

# A training intervention to reduce paternalistic care and promote autonomy: a preliminary study

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**Introduction:** Paternalism, assuming control of aged care, is a widespread orientation in older adults care. Paternalistic attitudes and practices are commonly understood as a threat to the freedom and autonomy of a person, making patients more dependent. Therefore, the reduction of these attitudes and behaviors is a primary goal for any older adult health and social care situation. The aim of this preliminary study is to develop a behavioral intervention to decrease paternalistic behaviors in formal caregivers and to increase those care behaviors which promote autonomy at post-intervention (1 week) and at follow-up (14 weeks).

**Methods:** A sample of 118 professional caregiver volunteers working in day care centers and nursing homes were assigned to quasi-experimental (N=47) and control (N=71) conditions. The intervention consisted of 3 weekly group sessions. Individual and contextual measures were collected: 1) the primary outcome variable was the type of care (paternalistic versus autonomist) measured through the self-report Paternalist/Autonomist Care Assessment (PACA); 2) A 10-item caregiver self-register of paternalistic behaviors was carried out, 3) Finally, in order to assess the potential effects on observed behavior both in caregiver and older adult functioning at a contextual level, the five institutions were assessed through the SERA-RS.

**Results:** Compared with the control group, caregivers in the behavioral intervention group displayed significantly lower paternalistic appraisals at posttest and follow-up. Regarding the intervention group, caregivers at posttest and follow-up showed significantly greater occurrence of autonomist behaviors being promoted and lower paternalistic appraisal. The results regarding the effect on the institutions showed better personnel performance and older adult functioning.

**Conclusion:** Caregivers who followed the intervention learned to better identify older adult needs; although we did not find significant differences in autonomy occurrence compared with the control group, a behavioral intervention may promote more autonomist environments and, therefore, better personnel and older adult functioning.

**Keywords:** paternalism, autonomy, caregivers, behavioral intervention

## Introduction

Taking care of older adults is a complex and multifaceted task in which an older adult interacts with caregivers (family members and/or professionals), in a particular context, receiving support when needed (unfortunately, sometimes also when not needed). The appropriate level and type of care must be chosen from a very diverse range (medical, physical, psychological, or social, among others), and the nature of care provided not only depends on the care required by the older adult's condition but also on the caregiver's knowledge, caring abilities, and views of aging.

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In this complex human situation, two main antagonistic perspectives can be identified: paternalistic (caregiver centered), under which caregivers of older adults make decisions in another person's best interests, without that person's request, consent, or awareness of that person's welfare;<sup>1,2</sup> autonomist (person/care-recipient centered), where caregivers reinforce individual choice, the self-government and independence/autonomy of the care recipient.<sup>3,4</sup>

Paternalist care is an attitude in which the caregiver is considered above the care recipient, that is, a traditional "institutional" approach.<sup>5</sup> The care recipients are considered to play a passive role. This position is mainly held by clinicians, who expect to make the best decision for their patients. Family members also usually approach their care recipients from this perspective, wanting the best for their loved ones but sometimes underestimating their capacity and wishes.<sup>6</sup> Likewise, aged-care centers tend to be places dominated by the biomedical model and hierarchical decision-making,<sup>5,7,8</sup> where values such as efficiency and security are paramount. In these contexts, older adults are usually treated as children, in need of security and overprotection, through the use of childish language with plenty of diminutives, and even with excessive signs of affection because of their illness, disability or handicaps.<sup>8-10</sup> In this context, the autonomist type of care is usually considered to be "less safe",<sup>5</sup> showing higher rate of falls in older adults in person-centered care compared with older adults under traditional aged care.<sup>11</sup> Thus, research has shown that paternalistic care of older adults is associated with a decrease in older adult autonomy.<sup>12-15</sup>

Alternatively, with the aim of promoting autonomy, another social and health care approach is emerging: person-centered care. Several studies have shown the importance of maintaining a relationship with the older adult in which autonomy, independence, respect, and choice replace disempowerment, overprotection, and stigmatization.<sup>16-18</sup> Even when older adults are tested by asking them how they want to be treated, their answers are: "as adults (not as children)", "being able to choose", "with dignity and respect", "being informed and asked".<sup>19,20</sup> In sum, all these remarks and preferences correspond to an "autonomist" care model which is "person-centered" and promotes the autonomy of older adult care recipients,<sup>21</sup> ensuring patient safety whilst always seeking to provide care that is truly person-centered.<sup>22</sup>

This standpoint, from the ideal of an egalitarian caregiver-patient relationship,<sup>23</sup> promotes the inclusion of the

patient in the caregiver's decision-making process<sup>24</sup> on the basis that care recipients are key elements in the selection of the best care options (see also<sup>25</sup>), emphasizing the well-being and quality of life as defined by the individual.<sup>17</sup>

Although there is a growing body of literature on person-centered care, there is no consensus on its definition, and therefore, in its key elements and measures to assess effectiveness.<sup>4</sup> The American Geriatrics Society Expert Panel on Person-Centered Care has attempted to unify the different definitions, proposing the following definition:

"Person-centered care" means that individuals' values and preferences are elicited and, once expressed, guide all aspects of their health care, supporting their realistic health and life goals. Person-centered care is achieved through a dynamic relationship among individuals, others who are important to them, and all relevant providers. This collaboration informs decision-making to the extent that the individual desires<sup>4</sup> p.16)

Person-centered care includes the following elements: personhood,<sup>26</sup> knowing the person,<sup>27</sup> maximizing choice and autonomy,<sup>23</sup> quality care,<sup>27,28</sup> nurturing relationships,<sup>26,29</sup> and a supportive physical and organizational environment.<sup>18,30</sup>

Several studies have shown that this care approach improves the professional's capacity to meet individual needs with dignity and respect, increases social interaction between residents,<sup>31</sup> improves the psychological status,<sup>32,33</sup> physical and psychological health<sup>33</sup> of older adults, increases patient satisfaction,<sup>34,35</sup> promotes older-adults' views about quality of care<sup>36,37</sup> and even improves the continuity of residents' care<sup>38</sup> and staff satisfaction.<sup>31,38-40</sup> Furthermore, International Institutes have highlighted the need for this approach to care (eg, the World Health Organization,<sup>41</sup> the Health Foundation<sup>42,43</sup> and the Institute of Medicine<sup>44</sup>).

Several factors can lead to the type of care provided, such as age, functional conditions, state of awareness, legal situation, etc. Lawton and Nahemow<sup>45</sup> pointed out this position in the core of their person/environment interactional theory. In this theory, they posited that the type of care provided to older adults is the result of interaction between two factors: the level of the older adult's competence, frailty, dependency on the one hand and/or cognitive impairment on the other, both of which are mediated by environmental pressures. Giving information to patients, reinforcing older adults' autonomy and involving them in the decision-making process have also been highlighted.<sup>25,46-48</sup>

Despite this, it seems obvious that the client's competence should be the foremost consideration in deciding the level of support provided in care;<sup>49,50</sup> this, however, is not common practice.<sup>42,51</sup> Clearly, it should be underlined that, depending on the condition of the older person, they may require care, support, company, protection, or none of these at all. However, caregivers often undervalue the older person's abilities,<sup>12–15</sup> thereby following stereotypes; they do not treat them as adults, they provide unnecessary help and attempt to restrict their activities. When caregivers overprotect care recipients who do not ask for, nor need, help and do not require protection, autonomy may be reduced; this constitutes the paternalistic approach.<sup>12–15</sup>

As noted above, paternalistic care reduces the older adult's autonomy, and studies have found widespread paternalistic care in formal contexts; thus developing effective interventions to promote autonomist care is a priority. In their systematic review, Brownie and Nancarrow<sup>52</sup> highlight the need to emphasize the effectiveness of the elements of person-centered care, either singly or in combination. There have been several interventions along such lines which, although not focusing on paternalistic behaviors, have tried to improve several aspects of resident and staff functioning. For example, several interventions focused on caregiver/patient communication/interactions and dementia care (see<sup>53,54</sup> for examples) showed that the intervention improved communication between staff and residents during care routines, increasing use of positive statements and not requiring more staff time for the daily activities, but were unable to affect older adults' verbal interactions with professionals or their disruptive behavior. Other studies have focused on improving communication among older adults, nursing staff, and visiting family members,<sup>55,56</sup> which had beneficial effects on residents (depression, irritability, and verbal behavior) but not on the nursing staff's management of problem behaviors.

Two main findings highlight the need to study how to change paternalistic behaviors to promote autonomy: 1) care professionals who hold negative age stereotypes provide paternalistic care to older adults;<sup>57</sup> and 2) caregiver functioning influences older adult functioning; that is, when caregivers consider older adults as dependent, it becomes a self-fulfilling prophecy.<sup>3,13,58</sup>

Changing stereotypes is increasingly taken into consideration as a critical component of healthy aging.<sup>59</sup> Although few studies have tested the effectiveness of interventions to reduce or prevent ageist stereotypes, our cross-cultural results<sup>60</sup> yielded positive effects of university programs,

not only in personal views about ageing, but in cultural stereotypes. From a behavioral perspective, several studies show effective results in changing thoughts and action through traditional behavioral techniques, such as modeling, shaping and reinforcement.<sup>61</sup>

The aim of the present study is to examine the effect of a behavioral group intervention in day care centers and nursing homes to decrease professional caregivers' paternalistic behaviors and to encourage those behaviors that promote autonomy in older adults. Moreover, we assess the potential effects caused by our behavioral intervention in the institutions where the intervention was implemented. Therefore, our hypotheses are:

1. Those caregivers following the behavioral intervention will report significantly lower appraisal of paternalistic behaviors and greater appraisal of autonomist behaviors, measured by the *Paternalist/Autonomist Care Assessment (PACA)*.
2. Those caregivers following the behavioral intervention will observe the occurrence in their settings of significantly fewer paternalistic behaviors and more behaviors promoting autonomy, measured by the *Paternalist/Autonomist Care Assessment (PACA)*.
3. The institutions in which the intervention was implemented will show a significant improvement in professional functioning and older care recipients, measured by *MEAP/SERA-RS*.

## Method Procedure

Participants were recruited through different centers (day care centers and nursing homes) of a private non-profit older adult services company, ASISPA. The researchers contacted the director by telephone and visited the company, subsequently doing the same with the directors of the different older adult centers; they explained the general objectives of the study and requested permission to implement the intervention. If participation was agreed, one of the researchers visited the center, explained the general objectives of the study to the professionals and created the intervention group with those professionals who were interested in taking part.

The professionals working in the day care center/nursing home who did not want to participate in the intervention group were asked to complete the questionnaires voluntarily, becoming the control group. Participants in

the intervention and control conditions were therefore not randomly assigned.

### Ethical considerations

This study was approved by the Ethics Committee of the Autonomous University of Madrid (November 2014). All professionals who participated, either in the experimental or in the control group, gave their written informed consent to participate prior to the study’s start date and were also informed about how the study could help to improve care as well as the possibility of dropping out of the study with no negative consequences at any time. The directors of each center also gave their explicit authorization to collect information in the institutions. Data were analyzed anonymously.

### Participants

The sample was made up of professional caregivers working with older adults in two contexts (N=120): three day care centers (DCCs) in Madrid city (N=54) and two nursing homes (NH) in Madrid region (N=64) (Spain). All these centers are managed by ASISPA (a private non-profit older adult services company) (Table 1).

Some professional caregivers from these centers voluntarily participated in weekly behavioral group intervention sessions during a total of three weeks (intervention group). As already noted above, some of those caregivers that did not participate in the intervention were assigned to the control group. The intervention group was made up of 47 volunteers who were interested in taking part, 22 from two nursing homes (83.39% women, mean age =42.57 years, SD =10.54 years) and 25 from three day care centers (66.67% women, mean age =41.92 years, SD =9.00 years). Regarding their professions, most (85.7%) were health professionals (psychologists, medical doctors, nurses, physiotherapists, social workers and other health professionals) and 14.3% had other unspecified professions.

Seventy-one caregivers working at the same centers who did not wish to participate were assigned to the control group (75.3% women, mean age =41.30 years,

SD =10.09 years). Regarding their professions, the majority (69.9%) were health professionals (medical doctors, nurses, auxiliary nurses, social workers and other health professionals) and 30.1% had other unspecified professions. No significant demographic differences were found between experimental and control groups.

In terms of participation in post and follow-up of experimental subjects, only 2.13% and 21.28% did not participate in the post-test and follow-up, respectively. Of the controls, 52.05% in the post-test and 19.18% in the follow-up did not complete the corresponding forms. The high attrition rate in the post-test of the control group was mainly due to a low degree of motivation among the participants to fill out the questionnaires. Because they were not interested in the study, they may have perceived the questionnaires as too much extra work. In the follow-up, this was improved through a motivational initiative carried out by the researcher and the center directors to obtain the maximum number of completed questionnaires.

### Instruments

In order to assess hypothetical individual outcomes and potential impacts on the context after the implementation of the program, two types of measures were administered: individual and contextual.

Control and intervention groups both completed the Paternalist/Autonomist Care Assessment-PACA, with the intervention group also completing the self-monitoring register. MEAP/SERA-RS- Assessment system for older adult nursing homes was implemented in the five institutions before the behavioral intervention, and one week and 14 weeks afterwards, that is, during pre, post and follow-up phases, respectively.

The Paternalist/Autonomist Care Assessment (PACA).<sup>67</sup> This self-report assesses the appraisal and occurrence of 30 statements about two ways of treating older adults (“paternalistic” and “autonomist”) on a four-point Likert-type scale asking the extent of agreement with a given item. The instructions are as follows:

In the first column of this questionnaire, you can find 30 statements describing forms of treating or caring for older adults. In the second column, please score to what extent you agree with each statement by circling a number from 1 (do not agree at all) to 4 (totally agree). In the third column, please circle YES or NO whether each statement occurs in your center.

**Table 1** Distribution of the sample

	Nursing home	Day care center	
Intervention group	22	25	47
Control group	44	29	73
	66	54	

The two sub-scales showed good construct and concurrent empirical validity, internal consistency ( $\alpha=0.926$  “paternalist” items, and  $\alpha=0.726$  “autonomist” items) and convergent and discriminant validity (69). The PACA also measures whether each statement occurs in the specific institution where the caregiver works, with a yes/no question, which again yielded good construct and concurrent empirical validity, internal consistency ( $\alpha=0.913$  paternalist items and  $\alpha=0.756$  autonomist items) and convergent and discriminant validity.<sup>68</sup>

Caregivers’ Self-register of their own paternalistic behaviors. This is a self-register of the frequency of the ten most representative paternalistic behaviors: 1) Using childish language, 2) Grooming and excessive touching of recipients; 3) Loud or exaggerated tone even when there are no signs of hearing problems; 4). Ignoring the older client, speaking to the accompanying relative; 5) Ignoring the older adult’s presence and talking about him/her to the family caregivers or other staff; 6) Finishing the older adult’s sentences; 7) Not explaining what he/she is going to do, nor the daily activities; 8) Doing or finishing a task without asking whether he/she needs help with it; 9) Lack of privacy in their personal hygiene, and 10) Any other behavior that caregivers may detect. Caregivers were asked to register the frequency of these paternalistic behaviors daily for two consecutive weeks after session two and three of the intervention.

Assessment system for older adult nursing homes (MEAP/SERA-RS);<sup>69</sup> adapted from the MEAP,<sup>70</sup>). The instrument is

completed by an external observer reporting older adult and professional functioning on a scale of 0 to 3. The two subscales included were 1) Older adult functioning scale, which includes five observational items: personal grooming, condition of clothing, older adult interaction, brief verbal exchanges, and general activity level ( $\alpha=0.76$ ), and 2) Personnel functioning scale, which includes five observational items: quality of interaction, physical contact with older adults, organization, caregiver availability for older adults (users or residents), and caregiver conflict ( $\alpha=0.92$ ).

## The intervention

There were 7 intervention groups, ranging from 5 to 9 participants. Each center had one experimental/intervention group, except in one nursing home and one day care center where two intervention/experimental groups were involved, respectively. Each intervention group followed a behavioral intervention, consisting of 60 min sessions once a week for three weeks. Details of the program are shown in Table 2.

The intervention was based on behavioral knowledge and on the principles of behavioral therapy, and was implemented by a trained psychologist. We designed it to teach professional caregivers how to identify paternalistic behaviors and change them into autonomist ones, using a variety of different behavioral techniques: 1) learning as a model, 2) role-playing as a tool to help caregivers identify if paternalistic behaviors were involved, 3) modeling to perform alternative behaviors, and 4) reinforcing autonomist behaviors shown by participants.

**Table 2** Schedule

Module	Sessions	Timing	Objectives	Intervention components
Pre-test	1	1st week		PACA, MEAP/SERA-RS
Module 1. Identifying paternalistic behaviors	1	2nd week	To identify paternalistic behaviors.	Education, debate
Module 2. Identifying paternalistic behaviors	1	3rd week	To learn how to identify caregivers’ paternalistic behaviors and in which situations they are more likely to appear.	Education, role-play and discussion Instrument administered: self-monitoring paternalistic behaviors
Module 3. Identifying and molding autonomist behaviors. Artificial situation	1	4th week	To learn and practice alternative ways of behaving that promote older adult autonomy.	Role play, reinforcement of autonomist behaviors shown by participants (molding behavior); debate, discussion. Instrument administered: self-monitoring paternalistic behaviors
Posttest and follow-up	1	5th and 14th week		PACA, MEAP/SERA-RS

**Abbreviation:** PACA, paternalist/autonomist care assessment.

## Contents of each session

### Session 1. Module 1. Identifying paternalistic behaviors

The first session started with a theoretical introduction about stereotypes and their effects on both older adult and staff functioning. The following concepts were introduced: person/environment interactional theory posited by Lawton and Namehow,<sup>45</sup> the Stereotype Content Model (SCM) proposed by Fiske et al,<sup>71</sup> the mediation of cultural stereotypes on caregiver/older adult functioning, how older adults want to be treated, and a final debate.

### Session 2. Module 2. Identifying paternalistic behaviors

Session 2 started with a brief theoretical overview of stereotypes, behavioral prejudice, and their effects on older adults. The aim of the session was for participants to identify their own paternalistic behaviors when taking care of older adults; therefore, after an initial explanation, volunteers were asked to play the role of caregivers in a given common situation in older adult institutions (for example, taking a resident with functional motor problems from their bed to another room, hygiene actions, dressing, pushing wheelchairs, etc.). The remaining participants observed the role play and identified paternalistic behaviors (for example, moving the person without explaining where they were going, using childish vocabulary, and giving excess support, among others). The session ended with a discussion about common paternalistic behaviors by caregivers, their possible consequences, and possible alternative autonomist behaviors which could promote older adult autonomy. Participants were asked to self-monitor paternalistic behaviors in their daily work during the following week.

### Instruments administered: self-register

#### Session 3. Module 3. Identifying and molding behavior. Promoting autonomist behaviors. Artificial situation

The trained psychologist guided caregivers' behaviors during the role play. Participants were shown how to perform alternative behaviors, and autonomist behaviors were reinforced. The session ended with a final conclusion about the benefits from autonomist behaviors and the possible harm caused by paternalistic behaviors, and a final debate about their intention to reinforce autonomist behaviors and the way to do it. Participants were asked to apply new self-monitoring paternalistic behaviors during the following week.

Instruments administered: self-register

## Data analysis

To evaluate the effects of the behavioral intervention over one and 14 weeks, a linear mixed model was applied, using SPSS v23 software with significance level at  $p < 0.05$  (two-tailed). The estimation method for parameters was Restricted Maximum Likelihood (REML). The independent variables were the intergroup experimental vs control condition, and the *within-moment* condition: pre, post and follow-up moments. Subjects were included as a random effect. The dependent variables were autonomy vs paternalistic appraisal and occurrence (PACA), personnel and older adult functioning (MEAP/SERA-RS), and frequency of paternalistic behaviors (self-monitoring). For *post hoc* analysis, simple effects were examined in the linear mixed models. Missing data was treated with maximum likelihood estimation method (REML); this follows modern guidelines for missing data (eg, Enders, 2010). Finally, to analyze results in care center groups, independent *T*-test and ANOVA were conducted.

## Results

Firstly, four mixed linear models were used to analyze the intergroup experimental and control condition in the within-moment condition (pre, post and follow-up tests). The dependent variables were the four measures from the Paternalist/Autonomist Care Assessment (PACA), that is, both appraisal of caregivers (Care Appraisal Scale- PACA-Appraisal) and occurrence of behaviors (Occurrence of Care in Context- PACA-Occurrence).

Given the quasi-experimental nature of the study (non-random assignment to experimental conditions), two dependent variables showed significant differences between control and intervention group in the pre-test measures in particular: in the pre-test phase, the intervention group perceived a significantly lower occurrence of paternalistic behavior than the control group in its center ( $p = 0.043$ ) and higher agreement with autonomist behaviors ( $p = 0.006$ ) in terms of the way older adults should be treated ( $p = 0.006$ ). Thus, it was more appropriate to study whether experimental and control groups changed their views during the study. Table 3 shows the *F*-statistic, *p*-value and sample means in the four dependent variables for experimental and control groups to evaluate if significant change occurred during the intervention.

In the intervention group, significant differences were detected during the study in the paternalistic appraisal measurement. This group significantly reduced their

**Table 3** F-statistic, p-values and sample means in the four dependent variables for experimental and control groups

		Pre	Post	Follow up	F	p-value	$\eta^2$
Experimental	Paternalism	2.79±1.01 0.68±0.06	2.45±0.11 0.63±0.06	2.45±0.12 0.62±0.06	7.214 2.197	0.001 0.115	0.090 0.028
	Autonomy	3.38±0.90 <b>0.73±0.03</b>	3.58±0.87 <b>0.85±0.03</b>	3.63±0.09 <b>0.88±0.04</b>	2.072 <b>5.575</b>	0.130 <b>0.005</b>	0.031 <b>0.067</b>
Control	Paternalism	3.05±0.9 0.75±0.06	2.96±0.13 0.70±0.06	3.01±0.11 0.72±0.06	0.081 0.421	0.922 0.657	0.001 0.004
	Autonomy	3.08±0.07 0.69±0.03	3.13±0.11 0.77±0.04	3.19±0.08 0.76±0.03	0.666 2.091	0.515 0.126	0.007 0.018

Notes: In bold significant differences throughout the study. Bonferroni correction was performed for multiple comparisons (k = three comparisons for the three compared moments);  $\eta^2$  = eta squared effect size.

paternalistic appraisals of the way older adults should be treated in the study ( $F(2,147)=7.214$ ,  $p=0.001$ ,  $\eta^2=0.090$ ). Eta squared showed greater-than-medium effect size (Cohen, 1988) for this result. This did not happen in the control group, where there were no differences across the study ( $F(2,211)=0.081$ ,  $p=0.922$ ).

In the perceived occurrence of paternalistic behavior, neither experimental nor control groups showed differences during the study ( $p > 0.05$ ). Finally, in the intervention group, a medium effect size and significantly higher scores were found for the perceived occurrence of autonomy in their centers during the study ( $F(2,154)=5.575$ ,  $p=0.005$ ;  $\eta^2=0.067$ ), but this did not happen in the control group ( $F(2,211)=2.091$ ,  $p=0.126$ ). Non-significant differences were not found throughout the study in either experimental or control groups regarding autonomist appraisals about how older people should be treated. Therefore, two measures were sensitive to the intervention study: paternalistic appraisal and occurrence of autonomy, and the changes occurred only in the intervention group.

Secondly, we studied whether significant changes occurred at care center level (contextual), with an external observer monitoring whether or not professional or older adult functioning improved. Thus, the effect of our behavioral intervention was examined in the five older adult institutions where the intervention was implemented. Mean scores showed a significant increase in positive personnel functioning at posttest and follow up ( $p=0.009$ ), and in older adult functioning at posttest and follow up ( $p=0.004$ ), measured by MEAP/SERA-RS (see Table 4).

## Discussion

Beyond existing interventions for improving caregiver/patient communication/interactions, the present study is a first attempt to develop a behavioral intervention for the reduction of paternalistic behaviors as well as the promotion of autonomy and independent behaviors in Spanish older adult settings. The main assumptions are that after our behavioral intervention, older adult caregivers would report less paternalistic appraisals regarding methods of care and more autonomist appraisals. This would have the following effects on the older adult institutions where the behavioral program was implemented: firstly, a reduction in the observed occurrence of paternalistic behaviors and an increased occurrence of observed autonomist behaviors. Secondly, improvements in professional carer functioning in: 1) their interactions with older adults (quality of

**Table 4** Means differences in older adult functioning and personnel functioning in five institutions

		Pre	Post	Follow up	F	p-value
Experimental	Personnel functioning	2.45±0.32	2.88±0.27	3.00±0.00	7.189	0.009
	Older adults functioning	1.72±0.52	2.16±0.33	2.36±0.26	3.589	0.004

interaction, physical contact and caregiver availability for residents) 2) improvements in the organization of the care setting; and 3) a reduction in caregiver conflict. And finally, improvements in older adult functioning in: 1) their interactions with other older adults (older adult interaction, verbal exchanges), 2) general activity level, 3) personal grooming and 4) condition of clothing.

As expected, the data collected show differences in caregivers' paternalistic appraisal following behavioral intervention ( $p=0.035$ ). A post hoc explanation may be that caregivers who followed the intervention learned to better identify older adult needs and focus more on what the person could do, rather than on his/her disabilities. As Crandall highlighted,<sup>17</sup> autonomist care requires caregivers to plan with the older adults, "determining the perspective of the person receiving care", and "to provide that assistance in such a way that clients are honored and valued and are not lost in the tasks of caregiving" (p. 48). As Fernández-Ballesteros et al<sup>72</sup> emphasize, formal caregivers must adapt their care behaviors to the older adult's level of functioning; thus the level of autonomy promotion will depend on the older adult's resources and will be adapted to each patient, and in the case of dementia, to the stage and level of autonomy the older adult still has.

Furthermore, members of the experimental groups showed an improvement of promoting autonomy behaviors in the care setting ( $p\leq 0.001$ ). Hence, paternalistic self-monitoring tended ( $p=0.084$ ) to lead to reduced paternalistic behaviors. Our results show that although the intervention reduced paternalistic appraisal, paternalistic behaviors seemed to be more difficult to change. In a systematic review and meta-analysis of interventions to reduce ageism against older people (in the form of negative stereotypes, prejudice, and discrimination), Burnes et al<sup>73</sup> have shown that these interventions had a strong effect on attitudes but not on how people worked with older adults.

We did not find differences in promoting autonomy appraisals and observed paternalistic behaviors mainly because there were significant differences at the pre-test phase between both groups (experimental vs control), showing higher agreement with autonomy behaviors ( $p=0.006$ )

and lower rates of paternalistic behaviors observed ( $p=0.043$ ) in caregivers who followed the intervention. A possible reason may be that most participants already held positive appraisals of autonomy and this might have had a strong influence to self-select into the intervention group.

Weiner and Ronch<sup>74</sup> described the culture change movement of long-term care to more autonomist as a process of making "long-term care less about care tasks and more about caring for people and the relationships between people" (p.13). Regarding the contextual analysis for evaluating the potential effects of our behavioral intervention on both caregiver and older adult functioning (assessed by the MEAP/SERA-RS), as hypothesized, there is an improvement in personnel functioning ( $p=0.009$ ) and in older adult functioning ( $p=0.004$ ) after the behavioral intervention. It seems that better professional caregiver functioning (less paternalistic and more autonomist care behaviors) influences older adult functioning and may promote older adult independence.

When caregivers reduce their paternalistic behavior, residents' choice, autonomy and independence are enhanced; our assumption is that these interactions between older adults and staff increases social interaction between residents, verbal exchanges and general activity level, thereby improving older adult functioning. In this regard, previous studies have shown that types of caregiving behavior may exert a substantial impact on older adult functioning,<sup>3,17,18,74</sup> and several studies have even shown that person-centered care was associated with improvements in staff ability to provide high-quality individualized care,<sup>5,38</sup> with lower dependency<sup>75</sup> and with increased resident autonomy.<sup>76</sup>

In this regard, the intervention programs of Kihlgren et al<sup>77-79</sup> resulted in positive effects on residents and increased interactions between residents and staff, and even increased the staff's understanding of dementia residents, becoming more sensitive to older adults needs.

Salas et al<sup>80,81</sup> indicated that team training had a positive effect on team functioning, providing better care to patients, although the authors highlighted the importance of including opportunities for active learning, modeling, and practice.



From this preliminary study, four main methodological limitations can be described: 1) high attrition at post-test, which was resolved in the follow-up; 2) the lack of a control group in the context design; 3) sample size might also be a limitation - further interventions involving larger samples are thus required; 4) the lack of change in perceived occurrence of paternalistic behavior in the experimental condition, which may reflect in part a need for more robust training to change behaviors and develop requisite skills, beyond merely attitudinal change, 5) the sensitivity of the measures might not be suitable for identifying changes - thus selecting more sensitive measures would be recommended; and 6) caregivers in the intervention group might already have held positive appraisals of autonomy, which might have led to substantial self-selection into the intervention group.

Since the type of formal care has important implications for both older adults and professionals, further research is needed to develop interventions aimed at promoting autonomist care.

## Conclusion

The current findings suggest that the behavioral intervention designed is effective for reducing paternalistic appraisals and their occurrence as assessed by the PACA in those caregivers who follow the intervention in the setting, although we did not find significant differences in autonomy occurrence compared with the control group. A behavioral intervention may promote more autonomist environments and, therefore, better personnel and older adult functioning.

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## Disclosure

The authors report no conflicts of interest in this work.

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