Vaccination in everyday life: experiences indicate Permanent Education

A vacinação no cotidiano: vivências indicam a Educação Permanente

La vacunación en el cotidiano: vivencias indican la Educación Permanente

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ABSTRACT

Objective: To understand Permanent Education in the daily work in the vaccination room, from the professional's perspective.

Method: A holistic-qualitative multiple-case study, based on the Quotidian Comprehensive Sociology, and carried out in four micro-regions of Minas Gerais State, Brazil, with 56 professionals working in seven municipalities. To analyze the data, the Thematic Content Analysis was used associated to the cases' cross-synthesis.

Results: The frequent changes in immunization, adverse events, professional accountability, as well as the daily difficulties of working in the vaccination room point to the need for Permanent Education. There is a need for doctors and community health agents to be trained in immunization, just as nurses are previously trained. The importance of Permanent Education for safe work and patient safety in vaccination is evidenced.

Conclusion and implications for practice: Considering the relevance and complexity of work in the vaccination room, Permanent Education has the potential to strengthen teamwork, positively impact the care provided to users and provide professionals with more security in the practices carried out.

Keywords: Education Continuing; Vaccination; Immunization; Nursing Team; Nurses.

RESUMO

Objetivo: Compreender a Educação Permanente no cotidiano de trabalho em sala de vacinação, sob a ótica do profissional.

Método: Estudo de casos múltiplos holístico-qualitativo, fundamentado na Sociologia Compreensiva e do Cotidiano, e realizado em quatro microrregiões de Minas Gerais, Brasil, com 56 profissionais que atuam em sete municípios. Para análise dos dados, utilizou-se a Análise de Conteúdo Temática associada à síntese cruzada dos casos.

Resultados: As frequentes alterações em imunização, os eventos adversos, a responsabilização profissional, bem como as dificuldades cotidianas do trabalho em sala de vacinação apontam a precisão de Educação Permanente. Verifica-se a necessidade de médicos e Agentes Comunitários de Saúde serem capacitados em imunização, assim como os profissionais de Enfermagem estarem previamente treinados. Evidenciaram-se a importância da Educação Permanente para o trabalho seguro e a segurança do paciente em vacinação.

Conclusão e implicações para a prática: Considerando a relevância e a complexidade do trabalho em sala de vacinação, a Educação Permanente tem potencial para fortalecer o trabalho em equipe, impactar positivamente no cuidado prestado aos usuários e proporcionar ao profissional mais segurança nas práticas realizadas.

Palavras-chave: Educação Permanente; Vacinação; Imunização; Equipe de Enfermagem; Enfermeiros.

RESUMEN

Objetivo: Comprender la Educación Permanente en el cotidiano de trabajo en sala de vacunación, bajo óptica del profesional.

Método: Método de estudio de casos múltiples, cualitativo, fundamentado en la Sociología Compreensiva y del Cotidiano, realizado en cuatro microregiones de Minas Gerais, Brasil, con 56 profesionales que actúan en siete municipios. Para analizar los datos, se utilizó el Análisis de Contenido Temático asociado a la síntesis cruzada de los casos.

Resultados: Frecuentes alteraciones en inmunización, los eventos adversos, la responsabilización profesional, así como las dificultades cotidianas del trabajo en sala de vacunación, apuntan a la precisión de Educación Permanente. Existe la necesidad de que los médicos y los Agentes de Salud Comunitarios estén capacitados en inmunización, al igual que las enfermeras han recibido capacitación previamente. Evidencian la importancia de la educación permanente para el trabajo seguro y la seguridad del paciente en vacunación.

Conclusión e implicaciones para la práctica: Considerando la relevancia y la complejidad del trabajo en sala de vacunación, la Educación Permanente tiene potencial para fortalecer el trabajo en equipo, impactar positivamente en el cuidado prestado a los usuarios y proporcionar al profesional más seguridad en las prácticas realizadas.

Palabras clave: Educación Continua; Vacunación; Inmunización; Grupo de Enfermería; Enfermeros.
INTRODUCTION

This article introduces propositions and/or experiences that allow us to talk about vaccination, addressing the changes that occur in the National Immunization Program (NIP), for the eradication of immunopreventable diseases, the difficulties faced in the daily routine of the vaccination room and the responsibility of nurses and nursing staff in immunization in Brazil. It comes to sharpen the idea that one must see far enough in the past to be able to see ahead in the future10-15 to allow us to address the advances in immunization over the last decades, since the creation of the Brazilian NIP in 1973.2 It opens a discussion about the daily life in the vaccination room, with a view to the need for Permanent Education (PE) for professionals working in this area.3-6

The changes that occur in immunization are presented by the technical notes and national immunization calendars instituted by the NIP incorporating new immunobiological agents, changing vaccine schemes and also the target audience. The first Brazilian vaccination calendar was implemented in the 1970s, in the 20th century, and presented four immunobiological tests, targeting children from zero to four years.7-8 NIP, in 2019, provides 28 vaccines allocated in specific vaccination calendars for children, adolescents, adults, the elderly, pregnant women and the indigenous population. It also has special immunobiological agents for individuals under special clinical conditions. It also has different vaccination strategies, including routine vaccination, blocking, campaigns and also actions considered extramural.9 Therefore, it is an important public health strategy, but complex and filled with difficulties related to the knowledge of professionals working in vaccination rooms.

In the United Kingdom, a study analyzed the doubts of the professionals consulted in an immunobiological counseling center. The main questions of the professionals were about the intervals, administration, contraindication and errors of vaccination, and the doubts consulted increased when there were changes in the immunobiological ones, as when a new vaccine was introduced.12

Thus, it is a necessary challenge to introduce PE to professionals who work in the vaccination room, since changes in immunization are frequent.12-15 It is also considered the innovation and the technological improvement, as well as the daily situations of the work in health and the particularities that come from the work in team that demand a permanent process of education of the professionals,10 Including those who work in the vaccination room. A strategy for coping with the problems and difficulties experienced in the daily work in the vaccination room and promoting knowledge is to incorporate PE.14-15,6,17-19

In keeping with the concept adopted by the Brazilian Ministry of Health, through the Política Nacional de Educação Permanente em Saúde (Continuing Education in Health Policy), PE can be understood as learning-work and that carries in its theoretical bases pedagogical strategies that use meaningful learning, with a view to achieve the transformation of professional practices. PE comes from the problems faced in the reality, considering the knowledge and the experiences that people already have, as well as the health needs of the populations.20

Strengthening PE as a guideline for new practices that guide reflection on work and the construction of collaborative and meaningful learning processes is, therefore, to strengthen the SUS (Sistema Único de Saúde - Brazilian Unified Health System) to offer collective actions with health professionals in permanent training facing the main challenges identified by the teams in everyday work.21

As implications for practice, PE is a field that lacks investments in Brazil. It cannot be seen only as a tool to organize the health system or strategy to reshape the work process, with the performance of specific educational courses or actions, restricted to formal moments instituted. It should be understood as a device to mediate changes, allowing the subjects a process of self-analysis at work, in addition to and through work as a possibility of growth to deal with the world.22,7 Even without being seen, this movement of PE is happening as practice and with its effects. This process is constitutive of the world of work itself and occurs without needing to be denominated as a training process, to be, in fact, a place of training.23

The responsibility of the professional who works in the vaccination room also indicates the need to incorporate PE into daily work. By demanding safe actions, ensuring the quality of the immunobiological products offered and quality care, PE in the vaccination room must be intrinsic to the work routine.6,24

Considering the changes that occur in the NIP, the complexity and difficulties of daily work in the vaccination room, the responsibility of the professionals who work there and the need for ongoing training, are questioned: how does PE occur in the daily work of professionals or are they responsible for the vaccination rooms?

Therefore, this study aims to understand PE in the daily work in the vaccination room, from the professional's perspective.

METHOD

This is a holistic-qualitative multiple-case study25 based on the Quotidian Comprehensive Sociology.26 The holistic multiple-case study seeks to comprehend a contemporary phenomenon in a broad, deep and exhaustive way in its real context.25 Considering that PE in the vaccination room is indicated in the context of daily practices, it is opportune to use the Quotidian Comprehensive Sociology theoretical framework on the object of study, since it aims to analyze what concerns daily life, the lived experiences, beliefs, and actions of subjects in their environments of relations.26
The study setting was the Extended Western Region of Minas Gerais State, which has territorial division in six health micro-regions. The multiple cases of this study were defined by the setting, constituting four of these micro-regions determined by the saturation criteria of the data by literal replication. When saturation was confirmed, data collection was closed.

The number of cases considered necessary or sufficient in multiple-case studies should take into account a discretionary judgment and not follow formulas. Thus, the designation of the number of replications in multiple-case studies depends on the "certainty that is desired to be obtained on the results and meanings that bring the researched reality." In this study, this level was affirmed with data collection in the fourth micro-region, conferring 66.67% of the total of the six micro-regions that compose the Extended Western Region of Minas Gerais, confirmed by data saturation by literal replication.

56 professionals from 26 PHC units from seven municipalities of the four micro-regions participated, including 09 nursing assistants, 17 nursing technicians, 23 nurses and 07 technical references in immunization, of which only two are males. The mean age is 37.6 years, ranging from 22 years to 58 years. The mean time of operation in the vaccination room was 8.9 years, ranging from two weeks to 31 years.

This article addresses the various reasons that point out the necessity of PE in the daily work of the professionals who work in the vaccination room.

Changes in the vaccine calendar and the need for PE

Because we know that health, the issue of vaccine mainly changes every day. So, for people not to be outdated, not to do wrong, should have PE (I1-2).

Vaccine has many changes so it has to have frequent PE (I1-12).

PE is very important, especially in vaccination, because it is always in constant change, as the shelf-life after open or even the vaccine itself (I3-43).

Adverse events and the demand for PE

I think any kind of adverse event that happens, or some failure that happens in another unit would be important to be communicating to take precautions and not happen here too (I1-1).

One thing missing is talking about adverse events and expected effect of the vaccine. [...] I think there is this confusion of parents and it is not very clear either. As far as what a local edema, is it expected effect, how far does it become an adverse event? (I1-5).

Difficulties faced in daily life and the need for PE in the vaccination room

The flow of professionals, the turnover and the precariousness of the hiring process are very detrimental, not only in the vaccination room, in the health unit, but in the link...
with the user. We have in the municipality the reality of a very large turnover of professionals. So we do the training, do a training cycle, finish that training cycle and already have new professionals (I1-15).

One problem is that we have doubts about vaccination and often the person responsible for the vaccines cannot clarify them to me (I2-19).

Because the basic calendar, it is easy [...] The problem is when a child’s card arrives that is all late (I3-41).

Training and education of professionals for immunization

Because, at the moment, PE is only relied upon when it has insertion of vaccine in the calendar, when it will have some campaign or some change (I1-8).

Sometimes, it falls into the routine and we begin to do what is wrong by custom of practicing that way. So PE is good because of that, we review what we do and assess whether we are doing it right or not (I4-50).

We feel a bit of difficulty in the matter of people who are hired, sometimes they have never worked in the vaccination room. So, having training before, or if not, when it comes to recruitment and selection is a requirement, to know if the person has had experience (I1-7).

I believe so, that when the person will start work in FHS, in the vaccination room, had to undergo more rigorous training, you know? [...] Because many people start and do not understand, do not know the right, they have difficulty with techniques (I2-28).

Team decision-making of PE needs

Participants report that they discuss, in a team, the needs that must be addressed in the training and education carried out:

Here we hold team meetings [...] so we always argue with the whole team, before leaving for our training (I1-1).

We are always seeing what is lacking in training. [...] We sit down with the nurses on the FHS teams and they talk about what they feel on a day-to-day basis, and report difficulties with the staff, they say, but they do not take it well (I3-36).

Responsibility of the professional involved in vaccination

I work with vaccine from the knowledge that I have and my responsibility as well. I try to do the most correct thing possible, because I know it’s a lot of responsibility, I’m going to manage, right? (I1-6)

Lack of(knowledge) of the professional about immunization

There is a lot of information from the doctor about the vaccine. And we see, mainly, the mothers who have children who go to the pediatrician and arrive here with erroneous information about calendar, about the vaccine itself (I1-5).

I think it takes a longer time to enable CHAs for immunization [...] Because, in fact, the CHA is the flagship of the FHS in whatever action you develop, because it is inserted inside that house, it goes there every month. It is a long time to dedicate to training the CHA to assess the vaccine card, not only to ask if it is up to date and to look superficially, but also to analyze that card and to be actively searching for the child, elderly, teenager (I3-41).

PE for safe operation in vaccination room

It is very important to have this PE, because if you do not get the habit you do not get the safety because it’s the first thing to feel safe (I1-8).

If you empower, if you learn, seek knowledge, you will take care of the patient more safely. If you train your team too, you do a more appropriate procedure, lessen the discomfort, reactions, especially in the vaccination room (I4-49).

I think the state should value this issue of PE more. As it is mandatory to register the grievances in SINAN (Sistema de Informação de Agravos de Notificação - Notification of Injury Information System), I think it should be mandatory for all regional, macro-regions, to have commissions for PE. From the CHA to the doctor, this is essential to be able to make public health well done. Without this, you cannot (I4-55).

DISCUSSION

PE in the vaccination room, in the conceptions of the participants of this study, converges towards the “training” or “updates” that occurred in the face of changes in routine immunization. However, as highlighted in the informants’ speeches, the updates available to professionals working in the vaccination room are predominantly developed when there are changes in vaccination calendar, schemes or introduction of new vaccines in the public health network, or in periods of vaccination campaigns. That is, it is not based on the needs and
problems identified in the daily work in vaccination rooms, going against what is proposed by PNEPS. However, considering the results described and the relevance of the topic and the reflections raised, the discussion links facts of the researched reality to the assumptions of PE and the evidence found in different national and international realities, bringing contributions to the practice in the vaccination room.

A study conducted in the city of Teresina, Piauí State identified the lack of training of human resources that work with immunobiological agents. The results showed that less than half (43%) of vaccination rooms had at least one trained professional less than two years old. 29

The absence of PE is a reality that compromises the change in vaccination practices. A study conducted in the Extended Western Region of Minas Gerais also corroborates these findings. The absence of PE is a reality that compromises the change in vaccination practices. A study conducted in the Extended Western Region of Minas Gerais also corroborates these findings. 6

PE, in line with the one described in the PNEPS, should be guided by problematizing, dialogued and participatory methodologies, in which the professional is actively present in the teaching-learning process, with a view to improving their practices, as well as the continuous improvement. 28 By actively appearing as a professional in a vaccine ward, “there is not only a production of new knowledge built collectively, but also a new training processes, without formally designating this as a place of training or qualification of the employee for the exercise of their functions”. 23:09

Errors are pointed out as a tool for education about vaccination. Errors in professional practices reveal the importance of implementing strategies to increase patient safety and improve quality of care. Such errors can still be an important learning strategy in order to avoid recurrence. 30

Vaccines are susceptible to Adverse Events Following Immunization (AEFI), and adequate management of these events requires adequate knowledge of the professionals who deal daily in vaccination rooms. However, knowledge about AEFI is still deficient, with the important SP being allied to alleviating such deficiencies. 24

In Kenya, a study with nurses identified that 51.8% of the participants had not undergone training on AEFI. When assessing the knowledge of these professionals about the subject, only 29.2% presented adequate knowledge. They also identified that nurses who have undergone some training on AEFI are 2.7 times more likely to have better knowledge about the subject and 1.8 times more likely to have better AEFI practices. They also add the need to develop educational strategies on the subject. 31

The constant changes that occur in immunobiological agents also reveal the need for PE, as highlighted by the participants of this study.

Knowledge about immunobiological agents is constantly being updated, due to the advances that occur in the area and the constant changes that occur in the NIP. In addition to advances in the field of immunization, there are the particularities of each immunobiological and the overload of work that require PE to professionals working in a vaccination room. 6, 28

The beginning of the work in the vaccination room requires a previous knowledge about the immunobiological agents, either by means of knowledge already acquired or by the accomplishment of qualification of the professional, however not always this process of training. Professionals are predominantly entered into vaccination rooms without prior training and learn about day-to-day vaccinations with other professionals. 6 For Maffesoli, there is the incorporated knowledge, in which the individual is perfecting himself with what is before him, “this famous ‘stock of knowledge’ that we use without paying much attention”. 32:150 He also adds that in the individual “there is a strange drive, […] instinct, that compels me to do as the other”. 32:150

When professionals are actively inserted into the educational process and when learning becomes meaningful to professionals, PE results in a transformation of practices and, consequently, a change in daily work. Thus, “the activity that is intended to become a practice with PE is not a new habit, which simply repeats itself, but rather, another way of thinking or acting”. 33:04

The responsibility of the professional who works in the vaccination room is also mentioned by the participants of this study as an important aspect that the PE demands, since an immunobiological administered improperly can compromise the health of the individual. The significant amount of inadequate procedures in immunobiological administration (nine procedures per 1,000 doses administered) was identified in a study conducted in the city of Ribeirão Preto, São Paulo State, which demonstrated the need to incorporate PE into the daily work of the professionals who work in the room of vaccine, in order to ensure the improvement of the care provided. 34

A study conducted in the Republic of Korea has identified an annual average of 278 cases of AEFI. 35 These data corroborate the responsibility of the professionals who deal daily with the administration of the immunobiological agents, since errors of conservation, handling and application of the immunobiological can result in AEFI.

The need to develop educational strategies on immunization was evidenced not only for the professionals who are dealing directly with the immunobiological, but with the whole PHC team, especially the medical professionals and the CHA. Shortcomings in doctors’ knowledge regarding vaccination demonstrate the need to develop educational activities on immunization for these professionals. 36 However, PE actions are still incipient. In addition, all members of the health team should be able to provide information on vaccination, and the user’s contact with any member of the team is a stimulus to vaccination for such professionals. 14 The professional’s knowledge and the way they establish dialogue with the user may interfere with the vaccination. In this way, the professional must be educated through a critical and reflective view that can be provided by the PE. 14
CHA has a fundamental role in the active search for immunization, to enter the homes, to have knowledge of the reality and to have a bond with the families and community. However, there are still incipient PE vaccination actions for these professionals. A study conducted in Teresina-PI identified that of the 106 CHAs that participated in the research, only 43.4% received training on vaccination. Concerning the knowledge of these professionals about vaccination, only 18.9% of the participants had adequate knowledge. Such information reveals the deficits in both the training and the knowledge of these professionals on the subject of vaccination, as well as the need to implant the vaccination PE for CHA.

The turnover of health professionals, among them, those who work in the vaccination room, requires the incorporation of a permanent strategy to update professionals’ knowledge, that is, PE. This turnover of PHC professionals “demands a greater burden with the preparation and qualification of the professionals and, mainly, it compromises the continuity and the longitudinality of the assistance provided to the population”. Such information reveals the deficits in both the training and the knowledge of these professionals on the subject of vaccination, as well as the need to implant the vaccination PE for CHA.

The training of the professional who works in the vaccination room, as well as the time of experience with the work in immunization are aspects that can impact on patient safety. It should then be incorporated into the daily work of professionals who deal with the vaccination permanent updates, in order to minimize damages to the health of the user and increase the safety of the individual when he searches the vaccination room.

PE has the potential to strengthen teamwork and positively impact the care provided to users. In addition, it has an essential potential for professional. However, for PE to achieve such achievements, it is necessary that it be developed continuously, as well as to have methodologies that allow the reflection of daily practice. In this way, the importance of incorporating the EP to the work routine in the vaccination room is verified, because with its transformative potential of daily work, it allows the appropriate professionals to practice immunization, acquisition of skills, technical knowledge and, mainly, provides the professional with more security in the practices carried out.

CONCLUSION AND IMPLICATIONS FOR PRACTICE

Vaccine work requires the professional to have the technical skills and up-to-date knowledge to meet the immunization demands.

Frequent changes, adverse events, professional responsibility, the constant search for safety and the quality of the assistance provided in vaccination, as well as the daily obstacles of the work in the vaccination room reveal the need to incorporate PE into professionals. However, it is evident in this study that the educational activities developed for the vaccination professionals are not based on problems that are experienced on a daily basis and do not meet the PNEPS recommendations. The updates, when they occur, are for the transmission of information and not based on problematizing situations, which is not very effective.

Another aspect that deserves attention in this study is the need for knowledge about immunization to be multidisciplinary and not only for the nursing professionals who deal daily in the vaccination room. Thus, the findings of this study have implications for the practice of care and for teaching in Health and Nursing.

This study presents as a limitation the intentional sampling, when selecting the nursing professionals participating in a health region of Minas Gerais. However, based on the information collected, intentional sampling can be considered representative of similar populations and conditions in multiple-case studies with literal replication data saturation.

Considering the relevance of PE in the vaccination room and of this subject in Public Health, it is necessary to carry out other researches in the other Brazilian regions and in other localities.

Finally, it is understood the need to incorporate the PE into vaccination rooms, since it presents potential transforming daily practices, a fundamental aspect to day-to-day work in the vaccination room against the knowledge that presents an accelerated process of transformation.

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