The professionals’ perceptions about the MOVE® curriculum approach

As percepções dos profissionais sobre a abordagem do Protocolo MOVE®

Las percepciones de los profesionales sobre el abordaje del programa MOVE®

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ABSTRACT | Classically, in Brazil, children with severe neurological impairment have been submitted to intervention methods focused on the improvement of the overall development in controlled clinical environments. However, it has been questioned if the isolated clinical treatment results in important gains in the child’s performance in various environments (home, school, community). The Mobility Opportunities Via Education (MOVE®) program is a functional approach designed to assess and treat children with severe disabilities. The objective of this study was to understand the perception of the teachers and assistants regarding the MOVE® approach in a special education school in the city of Paulínia (SP). This research is a result of a qualitative case study conducted by using semi-structured interviews and categorical data analysis. With the application of the MOVE® program in the school, the professionals started having a more human view while taking care of the patients. The importance of motor learning in natural environments, more motivation in the children and improvement in their motor development were emphasized. MOVE® was efficient in the perception of the professionals, favoring more motivation in the children and a more human approach with children with motor disabilities.

Keywords | Evaluation of Results of Therapeutic Interventions; Motor Skills Disorders; Activities of Daily Living.

RESUMO | Classicamente, no Brasil, crianças com disfunções neurológicas severas vêm se submetendo a métodos de intervenção focados na melhora do desenvolvimento global em ambientes clínicos controlados. A abordagem do programa MOVE® traz ganhos significativos às habilidades da criança em seus diversos ambientes (casa, escola e comunidade). O Programa Mobility Opportunities Via Education (MOVE®) é uma abordagem de avaliação e tratamento funcional para crianças com disfunções severas. O objetivo deste estudo foi compreender a percepção dos professores e monitores referente à utilização da abordagem do MOVE® em uma escola de educação especial na cidade de Paulínia (SP). Esta pesquisa é resultado de um estudo de caso qualitativo realizado por meio de entrevistas semiestruturadas e análise categorial dos dados. Com a aplicação do MOVE® na escola, os profissionais começaram a ter uma visão mais humanitária ao lidar com os pacientes. Enfatizou-se a importância da promoção do aprendizado motor em ambientes naturais, maior motivação nas crianças e melhora do desenvolvimento motor destas. O MOVE® mostrou-se eficaz na percepção dos profissionais, favorecendo maior motivação das crianças e uma abordagem mais humanitária com crianças portadoras de disfunções motoras.

Descritores | Avaliação de Resultado de Intervenções Terapêuticas; Transtornos das Habilidades Motoras; Atividades Cotidianas.

RESUMEN | Clásicamente, en Brasil, niños con disfunciones neurológicas graves vienen someténdose a métodos de intervención orientados a mejorar el desarrollo general en entornos clínicos controlados. Se cuestiona, sin embargo, si el tratamiento clínico de forma aislada aporta beneficios significativos a las habilidades del niño en sus diferentes ambientes (hogar, escuela y comunidad). El Programa Mobility Opportunities Via Education traz beneficios significativos a las habilidades del niño en sus diferentes ambientes (hogar, escuela y comunidad). El Programa Mobility Opportunities Via Education.
INTRODUCTION

Due to new concepts concerning the role of the nervous system (NS), the current rehabilitation aims at global motor control, disciplinary actions focusing on the functionality and the use of therapeutic targets focused on the patient and their family1-3.

Based on the concepts of rehabilitation related to functionality, there was the development of methods and techniques of treatment for patients with neurological impairment; consequently, there was an enrichment of the programs related to the practice of physical therapy. Currently, it is known that functional rehabilitation, as long as it is focused on goals and daily activities, causes the motor learning to occur in a more permanent way4. The therapeutic context should, therefore, emphasize functions and activities necessary in everyday life (such as eating, climbing onto the bus, going to the bathroom, getting from one place to another, among others), using them as opportunities for motor learning5.

The Mobility Opportunities Via Education (MOVE®) program is one of the tools for learning functional motor, consisting of a program of motor skills which emphasizes the learning in everyday life, especially at school, to getting really significant results for the child5,6.

This program is focused on the evaluation and treatment of children with severe neurological impairment, defined as those which present severe physical changes, as they may also display intellectual, social or emotional disorders, among which are those with neurological impairment. The focus of the program are children who cannot sit down without support, who do not remain standing up without support and who do not walk without support5,6.

The MOVE® began in 1986 through a pilot study with 15 students from a special education room at Blair Learning Center, California (USA), gaining recognition since then and having held its first publication by Linda Bidabe, in 19905,6.

The MOVE® is still little known in Brazil, however, it is an innovative and internationally well-respected proposal, having its efficiency increasingly proven, and it is commonly used in both special education and regular schools7,8.

For the MOVE® to be implemented in schools, it is necessary for the team to be coached by a professional organization recognized by the MOVE INTERNATIONAL® (with headquarters located in Bakersfield, California), which is responsible for certifying and empowering people in the program, both nationally and internationally.

The main objective of the study was to understand the perceptions of professionals regarding the use of the MOVE approach within the school context.

METHODOLOGY

This research is a qualitative case study approach. The qualitative research in Medicine and Public Health aims at a deep and not generalized analysis9. Qualitative case studies aimed at discovering, causing the researcher not to stick only to assumptions, but also to new elements during the study10.

In order to collect data, the semi-structured interview was used, which is headed by a script with some issues of concern which the researcher explores in his questions11. In this type of interview, the interviewer presents topics that the interviewee should develop, with the possibility of, spontaneously, explaining an idea or an experience and its meaning10,12.

Furthermore, the use of this type of interview is emphasized in studies focused on the perceptions, attitudes and motivations of individuals in relation to some specific matter, since they contribute to the development of affective and evaluative aspects of the interviewees13.
In a phase prior to the interviews, a pilot study was conducted. The pilot study consists of previous interviews which allow the monitoring of the structure and the clarity of the script before applying the interviews to the subjects of the research.\(^\text{14}\)

**Research location site**

The research was conducted in a special education school in the city of Paulinia (SP) attended by children with severe neurological impairment, with academic and therapeutic care. The institution also has monitors who perform the function of changing diapers, clothes, feeding, positioning and looking after the well-being of the children during the period they are in school. The vast majority of children attend school from 8 a.m. to 4 p.m., and usually students stay part-time in the classroom and in the other period in therapy or under the care of the monitors.

**Selection of the participants**

The researcher was the first Brazilian to receive training on the MOVE\(^\text{®}\) program in the U.S.A, in 2006 and 2008, with the professionals Stacie Whinnery and Keith Whinnery, through MOVE INTERNATIONAL\(^\text{®}\), and received the certificates of MOVE Basic Provider, in 2006, andMOVE International Trainer, in 2008. Currently, she is enabled by the MOVE INTERNATIONAL\(^\text{®}\) to internationally certify and train people in the program.

In 2008, the researcher trained the school professionals based on the ideology of MOVE and worked weekly with the pedagogues and monitors in the classroom, in order to apply the philosophy used in the method, in a project which was called School Physical Therapy.

**Inclusion criteria**

Pedagogues and monitors who attended the training and were involved with the School Physical Therapy Project which uses the MOVE\(^\text{®}\) approach in the school of special education between the years 2008 and 2009.

**Exclusion criteria**

Professionals who, for whatever reason, were not linked to the chosen school during the period of the study, were excluded from the study.

**Instruments and procedures for data collection and analysis**

The study was conducted after the approval by the Ethics Committee of the School of Medical Sciences of the Universidade Estadual de Campinas (No. 441/2009). The Informed Consent was signed by the responsible in charge of the institution and by the professionals involved and the data collection was carried out in the last semester of 2009. Authorizations for the disclosure of image were requested to the responsible for the school's students and to the subjects involved.

The training on the MOVE\(^\text{®}\) conducted by the researcher in the school counted on the participation of 6 pedagogues and 12 monitors, forming the initial research universe of 18 subjects. One teacher did not participate on the research for no longer being connected to the school during the period of the study. The study sample consists of 17 subjects, with 2 pilot interviews (one monitor and one pedagogue) and 15 semi-structured interviews (11 monitors and 4 pedagogues) performed. After conducting the pilot interviews the necessary adjustments to the script were made and the 15 interviews were later transcribed and subjected to a process of categorical content analysis.

The categorical content analysis consists on the dismemberment of the speech into categories, in which the selection and boundaries criteria are guided by the size of the research issues related to the research object, identified in the speech of the studied subjects.\(^\text{15}\)

After a thorough reading of the interviews, the selected categories were:

- Professionals’ perception of the humanitarian aspects of health;
- Professionals’ perception of daily life and social interaction;
- Contributions perceived through the application of the MOVE\(^\text{®}\).

**RESULTS AND DISCUSSION**

**Category 1: professionals’ perception of the humanitarian aspects of health**

At the start of the use of MOVE\(^\text{®}\) in the U.S.A., the first positive results emerged from a different perspective of the professionals involved with children with neurological impairments, when therapists and teachers...
began to better meet the children, working with them in a more active way and began to associate the learning and teaching of motor skills.

The MOVE® presents a philosophy based on the humanitarian aspects, focusing on the needs of each child, and it believes that children with severe disorders have complex needs, making it essential that they start being fully seen as people with unique characteristics and personalities.

It is extremely important that humanization in health is re-signified, as the concern about the integrality, the needs of each individual, the quality of care and quality of life of patients promotes qualified service and the user’s satisfaction. It is, therefore, critical that professionals recognize not only the disease, but that they are able to take care of a person as a whole.

The MOVE aims to get everyone involved with children with severe impairment to have greater insight into their needs and to know how to deal with them best in everyday.

Some reports have shown that with the application of MOVE® in the school in Paulínia, the professionals realized the importance of understanding the children they work with, considering positive the fact of being more enlightened and of knowing how to deal best with them (Table 1).

### Category 2: professionals’ perception of daily life and social interaction

The limitations of children with neurological impairment may be observed in everyday life, as they cause significant problems in functionality, overall limitation in activities and in their opportunities to act in both physical and social environment, due to restrictions in participation.

Since such limitations may include everyday tasks such as walking, running and climbing up stairs, a focused therapeutic approach in the adaptation of both the task and the environment becomes feasible, for emphasizing functionality in the environmental context of the child.

It is also believed that children learn best in environments and natural contexts, because these provide that they use their motor skills throughout the day in a functional way. Being a significant part of everyday life of the child, the school context is then considered to be one of the most important sites for the therapeutic action.

Taking these factors into consideration, the MOVE® aims at formulating goals associated with the individual’s participation in school and promoting meaningful activities to the child, which can easily be adapted according to the characteristics of each individual, causing them to train their motor skills at school and at home in most of the activities, with people who live with them on a daily basis.

In the reports of the interviews it was noticeable that, after going through the MOVE® training, professionals began to give importance to the stimulation of the learning of motor skills in daily life and during routine activities (Table 2).

### Category 3: perceived contributions by applying the move

The MOVE® believes that motivation and repetition are key factors for motor learning. The inability of practicing

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### Table 1. Humanitarian aspects of health

<table>
<thead>
<tr>
<th>Subcategories</th>
<th>Registry entries</th>
<th>Context entries</th>
</tr>
</thead>
<tbody>
<tr>
<td>To understand the children being worked with</td>
<td>Dealing</td>
<td>“Oh, it changed that then we learned more on how to deal with the children, right? How to deal and how it is, oh, to take care too, right? It changed a lot.” - Interview 3</td>
</tr>
<tr>
<td>Full view of the human being</td>
<td>Whole</td>
<td>“But it changed a lot, she did it, as, one thing. We work with the child as a whole, right? Arms, legs, smile, you know, then, it brought a lot of really good stuff” - Interview 9</td>
</tr>
<tr>
<td>Worry with the quality of life of the patients</td>
<td>Life</td>
<td>“A better quality of life for the children and we learn much more as a professional” - Interview 9</td>
</tr>
</tbody>
</table>

### Table 2. Everyday routine and social interaction

<table>
<thead>
<tr>
<th>Subcategories</th>
<th>Registry entries</th>
<th>Context entries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Importance of stimulating motor skills on daily basis</td>
<td>Stimulation</td>
<td>“...and today you see that with a pencil you can stimulate a child, you, a paint, that’s it right? A hug, shaking hand, stimulating the child to see you, right? And to see what happens around them” - Interview 14</td>
</tr>
<tr>
<td>Importance of motor learning within the different everyday environments</td>
<td>Environment</td>
<td>“To think they have to stay only on their chair, no, to provide other spaces, other environments that we didn’t have this perception before and that was transmitted, I believe, through the MOVE.” - Interview 1</td>
</tr>
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</table>
motor skills without help may impair learning, because, in addition to demotivating the child, it may cause them not to have possibilities to use their skills frequently nor to explore the environment around them. One of the main advantages of such protocol is that it provides motivation for students, by enabling the practice of motor tasks to be part of the child’s daily life routine\textsuperscript{5,6}.

It is known that the patient’s motivation is crucial in the rehabilitation process and that it is directly related to the success of the treatment, being vital that therapists consider the motivation of patients because, when patients are motivated, the participation in treatment and the acceptance of what is being proposed is greater\textsuperscript{5,26}. Moreover, the motivation is considered a key factor during therapy, since the child’s will directs them towards using their full potential of motion, exploring their environment and becoming informed about their own body\textsuperscript{27}.

From the analysis of the reports of the interview, it became very clear that one of the best contributions that professionals noticed after application of the MOVE\textsuperscript{®} in the institution was that children have come to like their pedagogical and motor activities better and felt more motivated to participate in classes. Furthermore, it was possible to perceive that the professionals have observed improvement in motor skills of the children after the start of the use of the MOVE\textsuperscript{®} (Table 3).

**CONCLUSION**

Through this research it was possible to understand the opinion of the professionals involved regarding the use of the MOVE\textsuperscript{®} approach in the institution and to check which contributions were perceived by them as to the acquisition of functional motor skills by the students after using this approach.

It could be observed that the application of the MOVE\textsuperscript{®} in the institution has brought many gains relating to a more humanitarian view by the professionals, dedicated to the students’ quality of life and to a full vision of the human being.

With the implementation of the MOVE\textsuperscript{®} in the school, professionals began to worry to stimulate motor learning in daily life and started to notice gains in motor skills of the children as well as greater motivation by these pedagogic and motor activities.

It is not ruled out that it is essential to carry out further studies which assist in this adaptation and promote the effectiveness and efficiency of the program in the search for greater functionality and quality of life for children with severe impairment.

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