Social skills and well-being among family caregivers to patients with Alzheimer's disease

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Abstract

Background: Caring for a demented relative is frequently associated with burden; yet, a subset of family caregivers may experience it as rewarding. Certain characteristics, including personality factors, may render caregivers more resilient to stress and therefore attenuate the perception of burden and its impact on quality of life. **Objective**: To determine the association between social skills and well being among family caregivers to patients with dementia. **Methods**: Forty-one family caregivers to patients with dementia due to Alzheimer's disease (AD) were assessed with Social Skills Inventory (SSI-Del-Prette) and the Zarit Burden Interview; quality of life was estimated with WHO-QoL-*bref* questionnaire. **Results**: We found positive correlations between total SSI scores and the psychological (r = 0.450; p = 0.003) and environmental (r = 0.408; p = 0.008) domains of WHO-QoL-*bref*. The SSI factor 'self-control of aggressiveness' (SSI-F5) was negatively correlated with the magnitude of caregiver burden (r = -0.483; p = 0.001) and positively associated with the psychological domain of WHO-QoL-*bref* (r = 0.446; p = 0.003). Caregivers with better 'self-assertion in the expression of positive affect' (SSI-F2) also had better 'social relationships' according to WHO-QoL-*bref* (r = 0.402; p = 0.009). **Discussion**: The availability of more sophisticated repertoires of social skills may render family caregivers more resilient to burden, preserving their quality of life while enduring this task.

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Introduction

About 80% of the amount of care required by demented patients, particularly those with Alzheimer's disease (AD), is provided by persons from their own households¹. In families, the role of primary caregiver tends to be assigned (often involuntarily) to the spouse or children of the patient^{1,2}. Given the highly demanding nature of this role, family caregivers may be overwhelmed by the responsibilities associated with their caring routine, which often precludes their availability to spend time at work, leisure, etc. Therefore, they are prone to experience emotional and physical distress, and often develop burnout syndromes and other stress-related physical and psychological disorders¹. Furthermore, cut back hours from work (in addition to caregiving being an unpaid job) usually imply financial difficulties to these individuals^{3,4}.

Yet, caring for a loved one can be a very rewarding experience, at least for a subset of caregivers³. Such positive attitude may rely on the availability of adequate material assets and good coping abilities – which ultimately depends on the caregiver's emotional state and personality characteristics^{1,3,4}.

Given that the psychological state of the caregivers affects patient's well being4, it is important to examine the variables that influence caregiver's ability to care for a demented person, to deal with pressure, and to manage all the resources required to handle the demands of this task. Here we hypothesize that caregivers' social skills compose the range of key abilities that might be determinant of a good or poor adaptation to this complex role.

Social Skills are related to the competence by which an individual understands its own emotions in order to discern them and use them to guide its own behavior – thus forming a real and true view of itself, and to the competence used by an individual to understand the other, recognizing other's "emotions, moods, temperaments, motivations and intentions", assuring more effective social interactions⁵.

Objectives

We aimed to investigate whether there is a correlation between objective measures of social skills and self-reported levels of burden and quality of life among family caregivers of AD patients.

Methods

The study was conducted at the psychogeriatric clinic of a tertiary hospital in Sao Paulo, Brazil (Institute of Psychiatry, University of Sao Paulo). It was designed to recruit and assess a representative sample of family caregivers to patients with dementia due to AD. The latter were regular outpatients attending this service, subsuming the provision of appropriate diagnosis and treatment by the hospital staff. Caregiver eligibility was defined by the following inclusion criteria: (a) not being paid for to provide care to a patient with AD; (b) being the only or main person to undertake this role; (c) having kinship with the patient; and (d) not having previous history of major psychiatric disorders prior to the diagnosis of dementia in the family member (particularly mood, anxiety, psychotic, and substance userelated disorders). We approached all the eligible family caregivers to AD patients in the clinic between January and December 2014. All participants signed an informed consent and the study was approved by the local Ethics Committee (CAPPesq). The sample was composed by 41 adults (mean age 61.09 years, ranging from 40 to 80, and predominantly 50-60 years of age), mostly women (87.8%; n = 36) with medium to higher education level ('complete high school' or 'complete higher education' were respectively 34.14% and 46.34%). Caregivers were generally children (56.09%; n = 23) or spouses of patients (34.14%; n = 14). The majority of the respondents was married (53.65%; n = 22), lived in the same household as the patient (90.24%; n = 37) and did not have other occupations (65.85%; n = 27). The reported family income in Brazilian Real was equivalent

to \$250 to \$1,500 US dollars per month (mean \$750). Caregivers had already performed this task for a mean period of 4.8 years before assessment (ranging from 1 to 7 years), and the average amount of time spent daily in activities related to care was approximately 16 hours. Approximately half of the participants received instrumental help to care.

Participants were interviewed by a trained researcher (F.A.A.). The Social Skills Inventory (SSI-Del-Prette)⁶ was used to assess caregivers' repertoires of social skills. The SSI-Del-Prette is one of the most used instruments in Brazil to assess social skills, with valid internal consistency, stability and reliability⁷. The total score may be subdivided into five factors: F1, coping and self-assertion with risk; F2, self-assertion in the expression of positive affect; F3, conversation and social confidence; F4, self-exposure to unknown people and new situations; and F5, self-control of aggressiveness⁶.

Caregivers' well being was assessed through their perceptions about quality of life (QoL) and burden. QoL may be defined as an individual's perception of their position in life in the context of culture and value systems in which they live and in relation to their goals, expectations, standards and concerns⁸. QoL was estimated by the Brazilian Portuguese version of WHO-QoL-bref⁹, an instrument developed by the World Health Organization with 26 items divided into four domains: physical, psychological, social relationships and environment. The calculation and correction of scores were made according to Pedroso *et al.* ¹⁰.

Caregiver burden was assessed through the Brazilian version of Zarit Burden Interview (ZBI)^{11,12}. It covers the relationship between caregiver and patient, caregiver health conditions, psychological well-being, financial condition and interpersonal relationships⁴. Total scores (0-88) are obtained by the sum of the scores in each item (0-4) of the test.

Pearson's correlations were used to determine the association between variables, namely well-being parameters (QoL and burden) and social skill repertoires. The strength of the correlations were defined according to Ricardo *et al.*¹³, i.e., strong, moderate and weak correlations defined by Pearson's test values of 0.7-1.0, 0.3-0.7 and 0-0.3 respectively. Student's t tests were used to compare means of normally distributed numeric variables, and the statistical significance was set at 5%. The SPSS software (IBM) was used for the statistical analysis.

Results

Table 1 shows positive moderate correlations between the total score of SSI-Del-Prette and: a) the total score of WHO-QoL-bref (r = 0.397; p = 0.01); b) the psychological domain of WHO-QoL-bref (r = 0.450; p = 0.003); c) the environmental domain of WHO-QoL-bref (r = 0.408; p = 0.008).

With respect to the distinct factor of the SSI-Del-Prette schedule, we also found a moderate positive correlation between Factor 2 ('self-assertion in the expression of positive affect') and several items of the WHO-QoL-bref, i.e.: total score (r=0.363; p=0.02); psychological domain (r=0.351; p=0.024); social relations domain (r=0.402; p=0.009); environmental domain (r=0.308; p=0,05). The latter domain was also moderately correlated with Factor 3 of SSI-Del-Prette ('conversation and social confidence') (r=0.321; p=0.041).

Caregiver burden was negatively correlated with 'self-control of aggressiveness' (Factor 5 of SSI-Del-Prette) (r = -0.483; p = 0.001). Conversely, the score in this factor was positively correlated with the total score in the WHO-QoL-bref (r = 0.353; p = 0.024) and the sub-score in its psychological domain (r = 0.446; p = 0.003).

Table 1. Pearson correlation coefficients between SSI-Del-Prette scores and a) burden (ZBI) and b) QoL (WHOQOL-bref) (N = 41)

		Total score SSI-Del-Prette	SSI F1	SSI F2	SSI F3	SSI F4	SSI F5
Burden score	Pearson correlation coefficients	206	.026	109	206	080	483
	Sig. (two-tailed)	.197	.870	.497	.197	.617	.001
	N	41	41	41	41	41	41
WH0Q0L-bref: total score	Pearson correlation coefficients	.397	.186	.363	.203	.196	.353
	Sig. (two-tailed)	.010	.244	.020	.203	.220	.024
	N	41	41	41	41	41	41
WHOQOL-bref: physical domain	Pearson correlation coefficients	.243	.095	.203	.084	.093	.210
	Sig. (two-tailed)	.127	.554	.204	.601	.561	.187
	N	41	41	41	41	41	41
WHOQOL-bref: psychological domain	Pearson correlation coefficients	.450	.248	.351	.251	.273	.446
	Sig. (two-tailed)	.003	.118	.024	.113	.084	.003
	N	41	41	41	41	41	41
WHOQOL-bref: social relations	Pearson correlation coefficients	.239	.081	.402	.086	.035	.269
	Sig. (two-tailed)	.132	.615	.009	.593	.830	.089
	N	41	41	41	41	41	41
WH0QOL-bref: environment	Pearson correlation coefficients	.408	.188	.308	.321	.222	.241
	Sig. (two-tailed)	.008	.240	.050	.041	.162	.129
	N	41	41	41	41	41	41

SSI: Social Skills Inventory; F1: coping and self-assertion with risk; F2: self-assertion in the expression of positive affect; F3: conversation and social confidence; F4: self-exposure to unknown people and new situations; F5: self-control of aggressiveness.

Discussion

Our results show that family caregivers who have more elaborate repertoire of social skills tend to have a better quality of life and experience less burden. Factors 2 and 5 of the SSI-Del-Prette schedule are probably the ones that most contribute to the strength of these associations, due to the larger number of significant correlations observed between the scores in those two factors and the ZBI and WHO-QoL-bref scores. We hypothesize that self-assertion in the expression of positive affects (factor 2) and self-control of aggressiveness (factor 5) are skills that enable the caregiver to better cope with caregiving stress – without accumulating negative feelings - and, therefore, may help them experience a lesser degree of suffering while enduring this task. Nonetheless, it should be noted that depressive and anxiety symptoms decrease quality of life; these are very prevalent symptoms among caregivers, and may further modify their perception of burden and of his/her own personal skills. In addition, caregivers with better social skills may be more resilient against depressive/anxiety symptoms and therefore experience less burden and better quality of life.

The predominance of female caregivers reinforces the fact that there is a cultural conception of care while female function^{1,3}. Moreover, ages ranged as described in the literature – caregivers are largely elderly. The fact that many did not have a formal employment is also in line with previous studies^{4,14,15}, and may be associated with full time dedication of these individuals to their relatives. The only data that differed from the typical caregiver profile⁴ were 'income' and 'education' (both were on average higher than what is reported in the literature).

We acknowledge the methodological limitations of our study but also its strengths: the sample size was relatively large and homogeneous. Besides, our findings are coherent and aligned with our working hypothesis. Given the limited information in this field, we believe that this study represents a relevant contribution for further research addressing variables that affect caregivers' wellbeing. The present set of data suggesting an association between social skills and caregiver's burden should be explored in larger and controlled studies, particularly taking into account the interaction of the former scores with those indicative of mental state changes, especially due to depression and anxiety. If replicated in larger samples and independent test groups, the present findings may indicate a possibility for interventional studies in family caregivers, aiming to enhance their social skills, improve their health and quality of care.

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