

Development and Evaluation of a Blog about Cleft Lip and Cleft Palate and Hearing

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Abstract

Introduction Cleft lip and cleft palate can result in impairments in communication, specifically in hearing, making the use of technological resources such as blogs a fundamental guideline for health professionals.

Objective The aim of this study was to prepare and analyze the access to a blog about cleft lip and cleft palate and hearing as a pedagogical tool for health professionals.

Methods The first stage for the development of the blog was the selection of the content that would be addressed and the respective illustrations. The second stage was making the blog available through the WordPress platform, and the third stage included the evaluation of the blog, of the access to the WordPress statistical features, and of the quality of the blog through the Emory questionnaire, which was answered by 75 professionals.

Results The blog, titled “Fissure and Hearing”, was developed with the architecture of a digital information environment containing a system of organization, navigation, labeling and search (first stage). The address hosting the blog was: <http://fissuraeaudicao.wordpress.com> (second stage). The result of the third stage included 56,269 views of the blog from different countries, and Brazil was the country with the highest viewing. Regarding the assessment by the Emory questionnaire, we found that for most of the major issues, the percentages obtained were or equal to 90%, while the analysis of the scales, navigation and structure presented the lowest scores.

Conclusion The blog was developed and enabled greater access to information available on the web about cleft lip and cleft palate and hearing.

Keywords

- cleft lip
- cleft palate
- hearing loss
- health education
- education
- distance

Introduction

In the context of craniofacial anomalies, cleft lip and cleft palate affect one person in every 500 to 700 births, which means the birth of a carrier of a malformation that involves the lip structures and the palate every 2.5 minutes in the world.^{1,2}

The possible impairments related to cleft lip and cleft palate affect different aspects of life, such as feeding,³ dental, cosmetic,⁴ socioeconomic, family, educational and social aspects.⁵

The implications for oral communication due to phonocentric, linguistic⁶ and audiological⁷⁻¹⁰ changes are also emphasized. Regarding the audiological changes, there is

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dysfunction in the Eustachian tube, presence of otitis media, conductive and bilateral hearing loss,¹¹⁻¹³ as well as changes in auditory processing.⁷⁻¹⁰

These findings indicate the need for a follow-up of the hearing and middle ear conditions in individuals with cleft lip and cleft palate, allowing for an early established and assertive intervention.^{11,14}

As a facilitator in the process, there is the dissemination of knowledge to professionals working in the field, assisting in the planning of the treatment for this population. One of the means that allows the transmission of information is the use of information and communication technologies (ICTs), reducing communication issues related to geographical distances, reducing costs, and optimizing time.¹⁵

The ICTs can be used to access many different things, such as health websites, information and interactive electronic health records, health programs to support decision-making, second formative opinions, interactions between specialized centers, education programs adapted for health to increase public access to this information, and they can improve the quality of care, reduce pipeline errors, increase collaboration and encourage the adoption of healthy habits.¹⁶⁻¹⁹ But, in order to achieve this, it is necessary that the information is easily accessible, attractive and reliable for the guidance and promotion of health in various areas.¹⁹ A review process of the development of these tools to measure their quality,²⁰ using the Emory questionnaire, for example, is also necessary.^{21,22}

Publications on tele-audiology have focused more in the assessment or intervention, verifying that studies have been intensifying, especially in the last five years.²³ However, studies observed in the field of fissures, hearing and guidance to health professionals have not been conducted, only guidelines for the population have been offered so far.²⁴ Therefore, the aim of the present study was to develop and analyze the access to a blog about cleft lip and hearing as a pedagogical tool for health professionals, with the use of interactive tele-education.

Methods

The present work was developed and implemented after approval by the Research Ethics Committee of the institution concerned, under protocol number 376/2008.

For the transmission of information on the relationship of cleft lip and cleft palate and the auditory system, the means of transmission of the available information were analyzed, and the web-based virtual environment, the blog, was chosen for the development of the present study.

It is known that hearing health has fundamental importance to the interpersonal communication processes, and it affects the individuals' quality of life and self-esteem. Considering the possible prevention aspects and hearing health optimization, we chose the theme "auditory system and cleft lip and cleft palate."

This tool was designed for health professionals, among them physicians, otolaryngologists, audiologists, psychologists, surgeons, dentists and other professionals who work with individuals with cleft lip and cleft palate.

1st Stage - Development of the Blog

The development of the blog followed the instructional and contextualized design model proposed by Filatro and Piconet²⁵, in which the analyses stages, design, development, implementation and evaluation are produced together without distinction of stages, making it possible to make changes throughout the process.

An educational theoretical script was initially developed using the following sources of information: books, national and international journal articles, information available on the web (educational institution sites and dissertations from these institutions available online). The information collected was simplified regarding the quantity and complexity, so that the reading was established in a more continuous and stimulating way. The links, images and videos that were selected were consistent with the theoretical content, creating the most visually attractive materials, thus consolidating learning. Finally, the theoretical educational content was divided into didactic topics (►Table 1).

The blog was developed using the WordPress platform, available for free on the internet at the internet address www.wordpress.com, which is easy to use and understand for both the creator and the user. In the present study, the free option of the service was used, but there is the option of paid upgrades.

During the development of the blog, the principles of objectivity, content visibility and ease of navigation were followed in order to design the environment according to its target audience.

In addition, the systems used to optimize the operation of a digital information environment are: organization system, navigation system, labeling system and search system.²⁶

2nd Stage - Making the Blog Available

The WordPress platform was used to make the blog available, and we needed to create an account on the platform with a

Table 1 Educational and theoretical blog content

Cleft lip and cleft palate	Incidence
	Etiology
	Cleft types
Hearing	Hearing disability
Adaptation of the hearing aid	Selection of the hearing aid
	Verification of the hearing aid
	Validation of the hearing aid
Cleft lip and cleft palate and hearing disability	Function of the Eustachian tube
	Otitis media
	Etiology of middle ear alteration in individuals with cleft lip and cleft palate
	Influence of otitis in language development
Treatment for otitis media	Surgical intervention
	Systematic monitoring and adaptation of the hearing aid

user name, password and e-mail, and then build the pages with the desired information by following the instructions on the website.

3rd Stage - Evaluation of the Blog

The WordPress platform offers the statistics feature, which allows the creator to check the blog access data in any given period. Thus, we took into consideration the number of accesses between August and October 2015. This was a general analysis of blog to verify the number and origin of the accesses.

The search terms were also observed, that is, the words searched within the blog are also described in the WordPress statistics, presenting the terms and respective quantity of use.

For a subjective evaluation of the blog quality, we asked for the participation of professionals who work at the institution where this research was conducted. We invited specialists in the area of cleft lip and cleft palate, and/or hearing impairment (area of speech therapy, otolaryngology). In addition to non-professional experts who work in the care of individuals with cleft lip and/or hearing impairment (in the fields of social services, psychology, nutrition, nursing and physiotherapy), and professionals working in the field of information technology and communication, we have totalized 75 professionals (**►Table 2**).

These professionals answered the Emory questionnaire, which consists of 36 questions divided into 8 scales that assess content, accuracy, authorship, updates, public, navigation, links and structure, resulting in a score.^{21,22} Three response alternatives were made available for each question, and "agree" corresponded to two points, "disagree" corresponded to one point, and "not applicable" corresponded to zero points. For the analysis, the overall score was obtained,

Table 2 Distribution of the participants, according to the professional qualification ($n = 75$)

Professional qualification	Number of participants
Speech therapy	53 (70.7%)
Social service	5 (6.7%)
Psychology	4 (5.3%)
Nursing	2 (2.7%)
Physiotherapy	2 (2.7%)
Art education	1 (1.3%)
Graphic design	1 (1.3%)
Speech Therapy and Education	1 (1.3%)
Speech Therapy and Nursing Technician	1 (1.3%)
Social Communication - Journalism	1 (1.3%)
Medicine	1 (1.3%)
Nutrition	1 (1.3%)
Dentistry	1 (1.3%)
Nursing technician	1 (1.3%)
TOTAL	75 (100%)

which corresponded to the blog quality as demonstrated in the following formula:

$$\frac{\text{Total score obtained}}{\text{Possible total score}} \times 100 = \text{Percentage of total possible points}$$

$$\times 100 = \text{Percentage of total possible points}$$

Thus, it was possible to relate the percentage obtained with the level of quality of the blog: excellent, $\geq 90\%$; adequate, from 75 to 89%; poor, $> 75\%.$ ^{21,22}

For the specific analysis of the blog aspects, considering the eight scales, the questions (Qs) were grouped as follows: Q1 to Q6 evaluate the content; Q7 to Q9, the accuracy; Q10 to Q12, the authorship; Q13 and Q14, the updates; Q15 to Q18, the public; Q19 to Q24, the navigation; Q25 to Q30, the external links; and Q31 to Q36 evaluate the structure.^{21,22}

Results

1st Stage - Development of the Blog

The structuring of the topic contents was performed, as seen in Table 1.

The optimization of the operation systems of an information environment was performed, allowing for the identification of these systems in the "Fissure and Hearing" blog.

►Fig. 1 illustrates some internal pages of the blog with hypertexts, images and videos. The blog was developed for health professionals. Thus, it features the option of using technical-scientific language in the educational theoretical content.

2nd Stage - Making the Blog Available

The address hosting the "Fissure and Hearing" blog was: <http://fissuraeaudicao.wordpress.com>

3rd Stage - Evaluation of the Blog

During the stipulated period, 56,269 visits to the "Fissure and Hearing" blog were verified. According to the statistics provided by the WordPress platform, the origin of the accesses was diverse, and they came not only from Brazil, but also from other countries, as demonstrated in **►Table 3**.

We also noted that depending on the search term used in a known search engine like Google, the "Fissure and Hearing" blog link was made available as one of the first results, as shown in **►Fig. 2**, with the term *cleft types* and the term *Eustachian tube*.

Regarding the evaluation made by the professionals via the Emory questionnaire, we found that for the majority of the questions, the percentages obtained were $\geq 90\%$, characterizing the quality of the blog as excellent, as shown in **►Table 4**.

Regarding the analysis of scales, we observed that despite the excellent score, the scales with lower scores corresponded to navigation (92%) and structure (90%), as can be seen in **►Fig. 3**.

The evaluation of the blog is as important as the update, which will be performed annually through further reviews of the scientific literature.



Fig. 1 Blog *Fissura Labiopalatina e Audição* (Cleft Lip and Palate and Hearing) internal pages with hypertext, images and videos.

Discussion

We chose to use the blog because of the absence of detailed knowledge or specific programming languages such as HTML, as well as because of the possibility of instant publications,

chronological archiving of information, dissemination of texts, images, videos, insertion of hyperlinks and interactivity.

The division of the content into topics (**►Table 1** and **►Fig. 1**) coupled with optimization systems enabled the knowledge to become broader and more dynamic, and its use

Table 3 Number of views obtained in each country from August 2010 to October 2015

Country	Views in each country
Brazil	50,407
Portugal	1,420
Germany	1,376
United States	1,242
Chile	180
Switzerland	143
Sweden	134
Italy	128
Bolivia	121
Holland	118
Mozambique	106
Mexico	105
Denmark	101
Indonesia	98
Finland	82
Austria	80
Angola	79
United Kingdom	78
Peru	72
Spain	72
Norway	67
Belgium	60
TOTAL	56,269

has fostered a versatile support for the completion of the training for professionals²⁷ in themes for the promotion of health,²⁸ in addition to interactivity to express support for the understanding and applicability of the knowledge addressed.²⁹

Careful selection of the blog's illustrations and links (**►Fig. 1**), with specific and coherent language for the selected

target audience, is justified by the objective of this tool, which is used by more people and can effectively convey the information through features with different stimuli, assisting in the understanding of the content.³⁰ In the health sector, the use of blogs can expedite and facilitate communication among experts, and serve as an additional educational resource and/or as supplementary education for professionals.^{28,29,31,32}

During the analyzed period, there were a lot of visits to the "Fissure and Hearing" blog: 56,269 (**►Table 3**). The increasing use of the internet to obtain information in the health area by professionals, students, patients and the general population was also observed in other studies.^{17,18,31} The widespread access to ICTs is related to a greater proximity between the organizers and the target audience.³⁰ The most outstanding motivational aspects were the ease of use, the fact that it was entertaining, the possibility to disseminate information, and the identification with the subject and the audience.³³

There was a high number of views outside of Brazil, in countries such as Portugal, Germany, the United States, Chile, among others (**►Table 3**), giving the blog the universal character of the internet described in the literature,³⁴ with the dissemination of knowledge from the major centers to professionals of more remote areas or with reduced time availability, leading to the improvement of the professional practice.³⁵

One of the potential ways of coming across the blog is by doing a Google search; the blog appears among the first results, as shown in **►Fig. 2**. This demonstrates the high interest of web users in the theoretical content of the blog: cleft lip and cleft palate and hearing.

The analysis of the quality of the blog through a questionnaire answered by professionals was justified by the search for an effective evaluation for the instrument to be widely used.²⁰

As a result of the evaluation by the participants, the quality was characterized by 67 evaluators (89%) as excellent.^{21,22} Thus, the blog can be considered an excellent source of health information; the interested public can access it and easily understand the available information, and its use can be recommended (**►Table 4** and **►Fig. 3**).

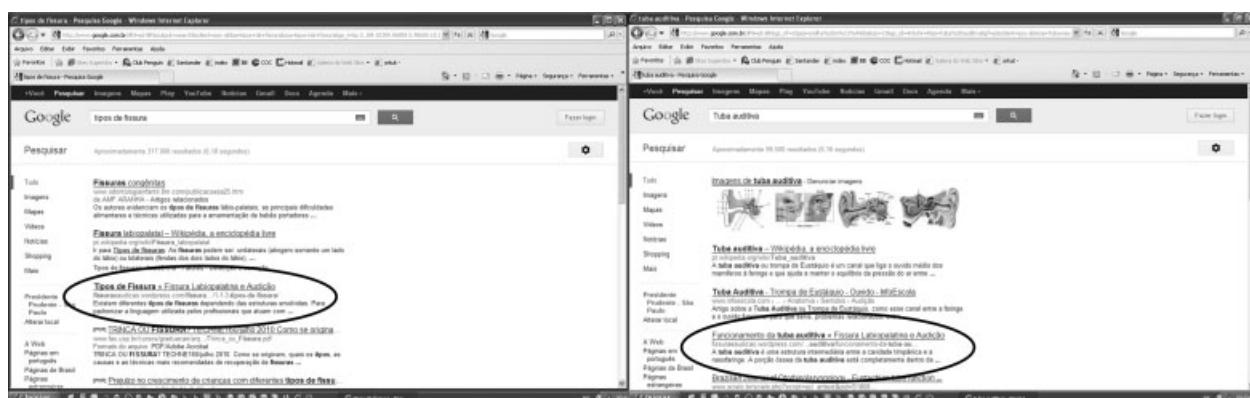


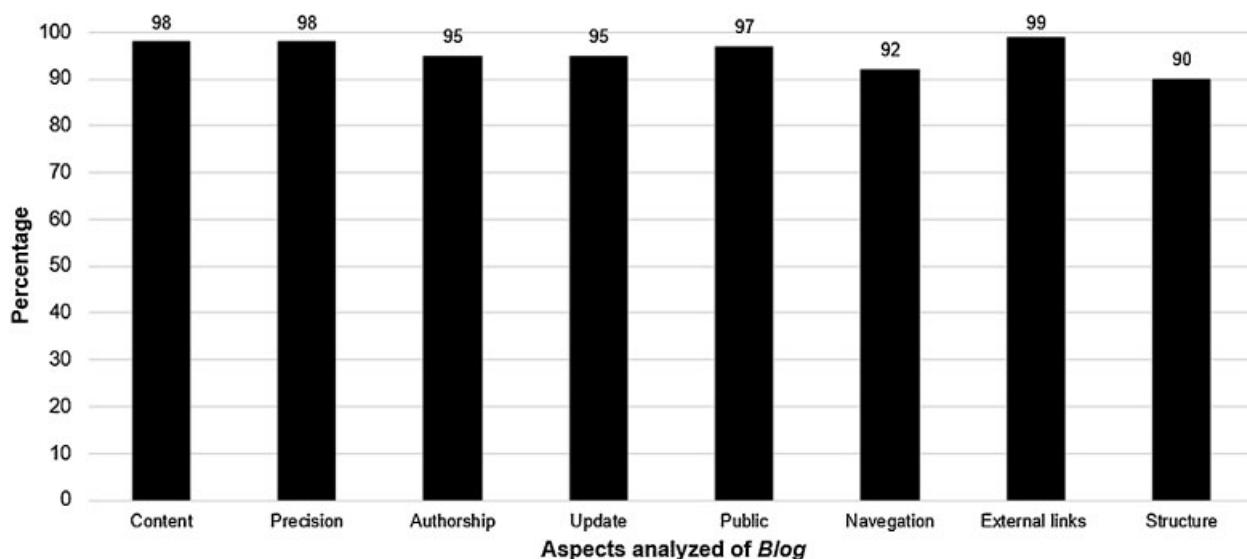
Fig. 2 Search tool in the "Fissure and Hearing" blog link.

Table 4 Scores of the Emory questionnaire about the quality of the blog, according to the proposed score

Questions	EMORY	Questions	EMORY
Q1 - clear purpose	99%	Q19 - internal links provided easy navigation	98.6%
Q2-information that does not seem to be advertising	98.6%	Q20 - retrieval of information in a timely manner	98.5%
Q3 - unbiased information	99.3%	Q21 - needs to offer search engine	80.7%
Q4 - range of views	98.4%	Q22 - offers search engine	89.8%
Q5 - covers all aspects of the matter	95.2%	Q23 - blog organization	98.6%
Q6 - provides external links	96.5%	Q24 - link to download any necessary software	88.4%
Q7 - correct information	98.4%	Q25 - relevant external links	100%
Q8 - documented sources	98.6%	Q26 - operable external links	100%
Q9 - states that complies with the principles of the HON code	96.6%	Q27 - current external links	100%
Q10 - sponsorship/link to an institution	93.3%	Q28 - appropriate external links	99.3%
Q11 - information and credentials of the indicated authors	99.3%	Q29 - external links of reliable information	99.3%
Q12-provided contact	93.9%	Q30-important external links	98%
Q13 - provided publication date	95.2%	Q31 - graphs, pictures and blog art add value	97.3%
Q14 - date of last update	94.3%	Q32 - charts/figures do not delay page loading	97.2%
Q15 - clear public target	94%	Q33 - option to display text only	82.5%
Q16 - level of detail of the appropriate information	98.6%	Q34 - use only the texts	90.6%
Q17 - appropriate reading level	98%	Q35 - options for people with disabilities	78.3%
Q18 - suitable technical terms	96.6%	Q36 - No audio/video, the information would be clear	96.4%

Abbreviation: HON, health on the net.

Notes: Scores higher or equal to 90% = excellent quality; scores between 75% and 89% = adequate quality; scores lower than 75% = poor quality.

**Fig. 3** Total score of the Emory questionnaire distributed by the scales of the aspects analyzed.

It is noteworthy that for the preparation of the blog, including its contents, reliable references were used, as were the results of previous studies,³⁶ in addition to considering the analyses of the professionals working in this area, as well as the use of reading facilitation strategies and use of the tool, making it simple, objective, concise and attractive.

Conclusion

The developed blog enables the dissemination of information about cleft lip and cleft palate and hearing through ICTs. Clearly, there is a need for further actions in this direction, covering a greater number of health professionals, based on the principles established in the literature on various issues for wider dissemination of high quality information, especially regarding tele-audiology.

Conflicts of Interest

Authors have no conflicts of interest to disclose.

Source of Study

Authors declare having received no financial support to conduct the study.

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