“Pele Alerta Project”: prevention and early detection of skin cancer aimed at beauty professionals

“Projeto Pele Alerta”: prevenção e detecção precoce do câncer de pele direcionado a profissionais de beleza

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ABSTRACT

Introduction: Skin cancer is the most common neoplasm in several countries, including Brazil, and its incidence continues to rise. Early detection and primary prevention are the main ways to reduce morbidity and mortality. Places such as the head, neck and back are difficult to see by the person himself. There is a potential in beauty professionals for the early detection of these lesions and referral for evaluation and medical conduct.

Objectives: Develop an online project with tools to educate beauty professionals about skin cancer.

Methods: Based on current literature, videos and educational illustrated material were made available on a website.

Results: The “Pele Alerta Project” can be accessed at www.projetopelealerta.com; this currently has four topics, each with a video (YouTube) and support material in PDF.

Conclusion: The project in question is feasible, easy to execute and allows comprehensive education concerning skin cancer.

Keywords: Skin; Skin neoplasms; Health promotion; Education; Primary prevention.

RESUMO

Introdução: O câncer de pele é a neoplasia mais incidente em vários países, incluindo o Brasil, e a sua incidência continua subindo. A detecção precoce e a prevenção primária são as principais formas de diminuir a morbidade e mortalidade. Locais como cabeça, pescoço e dorso são de difícil visualização pela própria pessoa. Há um potencial nos profissionais de beleza em detecção precoce destas lesões e encaminhamento para avaliação e conduta médica.

Objetivos: Desenvolver um projeto on-line com ferramentas para educação de profissionais de beleza sobre o câncer de pele.

Métodos: Baseado na literatura atual, foram formulados vídeos e material ilustrado educativos, disponíveis em um website.

Resultados: O “Projeto Pele Alerta” pode ser acessado em www.projetopelealerta.com; este conta atualmente com 4 tópicos, cada qual com um vídeo (YouTube) e material de apoio em PDF.

Conclusão: O projeto em questão é viável, de fácil execução e permite grande alcance na educação em relação ao câncer de pele.

Descritores: Pele; Neoplasias cutâneas; Promoção da saúde; Educação; Prevenção primária.
INTRODUCTION

Skin cancer is the neoplasm with the highest incidence both in Brazil and in the world. Much attention is directed to melanomas, but non-melanomas such as basal cell carcinoma (BCC) and squamous cell carcinoma (SCC) also profoundly impact public health.

The main risk factor for the onset of skin cancer, in general, is exposure to solar ultraviolet radiation. Some studies have documented a strong relationship between BCC and melanoma with intermittent intense sun exposure, especially before 20 years of age, while SCC occurs due to the cumulative effect of ultraviolet radiation throughout life, appearing in photodamaged areas. Other risk factors have also been identified for skin cancer, such as red hair, clear eyes and skin, dysplastic nevi, smoking, alcohol consumption, arsenic exposure, ionizing radiation, chronic skin irritation processes, burn scars, use of immunosuppressants and papillomavirus infection. Genetic alterations may also predispose to early-manifestation skin cancer, as in the case of xeroderma pigmentosum and basocellular nevus syndrome.

The most common skin cancer is BCC, accounting for approximately 80% of diagnosed cases. SCC is the second most common, and its incidence is increasing progressively. Malignant melanoma accounts for only about 5% of skin cancers worldwide but is responsible for more than 77% of cancer-related deaths.

Often skin neoplasms, when they are diagnosed, show no symptoms. In most cases, the primary lesion is perceived by the patient or some family member. Even if it is not a specialist physician who is the first to evaluate this lesion, a well-trained eye may have good accuracy to differentiate benign lesions from malignant lesions.

The head and neck are sites very susceptible to skin neoplasms development because they are generally more exposed to the sun. However, in these regions, the lesions may be barely visible by the person himself or hidden in the hair, causing a delay in his diagnosis and treatment, contributing to the prognosis’s worsening.

Hairdressers and beauty professionals are professionals still little explored in their potential for early detection of these lesions. Skin neoplasms, especially melanomas, can be easily screened through well-established criteria.

Considering these factors and the current reality, where knowledge is available on an ever-increasing scale through digital platforms, the “Projeto Pele Alerta” (PPA) (Alert Skin Project) was conceived to bring accurate information to professionals who work directly with the beauty and personal care market.

METHODS

The research ethics committee approved this project of UNIFESP with the number 3415290116/2016. It was defended as a thesis in the professional master’s degree in science, technology, and management applied to tissue regeneration.

Firstly, the target audience was defined, consisting of all beauty or related professionals who work in direct contact with the population’s skin, such as hairdressers, manicurists, tattoo artists, makeup artists, massage therapists, among others.

A completely online and free project was developed, in which these professionals can have access to educational videos, accompanied by material illustrated in PDF format on the project’s website (www.projetopelealerta.com).

The name “Project Alert Skin” was defined in a way to directly present its purpose: to create an alert in these professionals, so that, knowing what skin cancer is, its possible presentations and causes, they can detect suspicious lesions and refer to medical care.

RESULTS

The initial program of the “Projeto Pele Alerta” has four chapters, with possible future expansions:

1. Ultraviolet ray and skin. Nodes about ultraviolet rays and how they affect the skin;
2. Skin cancer: our feared enemy. Brings the types of skin cancer with some features and photos to illustrate;
3. Sun protection: enjoying the sun in the right way. Views on photoprotection and prevention of skin cancer.
4. Where to suspect any injury? Tips to professionals who watch the content about where to pay special attention during their daily work.

The website of “Projeto Pele Alerta” (www.projetopelealerta.com) centralizes the campaign’s subject and serves as a starting point for professionals who wish to access its contents. The site’s slogan, “Beauty allied to prevention,” aims to make the professional who works with beauty feel familiar with the content. It also carries the message: “Take care of your clients in an even more special way” because knowledge adds value to their everyday work, with a role in the prevention and early detection of skin cancer (Figure 1).

In the “Downloads” section, participants have access to the list of topics covered and a link to download the support material in PDF (Figures 2, 3 and 4).

In the “Videos” section, there is a thumbnail for each video of the “Projeto Pele Alerta.” Participants can
choose to watch them from their website or migrate to YouTube and watch there (Figures 5 and 6).

In the “Contact” section, there is a possibility of contact with the project organizers, creating a bilateral communication that allows feedback, in addition to the possible comments on the videos.

**DISCUSSION**

The current panorama of Brazil, increasingly online, mainly due to the broad access to the internet and smartphones, fosters a range not previously possible for preventive campaigns. An online project manages to reach many wilderness locations in this heterogeneous country. In places where access by route can be difficult, this content has potential reach if there is an internet connection.

The format of the material prioritized videos representing the easiest way of consuming information today, being passive and representing less effort, requiring only that the person is watching and understanding. However, the material was created in PDF to facilitate a quick visualization of the subjects covered. The creation
of a project website was conceived to centralize all these forms of communication in one unit, allowing that when accessing this website, the participant can, in addition to accessing the materials, have a form of contact with the team is behind its creation.

Early detection of skin cancer is the strategy that is believed to be the most cost-effective. Most of them are directed at melanomas due to their greater morbidity and mortality, but non-melanomas, due to their greater incidence, may represent even greater costs to the health system10.

Early detection allows thinner lesions to be treated with a better prognosis in the case of melanomas and allows for less extensive scarring with better aesthetic results11,12.

Many people have misconceptions about ultraviolet radiation, photoprotection, how skin cancer arises, its types and characteristics13. This project then proves essential by bringing correct information to the lay population, combating possible myths and wrong ideas.

Since the 1980s, with the “Sun Smart” campaign, Australia has been a pioneer country in skin cancer prevention programs because it has the highest incidence of the disease worldwide, representing a high health cost. An efficient strategy in this country was to act locally, knowing the reality of the affected population. However, in today’s connected world, an online project can reach a large portion of the population. Partnerships between diverse sectors of the population, such as government, industry and medical services, were also a key to Australian success. Consistency is also important, as engagement and protective behaviors can fluctuate according to the intensity of exposure to the campaign and the arrival of information to participants14,15. The online content is dynamic and can be changed in content and format to seek the attention of a greater number of interlocutors to the subject. In the “Euromelanoma” campaign, this has been one of the biggest challenges: maintaining the motivation of professionals over time and reaching the high-risk population16,17.
Skin cancer screening outs the health system. The assistance of professionals alerted after the PPA can be fundamental to reach high-risk people who do not usually go to the doctor or who would not participate in a campaign. This exchange of information is very positive. An American hairdresser who pioneered this role has been looking for more than 20 years to look for suspicious injuries to her clients. She encourages colleagues to take on this “double journey” that adds more value to their work and offers broader care. Ironically, it was she who had a malignant injury detected by one of her clients.

Lachiewicz et al., in 2008\textsuperscript{19}, raised in the literature the possibility of acquiring knowledge about skin cancer by hairdressers because melanomas of the head and neck are the ones with the highest mortality. As these professionals have intimate and frequent contact with these regions’ skin and attachment, they have a valuable opportunity for detection. This is the logic of the PPA. Later other authors\textsuperscript{8} deepened this issue from the suspicion of skin lesions by hairdressers. They focused on head and neck melanomas due to their mortality, but this concept can be extrapolated to other lesions. There are standardized criteria that allow the suspicion of a malignant skin lesion, even if the person is not a specialized doctor. Besides, they pointed out other positive experiences in these professionals’ performance in health promotion related to diseases, such as breast and prostate cancer. Beauty professionals are an option that is still little used and has great potential for action. There is a range of professionals who have frequent and prolonged access to the skin of the population. However, to avoid any ethical dilemma, it is very important to emphasize to these professionals that they help detect potential malignant lesions but that the effective diagnosis, positive or negative, remains a medical responsibility.

Doran et al., in 2016\textsuperscript{20}, carried out a cost-effectiveness analysis of three Australian media campaigns in New South Wales, concluding that they are a good investment due to their potential to reduce the morbidity, mortality and economic burden caused for skin cancer. In this analysis, there was a 3.85 dollars return for each dollar invested, which becomes even more positive in a low-cost project like the PPA.

Beauty is very important in today’s society, especially in Brazil. According to SEBRAE (Brazilian Service of Support to Micro and Small Enterprises), in 2014 there were 345,977 individual microentrepreneurs in Brazil in the field of “hairdressers, manicures and pedicures.” This creates a very large social importance of these professionals, who in certain places have a greater reach than the health services themselves, with regularity, trust and proximity, which overcomes possible cultural gaps\textsuperscript{21}.

Another point addressed by the PPA is the importance in media and society of the desire to be tanned. According to Perez et al., in 2015\textsuperscript{22}, this desire is greater among young people, especially among women, very influenced by fashion. The PPA highlights the sensitivity to ultraviolet radiation, the differences between skin color tones and points out that the healthiest skin color is the one we were born with, to mitigate erroneous beliefs that a white skin (pejoratively described as “pale”) is a sign of a less healthy person than the one who sustains a tan, at the expense of exposure to skin cancer risks.

As perspectives for the future of this project, the establishment of partnerships should be fundamental for the expansion and feeding of the project content and dissemination. Volunteering is not something very present in Brazilians’ routine, so the real interest of beauty professionals in acquiring this knowledge that does not bring an immediate financial return is not yet known.

However, even with suspicion of malignant injury by a lay professional, this patient’s gateway through the health system will be through family doctors in basic health units. They, therefore, require more consistent training on skin cancer, which does not receive much attention in the usual residency programs in family medicine\textsuperscript{23}.

CONCLUSION

The “Projeto Pele Alerta” is an educational project in prevention and early detection of skin cancer, aimed at professionals in the beauty and personal care market, which is on the internet ready for use and to be disseminated throughout the Brazilian territory.

COLLABORATIONS

CKM Conception and design study, Methodology, Visualization, Writing - Original Draft Preparation, Writing - Review & Editing

AH Conception and design study, Conceptualization, Final manuscript approval, Supervision, Visualization

IDAOS Conception and design study, Conceptualization, Final manuscript approval

LMF inal manuscript approval, Methodology, Supervision

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