.

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Advanced Master's Degree Comprehensive Speech Therapy

- » Modality: online
- » Duration: 2 years
- » Certificate: TECH Global University
- » Credits: 120 ECTS
- » Schedule: at your own pace
- » Exams: online

