Elderly caregivers of other elderly living with and without children: burden, optimism and coping strategies

Idosos cuidadores de outros idosos que residem com e sem crianças: sobrecarga, otimismo e estratégias de enfrentamento

Abstract This article aims to compare level of burden, optimism and coping strategies among elderly caregivers of other elderly individuals who reside with and without children. A cross-sectional study was with a sample of 301 elderly caregivers of elderly Brazilians seen in primary health care. Among the 301 caregivers interviewed, 44 resided with children and 257 did not. Evaluations involved the administration of the Zarit Burden Inventory, Spirituality Scale (optimism) and Coping Strategies Inventory. Either the Student’s t-test or the Mann-Whitney U-test was used for the comparisons between the two groups. Burden level was significantly higher among elderly caregivers who resided with children (p = 0.01). No significant differences were found with regard to optimism. Elderly caregivers who did not reside with children reported significantly greater use of coping strategies focused on the expression of negative emotions (p < 0.01), religiosity (p < 0.01) and the inhibition of negative emotions (p = 0.01). The elderly caregivers of other elderly individuals who resided with children had a higher level of burden and used coping strategies less than those who did not reside with children.

Key words Child, Aged, Caregivers, Family relations

Resumo O objetivo deste artigo é comparar o nível de sobrecarga, otimismo e as estratégias de enfrentamento de idosos cuidadores de idosos que residem com e sem crianças. Estudo transversal realizado com amostra de 301 idosos cuidadores cadastrados nas Unidades de Saúde da Família. Foram entrevistados 301 idosos cuidadores, sendo que 257 não residiam com crianças e 44 residiam. Os instrumentos utilizados foram Escala de Sobrecarga de Zarit, Escala de Espiritualidade de Pinto e Pais Ribeiro e Inventário para Avaliação das Estratégias de Enfrentamento. Foram usados o teste T de Student e teste U Mann-Whitney para a comparação entre os dois grupos. O nível de sobrecarga foi significativamente maior nos idosos cuidadores que residiam com crianças (p = 0.01) e não houve diferença significativa para o otimismo. Os idosos cuidadores que não residiam com crianças reportaram o uso significativamente superior de estratégias de enfrentamento focadas em emoções negativas (p < 0.01), religiosidade (p < 0.01) e inibição de emoções negativas (p = 0.01). O nível de sobrecarga foi maior entre os idosos cuidadores que residiam com crianças. Os idosos cuidadores que não tinham crianças no domicílio reportaram maior uso de estratégias focadas na emoção e na religião para enfrentar as demandas do cuidado ao idoso.

Palavras-chave Criança, Idoso, Cuidadores, Relações familiares
Introduction

Studies addressing the implications and stress of informal care have increased with the growing number of elderly individuals who perform the role of caregiver for other elderly individuals and children in the family. Caring for others with different degrees of dependence and from different generations can lead a caregiver to experience burdensome situations for which different coping strategies are needed. Studies involving grandparents who take care of their grandchildren demonstrate that childcare can exert a positive influence on intergenerational exchanges. However, it is important to maintain a balance between the grandparents' involvement in childcare and other activities, as an excessive number of tasks directed at caring for children is burdensome and can exert a negative influence on the health of grandparents.

Among the population of caregivers for the elderly, burden is one of the aspects most associated with a negative impact. Excessive burden taxes the caregiver's capacities and can affect both physical and psychological health, leading to mood changes, depression, stress and a diminished quality of life as well as causing harm to familial and social relationships.

The development of coping strategies is indicated to minimize the occurrence of the negative effects of an excessive care burden. Such strategies have a protective effect by reducing the demands that tax the caregiver. Among caregivers of the elderly, the most often employed coping strategies of an emotional nature are focused on religion, resignation and the minimization of the negative effects of the problem. Elderly caregivers tend to use more inherent forms of coping, such as distancing, resigning themselves to the situation or redefining their preference.

The pursuit of better coping strategies is linked to one's context and psychological mechanisms. The degree of optimism is a characteristic of the personality of each individual and an aspect that assists in seeking better results. Recent investigations have shown that sufficient optimism results in more effective coping strategies, as individuals tend to act in a more proactive manner to deal directly with the source of the problem. Among caregivers of dependent individuals, a higher degree of optimism is related to a lower level of care-related burden.

Moreover, studies involving elderly caregivers report that high degrees of optimism are related to healthier living habits, a lower occurrence of depressive symptoms and better coping in burdensome situations.

With the increase in the longevity of the population and changes in family structure, elderly individuals have increasingly taken on the role of caregiver for more dependent elderly individuals as well as children. This requires different skills to meet the particularities of care for different generations. Although many studies have discussed the negative consequences of care-related burden and ways to minimize such burden, the literature on burden, coping strategies and optimism among elderly caregivers of elderly individuals with and without the presence of children remains scarce.

Considering the importance of evaluating these aspects in elderly caregivers who are exposed to different forms of care and the implications regarding the physical and psychological health of the caregiver as well as relationships between children and elderly individuals, the aim of the present study was to compare burden, coping strategies and optimism among elderly caregivers who reside with and without children.

Material and Methods

Participants

The present cross-sectional study is part of a larger investigation entitled “Variables associated with cognition in elderly caregivers” conducted at the Federal University of São Carlos with informal caregivers aged 60 years or older who took care of other elderly individuals identified at 18 primary care units in the city of São Carlos, state of São Paulo, southeastern Brazil. The following were the inclusion criteria: 1) age $\geq 60$ years; 2) registration with a primary care unit in the city of São Carlos, Brazil; 3) at-home caregiver of an individual aged $\geq 60$ years dependent with regard to at least one basic activity of daily living evaluated using the Katz Index and/or one instrumental activity of daily living evaluated using the Lawton and Brody Scale.

The teams at the primary care units provided a list of 594 families. The sample selection method is described in the study entitled “The evaluation of perceived stress and associated factors in elderly caregivers” by Luchesi et al. Following the selection process, 351 elderly caregivers were interviewed, 50 of whom were excluded for not providing sufficient information on coping strategies. Thus, the final sample was composed
of 301 elderly caregivers of other elderly individuals in the home setting. The caregivers were separated into groups based on the presence/absence of children in the home. Group 1 was formed of caregivers who did not reside with children (n = 257) and Group 2 was composed of caregivers who resided with children (n = 44).

Data acquisition

Interviews were held in the participants’ homes in a single, individual session lasting approximately 1.5 hours and were conducted between April and November 2014. This study received approval from the Human Research Ethics Committee of the Federal University of São Carlos. All participants were informed about the objectives of the study, and before starting to collect data, the Informed Consent Form was presented and discussed with each participant. After clarification, a copy of the document was requested and a copy of the document was sent to the participants.

The following evaluations were performed:

Functional capacity: The Katz Index was used to evaluate independence on six basic activities of daily living and the participants were classified as either dependent (dependence for one or more functions) or independent (no difficulty with any of the activities evaluated). The Lawton and Brody Scale was used to evaluate instrumental activities of daily living (score 7 to 21 points), with the following interpretation of the results: 21 points = independence; 8 to 20 points = partial dependence; and 7 points = complete dependence. This scale was used to classify both the caregivers and the elderly individuals who received care.

Socio-demographic characterization of caregiver and inter-generational cohabitation: sex, age (in years), schooling (in years), marital status (with/without conjugal life), household income (categorized based on the Brazilian monthly minimum wage [BMMW]: 1 to 2 times the BMMW; 2 to 4 times the BMMW; > 4 times the BMMW; and no response), number of residents in the home (2 to 3; 4 to 5; ≥ 6), who lives in the home (spouse; spouse and (step) sons/daughters; spouse, (step) sons/daughters and grandchildren; other arrangements), who receives care (degree of kinship between caregiver and person who receives care: parent; spouse; sibling; other), length of time in the role of caregiver (in years), duration of daily care (in hours), resides with child (yes/no), number of children in the home, child’s sex, child’s age (in years), degree of kinship to child (grandparent; great grandparent; parent; other), length of time living with child (in years), duration of daily cohabitation (in hours), whether interviewee cares for child (yes/no) and duration of daily care for child (in hours).

Burden related to caring for elderly individual: The Zarit Burden Inventory was used for this evaluation, which is composed of 22 items addressing the perceived impact of care giving on the physical health, emotional wellbeing, social activities and finances of the caregiver. The total score is determined by the sum of the item scores and ranges from 0 to 88 points, with higher scores denoting a greater degree of burden.

Optimism: The Spirituality Scale developed by Pinto and Pais-Ribeiro was used for this evaluation and is divided into two domains: Beliefs and Hope/ Optimism. Only the three items of the Hope/ Optimism domain were employed in the present study, which address the positive sense of life guided by hopeful prospects for the future. The final score corresponds to the mean of the item scores and ranges from 1 to 4 points, with a higher score denoting a greater degree of optimism.

Coping strategies: The Coping Strategies Inventory was used for this evaluation, which consists of 19 items scored on four levels of intensity. The items are grouped into five factors: Factor 1: expression of negative emotions (items 1, 7, 9, 13, 18 and 19) – behavioral excesses and risk behaviors that allow the individual to spare himself/herself of feelings of guilt, resentment or doubts, deal with situations of anxiety and depression and make contact with others to achieve assistance or maintain emotional activation. Factor 2: environmental control (items 5, 10, 14 and 16) – attempts at the indirect control of the environment. This encompasses the belief that others will take care of an event and allowing others to deal with a problem, awaiting further information prior to acting and stopping activities when necessary to seek social support. These aspects constitute a proactive stance interceded by the acts of others to whom the individual is able to appeal. Factor 3: religiosity (items 8 and 15) – as a shock absorbing factor that regulates emotions. Factor 4: avoidance behavior (items 4, 6, 12 and 17) – based on minimizing stress. This factor is related to cognitive mechanisms that mitigate the stressful potential of an event and contribute toward diminishing anxiety and depression. Factor 5: inhibition of emotions (items 2, 3 and 11) – the individual tends to withdraw into his/her inner world without attempting to change it or reinterpret it.
The results were analyzed based on the factors, with the determination of the frequency with which the caregivers use such strategies. The following scores were attributed to each factor: Factor 1 – 6 to 24 points; Factor 2 – 4 to 16 points; Factor 3 – 2 to 8 points; Factor 4 – 4 to 16 points; and Factor 5 – 3 to 12 points.

Data analysis

The data were analyzed using the Stata 14® program for WindowsTM. The Shapiro-Wilk test was used to determine the distribution (normal or non-normal) of the data. The dependent variables burden, optimism and Factors 1, 2 and 3 of the Coping Strategies Inventory demonstrated non-normal distribution (p = 0.00), whereas Factors 4 (p = 0.97) and 5 (p = 0.37) of the Coping Strategies Inventory demonstrated normal distribution. The independent variables age, schooling, income, length of time in the role of caregiver, daily duration of care giving activities, who lives in the home and degree of kinship to the individual receiving the care demonstrated non-normal distribution (p = 0.00). The Mann-Whitney U-test was used to compare median values of Groups 1 and 2 with regard to nonparametric variables and the Student’s t-test was used to compare the means of the parametric variables between groups. The chi-square test was used to compare the proportions of Groups 1 and 2. The level of significance for all statistical tests was set to 5% (p ≤ 0.05).

Results

Table 1 displays the socio-demographic and functional capacity characteristics of the elderly caregivers according to group (Group 1: 85.3%, n = 257; Group 2: 14.7%; n = 44). Age ranged from 60 to 95 years in Group 1 and 60 to 81 years in Group 2. Thus, the participants who resided with children were younger than those who did not reside with children (p = 0.02).

Most caregivers offered care to their spouse (Group 1: 82.9%; Group 2: 93.1%). Most individuals who received care were male (Group 1: 66.9%; Group 2: 77.3%), with a median age of 73 years in Group 1 and 69 years in Group 2. With regard to basic activities of daily living, 68.5% were independent and 31.5% were considered dependent in Group 1, whereas 68.2% were independent and 31.8% were considered dependent in Group 2. For instrumental activities of daily living, 85.2% were partially dependent and 14.8% were dependent in Group 1, whereas 90.9% were partially dependent and 9.1% were dependent in Group 2.

To understand the context of the 44 elderly caregivers who resided with children (Group 2), information was collected on inter-generational cohabitation. Fifty-nine children lived with the elderly caregivers. A total of 77.3% of these caregivers resided with one child, 13.6% resided with two children, 6.8% resided with three children and 2.3% resided with four children. The majority of children (52.6%; n = 31) was male and 47.4% (n = 28) were female, with a mean age of 6.0 ± 3.4 years (range: zero to 12 years). Most of the children (84.2%; n = 50) were grandchildren of the caregivers, followed by great grandchildren (9.0%; n = 5), children (4.5%; n = 3) and others (2.3%; n = 1). Mean duration of cohabitation between the child and elderly caregiver was 5.4 ± 5.1 years, the mean duration of daily cohabitation was 8.4 ± 5.1 hours and the mean duration of daily care for the children was 6.3 ± 5.1 hours.

Table 2 displays the scores for burden, optimism and the factors that compose the Coping Strategies Inventory for the elderly caregivers in Groups 1 and 2.

The elderly caregivers who resided with children had a greater burden in comparison to those who did not reside with children (p = 0.01). No significant differences between groups were found with regard to optimism. The caregivers who did not reside with children reported greater use of coping strategies categorized in Factor 1, which reflects the expression of negative emotions through risk behaviors that can compromise physical and psychological health (p < 0.01), Factor 3, which regards religiosity (p < 0.01), and Factor 5, which regards the inhibition of negative emotions (p = 0.01).

Discussion

The present study aimed to compare burden, coping strategies and optimism among elderly caregivers who reside with and without children. The elderly caregivers of other elderly individuals who resided with children had a greater level of burden in comparison to those who did not reside with children (p = 0.01). No significant differences between groups were found with regard to optimism. The caregivers who did not reside with children reported greater use of coping strategies categorized in Factor 1, which reflects the expression of negative emotions through risk behaviors that can compromise physical and psychological health (p < 0.01), Factor 3, which regards religiosity (p < 0.01), and Factor 5, which regards the inhibition of negative emotions (p = 0.01).
Table 1. Characteristics of elderly caregivers according to condition of residing with a child or not, São Carlos, SP, Brazil, 2014.

<table>
<thead>
<tr>
<th>Variable</th>
<th>Resides without child (Group 1)</th>
<th>Resides with child (Group 2)</th>
<th>p-value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>n = 257</td>
<td>n = 44</td>
<td></td>
</tr>
<tr>
<td>Sex</td>
<td></td>
<td></td>
<td>&gt; 0,05</td>
</tr>
<tr>
<td>Female</td>
<td>74.3%</td>
<td>81.8%</td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>25.7%</td>
<td>18.2%</td>
<td></td>
</tr>
<tr>
<td>Age (years)</td>
<td>69.0’</td>
<td>65.5’†</td>
<td>0.02</td>
</tr>
<tr>
<td>Marital status</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>With conjugal life</td>
<td>88.7%</td>
<td>95.5%</td>
<td>&gt; 0,05</td>
</tr>
<tr>
<td>Without conjugal life</td>
<td>11.3%</td>
<td>4.5%</td>
<td></td>
</tr>
<tr>
<td>Schooling (years)</td>
<td>3.0’</td>
<td>4.0’</td>
<td>&gt; 0,05</td>
</tr>
<tr>
<td>Household income</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 to 2 times BMMW</td>
<td>37.7%</td>
<td>22.7%</td>
<td></td>
</tr>
<tr>
<td>2 to 4 times BMMW</td>
<td>38.1%</td>
<td>36.3%</td>
<td></td>
</tr>
<tr>
<td>&gt; 4 times BMMW</td>
<td>17.5%</td>
<td>29.5%</td>
<td></td>
</tr>
<tr>
<td>No response</td>
<td>6.7%</td>
<td>11.5%</td>
<td></td>
</tr>
<tr>
<td>Number of residents in home</td>
<td></td>
<td></td>
<td>&gt; 0,05</td>
</tr>
<tr>
<td>2 to 3</td>
<td>79.0%</td>
<td>18.2%</td>
<td></td>
</tr>
<tr>
<td>4 to 5</td>
<td>19.5%</td>
<td>54.5%</td>
<td></td>
</tr>
<tr>
<td>6 or more</td>
<td>1.5%</td>
<td>27.3%</td>
<td></td>
</tr>
<tr>
<td>Resides with</td>
<td></td>
<td></td>
<td>&gt; 0,05</td>
</tr>
<tr>
<td>Spouse</td>
<td>47.8%</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Spouse, (step) sons/daughters</td>
<td>25.3%</td>
<td>2.3%</td>
<td></td>
</tr>
<tr>
<td>Spouse, (step) sons/daughters, grandchildren, great grandchildren</td>
<td>3.5%</td>
<td>38.6%</td>
<td></td>
</tr>
<tr>
<td>Other relatives</td>
<td>8.2%</td>
<td>2.3%</td>
<td></td>
</tr>
<tr>
<td>Other arrangements</td>
<td>15.2%</td>
<td>56.8%</td>
<td></td>
</tr>
<tr>
<td>Katz Index</td>
<td></td>
<td></td>
<td>&gt; 0,05</td>
</tr>
<tr>
<td>Independent</td>
<td>87.9%</td>
<td>81.8%</td>
<td></td>
</tr>
<tr>
<td>Dependent</td>
<td>12.1%</td>
<td>18.2%</td>
<td></td>
</tr>
<tr>
<td>Lawton Scale</td>
<td></td>
<td></td>
<td>&gt; 0,05</td>
</tr>
<tr>
<td>Independence</td>
<td>41.6%</td>
<td>38.6%</td>
<td></td>
</tr>
<tr>
<td>Partial dependence</td>
<td>58.4%</td>
<td>61.4%</td>
<td></td>
</tr>
<tr>
<td>Complete dependence</td>
<td>0.0%</td>
<td>0.0%</td>
<td></td>
</tr>
</tbody>
</table>

BMMW: Brazilian monthly minimum wage; * data expressed as median; † p ≤ 0.05.

The relationship between burden associated with the care of an elderly individual and the presence of children in the home is not clear in the literature. Indeed, studies addressing intergenerational aspects demonstrate that this relationship is marked by ambivalent characteristics. A study analyzing the effects of full-time care of grandchildren by grandparents found that the caregivers needed to rearrange financial, familial and professional aspects of their lives and...
Table 2. Mean and median scores for burden, optimism and the factors of Coping Strategies Inventory in Groups 1 and 2, São Carlos, SP, Brazil, 2014.

<table>
<thead>
<tr>
<th>Group 1 (n = 257)</th>
<th>Group 2 (n = 44)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Burden</strong></td>
<td><strong>Optimism</strong></td>
</tr>
<tr>
<td>Mean ± SD</td>
<td>Mean ± SD</td>
</tr>
<tr>
<td>14.0*‡</td>
<td>3.7*</td>
</tr>
<tr>
<td>17.5*‡</td>
<td>4.0*</td>
</tr>
<tr>
<td>8.0*‡</td>
<td>7.0*‡</td>
</tr>
<tr>
<td>8.3 ± 2.2*</td>
<td>7.5 ± 1.3*</td>
</tr>
</tbody>
</table>
| *Mann-Whitney U-test; †Student’s t-test; ‡p ≤ 0.05.

demonstrated concern with regard to the children’s future due to their frail health. It should be noted that the children resided only with the grandparents in this study and the latter took on all care responsibilities, leading to an increase in burden32. In contrast, the authors of a study evaluating the relationship between social support for elderly individuals with cognitive impairment and the presence/absence of children in the home found a higher degree of social support among the participants who resided with children33. Moreover, the authors of a two-year study conducted in Latin America involving 2000 elderly individuals aged 66 to 68 years found that grandparents who took care of their grandchildren for more than four hours per week had higher levels of satisfaction with life and a lower risk of developing depression34.

The young age of the children who resided with elderly caregivers in the present study may be an indication of their greater dependence with regard to daily activities, resulting in a greater burden for the caregiver in terms of workload and the time required for the caregiver to adapt to the situation. In Europe, care for grandchildren is considered a form of intergenerational solidarity and researchers stress the importance of programs directed at childcare to achieve a balance between formal care and that offered by grandparents in order to diminish the burden4.

The field of positive psychology stresses coping strategies and optimism as potential sources of stimulation to reduce the negative effects of excessive burden on physical, cognitive and psychological health35. Coping strategies assist caregivers in adapting to a given situation and are therefore considered a protective factor36. In the present investigation, elderly caregivers who did not reside with children reported greater use of coping strategies focused on emotion and religion.

The authors of a study involving adult caregivers of elderly individuals with a high degree of physical and cognitive dependence analyzed the social skills and coping strategies employed by the caregivers and also found a focus on emotion and religion. The use of such strategies is particularly important to caregivers by serving as a method of adaptation and assistance, since dependent elderly individuals often have physical and cognitive limitations stemming from chronic diseases for which the condition of dependence is irreversible37. The authors of a randomized study propose an intervention directed at the development of coping strategies and a reduction in the burden of caregivers of elderly individuals with dementia. The results of the study demonstrate that caregivers who participated in the intervention developed coping strategies focused on the problem and social support, which were effective at diminishing the level of burden36.

The differences between the two groups in the present investigation are important and offer direction for further studies that seek to explore coping strategies for care in the intergenerational context. The presence of a child in the home can be an incentive to seek and employ coping strategies as a tool for minimizing the effects of excessive burden regarding care to elderly individuals as well as improving quality of life and stimulating the positive aspects of intergenerational care, as children can be a source of support for elderly individuals in the future.

Optimism among the elderly caregivers was high in the present sample, with no significant difference between the two groups. This is an
important aspect for health professionals in primary care to consider with regard to proposing interventions directed at the positive aspects of caregivers in order to help such individuals deal with the demands of care better. Data from a study that analyzed the relationship between level of optimism and stress in elderly caregivers of the elderly in an intergenerational context showed that optimism was an important variable for stress reduction in this context. In another research with caregivers of elderly people with dementia researchers have identified that optimism is an important mediator variable to minimize feelings of anger and increase vitality.

The present study has limitations that should be considered. The cross-sectional design does not allow the determination of the effect of time on the variables in the two situations analyzed. In this investigation, variables that could exert a positive or negative influence on care were evaluated, with the determination of which were found in the context of care with and without the presence of children in the home. However, other aspects, such as social support, family function and assistance with regard to caring for both children and elderly individuals, could minimize the negative impacts imposed by care giving and should be explored in future studies.

These findings offer important information for the development of interventions focused on minimizing the negative effects of care giving and the development of strategies to cope with this situation better. Special consideration should be given to families with the presence of children who are in the formative phase and who can also offer important social support to elderly caregivers. Moreover, children in this context can become a source of care for these individuals in the future.

Conclusion

In this study, a higher level of burden was identified in elderly caregivers who lived with children. For the optimism variable, no significant differences were found between groups. Regarding coping strategies, elderly caregivers who did not live with children present greater use of strategies centered on emotion and religion. The differences found between the two groups are important to increase knowledge about elderly caregivers and intergenerational coexistence, in addition they may direct other studies that seek to explore coping strategies for family care in different contexts. In the practical field, these results are relevant for primary care professionals because they can deepen the understanding about families with elderly caregivers and develop techniques to promote coping strategies in intergenerational or unidentifiable contexts that seek to minimize the negative effects of care overload and promote caregivers’ health, and encourage intergenerational coexistence in the family environment as an important care resource.
Collaborations

NA Oliveira, BM Luchesi, K Inouye and SCI Pa-
varini participated in the planning, conception
and writing of the work. NA Oliveira, ÉN Souza
and BM Luchesi participated in data collection
and writing of the work. NA Oliveira and TS Al-
exandre participated in the analysis, interpreta-
tion of data and writing of the work.

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