

Hidden patients of Alzheimer's disease: an integrative review of occupational therapy assessment with caregivers

Pacientes ocultos da demência de Alzheimer: uma revisão integrativa sobre a avaliação da terapia ocupacional com os cuidadores

Pacientes ocultos de la enfermedad de Alzheimer: una revisión integrativa sobre la evaluación de la terapia ocupacional con los cuidadores

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Lilian Dias Bernardo¹

The purpose of this article was to identify and analyze the scientific literature on the evaluation process of caregivers of elderly people with Alzheimer's dementia promoted by occupational therapists. We carried out an integrative review, considering the period from 2006 to 2016, in English, Portuguese and Spanish with the keywords: "caregivers" combined with "Alzheimer's disease", "occupational therapy", and "evaluation". Information sources considered were: Scopus, Web of Science, MEDLINE/PubMed, CINAHL, PsycINFO ®, LILACS, SciELO, OTseeker and PEDro. 16 were identified. The results show that the articles were intended to identify caregivers' perceptions about caregiving and about the services the elderly receive, the difficulties faced in daily life, on the quality of life, the strategies adopted and/or the needs to perform the task of care. The findings bring contributions to the development of therapeutic interventions to establish occupational supports for caregivers.

Descriptors: Occupational therapy; Alzheimer's disease; Elderly; Caregivers.

O objetivo deste artigo foi identificar e analisar a produção científica sobre o processo de avaliação dos cuidadores de idosos com demência de Alzheimer promovidos pelos terapeutas ocupacionais. Foi realizada a revisão integrativa, considerando o período de 2006 a 2016, nos idiomas inglês, português e espanhol e, com os descritores: "cuidadores" combinados com "doença de Alzheimer", "terapia ocupacional" e, "avaliação". As fontes de informação consideradas foram: Scopus, Web of Science, MEDLINE/PubMed, CINAHL, PsycINFO®, LILACS, SciELO, OTseeker e PEDro. Foram identificados 16. Os resultados mostram que os artigos eram voltados para identificar as percepções dos cuidadores sobre o cuidar e sobre os serviços que os idosos recebem, as dificuldades enfrentadas no dia-a-dia, sobre a qualidade de vida, as estratégias adotadas e/ou as necessidades para desempenhar a tarefa do cuidado. Os achados trazem contribuições para a elaboração de intervenções terapêuticas ocupacionais direcionadas ao estabelecimento de suportes para os cuidadores.

Descritores: Terapia ocupacional; Doença de Alzheimer; Idoso; Cuidadores.

El objetivo de este artículo fue identificar y analizar la producción científica sobre el proceso de evaluación de los cuidadores de ancianos con demencia de Alzheimer promovidos por los terapeutas ocupacionales. Fue realizada una revisión integrativa, considerando el período de 2006 a 2016, em los idiomas inglés, portugués y español y, con los descriptores: "cuidadores" combinados con "enfermedad de Alzheimer", "terapia ocupacional" y, "evaluación". Las fuentes de información consideradas fueron: Scopus, Web of Science, MEDLINE/PubMed, CINAHL, PsycINFO®, LILACS, SciELO, OTseeker y PEDro. Fueron identificados 16. Los resultados muestran que los artículos buscaban identificar las percepciones de los cuidadores sobre el cuidar y sobre los servicios que los ancianos reciben, las dificultades enfrentadas en el día a día, sobre la calidad de vida, las estrategias adoptadas y/o las necesidades para desempeñar la tarea de cuidado. Los descubrimientos traen contribuciones para la elaboración de intervenciones terapéuticas ocupacionales dirigidas a establecer soportes para los cuidadores.

Descriptores: Terapia ocupacional; Enfermedad de Alzheimer; Anciano; Cuidadores.

^{1.} Occupational Therapist. Master in Public Health. PhD in Collective Health. Professor in the Undergraduate Program in Ocupational Therapy at Universidade Federal do Paraná, PR, Brazil. E-mail: lilian.dias@gmail.com ORCID: 0000-0001-5234-4225

INTRODUCTION

lzheimer's dementia (AD)-most prevalent in the elderly is, from 2012, • one of the public health priorities¹, for the impact that triggers in the lives of the person affected and their families, in their relations with the society and the health system².

Sick elderly people present gradually dependency on activities, from the most complex to the simplest, due to cognitive and behavioral changes specific of this disease³. This fact denotes the need for caregiver assistance and/or to perform tasks for the elderlv⁴.

The process of care can occur between family members, professionals and/or health institutions or social protection⁵. Their care in the family is more adopted by most of the families that have an elderly with dementia^{6,7}, so this role is assumed, almost exclusively, by feminine relatives⁸.

By assuming the role of caregiver, there is a need to reorganize the routine of those who give and who get care and establish, daily, the priorities of each other.

This organization will consider the time when the elderly needs care, the caregiver's own interest activities, the need for changes in the caregiver's family dynamics, the network of support that the caregiver provides, the needs of changes in physical environment, the requirement to give up paid work and the difficulties to perform certain activities for the sick elderly⁹⁻¹².

The need to provide uninterrupted care, plan the future, deal with stress and conflict, administer medicines, financial and legal support, and manage behavioral inadequate situations, are situations that will be part of the daily life of the caregiver, which may affect their quality of life¹².

Responsibilities increase with the development of the disease, which increases the caregiver's emotional distress work^{13,14}.

Although this care is of great benefit for the elderly with dementia, it can affect their family social interactions, their physical and/or psychic health, their finances and quality of life¹⁴⁻¹⁶.

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In front of the needs and challenges of care. several types of feelings -often ambivalentemerge in this daily relationship¹⁷. In situations where the presence of negative feelings outweighs the positives, the caregiver needs to look for help or change the way they are offering care.

In the context of health actors that can intervene with AD patients, the occupational therapist is one of the professionals who understand the Alzheimer's type dementia as a family disease, which affects not only the patient but their surroundings, considers such caregivers as: patients" of Alzheimer's disease.

Thus, it is important to train the caregiver to manage the stress¹⁸, offer strategies for dealing with the behavioral changes of the elderly with dementia¹⁹, and try to reduce the comorbidities that affect the familv²⁰.

In this panorama, the aim of this article was to identify and analyze the scientific literature on the evaluation process of the caregivers of elderly with Alzheimer's dementia promoted by occupational therapists.

METHOD

It is an integrative review²¹, in which the corpus of the study consists of the national and international scientific production that shed light on the evaluation process with the caregivers.

The guiding question for the research was: which aspects related to the caregiver of Alzheimer's elderly with Occupational Therapy (OT) worries about? Do the purposes of this evaluation process favor the development of a network of social support to such families?

The timeframe considered from January 2006 to January 2016, and the searches were conducted in February and March 2016.

The selected information sources Scopus, Web of Science. were: MEDLINE/PubMed (via National Library of Medicine), Cumulative Index to Nursing and Health Literature (CINAHL). PsycINFO®, Latin-American and Caribbean Literature in Health Sciences (LILACS), Scientific Electronic Library on Line (SciELO), Occupational Therapy Systematic Evaluation of Evidence (OTseeker) and Physiotherapy Evidence Database (PEDro).

Regardless the free access to the publications, we considered as inclusion criteria, the papers that addressed: 1) AD in elderly people; 2) the participation of occupational therapist as an author; 3) focus on evaluations with caregivers; and, 4) Portuguese, English and Spanish languages. As exclusion criteria, we discarded: 1) literature review; 2) AD in people younger than 60 years old; and, 3) congress abstracts,

annals, editorials and previous notes.

The descriptors considered were: "caregivers" combined with "Alzheimer's disease", "Occupational Therapy", "evaluation" and their expressions in English and in Spanish, with the Boolean operators AND and OR.

RESULTS

The details about sources of information, descriptors and results are in Table 1. The documents were exported to online software EndNote ® Web to storage and organize them, for the selection process of the research corpus and they are in Figure 1.

Table 1. Sources of information, search expressions and results of the identified documents. March 2016

Sources of information	Search expressions	Results				
	("occupational therapy" OR "Occupational therapy/methods") AND					
CINAHL with Full Text	("Alzheimer" OR "Alzheimer disease" OR "Alzheimer's disease")					
(EBSCO)	AND ("caregivers")	27				
	AND ("assessment" OR "evaluation")	32				
LILACS	"Alzheimer" [Palavras] and "occupational therapy" [Palavras] OR					
LILACS	"caregivers" [Palavras] and "Alzheimer disease" [Palavras]	132				
	(("occupational therapy"[All Fields] OR "Occupational					
MEDLINE/	therapy/methods"[All Fields]) AND ("Alzheimer"[All Fields] OR					
PubMed (via National	"Alzheimer disease"[All Fields] OR "Alzheimer's disease"[All Fields]))					
Library of Medicine)	AND "caregivers"[All Fields]	47				
	AND ("assessment"[All Fields] OR "evaluation"[All Fields])	47				
	("occupational therapy" OR "Occupational therapy/methods") AND	63				
	("Alzheimer" OR "Alzheimer disease" OR "Alzheimer's disease")					
OTseeker	AND ("CAREGIVERS")	04				
	AND ("assessment" OR "evaluation")	04				
	Any Field: "occupational therapy" OR "Occupational	UT				
	therapy/methods" AND Any Field: "Alzheimer" OR "Alzheimer disease"					
PsycINF0	OR "Alzheimer's disease"					
1 Sychiti O	AND Any Field: "caregivers"	67				
	AND Any Field: "assessment" OR "evaluation"					
PEDro	"Alzheimer" OR "dementia"	105 31				
	Tópico: (occupational therapy) AND Tópico: (Alzheimer disease) OR	01				
Scielo	Tópico: (CAREGIVERS) ANDTópico: (Alzheimer disease)	94				
	TITLE-ABS-KEY ("Occupational Therapy" OR "Occupational					
	therapy/methods") AND TITLE-ABS-KEY ("Alzheimer" OR "Alzheimer					
Scopus	disease" OR "Alzheimer's disease")					
-	AND TITLE-ABS-KEY ("CAREGIVERS")	75				
	AND TITLE-ABS-KEY ("assessment" OR "evaluation")	79				
	Tópico:("occupational therapy" OR "Occupational					
	therapy/methods") AND Tópico: ("Alzheimer" OR "Alzheimer disease" OR					
Web of Science	"Alzheimer's disease")					
	AND Tópico: ("CAREGIVERS")	25				
	AND Tópico: ("assessment" OR "evaluation")	23				
	Total articles searched	809				

PsycINFO: 172 CINAHL:59 Total de artigos PEDro: 31 LILACS:132 identificados: Scielo: 95 PubMed:110 809 Scopus: 154 OTseeker: 08 Web of Science: 48 Duplicados: 384 Seleção por títulos, autoria e resumos: 425 Atenderam aos Excluídos: critérios de inclusão: 279 146

Seleção por texto completo: 146

Figura 1 - Selection flow and results of identified documents. March 2016.

The total number of documents identified in the first analysis was 146. After fully reading the selected articles, 16 responded to the entire selection process. Of 130 articles deleted in the second phase, 28 were eliminated because of the methodology used; 63 were publications that did not involve the caregiver or did not present the evaluative part; 30 did not focused in the elderly with the and/or the OT; 05 articles were not in the languages of the selection criteria and 04 did not present the full article.

Excluídos:

130

Subsequently, the articles were submitted to thematic categorization.

The articles are presented in Table 2, according title, authorship, year of

publication, location and journals in which they were published.

Amostra final:

Atenderam aos

critérios de

inclusão: 16

Most publications were made in the years 2010 to 2015, 04 articles each year. Most of the articles had the Occupational Therapist (OT) as main author (n=14). Four articles are national. Of the 16 journals used in publications, only 06 are specific to the area of Occupational Therapy.

In turn, the analysis of publications is presented in table 3. The articles focus was to identify the perceptions of caregivers about the care and services that the elderly receives, the difficulties faced in day-to-day with the elderly, about the quality of life, the strategies adopted and/or the needs to perform the task of care.

Table 2- Corpus of the research according to title, year, authors, periodicals and country. March 2016.

Νº	Title	Year	Authors	Journals	Country of the Study
01	Living with a person with Alzheimer's disease: Experiences related to everyday occupations	2006	PERSSON, M.; ZINGMARK, K. ²²	Scandinavian Journal of Occupational Therapy	Sweden
02	Relationship between perceived burden of caring for a family member with Alzheimer's disease and decreased participation in meaningful activities	2009	HWANG, J.L.E. et al. ²³	Occupational Therapy in Health Care	USA
03	Perception of the quality of life of the elderly with dementia and their family caregiver: evaluation and correlation.	2009	INOUYE, K. et al. ²⁴	Revista Latino- Americana de Enfermagem	Brazil
04	Caregivers of elderly with dementia: socio-demographic profile and daily impact	2010	NOVELLI, M.M.P.C.; NITRINI, R.;	Revista de Terapia Ocupacional da USP	Brazil

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The influence of neuropsychiatry and functional changes on quality of life in Alzheimer's disease	2010	NOVELLI, M.M.P.C.; CARAMELLI, P. ²⁵	Dementia & Neuropsychologia	Brazil
patient and caregivers' report	2010	INOUYE, K. et al. ²⁶	Revista Latino- Americana de Enfermagem	Brazil
motivating persons with dementia to engage in occupation: Qualitative findings	2010	RABER, C.; WATTS, J. ²⁷	Physical & OT in Geriatrics	USA
technologies: Assessing the needs of older adults with dementia and their caregivers	2011	CZARNUCH, S.; MIHAILIDIS, A. ²⁸	Gerontechnology	Canada
Effects of cognitive function and depressive mood on the quality of life in Chinese Alzheimer's disease patients in Hong Kong	2011	CHAN, I.W.P. et al. ²⁹	Geriatrics & Gerontology International	Hong Kong
Quantitative analysis of formal caregivers use of communication strategies while assisting individuals with moderate and severe Alzheimer's disease during oral care	2013	WILSON, R. et al. ³⁰	Journal of Communication Disorders	Canada
Indicators of perceived useful dementia care assistive technology: caregiver's perspectives	2014	MAO, HF. et al. ³¹	Geriatrics and Gerontology International	Republic of China: Taiwan
Distance caregivers of people with Alzheimer's disease and related dementia: A phenomenological study	2014	EDWARDS, M. ³²	British Journal of Occupational Therapy	USA
Anxiety in family caregivers of hospitalized persons with dementia	2015	BOLTZ, M. et al. ³³	Alzheimer Disease Association Disorders	USA
Exploring the need for a new UK occupational therapy intervention for people with dementia and family caregivers: community occupational in Dementia (COTiD)	2015	HYNES, S.M. et al. ³⁴	Aging and Mental Health	United Kingdom
Spousal caregiver perspectives on a person-centered social program for partners with dementia	2015	HAN, A.; RADEL, J. ³⁵	American Journal of Alzheimer's Disease & other dementias	USA
Family caregivers for people with dementia and the role of occupational therapy	2015	EDWARDS, M. ³⁶	Physical & Occupational Therapy in Geriatrics	USA
	Quality of life of the elderly with Alzheimer's disease: comparative study of patient and caregivers' report The power of the social environment in motivating persons with dementia to engage in occupation: Qualitative findings The design of intelligent in-home assistive technologies: Assessing the needs of older adults with dementia and their caregivers Effects of cognitive function and depressive mood on the quality of life in Chinese Alzheimer's disease patients in Hong Kong Quantitative analysis of formal caregivers use of communication strategies while assisting individuals with moderate and severe Alzheimer's disease during oral care Indicators of perceived useful dementia care assistive technology: caregiver's perspectives Distance caregivers of people with Alzheimer's disease and related dementia: A phenomenological study Anxiety in family caregivers of hospitalized persons with dementia Exploring the need for a new UK occupational therapy intervention for people with dementia and family caregivers: community occupational in Dementia (COTiD) Spousal caregiver perspectives on a person-centered social program for partners with dementia	functional changes on quality of life in Alzheimer's disease Quality of life of the elderly with Alzheimer's disease: comparative study of patient and caregivers' report The power of the social environment in motivating persons with dementia to engage in occupation: Qualitative findings The design of intelligent in-home assistive technologies: Assessing the needs of older adults with dementia and their caregivers Effects of cognitive function and depressive mood on the quality of life in Chinese Alzheimer's disease patients in Hong Kong Quantitative analysis of formal caregivers use of communication strategies while assisting individuals with moderate and severe Alzheimer's disease during oral care Indicators of perceived useful dementia care assistive technology: caregiver's perspectives Distance caregivers of people with 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Table 3. Occupational therapeutic evaluation process aimed at elderly people. March 2016.

N o	AUTHO RS	OBJECTIV S	METHODOLO GICAL DESIGN	OUTCOMES	LIMITATIONS OF THE STUDY
0 1	PERSSO N; ZINGM ARK, 2006 ²²	To describe how wives who take care of their partners with AD theirs perceive their lives.	Qualitative Research. Participants: 8 wives Data collection: Individual narrative interviews	 Lead to a life of adjustments in planning, organization and performance of the routine The support of colleagues, neighbors and relatives is of great value. They perceive joy, dignity when they help the demented. The importance of doing things without the patient works as a space t o breathe and rest, relax and break the routine. The changes in the elderly's personality generate feelings of loss, distress, abandonment and loneliness in the caregivers. 	Small sample The subjectivity of the researcher is part of the process of the results interpretation

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0 2	HWAN G et al., 2009 ²³	To investigate , between family caregivers of people with DA, the correlation between caring and participati on in activities.	Cross-descriptive study. Participants: 54 caregivers. Data collection: The questionnaire with perception of the workload, participation in significant activities, personal/dem ographic data	1) The least impacted area: selfcare 2) Increased workload reduces caregiver engagement in meaningful activities. 3) care load associated with the reduction of opportunities, restriction of personal time and freedom and lack of supports network.	Questionnaire wi thout validity and reliability. Small sample It is not known the stage of the disease
0 3	INOUYE et al., 2009 ²⁴	To assess the perception of quality of life of the elderly with dementia and their family caregiver and identify correlation s	Study: Descrip tive Explorato ry, transversal Participants: 53 elderlies and 53 caregivers Data collectio n: Quality of lif e evaluation sc ale in Alzheim er's	1) Perception of the quality of life: Caregivers find more satisfaction in social relationships. 2) All caregivers considered their families as good or excellent, with good marriage and friendship. 3) Caregivers show dissatisfaction with their financial situation, health and general life.	Not present
0 4	NOVEL LI; NITRIN I; CARAM ELLI, 2010 ¹¹	To know the demograp hic profile of caregivers of elderly with AD. Identify difficulty in the daily ta sk of care.	Cross-descriptive stu dy. Participants: 50 caregivers/fa mily of 2 outpatient clinics Data collectio n: Evaluation c reated based o n the objectives	3) 75,6% dos cuidadores relatam sentimentos negativos, com índice maior na fase inicial da doença (fase da adaptação). 1) The network of supporters is formed by family members, women (culture), who are aging. The knowledge of the disease is restricted to medical information (early stage), brochures and Internet 2) The number of hours spent with care increases with the progression of the disease and the number spent with leisure is reduced. 3) 75.6% of caregivers report negative feelings, greater in the initial phase of the disease (adaptation phase).	Not reported.
0 5	NOVEL LI; CARAM ELLI, 2010 ²⁵	To evaluate the influence of the symptoms of AD in the quality of life (QoL) of patients and caregivers	Type of study: Transversal. Participants: 60 informal caregivers, 60 elderly people with AD. Data Collection: QOL-AD; Physical and Instrumental- Self Maintence Scale; NPI; GDS and CSD	1) QoL in moderate dementia is lower than initial dementia, both for the elderly and the caregiver. 2) There is no correlation between QoL and cognitive damage. Other variables can influence (behavioral change, depression)	The use of transverse drawing (should be longitudinal). Sample size. Only focused on the initial and moderate stage.
0 6	INOUYE et al., 2010 ²⁶	To compare the report of the patient and their family caregiver on the general perception and each dimension of QoL of	Type of study: Descriptive ex ploratory, cros s- sectional, with non- probabilistic s ampling. Participants: 53 elderly people and 53 primary caregivers.	1) "memory" and "you in general" show statistical disparities 2) did not present significant divergence: housing, leisure, physical health, family, marriage, ability to do chores, friends and life 3) family, marriage and housing were overestimated and can be related to the fact that the family member considers themselves good for the elderly. 5) physical health, disposition and ability to do tasks are identical. The other items seem to be underestimated by the relative	Not present

		the elderly with AD	Data collectio n: Quality of lif e evaluation sc ale in Alzheim er's disease		
0 7	TEILEL MAN; RABER; WATTS, 2010 ²⁷	To show whether social environme nt is a potent factor in facilitating the engageme nt of people with AD.	Qualitative res earch. Participants: 02 elderly people with the resident of a support house. Evaluations: Mini- Mental and int erview with st aff and family	1) The social environment is the indicator for engagement in occupations. 2) Caregivers need to be aware that their attitudes and behaviors model the social environment and contribute to motivate the customers to engage in occupations.	Not reported.
0 8	CZARN UCH; MIHAIL IDIS, 2011 ²⁸	To assess which DA challenge elderly people, which are difficult for the caregiver help, what the role of AT and what characteris tics should have	Study: cross-descriptive. Participants: 106 Caregivers Data collectio n: Online ques tionnaire.	1) Caregivers think that elderly people with dementia have partial capacity to complete some basic DA, but not for IDA. 2) Caregivers end most of the DA and ID (it's easy), but dressing, bathing, washing hands, brushing teeth are more challenging to help. 3) The assistive products could reduce caregiver's burden and increase the independence of the elderly, but the design and interfaces should be easy to use.	Sample should be bigger. Focused on caregiver and did not question elderly people with dementia
0 9	CHAN et al., 2011 ²⁹	To investigate the effects of cognitive function and depressive mood on quality of life	Type of study: Transversal. Participants: 111 patients with AD and 65 caregivers. Evaluation: semi structured interview, computed tomography and Cantonese Chinese QOL- AD, GDS, I.	1) There is no difference in QoL-DA between patients and caregivers. 2) Moderate correlation was observed among patients and caregivers, in the fields of physical health, humor, living conditions, family and marital relationship, friendship, me, money and life in general. 3) For caregivers, there is also significant association between QoL-DA and Mini-Mental and patient depression scale and number of chronic caregivers' diseases. 4) The severity of the cognitive damage affects the QoV in the patient's perspective, but not in the caregiver's perspective.	Only outpatients that lived in the community were recruited.
1 0	WILSO N et al., 2013 ³⁰	To examine the communic ation strategies used by formal caregivers while assisting residents with AD (moderate or severe) during tooth brushing.	Study: Observational and transversal. Participants: 13 residents with AD and 15 caregivers. Data collectio n: ADCS-ADL- SIV. Frequency: About 6 brushing/pati ent sessions, for 2 weeks.	1) AD moderate with higher functional capacity than advanced. 2) 85% of communication strategies were focused on the task, 10% in social strategies and 5% in mixed strategies. 3) in the communication strategies with severe AD: use of a proposition in time (a direction, instruction, an idea of the time), use of the name of the resident, encouraging comments, use of repetition paraphrased, use of closed questions. 4) for the moderate AD, the caregivers used: A time proposition, use of closed questions, use of paraphrased repetition and use of 2 propositions and use of verification questions and encouraging comments in that order.	Small Sample. No vision and he aring tests were performed. In addition, reactivity can occur because caregivers can change their typical routine behavior when they are in the presence of a researcher.
1 1	MAO et al., 2014 ³¹	To investigate the perception of caregivers and experts on the usefulness	Study: cross-descriptive. Participants: 75 dyads were evaluated in Phase 1. In phase 02, 7 family caregivers and 14	1) From the experts' perspective, the high utility includes allowing accident prevention, intuitive interface, being familiar, easy to use and simplify activities, and the low-utility indicator was suggestions to the customer. 2) Caregivers prefer technologies that prevent accidents on those that inform about the occurrence of an accident or just how to handle the consequences. They care about accessibility and cost 3) The preservation of privacy and autonomy are also essential for analyzing the assistive products.	Patients' perspective was not representative because the questionnaire was very difficult for them to answer.

http://www.seer.uftm.edu.br/revistaeletronica/index.php/refacs

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		of assisted products for people with dementia.	professionals (including OT and physio) were composed by the experts		The caregivers were volunteers, and this may have contributed to better acceptance
1 2	EDWAR DS, 2014 ³²	To explore the experience lived in distance care and examining how health profession als can better help these caregivers.	Qualitative res earch. Participants: 10 Caregivers (9 women) lived distant. Care was given in person and, most of the time, at a distance. They were caregivers for over six months. Data collection: 2 Interview s	1) Caregivers spend a lot of time monitoring and looking for services for their sick relative. That demands commitment. 2) Caregivers would like health professionals to have more initiative to communicate about the patient 3) Cognitive decline affects them. Health professionals are also sources of concern and frustration for not fully trusting. 4) The physical health of caregivers is impacted if they do not eat appropriately or do exercises.	Small Sample. Only one man was interviewed
1 3	BOLTZ et al., 2015 ³³	To examine the factors that contribute to the anxiety of caregivers of hospitalize d demented.	Qualitative an d quantitative research (desc riptive). Participants: 50 caregivers. Data collection of caregiver: Demographic data, mutuality Scale; MSCI, Anxiety Hospital and depression Scale.	1) Caregiver: 30% with moderate to severe anxiety. 2) About the qualitative data related to the experiences lived by the caregivers: increased tension in hospitalization, interferes in the routine, in time, increases the demand for care. 3) About the concerns of caregivers: with the loss of cognitive and physical function, with falls, with the non-identification of pain frames, with discharge; keep vigil; need to be listened to; training caregivers diminish the concern	There may be other factors that contribute to anxiety and weren't measured, such as personality, style of confrontation, health of family caregivers.
1 4	HYNES et al., 2015 ³⁴	To explore how COTiD intervention from Holland can be useful for the context of British services and how it can be adapted	Qualitative res earch Participants: 3 9 people. 18 elderly and 21 caregivers. Data collectio n: 3 focal grou ps COTiD: Community occupational therapeutic intervention for dementia	1) Three themes were highlighted in the focal groups: losing and living with dementia, how to help us and consistency and continuity. 2) The caregivers support the implantation, but they wanted COTiD to be more flexible, consistent and appropriate to the existing demands. And to include caregiver as a partner for the intervention's offer. 3) Most of them suggest improvements: more flexible approaches to time and number of sessions, as well as the intervention objects in the specific needs of the person with AD and their caregiver.	Participants talked about a hypothetical situation because they had no thorough knowledge of what COTiD was.
1 5	HAN; RADEL, 2015 ³⁵	To explore the experience s and impact of a social activity program (KUMC PAIRS) for people with dementia and their family caregivers	Qualitative res earch. Participants: 5 caregivers. Frequency: 2 attendances per month for 8 months. Data collectio n: Interviews i n depth	 They report that the program supports the needs and desires of caregivers and assists in the social participation of dyad, as well as in engaging in meaningful activities. The program gives the opportunity to engage, together with the relative with AD or not, in family histories and interests and remembering good memories. Caregivers have a strong desire to engage their families in very pleasant social opportunities with other members of the community. 	The research was done long after the end of the program KUMC PAIRS and if it has been done earlier could better capture the sustained benefits of the program.
1 6	EDWAR DS, 2015 ³⁶	caregivers. To explore the care experience s	Qualitative res earch. Participants: 10 caregivers.	1) Care leads to a great personal and challenging change. 2) Care leads to feelings of stress, guilt and isolation. There is a decrease in time with friends, family, selfcare and leisure. "Changes alter their biography and identity."	The study was do ne in a small geo graphical area of

(challenge	Only 2 elderly	3) Support groups, education, relaxation techniques, stress management	North Carolina. A
s and	people with	can help caregivers	ll the
resources)	dementia	5) Participants experience lack of support from friends and family	participants
and how	lived with the	members. The supports come from a staff of asylums, or from health	were Caucasian.
occupation	caregivers.	places where they go, Alzheimer's association, religious groups, co-	The data cannot
al therapy	Data collectio	workers.	be generalized by
can help	n: Interviews		the design of the
 caregivers			study adopted.

DISCUSSION

The caregiver is the most important family support to confront the limitations that arise from the illness and imposed to the elderly³⁷. The actions of the caregivers were considered key indicators to motivate older people engage in ocupações27.

Only one study was directed to investigate specifically the formal caregivers, trying to identify communication strategies they adopt when the elderly performs selfcare activities³⁰.

Most of the studies investigated the experiences of informal/family caregivers, because culturally, care has always been provided at home⁶.

Choosing to take care of the elderly within the family life can also be related to the need to reduce costs, because the family would have to spend many expenses to keep the elderly in health care institutions³⁸. The society still sees the institutionalization as a form of abandonment and neglection towards the elderly³⁹. Thus, the mode of care adopted by the majority is the informal, in which a family member takes on more responsibility to provide care.

In this review, the research that describe the profile of caregivers highlighted: mostly women (wives and daughters), assuming this function, such as other studies confirm^{11,40}.

This fact is given due to cultural issues, in which the woman was more available to provide care, because they were not inside the labor market⁴¹. However, although the family conformation has changed, they still play this new role in their lives, and associate the task of taking care with their everyday tasks: work, leisure, self-care, household activities and taking care of their own family.

Another aspect about the profile^{23,33}, refers to the caregivers' age. Most of them are middle-aged or older. For these issues and the normal process of aging, one more duty can

generate for these caregivers a physical and emotional distress¹⁴ that impact on their social life, health and well-being.

Faced with the needs and challenges of care, these experiences can be lived in diverse ways. Some studies^{22-25,27,33,34,37} explore the experiences of caregivers during the production of care. The perception of caregivers is related to adjustments in personal life²², restrictions for work and leisure activities that worsen with the illness advance^{1,23,36}.

In only one study²³ the caregivers only do not report changes in their self-care, because the time available is enough to accomplish them. The negative experiences lived during care are related to the lack of support for caregivers, feelings abandonment, reduction of social relations, the number of hours spent with care, degree of overload, number of tasks they need to perform for the elderly, because the elderly's changes in behavior and sleeping reduction^{11,22,23,36}.

For informal caregivers who do not live close to the sick person, the monitoring at a distance and the organization of services to be provided were associated with fatigue and distress³².

Negative experiences can lead to caregivers' health and well-being reduction, because they need to deal with stress, provide care, support the sick person and handle conflicts that can appear daily¹².

The symptoms of depression, anxiety, low self-esteem, apathy and emotional irritability, as well as hypertension, digestive disorders and respiratory diseases affect the caregivers' health due to the overload of work⁴².

Sleep disorders in caregivers are related to work overload or extended periods of time awaken to take care of the elderely¹⁶.

Although most of the studies were directed to negative feelings assigned by the

arduous and uninterrupted task of care, a study²² pointed out the positive experiences attributed to it.

Family members report joy in being able to take over this function, to be close to their relative with AD and the sense of dignity with the accomplishment. The support of neighbors and relatives appears as a factor that assist in the care plan and organization and contributes positively to the caregivers' well-being²².

The perception of care is closely related to the assessment of their quality of life^{12,37}. In other studies^{24,}26, the quality of life was considered by the caregivers as good since they said to have excellent family, good marriage and for friendship, but the negative perception was associated with the overwork, financial situation, health problems and feelings of helplessness.

The more advanced the disease is, the worse the quality of life (QoL) is, but this relationship was not associated with cognitive damage. Non-correlation does not imply that the damage does not affect QoL, but other factors may have more influence. The depressive symptoms, behavioral changes and performance in the IDA were related to the perception of the quality of life²⁵.

The same relationship between low quality of life and depressive symptoms appears in another research²⁹.

To mitigate negative feelings and strengthen positive emotions the relationship between dyad, patient and caregiver, the possible solutions observed were: access to information about the disease, support groups, training to deal with elderly people^{11,33,34-36}, access to technologies that will empower the elderly to engage more in their occupations^{28,31}, be recognized for being the greatest connoisseurs of the patient's life and have a differentiated listening for their experiences^{27,33}, relaxing techniques³⁶ and participate in occupational therapy programs 23

These strategies contribute to understand the behavior of the elderly, the choice of management possibilities, the decrease of negative feelings before the patient and the improvement of the quality of care offered¹¹.

other In studies. the psychoeducational. psychosocial and psychotherapeutic strategies (nonpharmacological interventions) are evaluated as reducing the burden of caregivers, because they provide emotional support and can help relative for the dailv decisions with the sick person^{5,43}.

International researches in occupational therapy list actions to promote caregivers' health and training, through groups of emotional support, stress management and problem-solving groups. These actions were effective in reducing comorbidities that affect family members, increasing the affective ties and reducing the risk of institucionalization²⁰.

Understanding the strategies already adopted, together with the caregivers' awareness of the influence of their behavior in the elderly participation, contributes to elaborate an appropriate care plan for the dyad.

This understanding also reinforces the importance of training and other educational strategies, as they can facilitate and engage elderly people with dementia in occupations, as well as mitigating the overwork of the uninterrupted task of care.

In the evaluations focused on caregivers, two studies were found in which occupational therapists investigated the perception of caregivers about the programs offered^{34,35}. Family members report that the benefits of the support received result in increased ties between the elderly and caregivers, remembering good memories and new social interaction provided by the progrem³⁵ and contribute to increase the elderly's skills to engage in occupations.

The investigations of the caregivers' perceptions about the recommendations of assistive products for the patient are also part of the concerns of occupational therapists who work with the elderly with dementia and their respective caregivers,

The caregivers perceive as useful the products that are easy to use, with simple, accessible design and reasonable cost. They

prefer technologies that prevent accidents to technologies that report something after an incident³¹. In accordance with the findings, Angels and Regolin⁴⁴ inform that the products of low and medium technology -mobile, stopwatch, electronic agenda- have high acceptance, because they are easy to acquire and to use with patients with dementia. Adherence to devices that aid in daily life activities or cognition depends on the caregivers' incentive, support and assistance^{8,31}.

It is understood, by the reviewed studies, that women suffer more overwork and health commitments because of the function they assume. At the same time, there weren't studies with men caregivers to assess their overwork and analyze what functions are assumed by them. It is important to remember that, by the changes in the profile of the family nuclei, the time available to take care of the diseased is increasingly scarce, either by the reduced number of children or by the jobs they have⁴⁵.

For the foreseeable future, it seems that the trend is toward a change in the modality of caring for the elderly with dementia. In this sense, it is reinforced the need to have elderly care institutions appropriate to the needs of the person with dementia, formal caregivers trained for this specific population and/or other support networks to meet the elderly.

Furthermore, it is essential to investigate the organization of the care network for those elderly people who do not have family.

The elderly with dementia who lives alone in their communities attach to the closest neighbors and friends the function of primary caregivers⁴⁶. In this context, the concerns are for the time they remain alone, without assistance, with risks related to home security.

There is a need to think about increasing the number of studies that investigate these caregivers who are not family members, to know about the time available to produce care, the functions they can assume, the strategies they adopt and the perceptions about the functions they assume.

Occupational therapists who work with Alzheimer's dementia have a broad approach to elderly care by inserting the caregiver into their evaluation plan.

A question that remains for reflection is: since caregiver attention is an interdisciplinary area, what are the points of convergence and what are the differences between the performance of the OT and other health professionals? Furthermore, these questions remain: does the attention given to these caregivers brings enough clarity for the type of care they carry out? Under what conditions can blood ties compensate the lack of good training?

Understanding the stressors and rewarding factors that arise from the process of caring, as well as the strategies adopted in the daily relationship and the needs to obtain the caregivers health and welfare, is essential to pressure towards the implementation of public policies that promote the necessary social support for the sick elderly, their families and the society, so that embraces effectively the integral, humanized and universal care for the elderly with Alzheimer's disease.

CONCLUSION

In evaluations addressed to caregivers, occupational therapists worry about the perception of the family members about caring, with a greater focus on the negative aspects of this continuous and uninterrupted task.

These reactions influenced the care provided, well-being and their health. The strategies adopted by caregivers to reduce the workload were also investigated.

Access to information about the disease, support groups, support network and training to deal with the elderly, appear as elements that protect the health and quality of life of these informal workers.

REFERENCES

- 1. World Health Organization. Dementia: a public health priority. Geneva: WHO; 2012.
- 2. Burlá C, Camarano AA, Kanso S, Fernandes D, Nunes R. Panorama prospectivo da demência no Brasil: um enfoque demográfico.

- Ciênc Saúde Coletiva. 2013; 18(10):2949-56. 3. Callahan CM, Boustani MA, Schimid AA, La Mantia MA, Austrom MG, Miller DK, et al. Targeting functional decline in Alzheimer disease: a randomized trial. Ann Intern Med. 2017; 166(3):164-71.
- 4. Rodrigues MPB, Gontijo DT. Doença de Alzheimer: uma análise da produção científica publicada nos periódicos brasileiros no período de 2002 a 2007. Estud Interdiscip Envelhec. 2009; 14(1):25-43.
- 5. Lopes LO, Cachioni M. Cuidadores familiares de idosos com doença de Alzheimer em uma intervenção psicoeducacional. Rev Bras Geriatr Gerontol. 2013; 16(3):443-60.
- 6. Falcão DVS, Bucher-Maluschke JSNF. Cuidar de familiares idosos com a doença de Alzheimer: uma reflexão sobre aspectos psicossociais. Psicol Estud. 2009; 14(4):777-86.
- 7. Vasunilashorn S, Steinman BA, Liebig PS, Pynoos J. Aging in place: evolution of a research topic whose time has come. J Aging Res. 2012; 2012:120952.
- 8. Cintra MTG, Rezende NA, Torres HOG. Demência avançada em uma amostra de idosos brasileiros: análise sociodemográfica e morbidades. Rev Assoc Med Bras. 2016; 62(8): 735-41.
- 9. Borghi AC, Castro VC, Marcon SS, Carreira L. Sobrecarga de familiares cuidadores de idosos com doença de Alzheimer: um estudo comparativo. Rev Latinoam Enferm. 2013; 21(4):7 telas.
- 10. Nogueira PC, Rabeh SAN, Caliri MHL, Dantas RAS, Haas VJ. Sobrecarga do cuidado e impacto na qualidade de vida relacionada à saúde de cuidadores de indivíduos com lesão medular. Rev Latinoam Enferm. 2012; 20(6):1048-56.
- 11. Novelli MMPC, Nitrini R, Caramelli P. Cuidadores de idosos com demência: perfil sociodemográfico e impacto diário. Rev Ter Ocup. 2010; 21(2):139-47.
- 12. Silva CF, Passos VMA, Barreto SM. Frequência e repercussão da sobrecarga de cuidadoras familiares de idosos com demência. Rev bras Geriatr Gerontol. 2012; 15(4):707-31.
- 13. Berwig M, Dichter MN, Albers B, Wermke K, Trutschel D, Seismann-Petersen S, et al.

- Feasibility and effectiveness of a telephone-based social support intervention for informal caregivers of people with dementia: study protocol of the TALKING TIME project. BMC Health Serv Res. 2017; 17(1):280-91.
- 14. Arakaki BK, Tsubaki JNS, Caramelli P, Nitrini R, Novelli MMPC. Análise do desgaste e da sobrecarga de cuidadores familiares de idosos com doença de Alzheimer causado pelos sintomas psicológicos e comportamentais. Rev Ter Ocup. 2012; 23(2):113-21.
- 15. Soilemezi D, Drahota A, Crossland J, Stores R, Costall A. Exploring the meaning of home for family caregivers of people with dementia. J Environ Psychol. 2017; 51(1):70-81.
- 16. Camacho ACLF, Abreu LTA, Leite BS, Mata ACO, Marinho TF, Valente GSC. Revisão integrativa sobre cuidados de enfermagem à pessoa com doença de Alzheimer e seus cuidadores. Rev Pesqui Cuid Fundam. (Online). 2013 [cited in 23 may 2016]; 5(3):186-93. Available in: http://www.seer.unirio.
- br/index.php/cuidadofundamental/article/vi ew/1731/pdf_958.
- 17. Pinheiro GML. Idoso portador de alzheimer: reflexões sobre o papel do cuidador. In: Pomatti DM. Doenças crônicas: múltiplas abordagens. Passo Fundo, RS: Berthier; 2009. p. 163-174.
- 18. Seyun K. Cognitive rehabilitation for elderly people with early-stage Alzheimer's disease. J Phys Ther Sci. 2015; 27(2):543-6.
- 19. Katz N, Baum CM, Maeir A. Introdução à intervenção cognitiva e à avaliação cognitiva funcional. In: Katz N. Neurociência, reabilitação cognitiva e modelos de intervenção em terapia ocupacional. 3ed. São Paulo: Santos; 2014. p. 1-11.
- 20. Thinnes A, Padilla R. Effect of educational and supportive strategies on the ability of caregivers of people with dementia to maintain participation in that role. Am J Occup Ther. 2011; 65(5):541-9.
- 21. Soares CB, Hoga LAK, Peduzzi M, Sangaleti C, Yonekura T, Silva DRAD. Revisão integrativa: conceitos e métodos utilizados na enfermagem. Rev Esc Enferm USP. 2014; 48(2):335-45.

- 22. Persson M, Zingmark K. Living with a person with Alzheimer's disease: experiences related to everyday occupations. Scand J Occup Ther. 2006; 13(4):221-8.
- 23. Hwang JLE, Rivas JG, Fremming R, Rivas MM, Crane KR. Relationship between perceived burden of caring for a family member with Alzheimer's disease and decreased participation in meaningful activities. Occup Ther Health Care. 2009; 23(4):249-66.
- 24. Inouye K, Pedrazzani ES, Pavarini SCI, Toyoda CY. Perceived quality of life of elderly patients with dementia and family caregivers: evaluation and correlation. Rev Latinoam Enferm. 2009; 17(2):187-93.
- 25. Novelli MMPC, Caramelli P. The influence of neuropsychiatry and functional changes on quality of life in Alzheimer's disease. Dement. neuropsychol. 2010; 4(1):47-53.
- 26. Inouye K, Pedrazzani ES, Pavarini SCI, Toyoda CY. Qualidade de vida do idoso com doença de Alzheimer: estudo comparativo do relato do paciente e do cuidador. Rev Latinoam Enferm. 2010; 18(1):08 telas.
- 27.Teilelman J, Raber C, Watts J. The power of the social environment in motivating persons with dementia to engage in occupation: qualitative findings. Phys Occup Ther Geriatr. 2010; 28(4):321-33.
- 28. Czarnuch S, Mihailidis A. The design of intelligent in-home assistive technologies: Assessing the needs of older adults with dementia and their caregivers. Gerontechnology. 2011; 10(3):169-82.
- 29. Chan IWP, Chu LW, Lee PW, Li SW, Yu KK. Effects of cognitive function and depressive mood on the quality of life in Chinese Alzheimer's disease patients in Hong Kong. Geriatr Gerontol Int. 2011; 11(1):69-79.
- 30. Wilson R, Rochon E, Mihailidis A, Leonard C. Quantitative analysis of formal caregivers'use of communication strategies while assisting individuals with moderate and severe Alzheimer's disease during oral care. J Commun Disord. 2013; 46(3):249-63.
- 31. Mao HF, Chang LH, Yao G, Chen WY, Huang WN. Indicators of perceived useful dementia care assistive technology: caregiver's perspectives. Geriatr Gerontol Int. 2014; 15(8):1049-57.

- 32. Edwards M. Distance caregivers of people with Alzheimer's disease and related dementia: a phenomenological study. Br J Occup Ther. 2014; 77(4):174-80.
- 33. Boltz M, Chippendale T, Resnick B, Galvin JE. Anxiety in family caregivers of hospitalized persons with dementia. Alzheimer Dis Assoc Disord. 2015; 29(3):236-41.
- 34. Hynes SM, Field B, Ledgerd R, Swinson T, Wenborn J, di Bona L, et al. Exploring the need for a new UK occupational therapy intervention for people with dementia and family carers: community occupational in Dementia (COTiD). Aging Ment Health. 2016; 20(7):762-9.
- 35. Han A, Radel J. Spousal caregiver perspecties on a person-centered social program for partners with dementia. Am J Alzheimers Dis Other Demen. 2016; 31(6):465-73.
- 36. Edwards M. Family caregivers for people with dementia and the role of occupational therapy. Phys Occup Ther Geriatr. 2015; 33(3):220-32.
- 37. Inouye K, Pedrazzani ES, Pavarini SCI. Implicações da doença de Alzheimer na qualidade de vida do cuidador: um estudo comparativo. Cad Saúde Pública. 2010; 26(5): 891-99.
- 38. Karch UM. Idosos dependentes: famílias e cuidadores. Cad Saúde Pública. 2003; 19(3):861-6.
- 39. Duarte MJRS. Cuidando e educando o cliente idoso na perspectiva da cidadania. In: Saldanha AL, Caldas CP, organizadores. Saúde do idoso: a arte de cuidar. 2ed. Rio de Janeiro: Interciência; 2004. p. 59-76.
- 40. Falcão DVS, Bucher-Maluschke JSNF. O impacto da doença de Alzheimer nas relações intergeracionais. Psicol clin. 2009; 21(1):137-52.
- 41. Vilela ABA, Meira EC, Souza AS, Souza DM, Cardoso IS, Sena ELS, et al. Perfil do familiar cuidador de idoso doente no contexto de Jequié BA. Rev Bras Geriatr Gerontol. 2006; 9(1):55-69.
- 42. Fernandes MGM, Garcia TR. Atributos da tensão do cuidador familiar de idosos dependentes. Rev Esc Enferm USP. 2009; 43(4):818-24.

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- 43. Santos RL, Sousa MFB, Brasil D, Dourado M. Intervenções de grupo para sobrecarga de cuidadores de pacientes com demência: uma revisão sistemática. Rev Psiquiatr Clín. [online]. 2011 [cited in 15 may 2016]; 38(4):161-7. Available in: http://www.scielo.br/pdf/rpc/v38n4/a09v3 8n4.pdf. DOI: 10.1590/S0101-60832011000400009.
- 44. Anjos SM, Regolin K. Tecnologia assistiva para cognição. In: Abrisqueta-Gomez J. Reabilitação neuropsicológica: abordagem interdisciplinar e modelos conceituais na prática clínica. Porto Alegre: Artmed; 2012. p. 223-229.
- 45. Costa MFBNA, Ciosak SI. Atenção integral na saúde do idoso no Programa de Saúde da Família: visão dos profissionais de saúde. Rev Esc Enferm USP. 2010; 44(2):437-44.
- 46. Edwards D.F, Morris JC. Alone and confused: community-residing older African Americans with dementia. Dementia. 2007; 6(4):489-506.

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