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-FS) 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’ (r = 0.450; p = 0.003). 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.

Keywords: Dementia, Alzheimer’s disease, caregiver, burden, social skills.
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) 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 reliability. 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 aggressiveness.

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 concerns. QoL was estimated by the Brazilian Portuguese version of WHO-QoL-bref, 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. 11,12. Caregiver burden was assessed through the Brazilian version of Zarit Burden Interview (ZBI) 13. It covers the relationship between caregiver and patient, caregiver health conditions, psychological wellbeing, financial condition and interpersonal relationships. 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., 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)

| Burden score | Pearson correlation coefficients | Sig. (two-tailed) | N | WHOQOL-bref: total score | Pearson correlation coefficients | Sig. (two-tailed) | N | WHOQOL-bref: physical domain | Pearson correlation coefficients | Sig. (two-tailed) | N | WHOQOL-bref: psychological domain | Pearson correlation coefficients | Sig. (two-tailed) | N | WHOQOL-bref: social relations | Pearson correlation coefficients | Sig. (two-tailed) | N | WHOQOL-bref: environment | Pearson correlation coefficients | Sig. (two-tailed) | N |
|--------------|--------------------------------|------------------|----|-------------------------|--------------------------------|------------------|----|-----------------------------|--------------------------------|------------------|----|-----------------------------|--------------------------------|------------------|----|-----------------------------|--------------------------------|------------------|----|-----------------------------|--------------------------------|------------------|----|-----------------------------|--------------------------------|------------------|----|
| SSI-F1       | -0.208                         | .197             | 41 | -0.109                  | -0.197                        | 0.617            | 41 | 0.321                       | 0.188                          | 0.084            | 41 | -0.248                       | -0.248                        | 0.450            | 41 | -0.239                       | -0.239                        | 0.088            | 41 | -0.088                       | -0.088                        | 0.240            | 41 |
| SSI-F2       | 0.026                          | 0.707            | 41 | 0.497                   | 0.197                        | 0.617            | 41 | 0.363                       | 0.188                          | 0.084            | 41 | -0.248                       | -0.248                        | 0.450            | 41 | -0.239                       | -0.239                        | 0.088            | 41 | -0.088                       | -0.088                        | 0.240            | 41 |
| SSI-F3       | -0.206                         | -0.197           | 41 | 0.617                   | -0.197                      | 0.617            | 41 | 0.363                       | 0.188                          | 0.084            | 41 | -0.248                       | -0.248                        | 0.450            | 41 | -0.239                       | -0.239                        | 0.088            | 41 | -0.088                       | -0.088                        | 0.240            | 41 |
| SSI-F4       | -0.080                         | -0.197           | 41 | 0.617                   | -0.197                      | 0.617            | 41 | 0.363                       | 0.188                          | 0.084            | 41 | -0.248                       | -0.248                        | 0.450            | 41 | -0.239                       | -0.239                        | 0.088            | 41 | -0.088                       | -0.088                        | 0.240            | 41 |
| SSI-F5       | -0.483                         | -0.197           | 41 | 0.617                   | -0.197                      | 0.617            | 41 | 0.363                       | 0.188                          | 0.084            | 41 | -0.248                       | -0.248                        | 0.450            | 41 | -0.239                       | -0.239                        | 0.088            | 41 | -0.088                       | -0.088                        | 0.240            | 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 function10-13. 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 studies14,15, and may be associated with full time dedication of these individuals to their relatives. The only data that differed from the typical caregiver profile16 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 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’ well-being. 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.

References

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