

Speech therapy instruments for tracking and screening: scope review

Instrumentos fonoaudiológicos para
rastreamento e triagem: revisão de escopo

Instrumentos de focoterapia para
seguimiento y detección: revisión del alcance

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Abstract

Introduction: The instruments for screening in speech therapy aim to quickly and cost-effectively identify individuals with a greater likelihood of developing a specific condition or disease. **Objective:** Map the speech therapy instruments used for tracking and screening in the different areas of Speech Therapy. **Method:** Scoping review study registered on the Open Science Framework (OSF) platform. The steps consisted of developing the question, defining the inclusion and exclusion criteria, systematically searching for studies, selecting studies first by reading the titles and abstracts and then by reading the full texts, extracting data, presenting the results and analyzing the risk of bias. The PCC strategy was used: Population - individuals of different age groups; Concept - screening instruments; Context - areas of Speech Therapy. Thus, the research question was: what are the main screening instruments used in individuals of different age groups, in the different areas of Speech Therapy? **Results:** 1800 articles

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published between 1980 and 2024 that addressed screening programs in Speech-Language Pathology were identified; however, with the selection criteria, 190 were included. The speech-language pathology areas of these instruments were distributed as follows: Voice, Language, Audiology, Neuropsychology, Orofacial Motricity (OM), Dysphagia, Hospital Speech-Language Pathology, Educational Speech-Language Pathology and Fluency, for a total of 112 instruments identified. **Conclusion:** There are speech-language pathology instruments for screening aimed at specific areas of Speech-Language Pathology, most frequently in the areas of Language, Voice and Audiology. It is considered necessary to expand studies and develop new screening instruments, especially for speech-language pathology areas with the where they are scarcer.

Keywords: Mass Screening; Triage; Speech, Language and Hearing Sciences; Risk factors.

Resumo

Introdução: Os instrumentos para rastreamento na fonoaudiologia visam realizar de forma rápida e com menor custo a identificação precoce de indivíduos com maior probabilidade de desenvolver uma condição específica ou doença. **Objetivo:** Mapear os instrumentos fonoaudiológicos utilizados para rastreamento e triagem nas diversas áreas da Fonoaudiologia. **Método:** Estudo de revisão de escopo registrado na plataforma *Open Science Framework* (OSF). As etapas consistiram na elaboração da pergunta, definição dos critérios de inclusão e exclusão, busca sistemática dos estudos, seleção dos estudos primeiro pela leitura dos títulos e resumos e posteriormente pela leitura dos textos na íntegra, extração dos dados, apresentação dos resultados e análise do risco de viés. Utilizou-se a estratégia PCC: População-indivíduos de diferentes faixas etárias; Conceito-instrumentos de rastreamento; Contexto-áreas da fonoaudiologia. Dessa forma, a pergunta de pesquisa foi: quais os principais instrumentos de rastreamento utilizados em indivíduos de diferentes faixas etárias, nas diversas áreas da Fonoaudiologia? **Resultados:** Foram identificados 1800 artigos publicados entre 1980 e 2024 que abordaram sobre programas de rastreamento na Fonoaudiologia; no entanto, com os critérios de seleção, foram incluídos 190. As áreas fonoaudiológicas desses instrumentos foram distribuídas em: Voz, Linguagem, Audição, Neuropsicologia, Motricidade Orofacial (MO), Disfagia, Fonoaudiologia Hospitalar, Fonoaudiologia Educacional e Fluência, num total de 112 instrumentos identificados. **Conclusão:** Existem instrumentos fonoaudiológicos para rastreamento destinados a áreas específicas da Fonoaudiologia, com maior frequência nas áreas de Linguagem, Voz e Audição. Considera-se necessário ampliar os estudos e desenvolver novos instrumentos de rastreamento, principalmente para as áreas fonoaudiológicas em que são mais escassos.

Palavras-chave: Programas de Rastreamento; Triagem; Fonoaudiologia; Fatores de Risco.

Resumen

Introducción: Los instrumentos de detección en terapia del habla tienen como objetivo identificar de forma rápida y rentable a las personas que tienen mayor probabilidad de desarrollar una afección o enfermedad específica. **Objetivo:** Mapear los instrumentos logopédicos utilizados para el seguimiento y triaje en las diferentes áreas de la Logopedia. **Método:** Estudio de revisión de alcance registrado en la plataforma *Open Science Framework* (OSF). Los pasos consistieron en desarrollar la pregunta, definir los criterios de inclusión y exclusión, buscar sistemáticamente los estudios, seleccionar los estudios primero leyendo los títulos y resúmenes y luego leyendo los textos completos, extraer los datos, presentar los resultados y analizar el riesgo de sesgo. Se utilizó la estrategia PCC: Población-individuos de diferentes grupos de edad; Instrumentos de seguimiento de conceptos; Áreas de contexto de la terapia del habla. Por lo tanto, la pregunta de investigación fue: ¿cuáles son los principales instrumentos de tamizaje utilizados en individuos de diferentes grupos etarios, en las diferentes áreas de la Logopedia? **Resultados:** Se identificaron 1800 artículos publicados entre 1980 y 2024 que abordaron programas de tamizaje en Terapia del Habla; Sin embargo, con los criterios de selección se incluyeron 190. Las áreas de terapia del habla de estos instrumentos se distribuyeron en: Voz, Lenguaje, Audición, Neuropsicología, Motricidad Orofacial (MO), Disfagia, Terapia del Habla Hospitalaria, Terapia del Habla Educativa y Fluidez, para un

total de 112 instrumentos identificados. **Conclusión:** Existen instrumentos de tamizaje fonoaudiológico dirigidos a áreas específicas de la Logopedia, con mayor frecuencia en las áreas de Lenguaje, Voz y Audiología. Se considera necesario ampliar estudios y desarrollar nuevos instrumentos de seguimiento, especialmente para áreas de logopedia donde son más escasos.

Palabras clave: Tamizaje Masivo; Triage; Fonoaudiología; Factores de Riesgo

Introduction

The speech-language pathologist is the professional responsible for health promotion, assessment and diagnosis, guidance, therapy (habilitation and rehabilitation), and the enhancement of all aspects related to speech-language pathology¹. It is within their scope of practice to propose actions involving the selection, indication, and application of appropriate therapeutic methods, techniques, and procedures tailored to the individual characteristics and specific needs of each patient/client².

In speech-language pathology practice, screening tools aim to quickly and cost-effectively identify individuals at risk of developing a potential disorder or injury within a population, followed by referral for more comprehensive diagnostic procedures and, if necessary, treatment³. Although often used interchangeably, screening tools are designed to identify individuals with a higher likelihood of having a disorder, even if asymptomatic; whereas triage tools are intended to classify and prioritize care for individuals who already present with symptoms, to ensure appropriate and timely intervention. These tools must demonstrate accuracy through properties such as eligibility, sensitivity, and specificity. Eligibility defines the criteria for application, that is, the target population; sensitivity refers to the tool's ability to correctly identify individuals with the condition; and specificity refers to its ability to correctly identify individuals without the condition⁴⁻⁵.

Screening tools are of great relevance in Speech-Language Pathology, as they allow for the early detection of impairments across various domains such as Language, Voice, Hearing, Oro-facial Motricity (OM), and Speech, differentiating individuals with and without alterations⁶. They differ from assessment instruments and diagnostic tests, which are typically more precise and provide greater detail about the condition or disorder, thereby contributing to the establishment of a diagnosis³. Speech-language screening instruments are

characterized as tools intended solely for the early identification of individuals with a higher probability of having a specific disorder or condition, and under no circumstances should they replace a comprehensive speech-language assessment⁷.

Given the relevance of this topic to clinical speech-language pathology practice, the aim of this scoping review was to map the main screening instruments used across different age groups and domains of Speech-Language Pathology as reported in the existing literature.

Methods

This study is a scoping review and follows the recommendations of the PRISMA-ScR guidelines. The protocol was registered on the Open Science Framework (OSF) platform (10.17605/OSF.IO/QRNZK). The stages of the review included the formulation of the research question, definition of inclusion and exclusion criteria, systematic search of the literature, selection of studies based initially on title and abstract screening and subsequently on full-text reading, data extraction, presentation of results, and risk of bias analysis.

The literature search was conducted on February 2, 2024, across the following electronic databases: Latin American and Caribbean Health Sciences Literature (LILACS), Scientific Electronic Library Online (SciELO), National Library of Medicine (NIH) via PubMed, and the CAPES Periodicals Portal. These databases were selected due to their relevance in the health sciences field at both national and international levels, and for including research in the area of Speech-Language Pathology. No time restriction was applied in the search, as the goal was to identify, collect, and analyze the scientific output produced over the years. The search strategy, detailed in Table 1, involved the combination of descriptors using the Boolean operator AND, as well as applying the full-text online filter across all databases.

Chart 1. Combinations of descriptors with Boolean operators in Portuguese and English.

Portuguese	English
"Fonoaudiologia" AND "Fatores de Risco" AND "Programas de Rastreamento"	"Speech Therapy" AND "Risk Factors" AND "Mass Screening"
"Fonoaudiologia" AND "Programas de Rastreamento"	"Speech Therapy" AND "Mass screening"
"Fonoaudiologia" AND "Fatores de Risco" AND "Triagem"	"Speech Therapy" AND "Risk Factors" AND "Screening"
"Fonoaudiologia" AND "Triagem"	"Speech Therapy" AND "Screening"
"Fonoaudiologia" AND "Fatores de Risco" AND "Programas de Rastreamento" OR "Triagem"	"Speech Therapy" AND "Risk Factors" AND "Mass Screening" OR "Screening"

Eligibility criteria were defined using the PCC framework (Population, Concept, Context). The eligibility for this review was as follows: Population – individuals across different age groups; Concept – screening instruments; Context – areas of Speech-Language Pathology. In the first selection stage, which involved screening titles and abstracts, eligible studies were identified by two independent reviewers. These reviewers, working separately and without direct interaction, conducted the screening simultaneously, following the previously defined search strategies. In cases of disagreement, a third reviewer was consulted. In the subsequent stage, the full texts of the selected studies were reviewed, and those that met all eligibility criteria were analyzed in detail. This analysis included the extraction of information regarding the screening program, its purpose, target population, and the area of Speech-Language Pathology addressed. The results of this review were derived from the summarized information of the included studies and analyzed descriptively.

The articles included in the review were classified according to the speech-language pathology specialties regulated by the Brazilian Federal Council of Speech-Language Pathology and Audiology (CFFa)⁸, which include: Language, Audiology, Voice, Orofacial Motricity, Public Health, Dysphagia, Educational Speech-Language Pathology, Occupational Speech-Language Pathology, Gerontology, Neurofunctional Speech-Language Pathology, Neuropsychology, Fluency, Forensic Speech-Language Pathology, Hospital Speech-Language Pathology, and Otoneurology. Excluded articles were systematic reviews, opinion pieces, incomplete manuscripts, and duplicate publications (only one version was considered).

Results

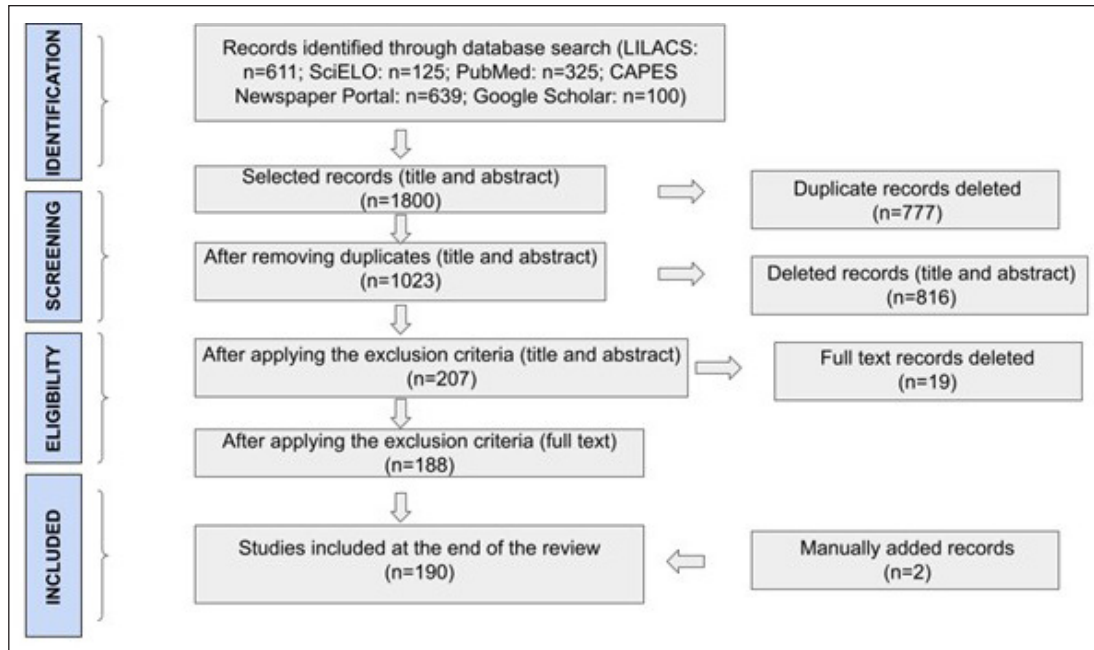
The selection process of studies included in this scoping review is presented in the flowchart (Figure 1), according to the different phases of the research.

To avoid the erroneous exclusion of well-established instruments in the field of Speech-Language Pathology, additional manual searches were conducted for both national and international tools that are widely recognized by researchers in the field, allowing their inclusion in the study.

A total of 1,800 publications were identified across the following databases: Latin American and Caribbean Health Sciences Literature (LILACS): 611 articles; Scientific Electronic Library Online (SciELO): 125 articles; National Library of Medicine (NIH) via PubMed: 325 articles; CAPES Periodicals Portal: 639 articles; and Google Scholar: 100 articles. Due to the high number of results retrieved from Google Scholar, only the first 100 articles ranked by relevance were considered.

A total of 777 duplicate records were identified and removed. After deduplication, 1,023 studies remained for screening. Based on the inclusion and exclusion criteria, 816 studies were excluded for the following reasons: 88 were various types of review articles, 46 were case reports, 2 were theses, 5 were letters to the editor, 24 were not available as open access publications, and 651 were unrelated to the objective of this review.

Thus, 207 articles were selected for full-text review, of which 19 were excluded for not addressing topics aligned with the study objective. Additionally, 2 studies were included through manual search, resulting in a final total of 190 studies included in this review, as depicted in Figure 1.



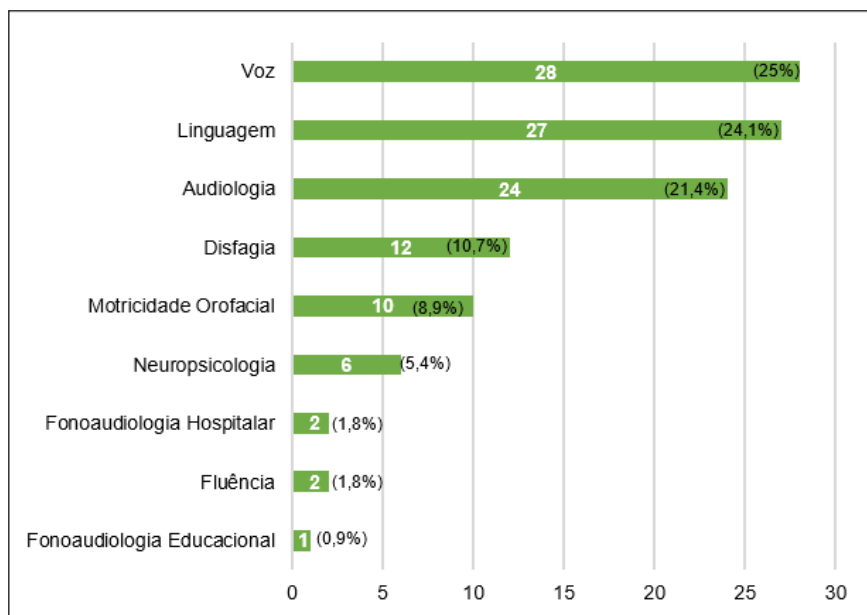
Legend: n= number of studies.
Source: Authors (2024).

Figure 1. Flowchart of the study selection process, with a description of the number of articles

Following the manual search and based on the full-text articles selected, screening and triage instruments were identified along with their respective objectives and target populations, totaling 112 instruments distributed across the various areas of Speech-Language Pathology, as reported in the 190 studies included in this review. It is important to

note that the number of instruments is lower than the number of articles retrieved, as several instruments were cited in more than one study.

The selected studies presented speech-language pathology instruments for screening and triage across distinct specialties, as illustrated in Figure 2.



Source: Authors (2024).

Figure 2. Graph of the distribution of instruments according to the areas

The area of Voice stood out the most in terms of the identification of screening instruments, accounting for 28 (25%) of the total. These instruments address the presence of dysphonia and vocal complaints and are mostly intended for the general population. However, some are designed

for specific groups, such as individuals engaged in particular occupational activities—e.g., theater actors and musicians—or for specific populations, such as male-to-female transgender individuals, as presented in Table 1.

Table 1. Characteristics of screening instruments in the speech-language pathology area of Voice

Instrument Name	Instrument objective	Instrument target population
Instrumento de Rastreo da Disfonia-IRD (BR) ^{7,9}	Screen for dysphonia.	Patients with voice-related complaints.
Instrumento de Rastreo para a Disfonia em português europeu - IRD-PT ⁹	Screen for dysphonia.	European Portuguese-speaking patients with voice-related complaints.
Protocolo de Triagem de Risco de Disfonia para Atores (DRSP-A) ^{10,11}	Detect possible vocal alteration, considering the specific aspects of professional voice use.	Theater actors.
Instrumento Brasileiro de Triagem de Disfonia (Br-DST) ^{4,7}	Screen for dysphonia by examining items from traditional vocal self-assessment instruments.	General population.
Questionário Bahasa Malaysia versão do Voice Handicap Index (mVHI-10) ¹²	Differentiate between dysphonic and normal voice samples.	Bahasa Malaysia-speaking population.
Questionário de Voz para Transexuais Masculino-Feminino – TVQ (MtF) ¹³	Assess quality of life through self-perception of voice (current and ideal voice).	Male-to-female transgender individuals.
Protocolo Geral de Triagem de Risco para Disfonia (DRSP-G) ¹⁴	Conduct dysphonia risk screening.	General population.
Lista de Sinais e Sintomas Vocais – LSS ^{15,16}	Distinguish between vocally healthy individuals and those with vocal complaints, considering occupational activity.	Adults.
Índice de Função Glótica – IFG16	Assess the presence and degree of vocal dysfunction in adults.	Adults.
Escala de Sintomas Vocais – ESV ^{4,7,16–18}	Identify vocal symptoms that reflect clinical responses to dysphonia treatments.	Adults.
Índice de Triagem de Distúrbio de Voz (ITDV) ^{19–27}	Screen individuals with possible vocal alterations.	Individuals with possible vocal alterations.
Qualidade de Vida em Voz (QVV) ^{7,27}	Screen for dysphonia.	Individuals whose vocal alterations affect daily life.
Índice de Desvantagem para o Canto Moderno (IDCM) ²⁷	Screen for dysphonia.	Singers.
Triagem da Afinação vocal ^{28,29}	Conduct screening to differentiate between in-tune and out-of-tune individuals.	Musicians.
GRBAS ³⁰	Perform perceptual-auditory voice assessment.	General population.
Índice de Desvantagem Vocal - IDV ^{7,17,24,31–33}	Identify the presence of dysphonia.	General population.
IDV-10 ^{7,17,34}	Detect minor vocal alterations based on the impact of voice problems.	General population.
Protocolo de Triagem Vocal (PTV) ^{18,35}	Screen for dysphonia.	General population.
Protocolo de Rastreo de Risco de Disfonia (PRRD) ^{36,37}	Screen for dysphonia risk.	Women, children, and older adults.
Consensus Auditory-Perceptual Evaluation of Voice (CAPE-V) ^{26,36}	Assess auditory perception of voice.	General population.
Qualidade de Vida da Universidade de Washington (UWQOL) ³⁸	Identify information related to quality of life.	Patients with head and neck cancer.
Índice de Qualidade Acústica de Voz (AVQI) - versões do AVQI-Persa ³⁹	Discriminate between normal and pathological voices.	Persian-speaking population.
Índice de Desvantagem Vocal (IDV) para o Português Europeu (PE) ³¹	Identify the presence of dysphonia.	European Portuguese speakers with voice disorders.
Versão abreviada (IDV-10) para o Português Europeu (PE) ³¹	Differentiate among the most prevalent laryngeal pathologies in voice clinics, such as nodules and Reinke's edema.	European Portuguese speakers with voice disorders.
Rastreo de Alteração Vocal em Idosos (RAVI) ^{32,34}	Screen for voice-related complaints.	Older adults.
Screen ⁶⁴⁰	Conduct screening for vocal symptoms.	Adults.
Índice Sueco de Desvantagem Vocal (Sw-VHI) ⁴⁰	Assess the negative impact of voice problems on daily life.	Adults.
Protocolo Específico de Triagem de Risco de Disfonia para Profissionais Jurídicos (DRSP-LP) ⁴¹	Conduct dysphonia risk screening.	Legal professionals.

A total of 27 instruments (24.1%) were identified in the area of Language. The objectives of these instruments focus on skills involving various aspects of language, including reading, pronunciation, and comprehension; receptive and expressive abilities; communication skills; pragmatics, such as

communicative initiative; and discourse abilities. Regarding the target population, it is noteworthy that 19 instruments (70.37%) are aimed at children, while 8 (29.63%) are intended for adults and older adults, as shown in Table 2.

Table 2. Characteristics of screening instruments in the speech-language pathology area of Language.

Instrument Name	Instrument objective	Instrument target population
Instrumento de Rastreio da Comunicação de Crianças de 0 a 36 meses (IRC-36) ⁴²	Screen communication.	Parents/caregivers and children (0 to 36 months).
Modified Checklist for Autism in Toddlers (M-Chat) ⁴³⁻⁴⁵	Screen early for Autism Spectrum Disorder.	Parents/caregivers of children (18 to 24 months).
Questionário de Habilidades Comunicativas ⁴⁶	Identify functional communication characteristics related to different language development profiles	map pragmatic abilities such as communicative initiative and interactivity, communicative means, functional diversity, discourse abilities, and sociocommunicative adaptation in children with language disorders.
Questionário de Indicadores de Risco para o Desenvolvimento Infantil (IRDI- questionário) ^{44,45,47}	Detect risk for child development.	Parents/caregivers of children (18 months to 7 years).
Teste de triagem NWR ⁴⁸	Correlate nonword repetition tasks (NWR) with language skills and distinguish between typically developing (TD) children and those with specific language impairment (SLI) across languages.	Slovak-speaking children.
Assessment of Conversational Pragmatics (ACP) ⁴⁹	Screen pragmatic aspects of language difficulty.	Children (6 to 12 years old), French-speaking.
ERTL 4 ⁵⁰	Detect language disorders.	Children.
Lista de idiomas pré-escolares (PLC) ⁵¹	Identify risk of language difficulties.	Children.
Teste de Triagem de Linguagem (LAST) ^{52,53}	Screen language with focus on speech comprehension, word repetition, and naming.	Patients with acute stroke.
Renfrew Action Picture Test (RAPT) ⁵⁴	Screen for language development.	Children.
Short Assessment of Health Literacy for Portuguese speaking Adults (SAHLPA) ⁵⁵	Assess reading, pronunciation, and comprehension skills.	Portuguese-speaking adults.
SAPS - 'Sprach systematisches Aphasie screening' ⁵⁶	Screen for systematic language-related aphasia.	Post-stroke individuals with aphasia.
Western Aphasia Battery - Revised (WAB-R) ⁵⁷	Assess language impairment.	Adults (18 to 89 years).
Teste de triagem de afasia para falantes de azeri na população iraniana ⁵⁸	Screen for early diagnosis of aphasia.	Azeri-speaking Iranian population.
Teste de Triagem de Afasia do Mississippi (MAST) ⁵⁹	Assess expressive and receptive language skills in patients with aphasia.	Individuals with aphasia.
Aphasia Rapid Test (ART) ^{60,61}	Assess severity of aphasia.	Individuals with aphasia.
Dyslexia Early Screening Test – Second Edition (DEST-2) para o Português Brasileiro ⁶²	Identify risk of reading and writing disorders/dyslexia in children before learning difficulties appear.	Children (4 years and 6 months to 6 years and 5 months).
Lista de Verificação de Comunicação Infantil (CCC-2) ^{63,64}	Provide general screening for communication disorders and identify pragmatic/social interaction deficits.	Children.

Instrument Name	Instrument objective	Instrument target population
Instrumento de triagem do vocabulário receptivo e expressivo – TRILHAR ^{65,66}	Screen receptive and expressive vocabulary.	Children (3 to 7 years).
PRISE-P ⁶⁷	Assess development of pre-verbal vocalizations.	Children (3 months or older), Persian-speaking.
Escala de Desenvolvimento Newsha ⁶⁸	Assess receptive and expressive speech and language skills in children born through assisted reproductive technology (ART).	Children born through ART.
The Verbal & Non-Verbal Communication Screening Checklist for Persian Speaking Children ⁶⁹	Determine whether a child is at risk for speech and language delay or disorder.	Children (12 to 24 months), Persian-speaking.
Teste Português de Rastreio de Fala e Linguagem Pediátrica (RALF) ⁷⁰	Identify children who may need a speech-language diagnosis or referral for speech therapy services.	Portuguese-speaking children.
MacArthur Communicative Development Inventory ⁷¹	Assess communicative abilities.	Children.
Versão persa da terceira forma do Inventários de Desenvolvimento Comunicativo MacArthur-Bates CDI (CDI-III) ⁷²	Assess communication skills.	Persian-speaking children.
MacArthur-Bates Communicative Development Inventories-Korean (M-B CDI-K) ⁷³	Screen for speech and language development.	Korean-speaking children.
NeuroBel ⁷⁴	Assess psycholinguistic aspects of basic oral comprehension and language production flexibility.	Older adults.

A total of 24 screening instruments (21.4%) were identified in the area of Audiology, of which 7 (29.16%) were specifically designed for newborns (newborn hearing screening). The remaining instruments are directed at various target populations, including adults and older adults, children,

school-aged children, construction workers, among others, as detailed in Table 3. Notably, the field demonstrates innovation, with some instruments being implemented digitally—for example, those available as mobile applications and administered in electronic format.

Table 3. Characteristics of screening instruments in the speech-language pathology area of Audiology

Instrument Name	Instrument objective	Instrument target population
Emissões Otoacústicas Evocadas Transientes (EOA-T) ⁷⁵⁻⁹³	Conduct hearing screening.	Children.
Emissões otoacústicas evocadas por produto de distorção (EOA-PD) ^{78,85,94-96}	Conduct newborn hearing screening.	Newborns.
Potencial de emissão auditiva de tronco encefálico automatizado (PEAE-A) ^{75,82,85,86,89,91,93,97-100}	Conduct newborn hearing screening.	Newborns.
Aplicativo <i>Mobile Based Affordable Screening Audiometer</i> (MoBASA) ¹⁰¹	Conduct hearing screening in adults and older adults with disabling hearing loss.	Adults and older adults.
Triagem Auditiva Neonatal (TAN) ^{93,94,102-129}	Conduct newborn hearing screening.	Newborns.
Teste de Fusão Auditiva Revisado – AFT-R ¹³⁰	Assess the time difference, in milliseconds (ms), at which the listener can perceive a brief silent interval between two pure tones.	Children.
Triagem auditiva com o aplicativo uHear ¹³¹	Conduct hearing screening.	General population.
SSQ5 em português brasileiro ¹³²	Screen for hearing loss.	Adults.
Reflexo cócleo-palpebral (RCP) ⁸⁴	Conduct newborn hearing screening.	Newborns.
Audiômetro Telessaúde, baseado em software ¹⁰¹	Conduct hearing screening.	General population.
Versão eletrônica do questionário e-HHIE-S ¹⁰¹	Identify disabling hearing loss.	Adults and older adults.
Respostas Auditivas em Estado Estável (RAEE) ¹³³	Conduct hearing screening.	School-age children with difficulty performing subjective hearing tests.
Triagem otoneurológica ¹³⁴	Screen for otoneurological signs and symptoms.	Construction workers.
Teste de Sussurro (triagem auditiva) ^{135,136}	Screen for hearing acuity.	Older adults.
Hearing Handicap Inventory for the Elderly - Screening Version (HHIE-S) ^{32,137-140}	Screen hearing to identify hearing loss.	Older adults.
Autoavaliação para Triagem Auditiva do Idoso (SHSE) ¹⁴¹	Self-assess the degree of hearing loss.	Older adults.
Triagem simplificada do processamento auditivo (ASPA) ¹⁴²	Conduct simplified auditory processing screening.	Children (4 to 5 years and 11 months).
Screening Test for Auditory Processing Disorders (SCAN) ^{143,144}	Detect auditory processing disorder early.	Adults, adolescents, and children.
Avaliação Simplificada do Processamento Auditivo (triagem) ^{145,146}	Screen auditory processing.	Children with deviant speech acquisition.
Questionário <i>Scale of Auditory Behaviors</i> (SAB) ^{147,148}	Identify risk for auditory processing disorder.	Parents/caregivers and teachers of children.
AudBility: programa online para triagem do processamento auditivo central em escolares de 6 a 8 anos ^{149,150}	Screen auditory processing.	School-aged children (6 to 8 years).
Teste dicótico de dígitos (TDD) ^{142,151,152}	Analyze figure-ground ability in binaural integration and separation tasks for verbal sounds using a dichotic task.	General population.
OtoLeitor ¹⁵³	Conduct universal newborn hearing screening using a mobile platform.	Newborns.
Rastreador neonatal ABR, MB11 BERAphone ¹⁵⁴	Conduct newborn hearing screening.	Newborns.

Ten screening and triage instruments (8.9%) were identified in the area of Orofacial Motricity (OM). The objectives of these instruments are diverse, ranging from applications in neonatal populations—such as identifying breastfeeding difficulties and detecting alterations in the lingual

frenulum—to use in children, addressing functions related to speech articulation. It is evident that some instruments focus on specific aspects, such as individuals with Obstructive Sleep Apnea Syndrome (OSAS), as presented in Table 4.

Table 4. Characteristics of screening instruments in the speech-language pathology area of Orofacial Motricity

Instrument Name	Instrument objective	Instrument target population
Stop-Bang ¹⁵⁵	Screen for risk of Obstructive Sleep Apnea Syndrome in health promotion programs.	Population with Obstructive Sleep Apnea Syndrome.
The Nordic Orofacial Test – Screening (NOT-S) ¹⁵⁶	Assess orofacial dysfunctions.	Children.
Questionário de Triagem de Identificação de Sinais e Sintomas de DTM ¹⁵⁷	Screen for complaints of signs and symptoms of Temporomandibular Disorder.	General population.
Triagem Neonatal do Protocolo validado de avaliação do frênulo da língua em bebês (Teste da Linguinha) ^{158–160}	Detect alterations of the lingual frenulum.	Newborns.
Protocolo de Observação da Mamada – UNICEF ^{158–160}	Identify breastfeeding difficulties.	Infants
Procedimento de Triagem Ortodôntico-Logopédica ¹⁶¹	Screen for myofunctional disorder.	General population.
Teste de Rastreamento de Distúrbios Articulatorios de Fala (TERDAF) ^{162,163}	Identify speech problems.	Children with speech alterations.
Teste experimental de triagem de fala para ingressantes na escola ¹⁶⁴	Screen for articulation and speech disorders.	Children entering school.
Teste de palavra única para avaliação da produção de sons da fala em crianças que falam persa ^{165,166}	Assess speech sound production.	Persian-speaking children.
Escala de Contexto de Inteligibilidade (ICS-Persa) ¹⁶⁷	Screen speech intelligibility.	Persian-speaking children (4 to 6 years old).

In addition to the instruments identified in the areas of Voice, Language, Audiology, and Orofacial Motricity (OM), as presented in Tables 1 to 4, respectively, screening and triage tools were also identified in other domains of Speech-Language Pathology. A total of 12 instruments (10.7%) were found in the field of Dysphagia, namely: the *Protocolo Multiprofissional de Rastreamento de Disfagia em Pacientes HIV*¹⁶⁸, aimed at the early identification of swallowing difficulties and prevention of potential pulmonary complications in patients with HIV; the *Rastreamento para Disfagia Orofaríngea no Acidente Vascular Encefálico (RADAVE)*¹⁶⁹, for screening oropharyngeal dysphagia in stroke patients; the *Instrumento de Rastreamento para o Risco de Disfagia Pediátrica – IRRD-Ped*¹⁷⁰,

designed to identify dysphagia risk in hospitalized children through caregiver reporting; the *Protocolo de Triagem de Disfagia*¹⁷¹, which identifies dysphagia risk factors and helps determine the appropriate duration of non-oral intake in stroke patients at bedside; the *South African Dysphagia Screening (SADS)*¹⁷², developed for patients with stroke at risk of dysphagia in South Africa's public hospitals; the *Adapted Formal Dysphagia Screening Protocol*¹⁷³, used for bedside swallowing screening in at-risk patients; the *Gugging Swallowing Screen (GUSS)*¹⁷⁴, intended for identifying post-extubation dysphagia in acute stroke patients and those in intensive care units; the *Oxygen Desaturation Test combined with the 50 ml Water Swallow Test*¹⁷⁵, to detect aspiration risk in patients with acute stroke; the *Swallowing*

*Disturbance Questionnaire (SDQ)*¹⁷⁶, used to detect dysphagia complaints in individuals with neurodegenerative diseases; the *Northwestern Dysphagia Patient Check Sheet (NDPCS)*¹⁷⁷, focused on older adults with oropharyngeal dysphagia; the *Eating Assessment Tool (EAT-10)*^{178–179}, for screening dysphagia risk in the elderly; and the *Modified Volume-Viscosity Swallow Test (mV-VST)*¹⁸⁰, used for screening aspiration and dysphagia in ICU patients.

In the field of Neuropsychology, six instruments (5.4%) were identified: the *ASQ-3*^{181–182}, designed to screen neurodevelopmental domains such as communication, gross and fine motor skills, problem-solving, and personal-social functioning in children aged 1 to 66 months; the *Ages & Stages Questionnaires (ASQ)*^{167, 182–183}, which identify general developmental delays in children; the *MCAT*¹⁸⁴, used to screen communicative behavior in mental capacity evaluations of individuals with communication difficulties; the *Bayley Scales of Infant and Toddler Development – Third Edition (Bayley-III)*¹⁸⁵, which assess cognitive, receptive and expressive language, fine and gross motor skills, adaptive behavior, and socioemotional development in children aged 16 days to 42 months and 15 days; the *PEDS – Developmental Milestones (PEDS-DM)*⁴³, aimed at evaluating fine and gross motor, socioemotional, self-help, expressive and receptive language, as well as literacy and numeracy in children from birth to eight years; and the *Denver Developmental Screening Test (DDST)*^{42, 71, 147, 186–191}, intended for developmental screening in pediatric populations. Notably, the primary target of these instruments is the pediatric population, with a focus on identifying developmental delays.

Two screening instruments (1.8%) were identified in the area of Hospital Speech-Language Pathology: the *Protocolo de Triagem para Identificação das Manifestações Fonoaudiológicas na Hanseníase*¹⁹², intended to identify speech-language manifestations in patients with leprosy; and the *Palliative Performance Scale (PPS)*¹⁹³, used to grade functional status in patients receiving palliative care.

Two instruments (1.8%) were also found in the field of Fluency: the *Protocolo de Risco para a Gagueira do Desenvolvimento (PRGD)*¹⁹⁴, aimed at early intervention for developmental stuttering in children; and the *Instrumento de Rastreamento*

*para a Gagueira do Desenvolvimento (IRGD)*¹⁹⁵, which seeks to identify risk of developmental stuttering in preschool-aged children.

One instrument (0.9%) was identified in the field of Educational Speech-Language Pathology: the *Developmental Dyslexia Screening Scale (DD)*¹⁹⁶, designed to screen for symptoms of developmental dyslexia and intended for teachers and professionals working with literacy-stage children.

All screening and triage instruments included in this review were published between 1980 and 2024.

Discussion

The screening instruments included in this study reveal a higher number of publications in the more traditional areas of Speech-Language Pathology—namely, Language, Voice, and Audiology—relative to the historical emergence of the profession, as well as in more recently established areas such as Dysphagia, Hospital Speech-Language Pathology, Educational Speech-Language Pathology, Neuropsychology, and Fluency.

The distribution of instruments in the older fields of the profession may be related to the historical context of their development. The origins of Speech-Language Pathology in the 1920s and 1930s are linked to issues in both education and health, particularly concerning efforts to promote literacy among immigrant populations, as part of the nationalist policies of that period¹⁹⁷.

In the early stages of the profession, there was a strong emphasis on standardizing spoken language in Brazil, aiming to suppress regional and foreign-accented variations due to the influx of immigrants. At that time, specialized teachers, known as orthophonists, were responsible for correcting what were considered speech deviations¹⁹⁷. Consequently, some individuals were identified with language difficulties that could hinder the literacy process. Since then, both educators and healthcare professionals have emphasized the detection and intervention of language-related issues. Throughout its history, the field has witnessed the development and refinement of clinical techniques that laid the foundation for what would become Clinical Speech-Language Pathology¹⁹⁸, through the application of structured methods, diagnostic tests, and tools tailored to clinical reasoning.

Based on this context, it can be inferred that traditional screening tools in Speech-Language Pathology represent a method for the rapid identification of individual risk factors—from pediatric to geriatric populations—aimed at detecting the presence of specific disorders or impairments, thereby supporting referrals to specialists or more detailed evaluations¹⁸⁴.

It is important to note that the screening instruments examined in this study address diverse target populations and span a wide range of age groups, from early childhood⁵⁰ to older adults⁷⁴. The pediatric age range covered includes neonates^{158–160}, infants^{159–160}, preschoolers¹⁴², and children^{65–66}. Additionally, some instruments^{43–45} include the participation of caregivers, and others involve the collaboration of educational professionals¹⁹⁶ for literacy-related screening.

Some instruments, although classified under the domains of Voice, Language, and Audiology, are used with older adults and therefore pertain to Gerontology, which became an officially recognized specialty within Speech-Language Pathology in 2015, according to Resolution CFFa No. 463¹⁹⁸. For this reason, considering the historical development of the specialties—particularly Gerontology, which is relatively recent—some instruments in this study were categorized under older areas rather than being specifically assigned to Gerontology.

A similar situation applies to the specialty of Otoneurology, which was only recently regulated by Resolution CFFa No. 718, issued on December 15, 2023¹⁹⁹. As a result, instruments specific to this area^{142,145,146} were classified under Audiology, as Otoneurology was previously subsumed within that field.

It is understood that the expansion and establishment of new areas emerging from the traditional domains of Speech-Language Pathology—as observed with Gerontology and Otoneurology—reflect the profession's growth, often driven by clinical practice and interventions targeted to specific populations, as well as by scientific advancements, as evidenced by the body of research produced in the field.

Similarly, in the specialty of Occupational Speech-Language Pathology, officially recognized by Resolution CFFa No. 467²⁰⁰ on April 24, 2015, some instruments related to this field are categorized under other specialties, namely Voice and Audiology. In the present review, the presence

of instruments aimed at identifying risk factors is evident across various areas—for instance, in Voice, to detect vocal alterations; in Language, to uncover manifestations of language development that may lead to disorders; and in Audiology, to identify hearing loss.

There are particularities regarding the settings in which these instruments are applied. Most notably, those in the areas of Hospital Speech-Language Pathology and Dysphagia are predominantly used in hospital settings, particularly at the bedside¹⁷³, as they aim to detect risk factors related to swallowing disorders. In the field of Dysphagia, specific indications for patients with comorbidities¹⁷¹ are also highlighted, across different life stages. It is worth noting that the number of instruments identified in Hospital Speech-Language Pathology—regulated by Resolution CFFa No. 656, dated March 3, 2022²⁰¹—is lower than that in Dysphagia, which was regulated earlier, by Resolution CFFa No. 383, dated March 20, 2010²⁰². This discrepancy may be associated with the time of official recognition of each specialty. It is reasonable to consider that the growing demand for speech-language pathologists in hospital settings may have contributed to the establishment of this new specialty, even if it still relies on previously developed instruments for Dysphagia.

The formation of specialties within Speech-Language Pathology tends to follow the increasing demand in specific areas and the growth of scientific knowledge in those domains. In this review, it became evident that instruments originally developed for one area are often used in other areas, some of which have only recently been regulated. Moreover, instruments originating from other fields, such as Medicine¹⁸⁷—particularly those used for neuropsychomotor development screening and assessment of cognitive abilities—are also applied by speech-language pathologists, given that their administration is permitted across multiple health professions.

In general, screening instruments may be intended for large populations across various age groups and for services with high demand, provided they have defined cutoff values suited to the specific context¹⁶. These tools must be quick to apply, easy to administer, and pose minimal risk to individuals, while ensuring results with good sensitivity⁴². Although the present review did not aim to assess the validation processes of the included instruments,

it is essential that psychometric properties such as validity and accuracy⁴², as well as eligibility, sensitivity, and specificity, are considered.

It was possible to identify that some instruments offer innovative forms of application, especially in the area of Audiology, where there are online screening programs¹⁴⁹, electronic-format questionnaires¹⁰¹, smartphone-based screening applications⁷⁶, and software-based audiometers¹⁰¹. Based on recommendations for improvement, further research involving adaptations to existing instruments may be proposed. In the present review, it was noted that some instruments²⁰³ were reformulated to meet specific demands or target populations, based on prior studies; such re-adaptations led to significant improvements aimed at enhancing the achievement of the intended objectives of these instruments.

The analysis of this review also revealed a common practice of adapting and validating instruments, including cross-cultural adaptations, to support the development of other tools^{44–45,48}. Adapted instruments often rely on existing protocols and are modified following pilot testing, with the goal of achieving greater detail⁴⁶ prior to subsequent formal testing. An example is the development of a tool⁴⁵ adapted by Brazilian researchers to screen for Autism Spectrum Disorder (ASD) and developmental risks in children, which was validated for use in Brazil by healthcare professionals⁴⁴.

The creation of new instruments through adaptation can be explained by the scarcity of tools tailored to specific populations. For instance, in the pediatric population, instruments¹⁷⁰ are sometimes adapted from those originally designed for adults. While speech-language pathology services are more frequently directed at adults (ages 20 to 59), the number of instruments available for children appears to be lower²⁰⁴.

According to Resolution No. 147/96 of the CFFa, the first areas of specialization in Speech-Language Pathology were Language, Audiology, Voice, and Orofacial Motricity (OM)²⁰⁵, with the latter being associated with the smallest number of screening instruments found in this review.

In some cases, assessment instruments are partially used for screening purposes in specific populations, as observed in a study in the area of Orofacial Motricity (OM), which applied an assessment protocol²⁰⁶ in a summarized manner for triage purposes, in order to investigate potential

stomatognathic alterations. This finding highlights the importance of expanding research aimed at developing new screening instruments not only in OM but also across other speech-language pathology specialties. Screening tools, which are designed for the simple, cost-effective, and rapid detection of a likely disorder or injury in any individual, followed by referral for confirmatory diagnosis and treatment⁹, differ conceptually and functionally from assessment tools.

The limitations identified in this scoping review mainly concern the difficulty in locating speech-language screening instruments using the key descriptor “screening programs,” as recommended by the DeCS. This created a constraint in adhering strictly to the methodological search strategy, particularly regarding descriptor terminology. It is important to note that several instruments¹⁵⁷ were inaccurately described as “assessment” tools, even though they were intended for triage purposes. This limitation, however, did not compromise the results of the review, as the researchers conducted a meticulous analysis of the included articles and also manually added widely used instruments in the field.

It is also worth noting that this review may not have captured all articles that include speech-language pathology screening and triage instruments, as it was not possible to retrieve articles that did not utilize the recommended DeCS/MeSH health sciences descriptors. Another limitation was the difficulty in accessing screening and triage instruments published in book chapters and foundational speech-language pathology reference texts, as well as those used in outpatient clinics and academic institutions that have not yet been published in scientific journals. Similarly, challenges arose in accessing instruments developed in theses, dissertations, or even scientific articles that were not published in open-access journals. The authors sought to mitigate these limitations through careful and detailed analysis.

In light of these considerations, particularly regarding the importance of developing, designing, and adapting screening instruments, it is hoped that the present study will underscore the need to expand research efforts aimed at creating new screening tools, thereby providing enhanced resources to support clinical practice across the various specialties within Speech-Language Pathology.

Conclusion

There are several speech-language pathology screening and triage instruments developed for specific areas of the field, with a higher concentration in the more traditional domains of Language, Voice, and Audiology. It is considered necessary to expand research and develop new instruments for the other areas of Speech-Language Pathology, including Orofacial Motricity (OM) and more recently established specialties such as Dysphagia, Hospital Speech-Language Pathology, Educational Speech-Language Pathology, Fluency, and Neuropsychology. The goal is to guide professional decision-making and enhance clinical reasoning and intervention strategies.

References

1. Conselho Federal de Fonoaudiologia - CFFa. Conselhos Regionais. <https://fonoaudiologia.org.br/conselhos-regionais/>.
2. Conselho Federal de Fonoaudiologia - CFFa - 7o Colegiado. Exercício profissional do profissional fonoaudiólogo. 2002 dez. <https://crefono04.org.br/cms/files/legislacao/Acoes-Inerentes.pdf>
3. Goulart BN, Chiari BM. Testes de rastreamento x testes de diagnóstico: atualidades no contexto da atuação fonoaudiológica. *Pro Fono Rev Atualizacao Cient* [Internet]. Jun 2007;19(2): 223-32. Disponível em: <https://doi.org/10.1590/s0104-56872007000200011>
4. Oliveira P, Lima Neto ED, Lopes L, Behlau M, Lima HM, Almeida AA. Brazilian dysphonia screening tool (br-dst): an instrument based on voice self-assessment items. *J Voice* [Internet]. Fev 2021. Disponível em: <https://doi.org/10.1016/j.jvoice.2020.12.052>
5. Costa BCADS, ZANINI DS. Sensibilidade e especificidade de instrumentos psicológicos na avaliação do transtorno de déficit de atenção e hiperatividade: um estudo de revisão sistemática. *Cad Pós-Graduação em Distúrbios do Desenvol*. 2020; 20(1).
6. Molini-Avejonas DR, Estevam SF, Couto MI. Organization of the referral and counter-referral system in a speech-language pathology and audiology clinic-school. *CoDAS* [Internet]. Jun 2015; 27(3): 273-8. <https://doi.org/10.1590/2317-1782/20152014158>
7. Oliveira P, Lima HM, Sousa MD, Almeida LN, Silva HF, Ugolino AC, et al. Comparação da eficiência de diferentes instrumentos de autoavaliação para o rastreio da disfonia. *CoDAS* [Internet]. 2023; 35(2). <https://doi.org/10.1590/2317-1782/20232021123pt>
8. Conselho Federal de Fonoaudiologia - CFFa. Como obter ou renovar o Título de Especialista. <https://fonoaudiologia.org.br/fonoaudiologos/como-obter-ou-renovar-o-titulo-de-especialista/>.
9. Correia C, Ribeiro VV, Silva PO, Behlau M. Cross-cultural adaptation of the dysphonia screening tool (dst-br) for european portuguese (EP). *CoDAS* [Internet]. 2024; 36(2). <https://doi.org/10.1590/2317-1782/20232023080en>
10. Ferrari EP, Duarte JMT, Simões-Zenari M, Vilela N, Master S, Nemr K. Risk of dysphonia in theater actors: proposal for a screening protocol. *J Voice* [Internet]. Maio 2023. <https://doi.org/10.1016/j.jvoice.2023.04.015>
11. Zenari MS, Cota AD, Rodrigues DD, Nemr K. Do professionals who use the voice in a journalistic context benefit from humming as a semi-occluded vocal tract exercise? *J Voice* [Internet]. Abr 2021. <https://doi.org/10.1016/j.jvoice.2021.03.011>
12. Idris F, Azman M, Zawawi NSM, Baki MM. Determining cutoff point in bahasa malaysia version of voice handicap index-10 (mvhi-10). *J Voice* [Internet]. Jul 2023 <https://doi.org/10.1016/j.jvoice.2023.05.021>
13. Dornelas R, Guedes-Granzotti RB, Souza AS, Jesus AK, Silva KD. Qualidade de vida e voz: a autopercepção vocal de pessoas transgênero. *Audiol Commun Res* [Internet]. 2020 <https://doi.org/10.1590/2317-6431-2019-2196>
14. Oliveira JCDS, Duarte JMT, Simões-Zenari M, Nemr K. Risk of Dysphonia, Presence of Vocal Changes, and Vocal Self-Perception in Brazilian Transgender Women. *J Voice*. 2024 Jan 31; S0892-1997(23)00409-5. doi: 10.1016/j.jvoice.2023.12.017
15. Amaral AC, Zambon F, Moreti F, Behlau M. Desconforto do trato vocal em professores após atividade letiva. *CoDAS* [Internet]. 2017 <https://doi.org/10.1590/2317-1782/20172016045>
16. Moreti F, Morasco-Geraldini B, Claudino-Lopes SA, Carrara-de Angelis E. Sinais, sintomas e função vocal em indivíduos com disfagia tratados de câncer de cabeça e pescoço. *Audiol Commun Res* [Internet]. 18 out 2018 <https://doi.org/10.1590/2317-6431-2017-1873>
17. Lima C, Diedio P, Brasolotto AG, Antonetti-Carvalho AE, Silverio K. Effects of indirect vocal therapy via telehealth in speech-language therapy on self-assessment and vocal quality of physical education professionals. *Rev CEFAC*. 2023; 25(2).
18. Almeida AA, Fernandes LR, Azevedo EH, Pinheiro RS, Lopes LW. Characteristics of voice and personality of patients with vocal fold immobility. *CoDAS* [Internet]. Abr 2015; 27(2): 178-85. <https://doi.org/10.1590/2317-1782/20152014144>
19. Freitas CN, Almeida AA, Ferreira DA, Medeiros CM, Silva MF. Condições de trabalho e de voz em professores de escolas públicas e privadas. *Audiol Commun Res* [Internet]. 2019; 24. <https://doi.org/10.1590/2317-6431-2019-2151>
20. Mota AF, Pellicani AD, Dornelas R, Riez LN. Condição de produção vocal do professor em diferentes situações funcionais. *CoDAS* [Internet]. 2022; 34(1). <https://doi.org/10.1590/2317-1782/20202020208>
21. Penha PB, Lima Filho LM, Ferreira LP, Almeida AA, Lopes LW, Lima Silva MF. Effectiveness of a blended-learning intervention in teachers' vocal health. *J Voice* [Internet]. Jun 2021. <https://doi.org/10.1016/j.jvoice.2021.03.012>
22. Murta JAN, Barbosa MS, Caldeira AP, Barbosa-Medeiros MR, Rossi-Barbosa LAR. Fatores associados às queixas vocais autorreferidas por agentes comunitários de saúde. *CoDAS*. 2021; 33(1).
23. Andrade BM, Giannini SP, Duprat AD, Ferreira LP. Relação entre a presença de sinais videolaringoscópicos sugestivos de refluxo laringofaríngeo e distúrbio de voz em professoras. *CoDAS* [Internet]. 7 jul 2016; 28(3): 302-10. <https://doi.org/10.1590/2317-1782/20162015122>



24. Nascimento TL, Santana ÉR, Silva Filho AM, Magacho-Coelho C, Sacramento LS. Dermatoglyphy and vocal condition of professors. *Audiol Commun Res* [Internet]. 2022; 27. <https://doi.org/10.1590/2317-6431-2022-2670en>
25. Campos AGRS, Oliveira LT, Medeiros DS, Pereira SAA, Barbosa-Medeiros M, Rossi-Barbosa LAR. Factors associated with vocal problems in teachers from Montes Claros, Minas Gerais. *O Mundo Saude* [Internet]. 1 jan 2022; 46:199-208. <https://doi.org/10.15343/0104-7809.202246199208>
26. Souza RC, Masson ML, Araújo TM. Efeitos do exercício do trato vocal semiocluido em canudo comercial na voz do professor. *Rev CEFAC* [Internet]. Jun 2017;19(3): 360-70. <https://doi.org/10.1590/1982-0216201719315516>
27. Lopes TV, Ghirardi AC. Qualidade de vida em voz e sintomas vocais de cantores solistas amadores da Igreja Batista Palavra Viva de Florianópolis. *Distúrbios Comun* [Internet]. 27 mar 2017; 29(1): 33. <https://doi.org/10.23925/2176-2724.2017v29i1p33-40>
28. T Takishima M, Gielow I, Madazio G, Behlau M. O impacto da afinação vocal na análise perceptivo-auditiva de vozes normais e alteradas. *CoDAS* [Internet]. 2020; 32(4). <https://doi.org/10.1590/2317-1782/20202019135>
29. Moreti F, Pereira LD, Gielow I. Triagem da Afinação Vocal: comparação do desempenho de musicistas e não musicistas. *J Soc Bras Fonoaudiol* [Internet]. 2012; 24(4): 368-73. <https://doi.org/10.1590/s2179-64912012000400013>
30. Azevedo LL, Passaglio KT, Rosseti MB, Silva CB, Oliveira BF, Costa RC. Avaliação da performance vocal antes e após a vibração sonorizada de língua. *Rev Soc Bras Fonoaudiol* [Internet]. 2010;15(3): 343-8. <https://doi.org/10.1590/s1516-80342010000300006>
31. Guimarães I, Torrejano G, Aires R, Caetano M, Fernandes A, Martins P, et al. Voice handicap index: cut-off points for screening european portuguese with voice disorders. *J Voice* [Internet]. Out 2023. <https://doi.org/10.1016/j.jvoice.2023.08.018>
32. Jesus JD, Ferreira FR, Andrade AC, Medeiros AM. Idosos de uma antiga colônia brasileira de hanseníase: vulnerabilidade clínico-funcional e autopercepção vocal e auditiva. *CoDAS* [Internet]. 2021; 33(5). <https://doi.org/10.1590/2317-1782/20202020058>
33. Ohlsson AC, Demitz-Helin G, Furu AC, Hällgren I, Karjalainen S. Potential risk factors and prevalence of voice symptoms in students starting their teacher education. *J Voice* [Internet]. Set 2019. <https://doi.org/10.1016/j.jvoice.2019.08.008>
34. Santos PC, Romão ND, Jesus JD, Bassi IB, Medeiros AM. Alteração vocal em idosos ativos e fatores associados. *Audiol Commun Res* [Internet]. 2020;25. <https://doi.org/10.1590/2317-6431-2020-2365>
35. Vital HR, Lima-Silva MF, Almeida LN, Almeida AA. Sintomas vocais auditivos e proprioceptivos pré e pós-terapia de grupo de pacientes com disfonia. *Rev CEFAC* [Internet]. Out 2016;18(5):1189-99. <https://doi.org/10.1590/1982-0216201618521315>
36. Nemr K, Souza GV, Simões-Zenari M, Tsuji DH, Hachiya A, Cordeiro GF, et al. Cognitive Vocal Program applied to individuals with signals presbylarynx: preliminary results. *CoDAS* [Internet]. Dez 2014; 26(6): 503-8. <https://doi.org/10.1590/2317-1782/20142014108>
37. Nemr K, Simões-Zenari M, Duarte J, Lobrigate K, Bagatini F. Dysphonia risk screening protocol. *Clinics* [Internet]. 25 mar 2016;71(3):114-27. [https://doi.org/10.6061/clinics/2016\(03\)01](https://doi.org/10.6061/clinics/2016(03)01)
38. Thomas L, Jones TM, Tandon S, Carding P, Lowe D, Rogers S. Speech and voice outcomes in oropharyngeal cancer and evaluation of the University of Washington Quality of Life speech domain. *Clin Otolaryngol* [Internet]. Fev 2009; 34(1): 34-42. <https://doi.org/10.1111/j.1749-4486.2008.01830.x>
39. Zainae S, Khadivi E, Jamali J, Sobhani-Rad D, Maryn Y, Ghaemi H. The Acoustic Voice Quality Index, version 2.06 and 3.01, for the Persian-Speaking Population. *J Commun Disord* [Internet]. Nov 2022;106279. <https://doi.org/10.1016/j.jcomdis.2022.106279>
40. Ohlsson AC, Andersson EM, Södersten M, Simberg S, Barregård L. Prevalence of voice symptoms and risk factors in teacher students. *J Voice* [Internet]. Set 2012; 26(5): 629-34. <https://doi.org/10.1016/j.jvoice.2011.11.002>
41. Gullino MBMR, Simões-Zenari M, Rodrigues DA, Said GC, Nemr K. Risk of dysphonia in legal professionals: proposal for a screening protocol. *Rev Investig Innovacion En Cienc Salud* [Internet]. 30 nov 2023; 5(2): 93-111. <https://doi.org/10.46634/riics.236>
42. Almeida DP, Cordeiro AA, Almeida LN, Queiroga CA, Queiroga BA. Evidence of concurrent and predictive criterion validity of the Child Communication Screening Instrument from 0 to 36 months (IRC-36). *CoDAS* [Internet]. 2024; 36(1). <https://doi.org/10.1590/2317-1782/20232022218en>
43. Thomas RE, Spragins W, Mazloun G, Cronkhite M, Maru G. Rates of detection of developmental problems at the 18-month well-baby visit by family physicians' using four evidence-based screening tools compared to usual care: a randomized controlled trial. *Child* [Internet]. 8 abr 2016;42(3): 382-93. <https://doi.org/10.1111/cch.12333>
44. Machado FP, Palladino RR, Barnabé LM, Cunha MC. Respostas parentais aos sinais clássicos de autismo em dois instrumentos de rastreamento. *Audiol Commun Res* [Internet]. 2016; 21. <https://doi.org/10.1590/2317-6431-2015-1659>
45. Machado FP, Palladino RRR., Lewis DR., Cunha MC. Surdez e transtornos do espectro do autismo: reflexões sobre a avaliação fonoaudiológica para o diagnóstico diferencial. *Distúrbios da Comun.* março de 2016; 28(1): 171-4.
46. Lagus S, Fernandes FD. Proposal of a questionnaire to investigate social communication skills of children with typical development and communication disorders. *Rev CEFAC* [Internet]. 2021; 23(4). <https://doi.org/10.1590/1982-0216/202123413520>
47. Machado FP, Lerner R, Novaes BC, Palladino RR, Cunha MC. Questionário de indicadores clínicos de risco para o desenvolvimento infantil: avaliação da sensibilidade para transtornos do espectro do autismo. *Audiol Commun Res* [Internet]. Dez 2014;19(4): 345-51. <https://doi.org/10.1590/s2317-64312014000300001392>
48. Kapalková S, Polišenská K, Vicenová Z. Non-word repetition performance in Slovak-speaking children with and without SLI: novel scoring methods. *Int J Lang Amp Commun Disord* [Internet]. 2 nov 2012; 48(1): 78-89. <https://doi.org/10.1111/j.1460-6984.2012.00189.x>



49. Gentileau-Lambin P, Nicli J, Richard AF, Macchi L, Barbeau C, Nguyen S, et al. Assessment of conversational pragmatics: a screening tool for pragmatic language impairment in a control population of children aged 6–12 years. *Arch Pediatr* [Internet]. Maio 2019; 26(4): 214-9. <https://doi.org/10.1016/j.arcped.2019.03.004>
50. Petit-Carrié S, Verret C, Cossard A, Maurice-Tison S. Accès aux soins orthophoniques précoces en Gironde: évaluation d'une campagne de dépistage des troubles du langage à 4 ans (1999–2001). *Arch Pediatr* [Internet]. Out 2003;10(10): 869-75. <https://doi.org/10.1016/j.arcped.2003.08.003>
51. Burden V, Stott CM, Forge J, Goodyer L. The cambridge language and speech project (clasp). I detection of language difficulties at 36 to 39 months. *Dev Med Amp Child Neurol* [Internet]. 12 nov 2008; 38(7): 613-31. <https://doi.org/10.1111/j.1469-8749.1996.tb12126.x>
52. Thunstedt DC, Young P, Küpper C, Müller K, Becker R, Erbert F, et al. Follow-Up in aphasia caused by acute stroke in a prospective, randomized, clinical, and experimental controlled noninvasive study with an ipad-based app (neolexon®): study protocol of the lexi study. *Front Neurol* [Internet]. 30 abr 2020;11. <https://doi.org/10.3389/fneur.2020.00294>
53. Mousavi SZ, Jafari R, Maroufizadeh S, Shahramnia MM, Pourmohammadi M, Jalilehvand N. Validity and reliability of the persian version of language screening test (LAST) for patients in the acute phase of stroke. *Funct Disabil J* [Internet]. 30 dez 2020; 3(1): 91-100. <https://doi.org/10.32598/fdj.3.13>
54. Mdalo T, Flack PS, Joubert RW. The cat on a hot tin roof? Critical considerations in multilingual language assessments. *South Afr J Commun Disord* [Internet]. 30 maio 2019; 66(1). <https://doi.org/10.4102/sajcd.v66i1.610>
55. Ribeiro UASL, Vicente LCC, Lemos SMA. Letramento funcional em saúde em adultos e idosos com disfagia. *Audiol, Commun Res* [Internet]. 2021; 26: e2351. <https://doi.org/10.1590/2317-6431-2020-2351>
56. Krzok F, Rieger V, Niemann K, Nobis-Bosch R, Radermacher I, Huber W, et al. The novel language-systematic aphasia screening SAPS: screening-based therapy in combination with computerised home training. *Int J Lang Commun Disord*. 8 de março de 2018; 53(2): 308–23. doi: 10.1111/1460-6984.12350.
57. Neves MD, Borsel JV, Pereira MM, Paradelo EM. Cross-cultural adaptation of the western aphasia battery - revised screening test to brazilian portuguese: a preliminary study. *CoDAS* [Internet]. Fev 2014; 26(1): 38-45. <https://doi.org/10.1590/s2317-17822014000100006>
58. Salehi S, Jahan A, Mousavi N, Hashemilar M, Razaghi Z, Moghadam-Salimi M. Developing Azeri aphasia screening test and preliminary validity and reliability. *Iran J Neurol*. 7 de outubro de 2016; 15(4):183–8.
59. Khatoonabadi AR, Nakhostin-Ansari N, Piran A, Tahmasian H. Development, cross-cultural adaptation, and validation of the Persian Mississippi Aphasia Screening Test in patients with post-stroke aphasia. *Iran J Neurol*. 4 de abril de 2015;14(2):101–7.
60. Tábuas-Pereira M, Freitas S, Beato-Coelho J, Ribeiro J, Parra J, Martins C, et al. Aphasia Rapid Test: Estudos de Tradução, Adaptação e Validação para a População Portuguesa. *Acta Med Port*. 30 de maio de 2018; 31(5): 265–71.
61. Mousavi SZ, Jafari R, Maroufizadeh S, Shahramnia MM, Pourmohammadi M, Jalilehvand N. Translation, validity, and reliability of the persian version of aphasia rapid test for acute stroke. *Funct Disabil J* [Internet]. 30 dez 2020; 3(1):101-10. <https://doi.org/10.32598/fdj.3.15>
62. Matta TRG, Befi-Lopes DM. Brazilian portuguese adaptation of dyslexia early screening test - second edition: preliminary findings. *CoDAS* [Internet]. Jun 2015; 27(3): 301-3. <https://doi.org/10.1590/2317-1782/20152014191>
63. Norbury CF, Nash M, Baird G, Bishop DV. Using a parental checklist to identify diagnostic groups in children with communication impairment: a validation of the Children's Communication Checklist—2. *Int J Lang Amp Commun Disord* [Internet]. Jan 2004; 39(3): 345-64. <https://doi.org/10.1080/1368280410001654883>
64. McCool S, Stevens IC. Identifying speech, language and communication needs among children and young people in residential care. *Int J Lang Amp Commun Disord* [Internet]. 13 abr 2011; 46(6): 665-74. <https://doi.org/10.1111/j.1460-6984.2011.00037.x>
65. Barbosa AL, Lemos FF, Azoni CA. Aplicação de um instrumento de triagem do vocabulário para crianças entre 3 e 7 anos: estudo piloto. *CoDAS* [Internet]. 2021; 33(2). <https://doi.org/10.1590/2317-1782/20202019154>
66. Barbosa AL, Azoni CA. Validade baseada nos processos de resposta do trilhar – instrumento de triagem do vocabulário infantil. *CoDAS* [Internet]. 2021; 33(1). <https://doi.org/10.1590/2317-1782/20202019285>
67. Oryadi-Zanjani MM. Production of Infant Scale Evaluation (PRISE) in Persian normal hearing children: a validation study. *Int J Pediatr Otorhinolaryngol* [Internet]. Out 2018;113:76-81. <https://doi.org/10.1016/j.ijporl.2018.07.036>
68. Dehghan M, Kuhi M, Rezvani S, Esmaeilzadeh S, Samadinezhad H, Basirat Z, et al. Speech and language development of children born following assisted reproductive technologies. *Int J Pediatr Otorhinolaryngol* [Internet]. Jul 2020;134:110060. <https://doi.org/10.1016/j.ijporl.2020.110060>
69. Safariyan N, Jalilevand N, Kamali M, Ebrahimipour M, Mehri A. The verbal & non-verbal communication screening checklist for persian speaking children from 12 to 24 months and its validity and reliability. *Iran Rehabil J* [Internet]. 1 mar 2017;15(1):71-6. <https://doi.org/10.18869/nrip.irj.15.1.71>
70. Lousada M, Valente ARS, Mendes A. Validation of a Paediatric Speech and Language Screening (RALF). *Folia Phoniatr Logop*. 2016; 68(6): 247–51.
71. Cavalheiro MG, Lamônica DAC, Vasconcellos Hage SR, Maximino LP. Child development skills and language in toddlers with cleft lip and palate. *Int J Pediatr Otorhinolaryngol*. janeiro de 2019;116:18–21.
72. Mokhtari F, Kazemi Y, Feizi A, Dale P. Psychometric properties of the macarthur-bates communicative development inventories-iii (CDI-III) in 30 to 37 months old persian-speaking children. *J Rehabil* [Internet]. 1 out 2022; 23(3): 372-91. <https://doi.org/10.32598/rj.23.3.3166.3>
73. Kim SW, Jeon HR, Park EJ, Kim HI, Jung DW, Woo MR. The usefulness of M-B CDI-K short form as screening test in children with language developmental delay. *Ann Rehabil Med* [Internet]. 2014; 38(3): 376. <https://doi.org/10.5535/arm.2014.38.3.376>



74. Bermúdez-Llusá G, Adrián JA, Arango-Lasprilla JC, Cuetos F. NeuroBel: Spanish screening test for oral psycholinguistics disabilities in elderly people with mild cognitive impairment and early-stage Alzheimer's disease. *J Commun Disord* [Internet]. Nov 2019; 82:105943. <https://doi.org/10.1016/j.jcomdis.2019.105943>
75. Lima MCMP, Rossi TRF, Françaço MF de C, Marba ST, Lima GML, Santos MFC. Detecção de perdas auditivas em neonatos de um hospital público. *Rev da Soc Bras Fonoaudiol*. 2010;15(1):1-6.
76. Silva G, Delecrode C, Kemp A, Martins F, Cardoso A. Transient Evoked and Distortion Product Otoacoustic Emissions in a Group of Neonates. *Int Arch Otorhinolaryngol*. 2 mar 2015;19(03): 255-8. <https://doi.org/10.1055/s-0035-1546431>
77. Durante AS, Carvallo RMM, Costa FS, Soares JC. Características das emissões otoacústicas por transientes em programa de triagem auditiva neonatal. *Pró-Fono Rev Atualização Científica*. agosto de 2005;17(2):133-40.
78. Câmara MFS, Azevedo MF, Lima JWO, Sartorato EL. Efeito de fármacos ototóxicos na audição de recém-nascidos de alto risco. *Rev da Soc Bras Fonoaudiol*. 2010;15(3): 376-82.
79. Barreira-Nielsen C, Futuro Neto HA, Gattaz G. Processo de implantação de Programa de Saúde Auditiva em duas maternidades públicas. *Rev Soc Bras Fonoaudiol* [Internet]. Jun 2007;12(2): 99-105. <https://doi.org/10.1590/s1516-80342007000200006>
80. Lopes AA, Friche AA de L, Lemos SMA, Bicalho L, Silva AMM, Santos TS dos, et al. Prevalence of hearing loss and health vulnerability in children aged 25 to 36 months: an analysis of spatial distribution. *CoDAS*. 2023;35(6).
81. Angrisani RMG, Suzuki MR, Pifaia GR, Sousa EC, Gil D, Azevedo MF. Triagem auditiva neonatal com emissões otoacústicas e reflexo cocleo-palpebral: estudo da sensibilidade e especificidade. *Rev CEFAC*. 14 de outubro de 2011;14(5): 844-52.
82. Carmo MP, Almeida MG, Lewis DR. Timpanometria com tons teste de 226 Hz e 1 kHz em um grupo de lactentes com indicadores de risco para deficiência auditiva. *Rev da Soc Bras Fonoaudiol*. março de 2012;17(1): 66-72.
83. Pereira SG, Carvalho ADJA, Escarce AG, Alves JMM, Goulart LMHF, Lemos SMA. Triagem auditiva na educação infantil: associação com determinantes de saúde. *Distúrbios da Comun*. 24 de julho de 2019; 31(2): 285-96.
84. Leite RFP, Santos MSA, Ribeiro EM, Pessoa ALS, Lewis DR, Giacheti CM, et al. Triagem auditiva de crianças com síndrome congênita pelo vírus Zika atendidas em Fortaleza, Ceará, 2016. *Epidemiol e Serviços Saúde*. novembro de 2018; 27(4).
85. Kemp AAT, Delecrode CR, Silva GC, Martins F, Frizzo ACF, Cardoso ACV. Neonatal hearing screening in a low-risk maternity in São Paulo state. *Braz J Otorhinolaryngol*. 1 de setembro de 2015; 81(5): 505-13.
86. Llanes EGDV, Chiong CM. Evoked otoacoustic emissions and auditory brainstem responses: concordance in hearing screening among high-risk children. *Acta Otolaryngol*. 1 de maio de 2004;124(4): 387-90.
87. Bhatia R, Gorwara R, Gorwara R. Neonatal hearing screening- time to make a noise- experience from a private medical college in South Rajasthan. *Int J Contemp Pediatr*. 23 de agosto de 2019; 6(5): 2068.
88. Bagheri F, Miresmaeili Z, Ahmadvpour-kacho M, Ahmadi ZZ. Relationship between risk factors of hearing loss and the results of otoacoustic emission in newborns. *Hear Balanc Commun*. Mai 2023; 21(2): 82-7. DOI: 10.1080/21695717.2022.2102727
89. Abdul Hadi K, Salahaldin A, Al Qahtani A, Al Musleh Z, Al Sulaitin M, Bener A, et al. Universal neonatal hearing screening: Six years of experience in Qatar. *Qatar Med J*. dezembro de 2012; 2012(2):12.
90. Chrysouli K, Vrettakos P, Veronika A, Savva I-P, Hatzaki E, Koulou E, et al. Hearing outcomes in the audiology department of a children hospital. *Indian J Otolaryngol Head Amp Neck Surg* [Internet]. 27 mar 2023. <https://doi.org/10.1007/s12070-023-03715-3>
91. Sarafraz M, Kardooni M, Araghi S. Effective factors on auditory brainstem response test in newborns. *Biosci Biotechnol Res Asia* [Internet]. 22 dez 2015;12(3): 2557-61. <https://doi.org/10.13005/bbra/1935>
92. Silva DPC, Lopez PS, Ribeiro GE, Luna MOM, Lyra JC, Montovani JC. The importance of retesting the hearing screening as an indicator of the real early hearing disorder. *Braz J Otorhinolaryngol*. Jul 2015; 81(4): 363-7. <https://doi.org/10.1016/j.bjorl.2014.07.019>
93. Dutra MRP, Cavalcanti HG, Ferreira MÂF. Neonatal hearing screening programs: quality indicators and access to health services. *Rev Bras Saúde Matern Infant*. julho de 2022; 22(3): 593-9.
94. Canabarro MS, Machado N, Fossa V, Weiss KM, Mitre EI. Programa de triagem auditiva neonatal: resultados de um Hospital Universitário de Porto Alegre. *Rev HCPA*. 2012; 32(1): 30-34
95. Pinto VS, Lewis DR. Emissões otoacústicas: produto de distorção em lactentes até dois meses de idade. *Pró-Fono Rev Atualização Científica*. junho de 2007; 19(2):195-204.
96. MK V, V S. Hearing Screening of Newborns using Distortion Product Otoacoustic Emissions. *Bengal J Otolaryngol Head Neck Surg*. 27 de setembro de 2021; 29(2):189-95. <https://doi.org/10.47210/bjohns.2021.v29i2.478>
97. Boudewyns A, Declau F, van den Ende J, Hofkens A, Dirckx S, Van de Heyning P. Auditory neuropathy spectrum disorder (ANS) in referrals from neonatal hearing screening at a well-baby clinic. *Eur J Pediatr*. 24 de julho de 2016;175(7): 993-1000.
98. Li PC, Chen WI, Huang CM, Liu CJ, Chang HW, Lin HC. Comparison of newborn hearing screening in well-baby nursery and NICU: A study applied to reduce referral rate in NICU. *Plos One* [Internet]. 29 mar 2016;11(3): e0152028. <https://doi.org/10.1371/journal.pone.0152028>
99. Sena TA, Ramos N, Rodrigues GR, Lewis DR. Testing time comparison between two procedures with new technologies of Automated Auditory Brainstem Response (AABR). *Codas*. 2013; 25(1): 34-8. English, Portuguese. doi: 10.1590/s2317-17822013000100007. PMID: 24408168.
100. Huang L, Xiong F, Li J, Yang F. An analysis of hearing screening test results in 2291 premature infants of Chinese population. *Int J Pediatr Otorhinolaryngol*. abril de 2017; 95:15-9.
101. Balen SA, Vital BSB, Pereira RN, Lima TF de, Barros DM da S, Lopez EA, et al. Acurácia de instrumentos de custo acessível para triagem auditiva de adultos e idosos. *CoDAS*. 2021; 33(5).



102. Oliveira T da S, Dutra MRP, Cavalcanti HG. Triagem Auditiva Neonatal: associação entre a cobertura, oferta de fonoaudiólogos e equipamentos no Brasil. *CoDAS*. 2021; 33(2).
103. Lima PT, Goldbach MG, Monteiro MC, Ribeiro MG. A triagem auditiva neonatal na Rede Municipal do Rio de Janeiro, Brasil. *Cien Saude Colet*. janeiro de 2015; 20(1): 57–63.
104. Besen E, Paiva KM, Gonçalves LF, Samelli AG, Machado MJ, Silva AQA, et al. Universal neonatal hearing screening before and during the COVID-19 pandemic. *Int J Pediatr Otorhinolaryngol* [Internet]. Jul 2023;111689. <https://doi.org/10.1016/j.ijporl.2023.111689>
105. Pereira PKS, Martins AS, Vieira MR, Azevedo MF. Programa de triagem auditiva neonatal: associação entre perda auditiva e fatores de risco. *Pró-Fono Rev Atualização Científica*. setembro de 2007;19(3): 267–78.
106. Oliveira JS, Rodrigues LB, Aurélio FS, Silva VB. Risk factors and prevalence of newborn hearing loss in a private health care system of Porto Velho, Northern Brazil. *Rev Paul Pediatr*. setembro de 2013; 31(3): 299–305.
107. Sabbag JC, Lacerda ABM. Rastreamento e monitoramento da Triagem Auditiva Neonatal em Unidade de Estratégia de Saúde da Família: estudo-piloto. *CoDAS*. 10 de agosto de 2017; 29(4).
108. Dutra MRP, Araújo AGF, Xavier CCS, Holanda NSO, Lima JCS, Pereira SA. Indicadores de qualidade de triagem auditiva e de avaliação do frênulo lingual neonatal. *CoDAS*. 2020; 32(3).
109. Botasso KC, Lima MCMP, Correa CRS. Análise de um programa de saúde auditiva infantil ambulatorial: da triagem ao encaminhamento para reabilitação. *CoDAS*. 2022; 34(4).
110. Januário GC, Alves CRL, Lemos SMA, Almeida MCM, Cruz RC, Friche AAL. Índice de Vulnerabilidade à Saúde e triagem auditiva neonatal: diferenciais intraurbanos. *CoDAS*. outubro de 2016; 28(5): 567–74.
111. Vernier LS, Castelli CTR, Rothermel SS, Paniz TC, Zanini C, Levandowski DC. Triagem auditiva neonatal em hospital da Rede Cegonha. *Rev Bras em Promoção da Saúde*. outubro de 2019; 32: 1–9.
112. Rechia IC, Liberalesso KP, Angst OV, Mahl FD, Garcia MV, Biaggio EP. Intensive care unit: results of the Newborn Hearing Screening. *Braz J Otorhinolaryngol* [Internet]. Jan 2016; 82(1): 76–81. <https://doi.org/10.1016/j.bjorl.2015.06.004>
113. Besen E, Paiva KM, Cigana LB, Machado MJ, Samelli AG, Haas P. Prevalence of Congenital Infections in Newborns and Universal Neonatal Hearing Screening in Santa Catarina, Brazil. *Audiol Res*. 27 de janeiro de 2023; 13(1): 107–15.
114. Soares CP, Marques LR, Flores NGC. Triagem auditiva neonatal: aplicabilidade clínica na rotina dos médicos pediatras neonatologistas. *Rev CEFAC*. março de 2008;10(1):110–6.
115. Campos ACM, Shirane HY, Takemoto PVA, Lourenço EA. Universal newborn hearing screening: knowledge of pediatricians and neonatologists in the city of Jundiaí, São Paulo, Brazil. *Braz J Otorhinolaryngol*. Set 2014 [citado 26 jan 2025]; 80(5): 379–85. <https://doi.org/10.1016/j.bjorl.2014.07.006>
116. Van Noort-van der Spek IL, Goedegebure A, Hartwig NG, Kornelisse RF, Franken MJP, Weisglas-Kuperus N. Normal neonatal hearing screening did not preclude sensorineural hearing loss in two-year-old very preterm infants. *Acta Paediatr*. 13 de outubro de 2017; 106(10): 1569–75.
117. Sija S, Gireeshan VK, Ajith Kumar VT, Rajesh T V. Outcome of a Newborn Hearing Screening Program in a Tertiary Care Center, South India. Vol. 2022, *The Journal of Early Hearing Detection and Intervention*.
118. Moura RP, Resende LM, Carvalho SAS, Anchieta LM. Evaluation of the implementation of a newborn hearing screening protocol specific to children with risk indicators in a public maternity in Minas Gerais. *Rev Médica Minas Gerais*. 2015; 25(2).
119. Oliveira C, Machado M, Zenha R, Azevedo L, Monteiro L, Bicho A. Congenital or early acquired deafness: An overview of the Portuguese situation, from diagnosis to follow-up. Vol. 32, *Acta Medica Portuguesa*. CELOM; 2019. p. 767–75.
120. Botelho JBL, Carvalho DM, Santos-Melo GZ, Neto JC, Nascimento SM, Figueiredo WLD, et al. Seguimento de crianças com diagnóstico de surdez em programa de triagem auditiva neonatal em Manaus. *Rev Saude Publica*. 7 de dezembro de 2022; 56: 120.
121. Upadhyay K, Gupta V, Singh S, Bhatia R, Lohith BR, Reddy NM, et al. Outcome of Universal Neonatal Hearing Screening Programme at a Tertiary Care Centre: A Prospective Study. *Indian J Otolaryngol Head Neck Surg*. 17 de dezembro de 2022; 74(S3): 3813–8.
122. Colella-Santos MF, Hein TAD, Souza GL, Amaral MIR, Casali RL. Newborn Hearing Screening and Early Diagnostic in the NICU. *Biomed Res Int*. 2014; 2014: 1–11.
123. ECrouch EL, Probst J, Bennett KJ, Carroll T. Evaluating Loss to Follow-Up in Newborn Hearing Screening in a Southern State. *Journal Early Hear Detect Interv*. 2017; 2(1): 40–7. <https://doi.org/10.15142/T3T33Z>
124. Venugopal S, Navaneethan N, Panchanathan S, Srivijayan A. Outcome of Screening for Hearing Impairment in the New Born: Hospital-Based Study. *Casp J Pediatr* [Internet]. 2022; 8(2). <http://caspianjp.ir/article-1-178-en.html>
125. Verstappen G, Foulon I, Van den Houde K, Heuninck E, Van Overmeire B, Gordts F, et al. Analysis of congenital hearing loss after neonatal hearing screening. *Front Pediatr*. 15 de maio de 2023;11.
126. Bevilacqua MC, Alvarenga K de F, Costa OA, Moret ALM. The universal newborn hearing screening in Brazil: From identification to intervention. *Int J Pediatr Otorhinolaryngol*. maio de 2010; 74(5): 510–5.
127. Cannon MJ, Griffiths PD, Aston V, Rawlinson WD. Universal newborn screening for congenital CMV infection: what is the evidence of potential benefit? *Rev Med Virol*. 24 de setembro de 2014; 24(5): 291–307.
128. Pinna G, Calabrò C, Sionis S, Coni E, Irmesi R, Puxeddu R. Universal newborn hearing screening: preliminary experience at the University Hospital of Cagliari. *J Pediatr Neonatal Individ Med*. 2012; 1(1): 81–6.
129. Raju AS, Pulimoottil DT, Vithayathil AA, G. I. S, Jose S, Ajith P, et al. A cross-sectional study of neonatal hearing impairment: understanding its prevalence and risk factors in a tertiary care hospital in Kerala, India. *Int J Contemp Pediatr*. 25 de agosto de 2023;10(9):1420–5.
130. Moraes TFD, Feniman MR, Gonçalves TS, Crenitte PAP. Processamento temporal, fonologia e escrita em crianças contaminadas por chumbo. *Rev CEFAC*. março de 2014;16(1):161–6.



131. Cunha MLS, Lopes MS, Meira TC, Corona AP. Hearing screening using the uHearTM smartphone-based app: reproducibility of results from two response modes. *CoDAS*. 2023; 35(2).
132. Assef RA, Almeida K, Miranda-Gonzalez EC. Sensitivity and specificity of the Speech, Spatial and Qualities of Hearing Scale (SSQ5) for screening hearing in adults. *CoDAS*. 2022; 34(4).
133. Resende L, Carvalho S, Santos T, Abdo F, Romão M, Ferreira M, et al. Auditory steady-state responses in school-aged children: a pilot study. *J Neuroeng Rehabil*. 2015;12(1):13.
134. Burle NLO, Mancini PC, Costa NB, Lemos AMM, Martins TF, Meira AL. Triagem otoneurológica em operários da construção civil que executam trabalho em altura. *Rev CEFAC*. fevereiro de 2016; 18(1): 2–13.
135. Silva PLN, Menezes GCDSC, Rodrigues LCA, Oliveira VGR, Fonseca JR. Hearing screening and quality of life in an elderly population / Triagem auditiva e qualidade de vida em uma população de idosos. *Rev Enferm da UFPI*. 18 de julho de 2014; 3(2): 11.
136. Labanca L, Guimarães FS, Costa-Guarisco LP, Couto EAB, Gonçalves DU. Triagem auditiva em idosos: avaliação da acurácia e reprodutibilidade do teste do sussurro. *Cien Saude Colet*. novembro de 2017; 22(11): 3589–98.
137. Campos RDS, Zazzetta MS, Orlandi FS, Pavarini SCI, Cominetti MR, Santos-Orlandi AA, et al. Handicap auditivo e fragilidade em idosos da comunidade. *CoDAS*. 2022; 34(4).
138. Melo Â, Oppitz SJ, Garcia MV, Costa MJ, Kessler TM, Silva AMT, et al. Programa de reabilitação auditiva : mudanças na autopercepção de restrição de participação em idosos. *Estud Interdiscip Sobre O Envelhec* [Internet]. 3 mar 2016; 21(3). <https://doi.org/10.22456/2316-2171.80773>
139. Rosis ACA, Souza MRF, Iório MCM. Questionário Hearing Handicap Inventory for the Elderly - Screening version (HHIE-S): estudo da sensibilidade e especificidade. *Rev da Soc Bras Fonoaudiol*. 2009; 14(3): 339–45.
140. Servidoni A, Conterno L. Hearing Loss in the Elderly: Is the Hearing Handicap Inventory for the Elderly - Screening Version Effective in Diagnosis When Compared to the Audiometric Test? *Int Arch Otorhinolaryngol*. 31 de janeiro de 2018; 22(01): 001–8.
141. Han W, Kim G, Na W, Kim G, Kim J. The development and standardization of Self-assessment for Hearing Screening of the Elderly. *Clin Interv Aging*. junho de 2016; 787.
142. Quintas VG, Attoni TM, Keske-Soares M, Mezzomo CL. O processamento auditivo e a combinação de traços distintivos na aquisição de fala em crianças com desvios fonológicos. *Rev da Soc Bras Fonoaudiol*. junho de 2011;16(2):167–73.
143. Lucas PA, Zacare CC, Alves Filho OC, Amantini RCB, Bevilacqua MC, Zaidan E. Scan: perfil de desempenho em crianças de sete e oito anos. *Pró-Fono Rev Atualização Científica*. dezembro de 2007; 19(4): 370–3.
144. Rodrigues PAL, Sameshima K, Zaidan E. Perfil de desempenho em teste de triagem de processamento auditivo (SCAN) em crianças de sete e oito anos residentes em Cuiabá. *Rev da Soc Bras Fonoaudiol*. junho de 2008;13(2):173–8.
145. Quintas VG, Mezzomo CL, Keske-Soares M, Dias RF. Vocabulário expressivo e processamento auditivo em crianças com aquisição de fala desviante. *Pró-Fono Rev Atualização Científica*. setembro de 2010; 22(3): 263–8.
146. Quintas VG, Attoni TM, Keske-Soares M, Mezzomo CL. Processamento auditivo e consciência fonológica em crianças com aquisição de fala normal e desviante. *Pró-Fono Rev Atualização Científica*. dezembro de 2010; 22(4): 497–502.
147. Oliveira AC, César CPHAR, Matos GG, Passos PS, Pereira LD, Alves T, et al. Hearing, language, motor and social skills in the child development: a screening proposal. *Rev CEFAC*. abril de 2018; 20(2): 218–27.
148. Nunes CL, Pereira LD, Carvalho GS de. Scale of Auditory Behaviors e testes auditivos comportamentais para avaliação do processamento auditivo em crianças falantes do português europeu. *CoDAS* [Internet]. 2013; 25(3): 209–15.
149. Carvalho NG, Amaral MIR, Colella-Santos MF. AudBility: an online program for central auditory processing screening in school-aged children from 6 to 8 years old. *CoDAS*. 2023; 35(6).
150. Amaral MIR, Carvalho NG, Colella-Santos MF. Programa online de triagem do processamento auditivo central em escolares (audBility): investigação inicial. *CoDAS*. 2019; 31(2).
151. Bresola JO, Padilha FYOMM, Braga Junior J, Pinheiro MMC. O uso do teste dicótico de dígitos como método de triagem. *CoDAS*. 2021; 33(6).
152. Gois M, Biaggio EPV, Bruckmann M, Pelissari I, Bruno RS, Garcia MV. Habilidade de ordenação temporal e nível de especificidade nos diferentes testes tonais. *Audiol - Commun Res*. dezembro de 2015; 20(4): 293–9.
153. Barros N, Medeiros R, Leite C, Lopes M, Ribeiro A, Araujo F, et al. OtoLeitor: A protocol implementation of Universal Newborn Hearing Screening by a mobile platform in Brazil. In: 2013 IEEE 15th International Conference on e-Health Networking, Applications and Services (Healthcom 2013). IEEE; 2013. p. 1–3.
154. Cebulla M, Hofmann S, Shehata-Dieler W. Sensitivity of ABR based newborn screening with the MB11 BERAphone®. *Int J Pediatr Otorhinolaryngol*. maio de 2014; 78(5): 756–61.
155. Silva GCML, Mourão YCA. Prevalência do risco para apneia obstrutiva do sono em usuários do programa de atenção à saúde de um hospital referência. *Rev Cient Esc Estadual Saude Publica Goias Candido Santiago* [Internet]. 15 mar 2021. <https://doi.org/10.22491/2447-3405.2021.v7.7000036>
156. Leme MS. Versão Brasileira do The Nordic Orofacial Test – Screening (NOT-S) para Avaliação de Disfunções Orofaciais. *Pesqui Bras Odontopediatria Clin Integr*. 1 de abril de 2011; 11(2): 281–9.
157. Carnaúba ATL, Ferracciu CCS, Silva ÉHAA, Ricarte A, Ferreira ACRG. Disfonia e disfunção temporomandibular: há relação? *Rev CEFAC*. 30 de julho de 2010;12(4): 589–97.
158. Frois CA, Mangilli LD. Apresentação de um protocolo clínico direcionado ao aleitamento materno no alojamento conjunto. *Audiol - Commun Res*. 2021; 26.
159. Campanha SMA, Martinelli RLC, Palhares DB. Position of lips and tongue in rest in newborns with and without ankyloglossia. *CoDAS*. 2021; 33(6).
160. Carvalhaes MABL, Corrêa CR. Identificação de dificuldades no início do aleitamento materno mediante aplicação de protocolo. *J Pediatr* [Internet]. Fev 2003; 79(1). <https://doi.org/10.1590/s0021-75572003000100005>
161. Hennig C-L, Neumann A, Nitzsche A, Stemmler A, Tränckner K, Kühn N, et al. A Newly Developed Orthodontic-Logopedic Screening Procedure for Myofunctional Dysfunctions—A Pilot Study. *J Pers Med*. 10 de agosto de 2023; 13(8): 1248.



162. Rossi-Barbosa LAR, Caldeira AP, Honorato-Marques R, Silva RF. Prevalência de transtornos fonológicos em crianças do primeiro ano do ensino fundamental. *Rev da Soc Bras Fonoaudiol.* setembro de 2011; 16(3): 330–6.
163. Goulart BNG, Chiari BM. Distúrbios de fala e dificuldades de aprendizagem no ensino fundamental. *Rev CEFAC.* junho de 2014;16(3): 810–6.
164. Rigby MJ, Chesham I. A trial speech screening test for school entrants. *BMJ [Internet].* 7 fev 1981; 282(6262): 449–51. <https://doi.org/10.1136/bmj.282.6262.449>
165. Zareie Shamsabadi N, Shahriar Ahmadi M, Ghasisin L, Abedi A. Relationship Between Speech Sound Disorders and Neuropsychological Skills With the Mediating Role of Parenting Styles and Mother's Depression: Memory and Visuospatial Skills. *Sci J Rehabil Med.* 1 de janeiro de 2022;1194–213.
166. Ahmadi A, Ebadi A, Kamali M, Zarifian T, Dastjerdi Kazemi M, Mohamadi R. Single word test for the assessment of speech sound production in Persian speaking children: Development, validity and reliability. *Int J Pediatr Otorhinolaryngol.* novembro de 2018; 114: 61–6.
167. Aghaz A, Kazemi Y, Hemmati E, Zarifian T. Psychometric Properties of Persian Version of Intelligibility Context Scale in Persian-Speaking Children. *Sci J Rehabil Med.* 1 de janeiro de 2022;1270–83.
168. Soutinho LAR, Machado DA, Marques CHD. Protocolo de rastreio multiprofissional de disfagia em pacientes com infecção HIV: elaboração e validação de conteúdo. *CoDAS.* abril de 2022; 34(2): 1–9.
169. Almeida TM, Cola PC, Pernambuco LA, Magalhães Junior HV, Magnoni CD, Silva RG. Instrumento de rastreio para disfagia orofaríngea no Acidente Vascular Encefálico - Parte I: evidências de validade baseadas no conteúdo e nos processos de resposta. *CoDAS [Internet].* 17 ago 2017; 29(4). <https://doi.org/10.1590/2317-1782/20172017009>
170. Etges CL, Barbosa LDR, Cardoso MCAF. Desenvolvimento do Instrumento de Rastreio Para o Risco de Disfagia Pediátrica (IRRD-Ped). *CoDAS.* 2020; 32(5): 1–8.
171. Weinhardt J, Hazelett S, Barrett D, Lada R, Enos T, Keleman R. Accuracy of a Bedside Dysphagia Screening: A Comparison of Registered Nurses and Speech Therapists. *Rehabil Nurs.* novembro de 2008; 33(6): 247–52.
172. Ostrofsky C, Seedat J. The South African dysphagia screening tool (SADS): a screening tool for a developing context. *South African J Commun Disord.* 16 de fevereiro de 2016; 63(1): 1–9.
173. Mok WQ, Jagadish UM, Yiap PL, Yu LH, Lim SM, Ker SY. An interprofessional collaboration between nurses and speech therapists to detect dysphagia early in an elderly hip fracture population. *Int J Integr Care.* 17 de outubro de 2017; 17(5): 433–4.
174. Troll C, Trapl-Grundschober M, Teuschl Y, Cerrito A, Compte MG, Siegemund M. A bedside swallowing screen for the identification of post-extubation dysphagia on the intensive care unit – validation of the Gugging Swallowing Screen (GUSS)—ICU. *BMC Anesthesiol [Internet].* 13 abr 2023; 23(1). <https://doi.org/10.1186/s12871-023-02072-6>
175. Lim SH, Lieu PK, Phua SY, Seshadri R, Venketasubramanian N, Lee SH, Choo PW. Accuracy of bedside clinical methods compared with fiberoptic endoscopic examination of swallowing (FEES) in determining the risk of aspiration in acute stroke patients. *Dysphagia [Internet].* Jan 2001;16(1):1–6. <https://doi.org/10.1007/s004550000038>
176. Luchesi KF, Campos BM, Mituuti CT. Identificação das alterações de deglutição: percepção de pacientes com doenças neurodegenerativas. *CoDAS [Internet].* 29 de novembro de 2018; 30(6).
177. Magalhães Junior HV, Pernambuco LD, Souza LB, Ferreira MA, Lima KC. Tradução e adaptação transcultural do Northwestern Dysphagia Patient Check Sheet para o português brasileiro. *CoDAS [Internet].* 2013; 25(4): 369–74. <https://doi.org/10.1590/s2317-17822013000400012>
178. Penna LM, Nascimento GSS, Guimarães MF, Nunes JA, Azevedo EHM. Rastreamento do Risco de Disfagia em Pacientes com Doenças Pulmonares. *Distúrbios da Comun.* 21 de junho de 2022; 34(2): e53867.
179. Ferreira RP, Alves LM, Mangilli LD. Association between Nursing and Speech, Language and Hearing Sciences in identifying risk for dysphagia: analytical cross-sectional study. *Esc Anna Nery.* 2023; 27.
180. Zurbano IML, Laguna LB, Soria CV, Guisasaola CP, Marcos-Neira P. Utility of the modified volume-viscosity swallow test for bedside screening of dysphagia in critically ill patients. *Clin Nutr ESPEN [Internet].* Dez 2022. <https://doi.org/10.1016/j.clnesp.2022.12.021>
181. Barton M, Simard MN, Reiter-Campeau S, Lupien G, Lamothe MP, Chartrand D, et al. Validity of parent-completed developmental screening in children with new-onset epilepsy below the age of 3. *Paediatr Amp Child Health [Internet].* 18 maio 2018; 23(suppl_1): e51–e52. <https://doi.org/10.1093/pch/pxy054.131>
182. Tsuchiya S, Tsuchiya M, Momma H, Aida J, Nagatomi R, Yaegashi N, et al. Neurodevelopmental trajectories in children with cleft lip and palate: A longitudinal study based on the Japan Environment and Children's Study. *Eur J Oral Sci.* 15 de abril de 2022;130(2).
183. Tomazoli LS, Santos TH, Amato CA, Fernandes FD, Molini-Avejonas DR. Rastreio de alterações cognitivas em crianças com TEA: estudo piloto. *Psicol Teor Prat [Internet].* 2017; 19(3). <https://doi.org/10.5935/1980-6906/psicologia.v19n3p23-32>
184. Jayes M, Palmer R, Enderby P. Giving voice to people with communication disabilities during mental capacity assessments. *Int J Lang Commun Disord.* 16 de janeiro de 2021; 56(1): 90–101.
185. Frezzato RC, Santos DCC, Goto MMF, Ouro MPC, Santos CTM, Dutra V, et al. Habilidade motora fina e linguagem expressiva em crianças com hipotireoidismo congênito. *CoDAS.* 2017; 29(1).
186. Eapen V, Zoubeidi T, Yunis F. Screening for language delay in the United Arab Emirates. *Child Care Health Dev.* 20 de setembro de 2004; 30(5): 541–9.
187. Guedes-Granzotti RB, Siqueira LS, Cesar CPHAR, Silva K, Domenis DR, Dornelas R, et al. Neuropsychomotor development and auditory skills in preschool children. *J Hum Growth Dev [Internet].* 12 mar 2018; 28(1): 35. <https://doi.org/10.7322/jhgd.123380>



188. Oliveira TRS, Souza LS, Dornelas R, Domenis DR, Silva K, Guedes-Granzotti RB. Associação entre o aleitamento materno, introdução alimentar e desenvolvimento neuropsicomotor nos primeiros seis meses de vida. *Distúrbios Comun* [Internet]. 29 jun 2017; 29(2): 262. <https://doi.org/10.23925/2176-2724.2017v29i2p262-273>
189. Silva GK, Lamônica DA. Desempenho de crianças com fenilcetonúria no teste de screening de desenvolvimento denver - II. *Pro Fono Rev Atualizacao Cient* [Internet]. Set 2010; 22(3): 345-50. <https://doi.org/10.1590/s0104-56872010000300031>
190. Mendes JCP, Pandolfi MM, Carabetta Júnior V, Novo NF, Colombo-Souza P. Fatores associados a alteração da linguagem em crianças pré-escolares. *Rev da Soc Bras Fonoaudiol*. junho de 2012;17(2): 177–81.
191. Lamônica DAC, Anastácio-Pessan FL, Ferraz PMDP, Ribeiro CC. Desempenho em habilidades motoras, comunicativas e cognitivas de crianças com hipotireoidismo congênito tratadas desde o período neonatal. *CoDAS*. 2020; 32(1).
192. Zanin LE, Melo HD, Carneiro MSM, Gomes JM, Pinto VPT, Silva LWB, et al. Proposta e validação de um protocolo de triagem para identificar as manifestações fonoaudiológicas na hanseníase. *Rev Bras Em Promocao Saude* [Internet]. 29 nov 2016; 29(4): 564-73. <https://doi.org/10.5020/18061230.2016.p564>
193. Menezes TT, Furia CLB, Soares GXS. Frequency of swallowing and food complaints during shared consultation in oncological palliative care. *Audiol Commun Res* [Internet]. 2022; 27. <https://doi.org/10.1590/2317-6431-2021-2607en>
194. Andrade CRF. *Gagueira Infantil: risco, diagnóstico e programas terapêuticos*. Barueri, São Paulo: Pró-fono; 2006.
195. Lima MMO, Cordeiro AAA, Queiroga BAM. Developmental Stuttering Screening Instrument: development and content validation. *Rev CEFAC* [Internet]. 2021; 23(1). <https://doi.org/10.1590/1982-0216/20212319520>
196. Bassôa A, Costa AC, Toazza R, Buchweitz A. Escala para rastreio de dislexia do desenvolvimento: evidências de validade e fidedignidade. *CoDAS* [Internet]. 2021 [citado 26 jan 2025]; 33(2). <https://doi.org/10.1590/2317-1782/20202020042>
197. Conselho Regional da Fonoaudiologia - 8ª Região. História da Fonoaudiologia. <https://crefono8.org.br/historia-da-fonoaudiologia/>.
198. Conselho Federal de Fonoaudiologia - CFFa. RESOLUÇÃO CFFa no 463 [Internet]. https://www.fonoaudiologia.org.br/resolucoes/resolucoes_html/CFFa_N_463_15.htm. 2015 [citado 11 de setembro de 2024]. Available at: https://www.fonoaudiologia.org.br/resolucoes/resolucoes_html/CFFa_N_463_15.htm
199. Conselho Federal de Fonoaudiologia - CFFa. RESOLUÇÃO CFFa No 718. https://fonoaudiologia.org.br/resolucoes/resolucoes_html/CFFa_N_718_23.htm. 2023.
200. Conselho Federal de Fonoaudiologia - CFFa. RESOLUÇÃO CFFa no 467 [Internet]. https://fonoaudiologia.org.br/resolucoes/resolucoes_html/CFFa_N_467_15.htm. 2015 [citado 11 de setembro de 2024]. Available at: https://fonoaudiologia.org.br/resolucoes/resolucoes_html/CFFa_N_467_15.htm
201. Conselho Federal de Fonoaudiologia - CFFa. RESOLUÇÃO CFFa N° 656 [Internet]. https://fonoaudiologia.org.br/resolucoes/resolucoes_html/CFFa_N_656_22.htm. 2022 [citado 11 de setembro de 2024]. Available at: https://fonoaudiologia.org.br/resolucoes/resolucoes_html/CFFa_N_656_22.htm
202. Conselho Federal de Fonoaudiologia - CFFa. RESOLUÇÃO CFFa no 383 [Internet]. https://fonoaudiologia.org.br/resolucoes/resolucoes_html/CFFa_N_383_10.htm. 2010 [citado 11 de setembro de 2024]. Available at: https://fonoaudiologia.org.br/resolucoes/resolucoes_html/CFFa_N_383_10.htm
203. Caldeira HJM, Antunes SLNO, Rossi-Barbosa LAR, Freitas DA, Barbosa MR, Caldeira AP. Prevalência de alterações de fala em crianças por meio de teste de rastreamento. *Rev CEFAC* [Internet]. 22 de maio de 2012;15(1):144–52. <https://doi.org/10.1590/s1516-18462012005000039>
204. Assis HS, Alves MVM, Barreto IDC, Rezende GES, Medeiros AMC. Perfil dos fonoaudiólogos com formação em motricidade orofacial no Brasil. *Audiol Commun Res* [Internet]. 2023;28. <https://doi.org/10.1590/2317-6431-2023-2801pt>
205. Sociedade Brasileira de Fonoaudiologia - SBFA. Breve histórico da motricidade orofacial e do departamento de MO da SBFA [Internet]. [citado 11 de setembro de 2024]. Disponível em: https://www.sbfa.org.br/porta12017/themes/2017/departamentos/artigos/resolucoes_64.pdf
206. Baldrighi SEZM, César CPHAR, Brito AF, Ferreira GG, Rodrigues MRC, Nascimento LT, et al. Perfil miofuncional orofacial de crianças atendidas no ambulatório odontopediátrico do Hospital Universitário de Aracaju/SE. *Distúrb Comun* [Internet]. 5 de novembro de 2015; 27(1): 85–96.



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