Digital marketing in dentistry and ethical implications

Marketing digital em odontologia e implicações éticas

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ABSTRACT

With the increase of competition in the market of dental services, it is necessary to use marketing tools that emphasize the dental surgeon and dental clinics. Digital marketing is one of the fastest growing available resources among health professionals, who use websites and social networks as a means of communication, advertisement and publicity. The objective of this literature review was to compare the digital marketing with other marketing strategies in dentistry based on the code of ethics, in order to increase productivity, capture new patients and loyalty of those in treatment. Indexed searches were carried out in the databases LILACS, MEDLINE, SCIELO, BIREME, PORTAL CAPES and included 27 articles, published between 1998 and 2017. It was concluded that digital marketing has shown to be of great importance in the dental services market, if in conjunction with the other types of external and internal marketing, as long as it obeys the ethical precepts of the Dental Ethics Board.

KEYWORDS

Dental ethics; Marketing; Marketing of health services; Social media.

INTRODUCTION

The dental office should be seen as a company, and as such, should have in its planning part of the budget aimed at attracting and retaining customers. Capture today must occur in an efficient way so that the prospective client sees the professional as someone who is competent, competent and who passes security [1].

According to Miranda et al. [2] Marketing can be divided into internal and external. The intern includes the relationship with the patient, the resources available in the business, use of modern equipment, logo display in the workplace, as well as the quality of services. The external goes beyond the work environment, aimed at capturing patients, advertising and advertising the brand, promoting services
and inducing the purchase, including digital marketing. It is possible to use digital media in both customer acquisition and customer loyalty, using Internet resources to disseminate dental knowledge, clinic and services, as well as encouraging communication between potential clients and the surgeon dentist (SD) [3].

It is also extremely important that the SD is aware of the ethical precepts, in force in the Code of Ethics, when using the advertising and marketing tools. The Code of Ethical Dentistry (CED) is easily found, however, several surveys expose ethical violations in their marketing tools [4-7].

There is a need for education and awareness of the professionals, as well as greater performance of the agencies responsible for the supervision of dental marketing, pointing out, warning and penalizing the violations found [5].

It was decided to do this work, because it is supposed to be necessary for the SD to become familiar with digital marketing, which is a far-reaching and easy-to-execute tool that involves digital assets such as blogs, social networks, websites, after the market research on public yearnings, professional-patient relationship, professional productivity and methods of patient loyalty. It is also essential to discuss their relationship with other marketing strategies and with the CED.

The objective of this literature review was to compare digital marketing with other marketing strategies in dentistry based on the code of ethics, in order to increase productivity, capture new patients and loyalty of those under treatment.

**METHOD**

The research was carried out in the databases LILACS, MEDLINE, SCIELO, BIREME, PORTAL CAPES. The descriptors used were: digital marketing (web marketing), digital marketing in dentistry, marketing in dental, dental ethics. Articles published between 1998 and 2017 were included, totaling 27 studies.

**Internal marketing/ Outbound marketing**

In order for the patient to feel confident about the proposed treatment, it is necessary to develop marketing strategies from the moment of their market research, to their experience and comfort in the clinical environment [8].

According to Paranhos et al. [9] marketing is a set of studies, strategies and practices that launch a product or service to the public, according to the analysis of their needs, and seeks to maintain its success in the market, thus constituting the success of the company.

Although targeted for teaching purposes, the types of marketing and the strategies created must be interlinked and equivalent in their functions so that there is success and positive differentiation in the face of market competition. With this, the structure and modernization of the clinic, the identification of the internal needs and their due investments, the qualification of the team, the creation of the brand and communication channels in the digital media for the strengthening of the team-client relationship, must be a set active of artifice [3].

According to Vasudevan [10] the purchase decision is linked to the needs of the consumer and the marketing must be in accordance with their desires. It should not be limited to advertising and sales, but it must be a set of processes of creation, communication and supply of values for the customer, meeting the consumer's wishes [3].

Based on this Esperidião and Trad [11] affirmed that customer opinion and customer satisfaction are of great value in the design of goals and in the way in which each marketing segment inside and outside the company will be initially directed. Based on this principle satisfied client tends to adhere to the treatment and use the services of the clinic more frequently and safely.

**Internal marketing**

According to Garbin et al. [12] there
are factors related to SD, other professionals and the dental office, which clients consider indispensable for their satisfaction in health services. For more than 50% of the interviewees, the use of PPE (gloves, cap, mask, white clothing and lab coat) shows to be important or very important by the dental team, especially the dental surgeon. As well as the humanization in the exercise of the profession, the fulfillment of the schedules, the efficient scheduling and the conduct of the assistants and receptionists.

Arcier et al. [13] also emphasized that an organized patient return system, whether by telephone contact, direct mail or e-mail, is an important marketing tool for customer loyalty. They observed, therefore, that the good service receives more attention even before the professional's titration or the determined prices.

It has been recommended the use of modern and technological equipment in clinical procedures and diagnosis as an internal marketing tool, as well as the use of audiovisual multimedia resources to explain treatment options and preventive measures to the patient. For the same purpose, the provision of printed matter, such as leaflets and enlightening folders, within reach of the clients in the offices and reception is convenient, always having the logo of the clinic with ample visualization in these materials [14].

Paranhos et al. [9] suggested as an efficient and inexpensive means of conquering new patients and retaining those who are being treated in the clinic, occupying the patient's time in the dental office during their treatments, using resources such as music, video clips and movies as a form of auditory stimulus. This to meet the unfeasible need that the client has to speak during the procedures.

In the practice of dental service marketing, this set of tools used in daily clinical and administrative, is called “marketing mix”, which emphasizes the product (the service, its quality and everything that will satisfy the (customer perceived value), place (place where the service will be provided) and promotion (communication, personal marketing, advertising and advertising, relationship marketing and digital) [15].

In the 1950s, it was believed that marketing should be based on customer needs (relationship marketing), at a time when business relationships were restricted and consequently intimate, with mutual trust between consumer and merchant / service provider, humanization in communication, customer satisfaction and loyalty [16]. However, the previously existing ties of communication and relationships in commerce were broken as a result of increasing mass production and marketing, where there would be no time or space for intimacy in the commercial environment, giving rise to the media as a new means of communication with the consumer. Currently, the quest to revitalize humanization and reliability relationships have been extolled, but strategically, maintaining the broad scope of the service, that is, ensuring large-scale visualization and production [17-19].

The SD should not only concern itself with advanced technical resources, professional training and an elegant work environment, but must add to these factors the presence of strong team-client interaction, with an emphasis on attention, respect and commitment [14]. Relationships are not only through personal contact in the clinical environment, but there is also an intense and daily virtual interactivity network that must be taken into account when talking about relationship marketing today. In digital platforms, the SD is able to relate to thousands of people, creating good content of value and maintaining the wide range of reach that the competitive market requires [20,21].

**Outbound marketing**

According to Miranda et al. [2] outbound marketing and its media (such as magazines,
radio, television and the internet) is the most commonly used CD. This is done beyond the work environment, with the purpose of making the enterprise known and emitting reliability, covering advertising and advertising [14]. Guimarães Júnior et al. [16] affirmed that the most used promotion strategy is still the advertisement of printed newspaper, followed by pamphleteering, billboards, gifts and telephone catalogs, sound cars, TV and radio employees. Standardized uniforms, as well as custom printed business cards and business cards, should also be used as a means of visualizing the brand.

Another effective but little applied communication tool is direct mail, if written in an explanatory, intelligent and creative way, and it is sent to the target public by the Post Office [3]. According to Serra et al. [4], it was found that only 26.46% of dental professionals use direct mail as a marketing tool and because of the growth and ease of the Internet, the trend is that this number will decrease even more.

Merchandising can replace advertising in some cases, advertising and selling the service through brands and images. A merchandising option would be the so-called social marketing, which uses support in social causes, lectures and voluntary work as a way of valuing and respecting the image of the professional [3,14].

**Digital marketing**

The concept of commercial relationship, after the presence of the Internet, underwent great changes and marketing needed to adapt to this new digital reality, which today is widely explored by the most diverse sectors of the market. Digital marketing, a type of external marketing, is an effective and simple option, from which the professional has the right to dispose, provided in an ethical way [6,7].

It is possible to use digital media in both the capture of new clients and the loyalty of those in service, using Internet resources to disseminate dental knowledge, about the clinic and its services, as well as encouraging communication between potential clients and the CD. However, it is necessary to carry out market research on the wishes, wishes and expectations of the local public about the dental clinic, procedures and professional-patient relationship, investigating which digital platforms are most used by their potential clients to define the digital assets that (blogs, social networks, websites, mailings, etc.) [3].

There was a great growth in the use of the Internet as a vehicle for communication and marketing of dental clinics after updating the CED in 2012. In a study conducted by Serra et al. [4], it was found that only 61 professionals from a total sample of 975 used it, however, recent research has found an increasing number of pages (websites and social networks) used as a dental marketing tool [6,7,22].

The Internet has been a space of social interaction, creation and sharing of content, which encourages communication and exchange of information among users. This new medium is denoted “social media”, which operates as a complement to digital marketing [3].

South America is the second continent that most actively uses social media. The network that dominates the largest number of users in the world is Facebook®, followed by Whatsapp®, although other networks are growing in number of users, as is the case of Instagram® and Twitter® [22].

Health professionals can benefit from using social media as an advertising vehicle, since the public in this area traditionally values interpersonal relationships, since this attitude shows attention and generates a sense of security and fidelity between the parties. The service market has undergone several changes over the past decades, intensifying competition among increasingly well-trained professional service providers, and increasing customer demand, making relationships decisive in creating
business value. It is relationship marketing acting externally to the clinical environment, in the digital environment [13,18-20].

With the growth of social networks, many market sectors, including dentistry, have come to value networks such as Facebook® and Instagram® as useful marketing tools and have been widely used in advertising because they are of great and easy reach to the public, which uses them daily [7].

Through social networks, people can contact institutions to communicate with other patients, as a forum, and thus obtain information about the satisfaction of those who already use the services provided [23,24]. Miranda et al. [6], in their research, stated that only 6.51% of the analyzed websites have room to witness patients’ experience, which may demonstrate the lack of information about the possibility of using this tool as a positive visualization of clinic services.

The “content marketing” strategy, which can be used both on social networks, as well as on websites and blogs, is effective in the fact that content is focused on the real need of the reader, rather than the product or service sold. In this way the company interacts subtly with the consumer, who will have a positive view about the clinic [1].

Among the elements of the Marketing Mix, the “Product / Service” and “Value Perceived by the Customer” are necessary for the success of digital marketing. In the “Product / Service” is included the technique and updating of the professional, that is, his investment in courses, new procedures and equipment. Posts on social networks regarding an ongoing postgraduate course or a conference where you are a speaker or a listener demonstrate as a form of personal marketing, that the professional seeks technical and theoretical excellence, as well as expressing his authority over what he says and does [5,17].

As for the “Value perceived by the client”, the professional must connect with the people, having knowledge about real techniques of attraction, engagement, influence, persuasion and sales, through mental triggers or patterns of automatic behavior. One such trigger would be to tell a story, for this simple action connects and attracts attention. Therefore, instead of starting a publicity text talking directly about a service, it is pertinent to narrate a story to justify its importance, since there is a tendency for the human being to follow the line of thought or the actions of the majority, especially when there is uncertainty [15].

Therefore, it is effective to enumerate the number of treatments performed, number of satisfied patients, and evidence followers, tannings, visualizations, etc., thus reaching the decision of the reader and possible client. This pattern of behavior is further enhanced if the information is specific, as people tend to rely on specific numbers that replace vague expressions. Another mental trigger is the principle of reciprocity, where the human being has the need to reciprocate a kindness. Here is the use of congratulatory messages for customers’ birthdays, sent by email or posted on social networks, such as in What’s App® [15,17].

Social networks (and other sites) are also useful when sharing links, pop-ups and banners that lead the potential customer directly to the clinic’s website. For most patients, the Internet is one of the first sources of information to be consulted for both symptom and treatment research and local practitioners, as well as establishing connections with other patients. Well-designed sites can help practitioners meet many of these potential needs of their patients [24,25].

An interactive, user-friendly website with an intuitive design that serves as a good source of information for the public is a smart and useful platform, enabling patients to review the dental team, report on the services provided at the clinic, and read about the experiences of other patients, thus comparing these factors with other competing practices [24]. The site should be kept up-to-date with new information
and articles on scientific discoveries in the dental field, as an outdated platform can have a negative impact on the company's image. It should also be emphasized that there is no rule that requires the display of the date of the last update of the website, but that the presence of this website is well viewed by users, since it increases the credibility by demonstrating that the information is not obsolete [6].

The patient should also be encouraged to visit the site, either by clinic staff or by leaflets, banners or other media in the media (social networks, television, billboards, etc.). One advantage of websites is that internet users interested in dental care can view it through any search page, using keywords [24,25].

Each user survey is archived, indicating that one of your interests is listed. Personal information (such as telephone, profession and hobbies) is provided at the time of registration on websites of high traffic companies, such as in social networks or virtual stores. Also stored are information such as location, travel and internet browsing times. In this way, announcements of dental clinics will be launched precisely to the target public that has been researching on “dentists”, “orthodontic treatment”, “channel”, etc. There are consulting and marketing firms specialized in leveraging this result, called remarketing [25,26].

However, there are simple ways to start this process, for example, using a professional page on Facebook®, since when publishing something on a personal page, the algorithm of the network itself does not allow a vast view of this content. This contrast with the professional page where the CD can boost some of its main publications, paying the social network so that these ads are visualized by thousands of people, previously selected by the professional, who will be their target audience. Other companies, such as Instagram® and Google® use this remarketing process [26].

**Ethical precepts on marketing, advertising and advertising in dentistry**

Undoubtedly, marketing, be it traditional or digital, is of paramount importance in the competitive reality of the service market present today. Ethical principles, however, must be critically obeyed. Contrarily, researches have pointed to a great failure among professionals to follow the laws of the CEO (Tables 1 and 2) [5-7,9,27,28].

In the dental field the CED is a set of rules that govern the rights and duties of the SD, being easily found, including in the digital environment, where it is made available freely and free to all professionals and lay people. However, a survey that looked at professional websites and dental clinics exposed ethical violations on most of the digital pages included as a sample study [6].

According to Paranhos et al. [9], the Consumer Protection Code also guides marketing in all sectors, including in the service market, maximizing the reporting requirements, truthfulness, availability and transparency of advertisements for dentists and dental clinics to the public.

According to the CED, approved by resolution Federal Council of Dentistry (FCD)-118/2012, ads, advertisements and advertisements can be made in any medium, including the digital medium, provided they comply with the rules. At the moment of disclosure of clinics and / or professionals, it is mandatory to include name and number of natural or legal person, as well as the representative name of the profession “surgeon-dentist”. If it is a legal entity, the name and registration number of the technical responsible, in addition, when specialties are mentioned, the name of the professional experts and their qualifications, as well as the areas of practice of the general practitioners should be displayed [27,28].
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Table 1 - Percentage of ethical precepts obeyed and infractions committed according to different researches

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<tbody>
<tr>
<td>Dentist’s name¹</td>
<td>Uninformed</td>
<td>70.8%</td>
<td>94.79%</td>
<td>98.83%</td>
</tr>
<tr>
<td>CRO¹ registration number</td>
<td>Uninformed</td>
<td>65.2%</td>
<td>52.34%</td>
<td>14.79%</td>
</tr>
<tr>
<td>Representative name of “dental surgeon”¹</td>
<td>Uninformed</td>
<td>34.3%</td>
<td>11.46%</td>
<td>7.39%</td>
</tr>
<tr>
<td>General “clinical expression” when not a specialist¹</td>
<td>Uninformed</td>
<td>40.3%</td>
<td>2.34%</td>
<td>Uninformed</td>
</tr>
<tr>
<td>Before-after pictures²</td>
<td>5.95%</td>
<td>Uninformed</td>
<td>53.12%</td>
<td>46.30%</td>
</tr>
<tr>
<td>Prices and payment methods²</td>
<td>6.6%</td>
<td>17%</td>
<td>5.99%</td>
<td>7.77%</td>
</tr>
<tr>
<td>Critique of techniques used by other professionals²</td>
<td>Uninformed</td>
<td>Uninformed</td>
<td>Uninformed</td>
<td>0.38%</td>
</tr>
</tbody>
</table>

Foot Note: ¹ - Ethical precepts; ² - Ethical breaches.

Table 2 - Comparison between the most ignored ethical precepts and what the CED determines about them

<table>
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<tr>
<th>The ethical precepts most ignored by SDs</th>
<th>Standards set by CED</th>
</tr>
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<tbody>
<tr>
<td>Obligatory presence of the representative name of “dental surgeon” AND Obligation of the presence of the CRO registration number</td>
<td>Art. 43. In the communication and disclosure it is mandatory to include the name and registration number of the individual or legal entity, as well as the representative name of the profession of dental surgeon and also of other regulated auxiliary professions. In the case of legal entities, also the name and the registration number of the responsible technician.</td>
</tr>
<tr>
<td>Requirement of the expression “general practitioner” when the CD performs dental procedures using knowledge obtained at the undergraduate</td>
<td>Art. 43, § 1º. Communication and disclosure may also include: VI- The term “general practitioner”, by professionals practicing activities pertinent to Dentistry arising from knowledge acquired in the course of graduation or post-graduation</td>
</tr>
<tr>
<td>Presence of forbidden expressions or before and after images</td>
<td>Art. 44. It constitutes an ethical infraction: I- to make advertising and advertising misleading, abusive, including with expressions or images from before and after, with prices, free services, payment modalities, or other forms that imply commercialization of Dentistry or contrary to the provisions of this Code.</td>
</tr>
</tbody>
</table>

A worrying factor is that only 34.8% of the office plaques observed by Garbin et al. [5] presented the registration number of the Regional Council of Dentistry (RCD) and that in most of them the representative name of the profession “dental surgeon” was replaced by terms like “dentist” or “dentistry”.

These results are similar in the digital media, where almost all professionals do not display the Regional Council of Dentistry (RCD) (85.21%) personal or legal registration number nor does it disclose the representative name of the profession (92.61%) in their social networks. This is also observed in the websites, where only 52.34% show the enrollment number and only 11.46% the mandatory term “dental surgeon” [6,7].

It is permitted, but not mandatory, to include areas of practice, procedures and treatment techniques recognized by the CFO, provided they precede the specialty degree or the qualification of general practitioner. It may include titles of academic formation ‘stricto sensu’ and teaching related to the profession and the expression “general practitioner” for professionals who practice dentistry with knowledge acquired in undergraduate or postgraduate courses [27].

In the studies by Serra et al. [4], only 26.46% of the professionals exhibited their dental specialty and only 7.79% of them, their academic title in marketing tools. However, in 94.79% of the websites the information about the specialty registered in the RCD was
exposed, due to the facility that provides in
the moment of research of the public in the
platforms of search [6]

It is also possible to have a logo, as well
as information on address, telephone, fax,
e-mail address, working hours, agreements,
credentials and if home and hospital care is
offered [26].

It is judged an ethical violation when
advertising and advertising is misleading,
abusive and disloyal [28]. It is forbidden to
include expressions or images of before and
after, prices, free services, payment modalities
(and commercialization of dentistry in general),
to disclose titles and specializations that are not
registered or recognized by the FCD, as well
as areas, therapies and treatment techniques
which are not scientifically proven [27].

It is also considered an ethical infraction
to criticize other techniques or professionals
as outdated, to give consultation, diagnosis or
prescriptions by any mass media, to divulge
any element that identifies the patient, if there
is no informed consent form (ICF) [26,27].

According to Serra et al. [4] in 2005,
only 5.95% of dentists (SDs) used “before,
during, and after” images in their ads. With
the advent of the internet, that number has
grown substantially. In social networks, the
index is 46.30% [7] and the websites is 53.12%
[6]. This type of announcement causes the
patient to believe that the completion of their
treatment will be similar to that of the images,
grounding the erroneous idea that dentistry
has an obligation of result [9]. Others expose
prices, free services and payment modalities,
whether in digital or traditional marketing
tools [5-7].

The study by Lima et al. [7] also showed
that in a small number of social networks
linked to the SD (0.38%), there were criticisms
of techniques or materials used by other
professionals, which constitutes a passive
ethical infraction of penalty, even though in
100% of them there was no evidence of direct
criticism of other professionals.

In most of the websites analyzed, it was
stated that the SD would be an expert, but
only as a marketing tool, considering that this
is a more popular expression than the general
practitioner. Although it is considered legal
to use it, followed by the area of practice
that the professional exercises with his / her
knowledge absorbed from the undergraduate
course (General practitioner - Endodontics, for
example), this act is considered as misleading
and therefore prohibited from being performed
in any marketing tool [6].

There is a need for education and
awareness of the professionals, as well as the
greater performance of the agencies responsible
for the supervision of dental marketing,
pointing out, warning and penalizing the
violations found [5].

DISCUSSION

The authors Paim et al. [1] and Paranhos
et al. [10] agreed that marketing is a set of
studies, strategies and practices that launch a
product or service to the public, according to
the analysis of their needs, seeking to maintain
its success in the market, thus constituting
the success of the company. Marketing can
be divided into internal and external and,
although separated for didactic purposes, must
be an active set of artifices [3]. According to
Garbin et al. [5] and Lima et al. [7], external
marketing is the most used to attract customers,
but several authors corroborate with the idea
that this is just a complement to other types
of marketing, which should not be ignored
[3,20,23].

It was observed that good care is more
prominent in satisfaction surveys, even before
the professional titration or the determined
prices [5,12-14]. According to Guimarães
Júnior et al [16], there is a current search to revitalize relationship marketing, which has also been commented by other authors when affirming that the clinic should be willing to listen to clients so that the services provided are always exceeding expectations of them and that can be recommended to other people [17,18].

It is necessary that the SD researches the digital platforms most used by its potential customers [3]. According to Rollsz et al. [22], the network that dominates the largest number of users in the world is Facebook®, followed by Whatsapp®, however, Lima et al. [7] stated that many market sectors, including dentists, are increasingly using Facebook® and Instagram® as useful marketing tools.

Some authors are unanimous in affirming that the strategy of “content marketing” can be used both in social networks, as in websites and blogs, and is effective because it focuses on the real need of the reader. The digital pages should have an intuitive design, serving as a good source of updated information for the public, showing the date of the last update [6, 24-26].

An interesting factor is that both the research done by the user and the information provided by the user is archived and can be used by so-called remarketing. From simple means of using this tool, with publications in social networks, to the hiring of specialized marketing companies in this service [24-26].

Undoubtedly, marketing, be it internal or external, is of paramount importance in the competitive reality of the market of services. Ethical principles, however, must be carefully obeyed. Conversely, studies have pointed to a major flaw between SDs and dental clinics in following the laws of the CED [5,7,9]. In the study by Garbin et al. [5] 55.1% of the dental plaques analyzed were in disagreement with the CED. In the websites observed by Miranda et al. [6], at least 97.66% of them disobeyed the ethical precepts by not having the expression “general practitioner” by professionals who practice dentistry, with the knowledge acquired in the undergraduate course.

In social networks the results are equally alarming, since 92.61% of the professionals do not use the mandatory term of identification of the profession “dental surgeon” in its pages, characterizing disagreement with the CEO [7]. This is probably due to the lack of knowledge of the CDs on the standards in force in the CEO, updated in 2012. There is a need for greater awareness of the professionals, as well as the intensive action of the agencies responsible for the supervision of dental marketing, pointing out, warning and penalizing the violations found.

Authors also agreed that in the training of dentistry students need to be encouraged studies of ethics, management and marketing of the profession, as well as technical and theoretical studies. As well as the already active CDs need to be in constant research and updating, since ethical principles must be observed and obeyed at all stages of their professional lives [2,5,7,18].

**CONCLUSION**

Digital marketing has shown to be of great importance in the dental services market if, together with other types of external and internal marketing, it obeys the ethical precepts of the Dental Ethics Board. There is great acceptance of digital marketing by dental surgeons, both through websites and through social networks, but there has been a failure to comply with the ethical precepts in force in the Code of Ethical Dentistry.

**REFERENCES**


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