# SYSTEMATIC AND FORMAL INSTRUMENTS FOR LANGUAGE ASSESSMENT OF PRESCHOOLERS IN BRAZIL: A LITERATURE REVIEW

# Instrumentos sistemáticos e formais de avaliação da linguagem de pré-escolares no Brasil: uma revisão de literatura

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#### **ABSTRACT**

Systematic and formal instruments of language in children aged between two and five years are of predominant importance both for the investigation of possible alterations and to propose language intervention. However, currently there are few instruments available in Brazilian Portuguese for research and clinical use. The aim of this study therefore was to present a review on systematic and formal assessment instruments spoken language in preschool, used in scientific research in Brazil, built nationally or in the adaptation and validation process. Seven different instruments have been described in 22 scientific papers, which is a low number compared to other countries, and especially in comparison to non-scientific publications, not necessarily validate the efficiency of the instrument. It is suggested increased investment both in the construction of instruments as in the adaptation and validation of instruments already used in other languages.

KEYWORDS: Language Tests; Child, Preschool; Child Language; Review

#### INTRODUCTION

In Speech Language Therapy context, the evaluation is one of the most frequent actions in the work routine, whose success is assured by the production of information that helps to raise, confirm or deny a diagnosis hypothesis. It is the purpose of the review to list the set of difficulties and skills in different areas, check and specify the problems and also to obtain data for decision making<sup>1-3</sup>.

The evaluation is a complex process in which specific and appropriate procedures characterize

Psychology is the science that supports the use of measuring instruments matter that has been widely debated. The instruments - tests - are considered systematic / formal procedures towards investigating situations of decision making. The formal and systematic evaluation emerged in the late nineteenth century, along with psychometrics,

individual performance at any given time. However, one must consider the various influences that the subject suffered throughout life and also the influ-

ences arising from the task itself and the peculiarities

belonging to the environment in which the evalu-

ation is conducted1.

which formed the basis of assessment technology<sup>4</sup>. Changes of spoken language can influence the

social and academic skills of children learning, and early identification of this modification also enables early intervention, thus contributing to minimize the aggravation and persistence of these changes<sup>5-8</sup>.

In this direction, different methods are used in the evaluation of spoken language, and its effectiveness will depend on the use of appropriate procedures to

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Source of assistance: Foundation for Research Support of the Sao Paulo State -FAPESP (Process nº 2012/19808-5)/ National Institute of Science and Technology about Behavior, Cognition and Teaching (CNPq: #573972/2008-7, FAPESP#2008/57705-8).

Conflict of interest: non-existent

Rev. CEFAC. 2015 Mar-Abr; 17(2):0-662

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conditions of age group and language ability of the subject reported that supplemented and appreciated by a professional, allow diagnostic decision making and intervention9-12.

Knowledge and practices diffused in other areas may contribute to the assessment, diagnosis. treatment and monitoring of human communication and its disorders<sup>13</sup>. One of the ways of dissemination of such knowledge under evaluation refers to the use of standardized / formal tests that provide a comprehensive or specific assessment of the studied profile14-16.

Brazil is still in need regarding the availability of systematic and formal instruments for assessment and diagnosis in the field of Speech, Language and Hearing Sciences in general, and especially for preschool children<sup>17-20</sup>.

The characterization of the target population of this study, the "preschool" term was adopted for didactic purposes. According to Guidelines and Bases of National Education, preschool population is characterized by children of four and five years old21, however for the speech language assessment taking into account the importance of identifying early changes<sup>5-8</sup> that concept has been expanded to covering children aged two to five years old.

In front of the foregoing, this current study aimed to present a literature review on systematic and formal assessment instruments of spoken language in children between two and five years old, used in scientific and/or clinical practice investigations, in Brazil, built in nationwide or in adaptation and validation process.

#### METHODS

Scientific articles that used protocols, evidence or systematic/formal tests were raised, indexed in national and international data. It was used the descriptors in health sciences (DeCs), related to the purpose of this study, i.e., systematic and formal evaluation instruments of preschoolers' spoken language, used in scientific and/or clinical practice researches, in Brazil.

Searches were conducted on the basis of national and international data: Virtual Health Library (VHL) - Bireme (Lilacs, Ibecs and Adolec) and PUBMED / MEDLINE.

For this, the adopted procedures were divided into three separate searches: the first and second were held in national databases; and the third in the international databases.

The descriptors were selected after consulting the Health Sciences Descriptors (DeCS-VHL) and crossed as follows:

Search 1: ("Child Language") Or "Language Disorders") Or "Speech Pathology") Or "Language") Or "Language Development") Or "Language Development Disorders") Or "Verbal Behavior") or "Language Arts") or "Verbal Learning") or "Vocabulary") or "Narration" [Subject Descriptor] AND "Language Tests" [Subject descriptor] AND ("Child, Preschool") or "Child Rearing")

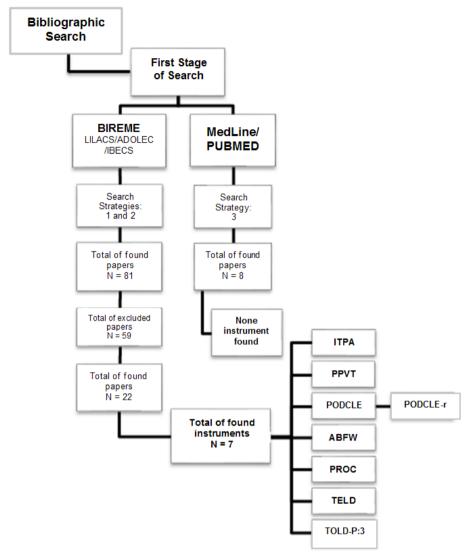
Search 2: "Cross-cultural comparison" [Words] and "language" [Words]

Search 3: ("Language Tests" [Mesh]) AND ("Child Language"[Mesh]) OR "Language Disorders"[Mesh]) OR "Speech-Language Pathology" [Mesh]) OR "Language" [Mesh]) OR ("Language Development" [Mesh] OR "Language Development Disorders" [Mesh])) OR Behavior"[Mesh]) OR "Language Arts"[Mesh]) Learning"[Mesh])"[Mesh]) OR "Verbal "Vocabulary" [Mesh]) OR "Narration" [Mesh])

The exclusion criteria for this literature study were: (1) repeated articles as they are published in more than one language; (2) repeated articles located in in more than one database: (3) review articles: (4) articles that presented different casuistry with different chronological age of preschool age group (two to five years old); (5) studies conducted in other languages (i.e. Spanish) and (6) instruments designed to assess only one component of spoken language (i.e. "Teste Brasileiro Infantil de Repetição de Pseudopalavras" (BCPR)22; "Teste de Vocabulário Auditivo Expressivo" (TVExp)<sup>23</sup>: Avaliação Fonológica da Criança (AFC)<sup>24</sup>; Consciência fonológica: instrumento de avaliação sequencial (CONFIAS)<sup>25</sup> e Perfil das Habilidades Fonológicas (PHF)<sup>26</sup>.

#### LITERATURE REVIEW

The results of the search are willing to follow. according to the databases that were selected (Figure 1).



Legend: BIREME = Virtual Health Library; N = number of papers found; ITPA = "Illinois Test of Psycholinguistic Abilities"; PPVT = "Peabody Picture Vocabulary Test", PODCLE = "Protocolo para Observação do Desenvolvimento Cognitivo e de Linguagem Expressiva"; PODCLE-r= "Protocolo para Observação do Desenvolvimento Cognitivo e de Linguagem Expressiva - revisado"; ABFW= "Teste de Linguagem Infantil - ABFW"; PROC= "Protocolo de Observação Comportamental"; TELD= "Test of Early Language Development: Third Edition"; TOLD-P:3 = "Test of Language Development Primary: 3".

Figure 1 - Results relative to the bibliographic search

At the end of the survey, 22 articles were selected that contemplated a total of seven systematic and formal procedures for language evaluation of subjects in preschool. Among these seven instruments, four are international and three are instruments developed in Brazil and do not have international version.

Following it will be presented the international instruments that evaluate the spoken language of preschool children, which have been adapted or are in the process of adaptation to the linguistic culture of Brazilian Portuguese, and at the end, the presentation of the instruments built nationwide.

# International language assessment instruments adapted or in the process of adaptation to Brazilian Portuguese

With an initial focus in the international instruments for the evaluation of spoken language that have been adapted or are in the process of adaptation to the linguistic culture of Brazilian Portuguese, is quoted initially the "Illinois Test of Psycholinguistic Abilities" (ITPA), adapted to Brazil in 1975/1977<sup>27,28</sup>. This test is intended to investigate psycholinguistic skills, based on communication processes<sup>29</sup> in children between two and 10 years

and 11 months old. But because of being outdated, has been rarely used in Brazil.

"Peabody Picture Vocabulary The Test" (PPVT), which evaluates the lexical development in the receptive field, was translated, validated and regulated for subjects from two to six years old30. The model of multiple-choice PPVT facilitates the application in subjects with restrictions on the use of writing, speech or for cases with mental disability.

With further reference to procedures that have been adapted to Brazil, there are two more to be presented in sequence. The "Test of Language Development Primary: 3" (TOLD-P: 3) has been broadly used for diagnosis of developmental changes in English speaking children, was adapted and regulated for Brazilian Portuguese by Broggio<sup>31</sup>. This test covers the subjects of preschool and school age, i.e. the evaluation age is between four and eight years old. As a result of the research, the authors stated that the data may serve as a parameter for future research on the language acquisition and development in subjects with typical development<sup>31</sup>.

The latter refers to "Test of Early Language Development: Third Edition" (TELD-3), which applies to children aged between two and seven years and 11 months old, which are within the range of preschool and early education for the evaluation of receptive and expressive language context. It was translated and adapted by Giusti and Befi-Lopes<sup>32</sup>. It is noteworthy that, from the study results after analyzing the performance of Brazilian children with typical language development, the instrument is capable of use without major cultural or linguistic adaptations, demonstrating that it is valid - besides the diagnostic process - monitoring the clinical evolution in cases of communication disorders<sup>32</sup>.

#### Systematic instrument built nationwide

Among the national instruments, i.e., developed in Brazil, it is shown the "Teste de Linguagem Infantil - ABFW"12,33, which was developed based on the linguistic culture of Brazilian Portuguese to evaluate the spoken language of children in the preschool age group and school, aged between two and 12 years old in the areas of phonology, vocabulary, fluency and pragmatics. This instrument has been widely used in clinical and scientific contexts in Brazil, given the provision of reference values 12,33 which allow tracing comparative parameters of a subject in relation to the age group of reference. However, the test does not provide standardized score for the evaluated components, thus making it difficult to identify the relative position of the individual in front of a normative sample.

#### Instruments built nationwide: Protocols

In Brazil, there are two published protocols which consider the expressive and receptive language level: the "Protocolo de Observação Comportamental" - PROC34 and "Protocolo para Observação do Desenvolvimento Cognitivo e de Linguagem Expressiva" - PODCLE35, and its revised version (PODCLE-r) 36.

PROC is focused on the evaluation of the communicative and cognitive development in children aged one to four years old, through behavioral observation for early detection of changes in receptive oral language development. Importantly a 2012 recent study provided the reference values for a quantitative analysis of that procedure<sup>34,37</sup>.

PODCLE and PODOCLE-r are focused on the analysis of the diversity of achievements and linguistic productions presented by children from birth to seven years old. They provide a set of information that guides the evaluator look for specific aspects included by the protocol, but does not include a reference value for the analysis of quantitative point of view - in which the authentic and generalized data that drive the analysis for confirmation of a pre-established hypothesis are disposed35,36,38.

Table 1 summarizes the instruments described previously, especially the information of authorship, year of publication, production and age range of the instrument.

It is observed that the instruments found only two (TELD and TOLD-P: 3) evaluate receptive and expressive aspects in the same instrument. Only the expressive ability is addressed by three instruments (ABFW, PODCLE and PODCLE-r), and receptive abilities in three other instruments (PROC, PPVT and ITPA).

The obtained results in this study are compatible with the literature regarding the lack of validated instruments for evaluation of spoken language in preschool children<sup>17-20</sup>.

In brief survey on the American Speech-Language-Hearing Association (ASHA) website, it was found as a result an approximate number of 20 instruments available for use in the evaluation of receptive or expressive language of preschool children in the English language<sup>39</sup>. A discrepant result when compared to that found in the current study, which records four instruments used in research in Brazil (ITPA, PPVT, TELD and TOLD:P-3), in which three of them are restricted to researchers who have adapted and therefore are not available for clinical use in Brazil. Therefore, there are only three instruments available for clinical use, because they are built nationwide (ABFW, PROC, PODCLE/ PODCLE-r). Other instruments found during the

Table 1 - Information about the assessment instruments of spoken language, presented in chronological order

INSTRUMENT	AUTHORS (Brazilian version)	YEAR	ELABORATION	AGE GROUP
"Illinois Test of Psycholinguistic Abilities" (ITPA)	Bogossian MAD, Santos M.J.	1975; 1977	Translated and Adapted	2-10
"Peabody Picture Vocabulary Test" (PPVT)	Capovilla FC; Capovilla AGS	1997	Translated and Adapted	2-6
"Teste de Linguagem Infantil – ABFW"	Andrade, CRF; Befi- Lopes DM; Fernandes FDM; Wertzner HF	2000; 2004	Developed in Brazil	2-12
Test of Language Development Primary: 3 (TOLD-P:3)	Broggio, FTO	2005	Translated and Adapted	4-8
Test of Early Language Development - Terceira Edição (TELD-3)	Giusti, E; Befi-Lopes, DM	2008	Translated and Adapted	2-7
"Protocolo para Observação do Desenvolvimento Cognitivo e de Linguagem Expressiva (PODCLE)"	Bühler, KEB; Flabiano, FC; Limongi, SCO; Befi-Lopes, DM	2008	Developed in Brazil	0-7
"Protocolo para Observação do Desenvolvimento Cognitivo e de Linguagem Expressiva" versão revisada (PODCLE-r)	Flabiano, FC; Bühler, KEB; Limongi, SCO; Befi-Lopes, DM.	2009	Developed in Brazil	0-7
Protocolo de Observação Comportamental (PROC)	Zorzi, JL.; Hage, SRV.	2009	Developed in Brazil	1-4

search fitted in the exclusion criteria for allowing reviews of specific language skills (i.e. receptive/expressive vocabulary or phonology).

## CONCLUSION

Based on these data, it is confirmed the lack of instruments for evaluating spoken language in the age group investigated and it is suggested, therefore, a greater investment in the study of instruments for

assessing the language of preschool children both in construction as in the translation, adaptation and validation of instruments used in other countries.

## ACKNOWLEDGEMENTS

To Denise Giacheti Gillio, Librarian of Hospital of Rehabilitation of Craniofacial Anomalies (HRAC / USP) for her assistance and cooperation in the data collection.

#### **RESUMO**

Instrumentos sistemáticos e formais de avaliação da linguagem em crianças com idade entre dois e cinco anos são de suma importância, tanto para a investigação de possíveis alterações quanto para propor intervenção fonoaudiológica. No entanto, atualmente, são poucos os instrumentos disponíveis no Português brasileiro para investigações e uso clínico. O objetivo do presente estudo, portanto, foi apresentar uma revisão bibliográfica sobre instrumentos sistemáticos e formais de avaliação da linguagem falada em pré-escolares, utilizados em investigações científicas no Brasil, construídos em âmbito nacional ou em processo de adaptação e validação. Foram descritos sete diferentes instrumentos em 22 artigos científicos, número este baixo em comparação a outros países e, sobretudo, em comparação a publicações não científicas, que não necessariamente validam a eficiência do instrumento. Sugere-se maior investimento, tanto na construção de instrumentos quanto na adaptação e validação de instrumentos já utilizados em outras línguas.

**DESCRITORES**: Testes de Linguagem; Pré-Escolar; Linguagem Infantil; Revisão

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Received on: January 20, 2014 Accepted on: April 23, 2014

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