Program EducAtivo: physical activity as a health education strategy

Programa EducAtivo: a atividade física como estratégia de educação em saúde

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ABSTRACT
This study aimed to describe the transition from the intervention protocols of the research project entitled “Active Environment” to the conception of the university extension program known as “EducAtivo”. Considering the complexity of the context of physical activity promotion and the need to understand its processes, this manuscript justifies itself as it addresses such need by reporting the procedures adopted along the extension program implementation. The result of this transition is the current proposal of EducAtivo, aimed at creating opportunities for health experiences and reflection, using physical activities/body practices as a health education strategy, apart from approaching related topics such as healthy eating. With an itinerant design, this program implements its activities in social spaces, bringing the university closer to the community. Furthermore, EducAtivo welcomes students from different courses, fostering qualification for multi-professional work, since this is fundamental in the health field. Fundraising has been sought, aiming to improve and increase the program.

Keywords: Exercise; Health promotion; Community-institutional relations.

RESUMO
Objetivou-se descrever a transição dos protocolos de intervenção da pesquisa “Ambiente Ativo” à construção do programa de extensão universitária “EducAtivo”. Considerando a complexidade do cenário da promoção da atividade física e a necessidade de compreensão de seus processos, este manuscrito se justifica à medida que vai ao encontro de tal necessidade ao relatar os procedimentos adotados no decurso da implementação do programa de extensão. O resultado dessa transição consiste na atual proposta do EducAtivo, que tem por objetivo criar oportunidades à vivência e reflexão em saúde, lançando a mão das atividades físicas/práticas corporais como estratégia de educação em saúde, além de abordar temáticas correlatas, como alimentação saudável.

De caráter itinerante, o programa realiza atividades em espaços sociais, aproximando a universidade da comunidade e recebe estudantes de diferentes cursos, fomentando a capacitação para atuação multiprofissional, fundamental no campo da saúde. Busca-se aprimorar e ampliar o programa com a captação de recursos.

Palavras-chave: Exercício; Promoção da saúde; Extensão comunitária.

Introduction
The pandemic of physical inactivity and its repercussions for society1–3 have included the theme of physical activity (PA) in the agenda of public policies worldwide. Not coincidentally, the Global Strategy on Diet, Physical Activity and Health4 was proposed in 2004. In Brazil, PA has been included in the public sphere since 2000 by the Rede Agita Brasil5 and consolidated with the Brazilian Physical Activity Network in 20056. Such context, added to the results of studies on the effectiveness of PA interventions, which indicated little change in populational PA levels7, represents a challe-
The experiences accumulated during interventions, combined with the challenge of uniting the knowledge generated by scientific production and the development of health promotion practices through PA, caused the GEPAF to create the university extension program known as “EducAtivo” (Active Education). The present study describes the process of transition of the protocol used in the research on EducAtivo practices.

Active Environment Research: historical context

In 2007, the GEPAF performed a home-based survey in the district of Ermelino Matarazzo, in East São Paulo, revealing that 68.7% of the adult population did not practice PA in their leisure time, 14.3% did not walk as a means of transport and 47.1% did not meet the recommendation of 150 minutes of PA practice/week. In view of this diagnosis, between 2010 and 2012, the GEPAF implemented interventions for PA promotion in the Sistema Único de Saúde (SUS - Unified Health System) through the Estratégia de Saúde da Família (ESF - Family Health Strategy). They were known as the Ambiente Ativo (Active Environment), developed with the Superintendence of Health and Sports of the Regional City Hall of Ermelino Matarazzo, funded by the São Paulo Research Foundation (FAPESP).

One of the strategies compared interventions with adults and elderly individuals, who are SUS users, apparently healthy and insufficiently active during leisure time and/or transport. A total of three groups were formed, including approximately 50 participants in each one, originated from distinct Unidades Básicas de Saúde (UBS - Primary Care Centers), one of which is the control group while the other two are intervention groups. During 12 months, one of the groups participated in a supervised exercise program (three sessions of 60 minutes per week) in the facilities of the School of Arts, Sciences and Humanities of the University of São Paulo (EACH-USP), while the other group participated in a health education program with 16 meetings of 120 minutes each, four of which were weekly, two were biweekly and ten were monthly, all held in community spaces. The results pointed to an increase in the PA level in both groups when the interventions were concluded. However, better results were found for maintenance of PA levels six months after the intervention in the health education group, thus becoming a potential for the improvement of PA promotion actions in similar contexts.

Program EducAtivo development

First steps

Following the steps taken by the Active Environment interventions, the first EducAtivo intervention was conducted in partnership with a UBS. At first, an 12-month intervention was proposed, including physical activity sessions in the EACH-USP facilities, intertwined with meetings to discuss the themes from the health education group, thus mixing the protocols of both interventions. This design occurred by convenience, due to the infrastructure provided by the EACH-USP. In September 2013, different areas of the campus were closed due to environmental problems and, as a result, the program was discontinued. This situation caused the campus to be closed in the first semester of 2014, being subsequently reopened in August of the same year.

Rethinking the intervention model

The loss of space associated with the period of academic and administrative reorganization of the EACH-USP forced the program to be suspended until the second semester of 2015. As the context at that time did not promote the initial format proposed for the EducAtivo, changes to enable its continuity were required. Additionally, human and financial resources for the program were reduced, compared to research, something that had already been noticed in the beginning of the extension activities. Research included resources for educational materials and interviewers, apart from the Nutrition, Physical Education, Psychology and Medicine professionals who developed and implemented this intervention. In the EducAtivo, the resources were reduced to one Physical Education professional not exclusively dedicated to the program and one volunteer trainee.

In this context, the proposal was reformulated, drawing closer to the health education group protocol. It functioned in the UBS and social spaces around the EACH-USP, although with different intervention...
times: the 16 meetings spread across 12 months of protocol were concentrated in ten weekly meetings. Another change was associated with the EducAtivo team, which included the participation of students from several EACH-USP courses through the university’s Programa Unificado de Bolsas (PUB - Unified Scholarship Program), when activities with the UBS (with which the program began in 2013) were resumed.

**Reality shaping the protocol**

In the field, the demands made by those cared for, the structural conditions of intervention spaces and the limited resources shaped the thematic meetings of the original protocol. In view of the fact that certain protocol themes were implemented by specialists, their absence in the EducAtivo program led to the adaptation or exclusion of such themes. As an example, the meeting on stress management, guided by a psychologist during the study, was excluded, although the theme is dealt with when brought up. Meetings on eating habits, conducted by nutritionists at the time, were reorganized according to instructions from the new edition of the Dietary Guidelines for the Brazilian Population, released in 2014.

Without interviewers to select insufficiently active individuals - the research target population - the project was promoted by the UBS and through the distribution of printed material, which mainly attracted those who were already engaged in PA practice and saw the project as an opportunity to increase/qualify their practice. This context led to an increase of at least 50% in the length of time of physical activities/body practices of meetings, differing from the original proposal. Moreover, this caused discussions to follow a different path: acute physiological changes of exercises, perceived and expressed by participants during and after their practice, guiding the discussion on the importance of PA for health in biological terms.

After the first interventions, the duration of meetings was reduced from 120 to 90 minutes, as the population cared for, most of whom were females, performed other activities, usually related to home and family care, that concurred with the period when the program was offered (mornings). The current program schedule, resulting from the exclusion, combination or division of themes, is shown in Figure 1. Its development considered the main goal of the original intervention and the opinions of participants and students involved.

**Figure 1 – Description of the Program EducAtivo.**

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Proposed activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Project presentation (history, objective and timetable)</td>
</tr>
<tr>
<td>2.</td>
<td>Physical activity for flexibility: workshop and discussion according to the physical perception of practice</td>
</tr>
<tr>
<td>3.</td>
<td>Physical practice correlated to the previous theme/Group development of the class</td>
</tr>
<tr>
<td>4.</td>
<td>Classification of foods according to the Dietary Guidelines for the Brazilian Population (GAPB)</td>
</tr>
<tr>
<td>5.</td>
<td>Physical practice correlated to the previous theme/Group development of the class</td>
</tr>
<tr>
<td>6.</td>
<td>Health concept and distribution of the GAF**</td>
</tr>
<tr>
<td>7.</td>
<td>Physical practice correlated to the previous theme/Group development of the class</td>
</tr>
<tr>
<td>8.</td>
<td>Presentation of “Ten Steps to Healthy Diets” - part 2 and distribution of pocket GAPB*</td>
</tr>
<tr>
<td>9.</td>
<td>Assessment of the project by participants using a questionnaire</td>
</tr>
<tr>
<td>10.</td>
<td>Physical activity or practice selected by participants/Review of contents and workshops</td>
</tr>
</tbody>
</table>

* Illustrated folder of the “Ten Steps to Healthy Diets” from the GAPB; ** Physical Activity Guidelines (illustrated folder with a summary of physical capacities and self-care).

The vulnerability of the network of project partners due to changes in the municipal administration and Social Organizations that manage the health equipment led to the search for new partnerships and to the EducAtivo implementing its activities in NGOs, libraries, parks and condominiums, apart from seeking partnerships with institutions from the Ermelino Matarazzo Network of Physical Activity.

**Program’s general characterization**

EducAtivo was created to provide PA to individuals who are insufficiently active during leisure time, aiming to increase the PA level of the population in Ermelino Matarazzo. Guided by this objective, the first interventions were performed practically according to the original protocol. However, the program implementation in the field and the observation that the individuals cared for differed from the research target population and that reaching them would not be possible with the available...
resources led to a period of replanning and the resulting change of direction of the program. At this stage, the understanding that the program’s indicators and capacity for service provision and assessment did not meet its objective was essential for the definition of its current objective - to create opportunities for reflection and experiences in health - including services provided to students and participants. The current logical model shows this, as it guides the team’s actions (Figure 2).

The implementation of EducAtivo begins with the partnership with the space manager - when the history, proposal and timetable are shown with the support of an illustrated folder - and with its promotion through posters and flyers distributed in the area and its surroundings. Initially printed with EACH-USP resources, most of this material is now funded with the resources obtained from the 2nd Public Notice of the Santander/USP/FUSP for Public Policies and Fundamental Rights. This was also the source of funds for the colored print of the educational materials entitled “Physical Activity Guidelines” - which includes information about physical skills and self-care for PA practice - and “Ten Steps to Healthy Diets” - which covers a summary of information from the Dietary Guidelines for the Brazilian Population - developed by the team from the demands that arose in the field.

There is not a fixed number of vacancies, as they are made available according to the space provided. However, a minimum of 15 participants has been established for the program to begin. Adults and elderly individuals are the target population, regardless their PA level. In addition to the difficulty to invite

<table>
<thead>
<tr>
<th>Resource</th>
<th>Activity</th>
<th>Product</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human resources</td>
<td>- Continuous planning and assessment</td>
<td>- Hours of training/qualification/planning</td>
<td>Short term:</td>
</tr>
<tr>
<td>- Staff (teaching and technical-administrative)</td>
<td>- Team training</td>
<td>- Number of academic projects developed</td>
<td>Students:</td>
</tr>
<tr>
<td>- Students (trainees and scholarship recipients)</td>
<td>- Meetings with stakeholders</td>
<td>- Number of students involved (trainees/scholarship recipients)</td>
<td>Population:</td>
</tr>
<tr>
<td>Material resources:</td>
<td>- Diagnosis of interest and the area</td>
<td>- Program website (under construction)</td>
<td>- Identification of physical activity programs in the area</td>
</tr>
<tr>
<td>- Locations for intervention</td>
<td>- Project promotion</td>
<td>- Database of workshops (description of activities - under construction)</td>
<td>- Acknowledgement of one’s sedentary behavior</td>
</tr>
<tr>
<td>- Educational and office materials</td>
<td>- Rounds of conversation</td>
<td>- Number of locations served</td>
<td>- Improvement of one’s knowledge about physical capacity</td>
</tr>
<tr>
<td></td>
<td>- Dialogue-based expository classes</td>
<td>- Educational material developed (pocket GAF and GAPB*)</td>
<td>- Change in perception of PA and HD**</td>
</tr>
<tr>
<td></td>
<td>- Production and distribution of educational material</td>
<td>- Number of hours and services provided/participants served</td>
<td>Medium term:</td>
</tr>
<tr>
<td></td>
<td>- Workshops and physical activities/ body practices</td>
<td></td>
<td>Students:</td>
</tr>
<tr>
<td></td>
<td>- Group dynamics about healthy eating</td>
<td></td>
<td>- Qualification to mediate program activities</td>
</tr>
</tbody>
</table>

Influencing factors

- Availability of scholarships; location for intervention; weather; number of participants; technical knowledge; service hours.

* Physical Activity Guidelines = illustrated folder with a summary of physical capacities and self-care and pocket GAPB = illustrated folder of the “Ten Steps to Healthy Diets”; ** Physical Activity (PA) and Healthy Diet (HD).
insufficiently active participants, many of those who already practiced PA invariably did so without basic care (hydration; warm-up; proper diet) or due to medical guidance without, however, understanding the benefits of the practice for their health condition. This context led the program to be conducted according to the perspective of functional health literacy, touching on questions about self-care regarding PA practice, its acute and chronic physiological changes and, when relevant, the resulting effects on the treatment of certain non-communicable chronic diseases.

On the first day, recreational activities function as strategies for the interaction between participants and the program team and triggers for the discussion of the concept of PA. The presentation of the history, objective and timetable to the public also occurs on the first day, aiming to lay the foundation for the program's itinerant model and to emphasize the co-responsibility in the implementation and effectiveness of the intervention. Although the program has an educational sequence, each meeting is designed to be independent, due to the variation in the frequency of participants. During the experiences, participants are encouraged to pay attention to their body and the feelings/sensations that arise with the exercises. Reports on their body perception serve as the foundation of dialogue-oriented expository lessons about physical skills and capacities. Whenever possible, guided walks and visits to public equipment in parks, squares and outdoor gyms are performed. A total of approximately 15 hours of in-person activities with each group are conducted (1x/week; 90 minutes/day; 9 to 10 weeks).

Concurrently with the activities with the population, training courses are performed with the students received in the program, including activities such as reading, videos and practical laboratory for fieldwork. They bring practices such as capoeira, yoga, senior dance and others, apart from specific discussions, thus collaborating to the diversity of activities. However, this context causes the program to be unstable due to the team’s rotation, mainly including undergraduate students who already total 20 individuals, among which are scholarship recipients, trainees and volunteers.

**Final considerations**

To begin a physical activity program guided by an intervention protocol and based on research results has certainly promoted the development of its foundations. However, maintaining the initial proposed model as a university extension program was impossible due to the difficulties found in terms of available resources. After three years of uninterrupted work, this program has gained experience and taken advantage of this for its own development. Educativo has recently received funds from the university’s Programa Aprender na Comunidade (Learning in the Community Program), which supports extramural activities developed by students in their professional practice and whose resources are used to improve the services and increase the impact of physical activity promotion actions in Erme-lino Matarazzo.

**Conflicts of interest**

The authors declare no conflict of interest.

**Author contributions**

Guerra RB participated in the manuscript design, data collection, and text writing and review. Florindo AA contributed to the critical text review. Neiva JFO contributed to the critical text review. Andrade DR participated in the manuscript design, critical review and approval of the final version.

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**References**


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