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Risk Behavior for Falls in the Elderly: Experiences of Community Health Workers*

Theme of the article: Promotion and prevention.

Contribution to the discipline: Discuss and describe the factors that constitute risk behaviors for falls, in order to provide knowledge that contributes to planning care interventions by the health care team, developing and improving care, and promoting health in the elderly.

ABSTRACT

Objective: To identify the risk behaviors of the elderly at home, described by community health workers, and related factors. **Materials and methods:** Qualitative research, in the dialectical perspective, carried out through a focus group with community health workers from a family health strategy unit in a municipality of the State of São Paulo, Brazil. Thematic content analysis was used for the study. **Results:** The revealed risk behaviors are related to extrinsic factors (architecture, furniture, and equipment), socioeconomic factors (low income, level of education, deficit of social and a family support), and psychological factors (feeling of vulnerability, dependence and not self-acknowledging in a dangerous condition). **Conclusions:** Falls are the result of a complex interaction between the factors and, the behaviors studied so that adequate identification of these can subsidize individual and collective intervention actions, as well as care management and planning processes aimed at the health of the elderly person.

KEYWORDS (SOURCE: DEC/S/MESH)

Aged; elderly; accidental falls; risk factors; primary health care; health promotion.

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*Comportamiento de riesgo para caídas en adultos mayores: experiencias de los agentes comunitarios en salud**

RESUMEN

Objetivo: identificar los comportamientos de riesgo de los adultos mayores en el domicilio descritos por las agentes comunitarias de salud y sus factores relacionados. **Material y método:** investigación cualitativa, en la perspectiva dialéctica, realizada por medio de un grupo focal con agentes comunitarios de salud de una unidad de estrategia de salud de la familia de un municipio en el Estado de São Paulo, Brasil. Para el análisis, se utilizó el análisis de contenido temático. **Resultados:** los comportamientos de riesgo revelados están relacionados con factores extrínsecos (arquitectura, mobiliario y equipamiento), factores socioeconómicos (bajos ingresos, escolarización, déficit de apoyo social y familiar) y factores psicológicos (sensación de vulnerabilidad, dependencia y no reconocerse en una condición peligrosa). **Conclusiones:** las caídas son el resultado de una compleja interacción entre los factores y los comportamientos estudiados, por lo que una adecuada identificación de estos puede subvencionar acciones de intervención individual y colectiva, así como procesos de gestión y planificación de cuidados dirigidos a la salud de la persona mayor.

PALABRAS CLAVE (FUENTE: DECS/MESH)

Adulto mayor; anciano; accidentes por caídas; factores de riesgo; atención primaria de salud; promoción de la salud.

* Este artículo es derivado de la tesis de maestría "Prevenção de quedas nos idosos: adesão na atenção primária", presentada a la Escuela de Enfermería de Ribeirão Preto, Universidade de São Paulo, disponible en: <https://teses.usp.br/teses/disponiveis/22/22134/tde-30052018-105526/pt-br.php>

*Comportamento de risco e fatores para quedas em idosos: experiências de Agentes Comunitários em Saúde**

RESUMO

Objetivo: identificar os comportamentos de risco dos idosos em domicílio e descrever fatores relacionados. **Material e método:** pesquisa de abordagem qualitativa, realizada por meio de Grupo Focal com Agentes Comunitárias de Saúde de uma unidade de Estratégia de Saúde da Família de um município no interior do Estado de São Paulo, Brasil. Para análise, utilizou-se análise temática de conteúdo. **Resultados:** revelaram comportamentos de risco relacionados a fatores extrínsecos (arquitetônicos, mobiliários e equipamentos), fatores socioeconômicos (baixa renda e escolaridade, déficit suporte social e familiar) e fatores psicológicos (sentir-se vulnerável, dependente e não reconhecer-se em condição de risco). **Conclusão:** as quedas são resultado da complexa interação entre os fatores e comportamentos estudados, portanto uma adequada identificação destes podem subsidiar ações de intervenção individual e coletiva, assim como processos de planejamento de cuidado e gestão voltadas à saúde do idoso.

PALAVRAS-CHAVE (FONTE: DECS/MESH)

Idoso; pessoa idosa; acidentes por quedas; fatores de risco; atenção primária à saúde; promoção da saúde.

* Este artigo é derivado da tese de mestrado "Prevenção de quedas nos idosos: adesão na atenção primária", apresentado ao Escola de Enfermagem de Ribeirão Preto, Universidade de São Paulo, disponível em: <https://teses.usp.br/teses/disponiveis/22/22134/tde-30052018-105526/pt-br.php>

Introduction

Falls have a high impact on the quality of life of elderly people (and, consequently, on various health sectors), due to the forced reduction of their daily functions, hospitalization or institutionalization, as well as their high costs. The significant morbidity and mortality rates demonstrate the need to create public policies and programs for prevention and rehabilitation (1). Therefore, falls are of the utmost importance with regards to the comprehensive care of the elderly, and require the intervention of nursing as the provider of health education and as a fundamental participant of the primary care and provided care management teams (2, 3).

Falls are a multifactorial occurrence, but, as the previous study confirms, few research studies portray the influence of the behavior and risk attitudes of the elderly on falls (4, 5).

Risk behavior encompasses attitudes, tasks or activities, and habits that elderly adopt and execute, even in the face of possible harm, such as falling. Behavioral risk factors are related to human actions, emotions, or everyday choices that can be modified (6). In older people, a judgment is established on risk behaviors, such as their tendency to continue carrying out their day-to-day activities, despite the danger that implies. This, given the difficulty of adapting to their new condition, accompanied by age-related changes and a deficit of sensory and motor performance (7).

Risk behaviors include inappropriate activities, such as walking downstairs carrying a heavy load; unsafe motor movements; fast movements (such as walking, getting up, or changing position at a fast pace) or sudden movements (like turning the head or torso sharply backward); sedentary lifestyle; exposure and activities on slippery or uneven surfaces, and in poorly lit places; bathing without support bars; use of inappropriate shoes (with slippery soles, high heels, open sandals without fastening [such as velcro or a buckle] and thick soles); improper use of mobility aids, such as the walker; use of furniture to fetch objects out of reach, such as stools; walk-in heavy traffic areas; not asking for help; use of alcohol and tobacco, polypharmacy or self-medication (4, 5).

Within the primary care sphere, Community Health Workers (CHW) interact with the elderly of the community on a daily basis. They conduct activities of health promotion and prevention of injuries (individual and collective). The implementation of subventions that support the practice of the CHW to foster their activities with the community can be found in the literature (8).

Therefore, the review addresses risk behavior in the elderly in order to subsidize actions aimed at the prevention of falls. Thus, the objective of the article was to identify the risk behaviors for falls in elderly described by the CHW and its related factors.

Materials and Methods

A qualitative research study was conducted, due to its nature allows to reveal human characteristics that would be arduous with quantitative methodologies. Essentially, they allow us to investigate, explain, analyze and elucidate in an interactive way the human and its relationships, constituted by real structures of im-materi-ality, and abstraction, such as faith, beliefs, values, habits, attitudes and customs (9).

The different paradigmatic currents organize the theoretical foundations according to world view, principles, methodological convictions and, conceptual applications, to explain the procedures in the construction of the investigation and to guide the process of interpretation, in order to explain the qualitative research with rigor and reliability (10).

To aid the observations, explanations, and perceptions from the point of view of the subjects of the universe in which they occur, the dialectical method was used. This is aimed to understand the constitutive relationship between the phenomenon and the whole, based on concrete experience. Objectivity, which through meticulous use of the method allows a closer approach to the object of study, helps to understand the subject-object interaction in a socio-historical context. A deeper understanding can be achieved through discussion guided by critical analysis, comparison with scientific knowledge, and exposure of subjectivities, such as relationships between subjects and culture, personal and material history (i.e., residence, furniture and all those objects that are part of the elderly person's history). In this way, objectivation describes the problem before its determinations and transformations by the social actor (11).

Sometimes, the essence of risk behaviors and falls is not evaluated or identified by the health care team. By evaluating the elements that determine them, we seek to understand, through the subjects involved in their context, the contradictions, the subjective, and the objective of the dialectical method.

The CHW, as social actors, participate in the phenomenon through daily interaction, insertion in places where social dynam-

ics occur (like domestic and community spaces), the bond and trust established with elderly people, and the family (12). That being said, research with workers within the scene of the elderly experiencing the event of the fall, from a healthcare point of view, is indispensable and justified.

This investigation was carried out in a municipality in the State of São Paulo. The health care unit chosen for the study is located in a traditional neighborhood and is recognized for serving a significant proportion of the elderly population. This unit works from the perspective of the *family health care strategy* and relies on a multi-professional team to accompany families.

The focus group (FG) technique was used to collect the data. This method of capturing the interaction between the participants is noted because of the accessibility of execution that it provides, and by the free expression of the experiences of a few participants, through conversations without interference or prejudice from the researcher (13).

The participation of CHW was proposed by the manager of the healthcare unit, by noticing the inclusion criterion of having more than three years of experience in monitoring the elderly in the family health care strategy. The invitation was personally made by the principal investigator, who stressed the total freedom to decide to participate in the study. There were no rejections.

In October 2017, a 90-minute focus group meeting was held with 5 participants, in the meeting hall of the healthcare unit, a space that offered privacy and round table interaction. It was coordinated by a researcher with a doctorate degree with proficiency in the technique and in the field of health care of elderly, supported by one of the previously trained authors.

A script was used, that included guiding questions such as: "Are there many elderly who suffer falls in your area?; How do you identify the risks of falls?; What are your actions in preventing falls in the elderly?; Report the perceived fall risks and how you handled the situation." The semi-structured script allowed the generic questions to be discussed in-depth, while the topic was addressed.

The discussion environment was favored by the previous interaction between the CHW and the ability to express themselves freely in the group. The FG coordinator was persona well-known by the CHWs, since research and health promotion activities had already been carried out in that unit. The discussion group was

closed when the CHW considered that there were no more aspects to add.

The registry was made through a field journal. The process was recorded by the coordinator and assistant with a digital recorder, and the assistant recorded impressions, informal conversations, details about non-verbal communication, and other aspects of the environment in a notebook. Both transcribed the material with the software Microsoft Office Word®.

Participants' speeches were identified by sequence A1, and so on.

The thematic analysis of the content of the focus group was divided into three steps: pre-analysis, material exploration, and interpretation of the results. The *pre-analysis* consisted of a cursory reading of the data in order to familiarize ourselves with it. In the stage of *material exploration*, the units of significance were extracted, synthesized by phrases, and differentiated according to their essential elements. In the *analysis of results*, the units were added according to their similarity and relevance, classified into thematic categories. These were compared and based on current studies, under the references "falls in the elderly", "related factors" and "examples of perceived risk behaviors" (14).

Data was validated through multiple triangulation. External verifications, based on independent evaluations by different suitable people in the area, such as doctors (Ph.D.) in Nursing and in the field of research and knowledge of the qualitative method, reduced the possibility of bias due to erroneous interpretations. Furthermore, the triangulation of the data refers to the same elements found and described by international and national research, in different contexts and conditions of elderly populations, which allowed the generalization of results (15).

The study was approved by the Ethics Committee in Research of the Escola de Enfermagem de Ribeirão Preto of the Universidade de São Paulo, CAAE: 68815317.3.0000.5393. The established norms of the 466/2012 Resolution of the Conselho Nacional de Saúde (Brasil) were observed.

To provide reliability and rigor to the research, this study was based on the guidelines for the critical evaluation of qualitative research (COREQ). All the research and results were carried out following the signature of the *Free and informed consent term* of each of the interviewees.

Results and discussion

The participants provided basic information that allowed a better approach to the subjects and characterization (Table 1).

Table 1. Characterization of the focus group participants

Characteristic	Descriptor	Porcentaje/ variation
Gender	Female	100 %
Age	Years	38-56 years
Occupancy in the unit	Community Worker	100 %
Time in the position	Years	5-17 years
Education	High School Incomplete College	80 % 20 %
Geriatric Training	Training/capability	100 %

Source: table extracted from the master's thesis in which this article is based on, Fonseca (16).

Regarding training in Geriatrics, all the CHW reported having participated in the training provided within the same unit. The courses were on sexuality, falls, vulnerability, and violence, among other topics.

The content analysis allowed relating the discourse of the participants who were grouped by categories of understanding and the approach to the aspects related to falls described in the scientific literature. The three categories, according to risk factors, are extrinsic, socioeconomic, and psychological.

Extrinsic factors

The CHW reported various situations that characterize the behaviors of elderly, as in the following example:

"She is 68 years old, [...] she fell badly tripping on the nightstand, at night, going to the bathroom in the dark [...]. Now she is afraid to walk on the street, [...] she feels imprisoned inside the house". (A3)

In the previous record, the risk behavior (going to the bathroom in the dark), the extrinsic risk factor (nightstand on the way at night) and the consequence of the fall (fear of falling and social isolation), was shown.

The extrinsic risk factors described in the literature are poorly lit environments; loose or pleated rugs; Carpet edges (mainly folded), slippery floors — such as waxed floors — or poorly maintained floors; disorganized environments, low furniture or objects left on the floor, such as shoes, clothing, threads, toys, garbage, and debris, among others; unstable or sliding furniture; tall steps of uneven height or width; stairs with a highly-designed floor, which makes it difficult to see each step; steps without end signaling; the presence of animals, grab bars, chairs, beds, and seats of inadequate height; armless chairs; wearing high-heels, shoes that are untied, poorly adjusted, or with slippery soles; stairs with front lighting (17, 18, 19).

These factors are especially related to the residence; they are predisposing and are the most prevalent. They are present in 30-50 % of the events of falls. Another study shows that 65 % of falls occur at home and in an inappropriate environment (5, 17, 20). The research carried out in Ribeirão Preto, São Paulo, cites that, regarding the places where falls occur, 65 % take place in a home environment, and 15 %, on public places (21). The research carried out in Ribeirão Preto, São Paulo, cites that, regarding the places where falls occur, 65 % take place in a home environment, and 15 %, in public places.

The CHW present risk behaviors in elderly people, such as the use of furniture for activities and the use of inappropriate footwear:

"She climbed onto the bench and went to collect some papers. While she was going up, she tried to hold from the closet, the trunk fell and landed on her". (A2)

"...That flip flop is not good for the lady. Because several times I go there and she wears the same flip flop". (A3)

Many falls occur in the attempt to avoid obstacles, or in places where the environment demands a certain physical ability (22). It is also highlighted that there is a dynamic between environmental conditions and individual behavior. A fall is the result of the complex interaction between the set of intrinsic and extrinsic risk factors involved, but it is not possible to establish the precise influence of each factor. It can only be stated that the risk of falls increases linearly with the number of associated risk factors. Although those of an intrinsic nature often refers to the aging process, intervention on factors that may be related to falls, such as extrinsic, can obtain effective results in reducing the incidence or minimizing the severity of falls (23).

Socioeconomic factors

In this category, the statements of the CHW were grouped in regards to socioeconomic factors: low level of schooling, low income, a deficit in access to social and healthcare services, lack of social interaction and communication, inadequate housing or in rural areas, living alone (24, 25).

The following records present a financial difficulty as a trigger for risky behavior and the lack of adequate environmental conditions:

“He does not leave the light on because he thinks he spends a lot”. (A1)

“Many of us got them to put on the grab bar to help roll over. Some do not get or have no financial means... the issue is highly related to financial circumstances, sometimes from the family”. (A3)

In the general panorama pointed out by the CHW, the lack of social or family support faced by the elderly in the community is quite evident.

“Like most workers, we find many elderly in the area. I have found a considerable number of elderly living alone, and some who have no family support”. (A3)

“There are elderly who ask for help a lot, but they are not able to get it from anywhere”. (A1)

For the elderly, the quality of interpersonal relationships and emotional and psychological difficulties (such as depression or loneliness) are as significant as physical health conditions. The literature points to the correlation between social support and the general state of health of elderly, and the ability to promote or maintain emotionally and functionally their mental and physical state (26). The social support, mainly by the family, is able to provide instrumental support to help with daily activities; evaluation support or help with decision making or problem-solving; support of information such as counseling or particular concerns; and emotional support for the provision of affection, sympathy, understanding, and appreciation (25). Social support also encourages elders to adopt protective attitudes (27, 28).

When analyzing the nature of risky behavior, it is often observed that elders assume such behavior because they perceive themselves facing their social breakdown and are left with no choice to

act. With no alternative, because there is no help available, the elderly perform the task, regardless of the risks.

“He had to fetch something that was across the street. As he crossed, he tripped on the sidewalk and fell”. (A1)

In health care, when analyzing the decision or alternative found by the elderly, their perception of the need to carry out an activity, and its purpose must be assessed. Gardening, for example, can be considered essential for the older, while for health professionals it can be optional (29). It is highlighted, with this answer, that the dialogue on the activities carried out by the elder must be evaluated by the health team.

Psychological factors

Here are included the reasons or justifications for the assumption of risk and some elements related to the perception by the CHW on how the elderly wants to be regarded:

“I think the elderly does not want to be seen as incapable. Even knowing his limitations, he does not want to show... that he... is not capable. ‘I do not want anyone to do anything for me, I still want to do it myself’”. (A5)

Risk behavior reflects that elderly do not see the fall as relevant in order to avoid feeling vulnerable. For this reason, when doing tasks or activities, they do not take the necessary precautionary measures for fear of being labeled old or fragile. A clear example is their concern about what people think of their appearance in public and this, consequently, makes them want to walk without using the required attachments, even though this represents a risk. Any restriction of daily activities brings feelings of frustration and loss and decreased independence. For these reasons, many elders become anxious and reluctant when conversations or discussions about falls take place. The inclination to test their own physical limits is common among elders; they resist acknowledging their limitations and understanding the changes in their bodies. Many elders do not realize their own risk levels for falling (24, 28, 30).

“So, they worry a lot about what people will say, what others will think...”. (A1)

“But she did not calm down [...], she went alone to pick up the base bed to take it to the room [...]. The bed fell on top of her. She was hospitalized for a few days because of that”. (A5)

There are many precautions that elders can take to avoid falls, without requiring significant adjustments in their behavior or in the home environment. Daily activities often require balancing the risk of falling and the ability to avoid falling. Thus, there must be a balance between risky behavior and prevention, which is difficult for many elders (22, 31).

Another situation commonly heard in the daily operation of health professionals is the difficulty of elders to ask for help from others, due to the feeling of dependence or discomfort with the presence of others.

"And one thing I hear elderly say: 'I do not want to give work [or be a burden] to anyone' [to be looked after by someone]". (A1)

"It is like they... the daughter comes every day, and she feels like she is a burden on the daughter. And then, she cries". (A4)

The feeling of being a burden on the family comes from changes in the traditional compositions and attributes of relationships and family duties, which influence the care offered to elders and their willingness to commit to their self-care (25).

Many elders are not aware of the consequences or the danger that their risk behaviors involve (24, 32).

"The body does no longer work the same... they believe that it still gives... that it has no limitations. Then, they get up suddenly at once and get dizzy". (A4)

"And on one of those visits, they talked and started speaking about the risk of carpets. [...] Thereafter, on other visits, I observed that there were no more". (A4)

Sometimes risky behavior is part of the process of rehabilitation and adaptation to the state of independence or clarification of the real limitations of the elder (29).

The described and analyzed discourses show that the behavioral risks of the elderly can be characterized as a deficiency in their self-care, ignorance of environmental risks and their limitations, or lack of support and social interaction. They also show how falls affect the sense of identity of those who suffer them, to which is added the derogatory prejudice about advanced age. Thus, acceptance of risk passes through fear of vulnerability, loss of independence, and finitude of life (31, 33).

The presented factors allow us to understand that they are preventable, such as risk behavior. The focus of the care and resource model should focus on early intersectoral rehabilitation interventions, on the reduction of damage caused by comorbidities, on the style and quality of life of elderly people and on their functional capacity. In addition, from the perspective of the CHW, the elements that cross psychosocial aspects, which are found in everyday life, have a considerable impact on the genesis of falls. In other words, for the CHW, the factors described that comprise the risk behaviors are key points for the prevention of falls because they are part of the daily experience of the elderly (3, 34).

Using their main instrument of work —home visits—, the CHW can expand their observation, provide information, interpret and reflect on vulnerabilities, absences, and family and social dynamics, that would not be possible to verify superficially through biomedical consultations (12). This is the core of the role of the CHW, in which they contribute to the promotion of health by identifying the determinants that act on the incidence of falls, the health-disease process, the restructuring of care, and the reorientation of multi-professional work (35).

About falls, the CHW must help to raise awareness among elders and their families about the extrinsic factors of the residences and the environment, about the care of urban mobility, about the need for regular support by healthcare professionals, the importance of physical exercise and recreational activities to keep the elderly active. Surveillance activities are also worth noting, recording the falls of the most vulnerable older adults and reporting to the healthcare team (36).

To achieve this, the CHW has the assistance and supervision of the nurse, as manager of care. It should be noted that comprehensive care for elderly is feasible only when there is an approach to the day to day reality of each individual, their habits, and their problem (12).

In this way, nurses must have knowledge in gerontology to update themselves, as well as to train the healthcare team and educate their patients. In particular, with regard to CHW, the nurse is responsible for their training, qualification with technical knowledge, and improvement of those (37).

The nurse must recognize CHW as mediators between the healthcare service and the community. It is recommended that they actively participate in health education, either in home-visits or with the team in activities such as conferences, workshops, or

rounds of conversations. In this way, primary care develops a permanent education that allows listening and sharing information to consolidate the link between the team, the adaptation of the language, and the use of creative, effective and, transformative teaching methods (38).

Consequently, primary care provides the elderly with an active character, distinctive of an individual who chooses to adopt protective behaviors and reflects on the multidimensional elements that can cause a fall or possible diseases (37).

Conclusions

This study allowed us to analyze, along with the CHW, the risk behaviors of the elderly, and the factors associated with said behaviors. The CHW identified extrinsic, socioeconomic, and psychological factors, as their interaction produces risky behaviors and consequent falls.

The factors identified constitute knowledge that can subsidize health education processes for the prevention of falls in the elderly, aspects to consider when planning collective actions for healthcare and management, as well as raising awareness to prevent falls effectively among primary healthcare professionals.

Limitations

The main limitation of this study was to work with the perception and experiences of the CHW of only one family healthcare unit in a municipality since this presents a bias in the research and, therefore, partial results.

Based on the return of the study to the participants, it is suggested for future research to evaluate programs to prevent falls in elders that contemplate risk behaviors and health education programs that address extrinsic factors, strengthen the social support network and work on the psychological aspects of the elderly concerning aging (feelings, beliefs, habits, among others).

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