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WILEY

Effects of family nursing conversations on families in home health care: A controlled before-and-after study

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Abstract

Aim: To assess the effects of family nursing conversations on family caregiver burden, patients' quality of life, family functioning and the amount of professional home health care.

Design: A controlled before-and-after design.

Methods: Intervention group families participated in two family nursing conversations incorporated in home health care; control group families received usual home health care. Patients and family members completed a set of questionnaires on entering the study and 6 months later to assess family caregiver burden, family functioning and patients' quality of life. The amount of home health care was extracted from patient files. Data were collected between January 2018–June 2019.

Results: Data of 51 patients (mean age 80; 47% male) and 61 family members (mean age 67; 38% male) were included in the results. Family caregiver burden remained stable in the intervention group whereas it increased in the control group. Family functioning improved significantly compared with the control group for patients and family members in the intervention group. No significant effects on patients' quality of life emerged. The amount of professional home health care decreased significantly in the intervention group whereas it remained equal in the control group.

Conclusion: Family nursing conversations prevented family caregiver burden, improved family functioning, but did not affect patients' quality of life. In addition, the amount of home health care decreased following the family nursing conversations.

Impact: Countries with ageing populations seek to reduce professional and residential care and therefore encourage family caregiving. Intensive family caregiving, however, places families at risk for caregiver burden which may lead to increased professional care and admission into residential care. This study demonstrates that family nursing conversations help nurses to prevent family caregiver burden and improve family functioning while decreasing the amount of home health care.

KEYWORDS

caregiver burden, family caregivers, family functioning, family nursing conversations, family systems nursing, home health care, nursing

1 | INTRODUCTION

The need for long-term care at home increases as populations age and healthcare costs rise. Care at home is generally preferred by patients and since the costs for residential care exceed home health care (HHC) costs also by governments (Colombo et al., 2011). As the availability of professional HHC is insufficient for the increasing needs, the importance of informal care intensifies (OECD, 2019). In most countries, 70-90% of caregivers are informal caregivers, primarily family members. Illness and caregiving in a family can be a major source of stress to which the family must adapt (Walsh, 2012, 2016a). Family members who provide intensive care are especially at risk for caregiver burden (Colombo et al., 2011). Therefore, family caregivers require adequate support to ensure that they can fulfil their caregiving tasks without compromising their own health.

HHC nurses are in a key position to support family caregivers of home dwelling patients. To do so, nurses must extend the focus of their care by including patients' families. Family responses to health problems are part of nurses' main focus (ICN, 2019). Nonetheless, nursing care that extends beyond the individual patient is not yet standard care. The Family Systems Nursing framework has been developed to focus on the family system rather than solely on the patient. In practice, it typically takes the form of conversations with families to improve families' health in illness situations (Wright & Leahey, 2013). For nurses to conduct these conversations and for HHC organizations and society to finance them, insight into their effects is crucial. To date, there is substantial support for conversations based on Family Systems Nursing from qualitative studies (Östlund & Persson, 2014). However, limited evidence is available from quantitative and experimental studies, especially for HHC. The purpose of this study, therefore, was to evaluate the effects of a specific Family System Nursing conversation, i.e., the family nursing conversation, in HHC.

1.1 | Background

Family nursing conversations are based on the Family Systems Nursing framework. The underlying premise is that relationships between people, on the one hand and health and illness, on the other hand, influence one another. To stimulate family and individual health, therefore, Family Systems Nursing, approaches the family as the unit of nursing care with a focus on both the patient and the family and both individuals and relationships and the interactions between them (Wright & Leahey, 2013).

A family nursing conversation is a preplanned conversation where the patient, one or more family members and the nurse discuss the care situation. The family and the nurse together decide who should participate in the conversation. Family nursing conversations consist of 12 core components that are constructed to foster family resilience processes (Broekema, Paans, Roodbol, et al., 2020; Walsh, 2003, 2016b). The components include an exploration of the family's structure and network; sharing of experiences, emotions,

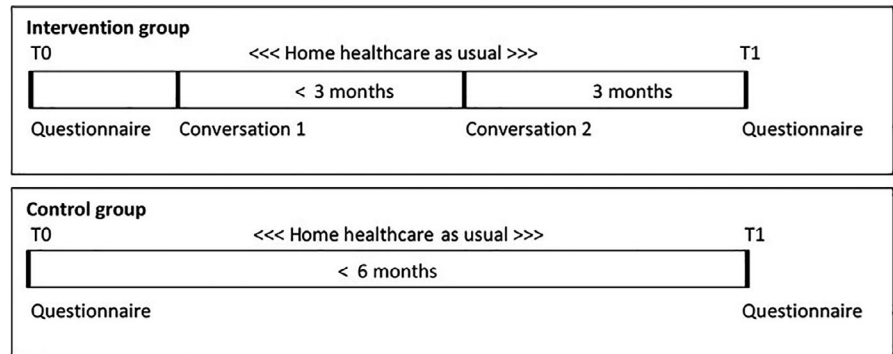
Impact statement

- Family nursing conversations should be available to families that are faced with health problems and caregiving, to promote family functioning and prevent family caregiver burden in these situations.
- Family nursing conversations provide nurses with a tool in their task of supporting families that are confronted with health problems. Education to enable nurses to conduct these conversations is, therefore, recommended.
- Family nursing conversations are a valuable addition to home health care in societies with ageing populations that foresee insufficient availability of professional health care compared with the increasing needs and encourage family caregiving

and needs regarding the care situation; and formulating a shared goal and establishing agreements regarding the care situation. Other components are that nurses encourage open communication, acknowledge painful experiences, commend families for their strengths and discuss, strengthen and challenge family members' beliefs about health and illness. A family nursing conversation is indicated when one or more of the following NANDA-I nursing diagnoses (Herdman & Kamitsuru, 2014) apply to the family: 'risk of caregiver role strain', 'caregiver role strain', or 'interrupted family processes'.

The family nursing conversation components are intended to optimize family functioning, improve coordination between professional and family care and ultimately prevent or decrease family caregiver burden. Poor family functioning is associated with caregiver burden (Liu & Huang, 2018). Optimal family functioning in the context of illness of an adult family member can be defined using five attributes: maintaining cohesive relationships, fulfilling family roles, coping with family problems, adjusting family routines, and communicating effectively (Zhang, 2018). These aspects are targeted in family nursing conversations. A grounded theory study indicated that these conversations improved contact in the family and between the family and professional caregivers and, thereby, reduced caregiver burden (Broekema, Paans, Oosterhoff, et al., 2020). Coordination between professional and family care is important as both professional and family caregivers consider a partnership as crucial rather than working alongside one another (Hengelaar et al., 2018). In care situations, effective communication with professional caregivers is an essential need for family caregivers (Silva et al., 2013). However, the division of care responsibilities between professional and family caregivers is not always discussed (Wittenberg et al., 2019). This topic is explicitly addressed in family nursing conversations. Family members perceived these conversations to help them maintain a balanced division of tasks, establish and keep clear boundaries and identify and solve problems timely thus reducing caregiver burden (Broekema, Paans, Oosterhoff, et al., 2020).

FIGURE 1 Study design



Qualitative studies have shown that families consider conversations based on Family Systems Nursing important and valuable (e.g. Benzein et al., 2015; Dorell & Sundin, 2016; Robinson & Wright, 1995). The conversations were also found to support family functioning (Östlund & Persson, 2014). An integrative review of evidence for conversations based on Family Systems Nursing was conducted in 2011 and highlighted the need for research with experimental and quasi-experimental designs (Östlund & Persson, 2014). Since then, most experiments and quasi-experiments on Family Systems Nursing conversations have been conducted in Iceland in families with children. In sum, these studies revealed Family Systems Nursing conversations to increase parents' perceived support from nurses (e.g. Sigurdardottir et al., 2013; Svavarsdottir & Gisladdottir, 2018; Svavarsdottir et al., 2014) and, in some studies, to improve family functioning (Svavarsdottir & Sigurdardottir, 2013; Svavarsdottir et al., 2012, 2014).

In adults, a limited number of experimental or quasi-experimental studies have been conducted since 2011. Studies with control group design, however, are still scarce. The existing evidence suggests that conversations based on Family Systems Nursing can improve families' perceptions of the support they receive from professional caregivers (Petursdottir & Svavarsdottir, 2019; Sveinbjarnardottir et al., 2013) and may also improve family functioning (Lee et al., 2018; Sundin et al., 2016) and possibly health-related quality of life (Lämås et al., 2016) and caregiver burden (Petursdottir & Svavarsdottir, 2019). Results are, however, somewhat inconsistent with respect to these outcomes (Dorell et al., 2017; Faarup et al., 2019; Østergaard et al., 2018). In addition, the effects of these conversations in HHC have not yet been studied in an experimental design, with the exception of palliative home care (Petursdottir & Svavarsdottir, 2019). The effects on the amount of professional health care have not been explored to date either.

The research question of the current study is:

What are the effects of family nursing conversations incorporated into home health care when compared with the usual home health care on:

- family caregiver burden;
- perceived family functioning;
- patients' health-related quality of life;
- the amount of professional home health care?

2 | THE STUDY

2.1 | Aims

To assess the effects of family nursing conversations in home health care on family caregiver burden, family functioning, patients' quality of life, and the amount of professional home health care.

2.2 | Design

This study employed a controlled before-and-after design, illustrated in Figure 1. The intervention for the intervention group consisted of two family nursing conversations with a maximum of 3 months in between, embedded in HHC. The control group only received the usual HHC, of which family nursing conversations were not a part. The outcomes in both groups were assessed with questionnaires twice: at baseline (T0), which was before the first family nursing conversation for the intervention group and 6 months after T0 (T1), which was 3 months after the second family nursing conversation for the intervention group. At this point, the lasting effects of the conversations and the arrangements that were made were expected to be evident.

2.3 | Participants

The sample consisted of HHC receiving patients and their family members. Three criteria for patients' and family members' eligibility for the study were established: (a) the patient should receive long-term HHC due to frailty (Gobbens et al., 2010) or chronic illness; (b) the nurse should consider one of the NANDA-I nursing diagnoses (Herdman & Kamitsuru, 2014) of 'risk of caregiver role strain', 'caregiver role strain', or 'interrupted family processes' as fitting with the family's situation; and (c) the patient and one family member should be able and willing to complete a questionnaire.

In the Netherlands, HHC teams consisting of nurses, nursing aids and one or two coordinating nurses provide HHC to patients in a specific geographical area. Patients and family members in the intervention group were part of five HHC teams that the local management of the HHC organization selected. For the control group,

the management selected five other teams that were comparable to the intervention group teams in terms of patient population and geographical area. Random allocation of teams to the intervention or control group would have induced a high risk of major differences between the groups, as the teams were selected to cover all available patient populations and geographical areas. All teams were selected based on their availability and willingness to participate in the study.

A power analysis that was based on the primary outcome, family caregiver burden (assessed with the CarerQoL-7D; with a pre-planned power of 0.8, an expected between-group difference of 8 points and an estimated standard deviation of 16.5; Lutomski et al., 2015) resulted in a target sample size of 63 family members in each group. Considering expected dropout, the authors strived for 100 family members in each group. Expected dropout was based

on nurses' estimations of patients moving to nursing homes, patient deaths and lack of follow-up. An estimated 144 eligible patients and family members were approached to participate in the intervention group and 145 for control group participation; an estimated 18 and 29, respectively declined to participate. A total of 111 patients and 131 family members were allocated to the intervention or the control group. The data of 51 patients (54.05% dropout) and 61 family members (53.44% dropout) were included in the analyses and in the results. The reasons for dropout are listed in the flowchart in Figure 2; the main reasons in both groups were that the patient went to a nursing home or died and that the study, filling in questionnaires, was experienced as too burdensome. The intended number of participating family members was not achieved. As a result, the observed power was 0.64 for the primary outcome; family caregiver burden.

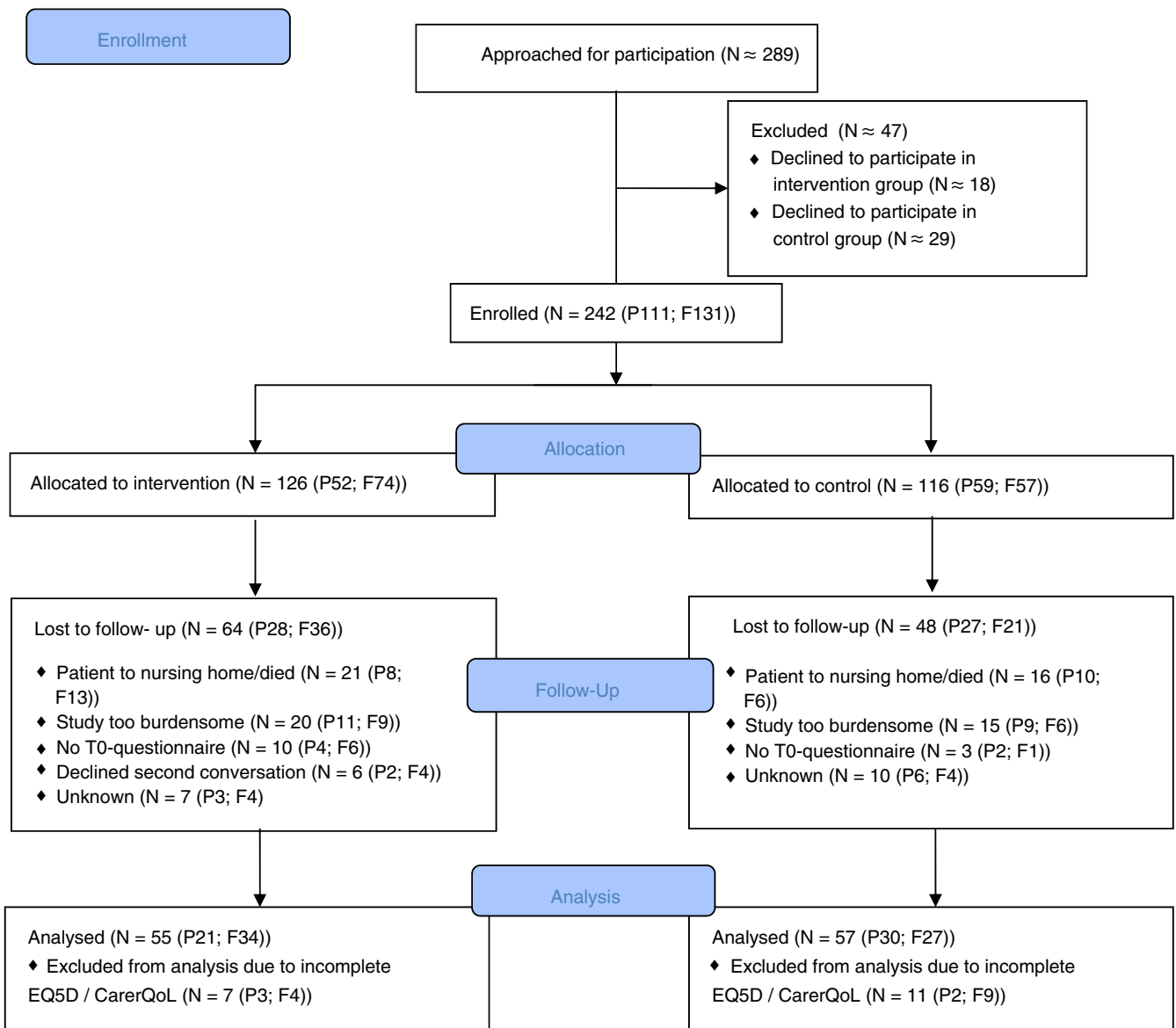


FIGURE 2 Flow chart inclusion of patients (P) and family members (F)

2.4 | Intervention

Usual HHC is attuned to each patient's needs and may include assistance with personal care, specialized nursing care and patient and family education. Usual HHC begins with an intake by the coordinating HHC nurse who devises a care plan that is subsequently executed by the team. Coordinating nurses evaluate the care plan at least every 6 months with the patient and sometimes a family member.

The intervention consisted of two family nursing conversations that were based on the 12 core components (Broekema, Paans, Roodbol, et al., 2020). The conversations occurred in the patients' homes at a time that suited all participants. Nurses were granted 1.5 hr for planning, conducting and reporting on each conversation. Nurses had the conversations with families for whom they already coordinated the usual HHC. Thus, results of the conversations could be implemented in the care plan. The nurse and the family collectively decided on the duration of the time in between the two conversations. This period was set at a maximum of 3 months to ensure continuity and follow-up on goals and agreements that were established in the first conversation.

Prior to the study, the nine coordinating nurses from the five intervention group HHC teams received a 6-day educational program in family nursing conversations focusing on their attitude, knowledge and skills regarding family nursing conversations (Broekema et al., 2018) and the 12 conversation components. In a previous study, it was found that nurses apply the components as intended following this educational program, but use their professional judgment to adapt components to the specific needs of each family and care situation (Broekema et al., 2018). The components are not intended as a strict protocol but rather as a guideline. Intervention implementation was monitored in 2-monthly meetings with the nurses, their managers and the research team during the study period. In these meetings, intervention integrity was emphasized. Any problems that nurses encountered were discussed; primarily nurses' high workload and its impact on participant inclusion. Nurses described the conversations they had conducted. No major problems related to intervention fidelity emerged. During and in between meetings, nurses provided information regarding the dates and participants of each family nursing conversation to ensure that each participant was involved in two conversations that were no more than 3 months apart. Actual time in between the two conversations varied between 6 weeks and 3 months with an average of 10 weeks and 3 days.

2.5 | Data collection

First, the coordinating nurses assessed families in their team for eligibility according to the three inclusion criteria. Subsequently, they approached patients and family members who were eligible to inform them about the study and invite them to participate, during a home visit or via telephone. Nurses informed patients and family members that the HHC organization considered support for patients' families important and that a study was being conducted to assess the effect of the organization's care on patients and family members. The family

nursing conversation itself was not mentioned as part of the study information to minimize expectation effects. Next, participants received the T0-questionnaire from the nurse and completed the questionnaire at their own time at home and returned it using the return envelope. Finally, after a maximum of 6 months, participants received the T1-questionnaire via mail, completed it and returned it using the return envelope. If the T1-questionnaire was not returned in a month, the nurse or a member of the research team contacted participants to inform about the status and registered the reason for dropout if participants did not complete the questionnaire. The HHC teams were instructed not to help participants with completing the questionnaires. Participants were included in the study from January–December 2018; post-intervention data collection ended in June 2019.

2.6 | Ethical considerations

The regional medical ethical committee ruled that this study does not fall under the Dutch Medical Research Involving Human Subjects Act and, therefore, waived approval (METc2015.463). All participants signed an informed consent form before entering the study and were informed that they could retract their permission at any time. Patients and family members were informed that the decision on their participation would not in any way influence the care they received. In the intervention group teams, therefore, the nurse offered a family nursing conversation, regardless of whether or not families had decided to participate in the study. To protect participant anonymity, each participant was assigned a unique code to match the T0 to the T1 questionnaires. The link between the participant code and any identifiable information was kept in a password-protected file.

2.7 | Outcome measures and validity, reliability and rigour

Demographic information on gender, age, education and living situation was obtained from each participant. In addition, the nursing diagnosis (Herdman & Kamitsuru, 2014) that was the indication for the family nursing conversation and the reason the patient received HHC were registered.

Family caregiver burden was assessed with the Care-related Quality of Life (CarerQoL). This instrument was developed to provide a comprehensive picture of the impact of informal caregiving. Its feasibility, test–retest reliability, and construct validity were determined to be sufficient in the Dutch population (Hoefman et al., 2011, 2013). The first part of the CarerQoL consists of seven items with burden dimensions of informal caregiving, five negative aspects, and two positive aspects. An example of a negative item is: "I have relational problems with the care receiver (e.g., he/she is very demanding or behaves differently; we have communication problems)." Participants score each item on a 3-point scale indicating the degree to which the respondent considers the description as according with the care situation: no, some, or a lot. The answers are transformed into a weighted sum score between 0 (worst

caregiving situation)-100 (best caregiving situation) that is based on tariffs for the Dutch population (Hoefman et al., 2014). Higher scores thus indicate lower caregiver burden or better care-related quality of life. The second part of the CarerQoL is a Visual Analogue Scale (VAS) on which participants indicate how happy they currently feel, ranging from 0 ('completely unhappy')-10 ('completely happy').

Patients' and family members' perceived family functioning was assessed with the Dutch version of the general functioning scale of the McMaster Family Assessment Device (FAD-N-GF). This instrument has demonstrated sufficient test-retest reliability, construct, and criterion validity (Hamilton & Carr, 2016). The scale has 12 items that provide an overall picture of family functioning based on systemic and transactional characteristics, closely resembling Zhang's (2018) attributes of family functioning. Six items describe effective family functioning and six items describe problematic family functioning. The items are scored on a 4-point scale from totally disagree to totally agree. The total score is presented as the average item score with the scores on the negative items reversed.

To measure patients' health-related quality of life, the five-level EQ-5D was used. The EQ-5D consists of five health dimensions: mobility, self-care, usual activities, pain/discomfort, and anxiety/depression that participants rate on a 5-point scale ranging from no problems to slight problems, moderate problems, and severe problems to extreme problems. Convergent validity and test-retest reliability were sufficient in the Dutch population (Janssen et al., 2008). The instrument has been found to be easy to use in a previous evaluation of a Family Systems Nursing intervention (Lämås et al., 2016). Dutch tariffs were employed to transform each participant's answers into a score between 1 (no problems on all dimensions) and -0.329 (extreme problems on all dimensions; Versteegh et al., 2016). In addition, participants rated their current health on a vertical VAS ranging from 0 ('the worst health you can imagine') to 100 ('the best health you can imagine'). Permission was obtained from the EuroQoL-group to use the instrument.

The amount of HHC that each family received was operationalized as the hours of usual HHC in the week prior to T0 and in the week of T1. This information was extracted from the organization's patient records.

In the T1 questionnaires, patients and family members in the intervention group additionally indicated their agreement with five statements about the usefulness of the family nursing conversations on a scale of 1 ('totally disagree')-4 ('totally agree').

2.8 | Data analysis

Data were analysed in SPSS version 25. Participants were included in the analyses when the EQ-5D for patients or the CarerQoL for family members was completed at both T0 and T1. Patient data were analysed separately from family member data for all variables. The generalized estimating equations procedure was used to assess within- and between-group differences from T0 to T1 on all variables. This procedure was selected because it takes into account the correlations between repeated measures (Liu et al., 2009). The

main effect for Time (T0 and T1) in each group and the interaction effect of Time \times Group (intervention and control) were assessed. The level of significance was established at <0.050 .

3 | RESULTS

3.1 | Study participants

Background information on the 51 patients (21 in the intervention group) and 61 family members (34 in the intervention group) that were included in the analyses is presented in Table 1. Most families that were included had a nursing diagnosis of risk of caregiver role strain. Patients were typically older adults with a mean age of approximately 80 years old. Family members were somewhat younger and were mostly partners and children of the patient. Overall, slightly more females than males participated. No significant differences between the groups emerged in background characteristics.

All participating patients and all but one family members indicated that the family nursing conversations were useful to them (Table 2). With the exception of one or two participants, patients and family members agreed that the conversations had contributed to improved insight into the care situation; clear agreements about roles and tasks of the people involved in the care situation and insight in their needs and desires; and improved mutual understanding among family members. Below, the main results will be presented per research question; all scores and test results are presented in Table 3.

3.2 | Family caregiver burden (CarerQoL)

There was a significant interaction between Time and Group for the CarerQoL-7D (β (SE) = 5.74 (2.43), p = .018). Family members' care-related quality of life on the seven dimensions did not change significantly between T0 and T1 in the intervention group (β (SE) = 1.44 (2.02), p = .413) whereas it decreased significantly in the control group (β (SE) = -4.30 (1.67), p = .010), indicating increased burden in the control group. No significant interaction between Time and Group was found for the CarerQoL-VAS (β (SE) = 0.45 (0.25), p = .073).

3.3 | Family functioning (FAD-N-GF)

For family members, there was a significant interaction between Time and Group for family functioning (β (SE) = 0.47 (0.14), p = .001). Family functioning improved significantly more from T0 to T1 in the intervention group (β (SE) = 0.85 (0.09), p < .001) than in the control group (β (SE) = 0.38 (0.11), p < .001).

For patients, a significant interaction between Time and Group for family functioning was found as well (β (SE) = 0.40 (0.14), p = .004). Family functioning significantly improved from T0 to T1 in the intervention group (β (SE) = 0.23 (0.10), p = .023) whereas no significant change emerged in the control group (β (SE) = -0.18 (0.10), p = .071).

TABLE 1 Participants' demographics and differences between intervention and control group

Variable	Patients			Family members		p-value
	Intervention (N = 21)	Control (N = 30)	p-value	Intervention (N = 34)	Control (N = 27)	
Age (mean (SD))	80.33 (6.67)	79.21 (8.51)	.616 ^a	68.27 (12.35)	65.78 (11.54)	.426 ^a
Gender (number of males)	12 (57.14%)	12 (40.00%)	.227 ^b	11 (32.35%)	13 (48.15%)	.295 ^b
Highest completed education (number)						
≤Primary school	3 (14.29%)	6 (20.00%)	.216 ^b	4 (11.76%)	1 (3.70%)	.165 ^b
High school	8 (38.10%)	4 (13.33%)		8 (23.53%)	2 (7.41%)	
Vocational education	6 (28.57%)	13 (43.33%)		15 (40.54%)	13 (48.15%)	
Higher education	3 (14.29%)	6 (20.00%)		7 (20.59%)	10 (37.04%)	
Other/unknown	1 (4.67%)	1 (3.33%)		0 (0.00%)	1 (3.70%)	
Living alone (number)	3 (14.29%)	9 (42.86%)	.193 ^b	—	—	—
Relationship to patient (number)						
Partner	—	—	—	20 (58.82%)	13 (48.15%)	.372 ^b
Child	—	—		12 (35.29%)	9 (33.33%)	
Other	—	—		2 (5.88%)	4 (14.18%)	
Paid job (number of yes)	—	—		10 (29.41%)	6 (22.22%)	.571 ^b
Living with patient (number of yes)	—	—		22 (64.71%)	15 (55.56%)	.599 ^b
Nursing diagnosis family (number)						
Risk of caregiver role strain	19 (90.48%)	28 (93.33%)	.218 ^b	27 (79.41%)	25 (92.59%)	.223 ^b
Caregiver role strain	2 (9.52%)	2 (6.67%)		8 (23.53%)	2 (7.41%)	
Interrupted family processes	2 (9.52%)	0 (0.00%)		4 (11.76%)	0 (0.00%)	
Main reason for patient's home health care (number)						
Dementia	8 (38.10%)	5 (16.67%)	.559 ^b	14 (41.18%)	8 (29.63%)	.293 ^b
Parkinson's disease	2 (9.52%)	4 (13.33%)		5 (14.71%)	2 (7.41%)	
CVA/ABI	2 (9.52%)	2 (6.67%)		4 (11.76%)	2 (7.41%)	
Diabetes/wound care	2 (9.52%)	4 (13.33%)		3 (8.82%)	3 (11.11%)	
Heart/lung disease	3 (14.29%)	6 (20.00%)		5 (14.71%)	4 (14.81%)	
MS/rheumatic disorder	2 (9.52%)	3 (10.00%)		2 (5.88%)	3 (11.11%)	
Palliative care	0 (0.00%)	1 (3.33%)		0 (0.00%)	1 (3.70%)	
Other somatic	6 (28.57%)	15 (50%)		7 (20.59%)	13 (48.15%)	
Other psychogeriatric	0 (0.00%)	1 (3.33%)		0 (0.00%)	1 (3.70%)	

^aIndependent samples t test.^bPearson Chi-Square test.

3.4 | Patients' health-related quality of life (EQ-5D-5L)

There were no significant interactions between Time and Group for patients' EQ-5D (β (SE) = 0.01 (0.05), $p = .914$) and EQ-5D-VAS (β (SE) = 2.44 (5.10), $p = .632$).

3.5 | Amount of professional home health care per week

A significant interaction between Time and Group was found for the number of hours of usual HHC per week (β (SE) = 1.23 (0.62), $p = .047$). In the intervention group, the number of hours significantly

decreased from T0 to T1 (β (SE) = -1.07 (0.46), $p = .020$) whereas no significant change was found in the control group (β (SE) = 0.16 (0.41), $p = .703$).

4 | DISCUSSION

The purpose of this study was to evaluate the effects of family nursing conversations in home health care. The results indicate that family nursing conversations improved family functioning and protected family caregivers' well-being by preventing increased caregiver burden whereas patients' quality of life was unaffected. The amount of usual HHC decreased following the family nursing conversations.

TABLE 2 Family members' (FM) and patients' (P) evaluation of the family nursing conversations

		Totally disagree N (%)	Disagree N (%)	Agree N (%)	Totally agree N (%)
I experienced the family nursing conversations as useful	P	0 (0.0)	0 (0.0)	8 (42.1)	11 (57.9)
	FM	0 (0.0)	1 (3.0)	9 (27.3)	23 (69.7)
For me, the family nursing conversations have contributed to:					
...improved insight in the care situation	P	0 (0.0)	0 (0.0)	13 (68.4)	6 (31.6)
	FM	0 (0.0)	2 (5.9)	14 (41.2)	18 (52.9)
...clear agreements about the roles and tasks of all people who are involved in the care situation	P	0 (0.0)	1 (5.6)	9 (50.0)	8 (44.6)
	FM	0 (0.0)	1 (2.9)	16 (47.1)	17 (50.0)
...insights in the needs and desires of all people who are involved in the care situation	P	0 (0.0)	1 (5.6)	10 (55.6)	7 (38.9)
	FM	0 (0.0)	1 (2.9)	20 (58.8)	13 (38.2)
...increased mutual understanding for each other in our family	P	1 (2.9)	1 (5.6)	11 (61.1)	6 (33.3)
	FM	0 (0.0)	1 (2.9)	16 (47.1)	16 (47.1)

The results of this study demonstrate that family nursing conversations embedded in HHC can contribute to preventing family caregiver burden over time. Although the intended 8-point difference on the CarerQoL was not achieved, a substantial difference between the groups nonetheless emerged. The increase in family caregiver burden in the control group is to be expected in a population with frail older patients with gradually decreasing self-care abilities and increasing support needs (Dauphinot et al., 2016; Ransmayr et al., 2018; Van der Lee et al., 2014). A reason that family nursing conversations prevented this increase in caregiver burden can be found in previous qualitative studies. These indicate that conversations based on the Family Systems Nursing framework leave family members feeling strengthened and relieved and encouraged them to regard their own needs (Dorell et al., 2016) and made the illness situation more manageable through the support of other family members (Benzein et al., 2015).

Results further demonstrate that perceived family functioning in both patients and family members improved significantly following the family nursing conversations. Other studies also found that poor family functioning is associated with caregiver burden (Francis et al., 2010; Heru et al., 2004; Tremont et al., 2006). However, in the control group, caregiver burden increased, but family functioning improved, although significantly less compared with the intervention group. The improvements in family functioning in the control group, therefore, were unexpected and could be a consequence of nurses' and families' study participation. Nurses may have become more aware of the nursing diagnoses related to caregiver burden and adjusted their practice. Family members' may have been stimulated to think about their family functioning by filling in the questionnaires.

Patients' quality of life did not improve following the family nursing conversation. A previous study, however, found improvements in middle aged stroke patients' quality of life as measured with the EQ5D (Lämås et al., 2016). The older and more heterogeneous patient sample in the current study might explain the lack of effect. In addition, the power in the relatively small patient sample may have

been insufficient. Finally, it could be that effects on patients' quality of life only emerge after longer periods of time. Effects of family nursing conversations on patients' well-being must be further explored in future studies.

To our knowledge, the effects of conversations based on Family Systems Nursing on the required amount of professional care have not been previously studied. This study found a reduction in the amount of professional HHC after two family nursing conversations. Nurses explained this decrease by a more efficient distribution of professional care over patients and an increase in family caregiving. The effects of the conversations on the use of other types of health care and on personal and societal costs associated with caregiver burden (Colombo et al., 2011) must be assessed from a broader societal perspective in future research. It is possible that care in the intervention group has shifted from HHC to other health care services such as day care or nursing home care. However, this seems unlikely as the use of day care services and nursing home placement is usually related to increasing caregiver burden (Chenier, 1997; Kuzuya et al., 2011; Mittelman et al., 2006) and caregiver burden was prevented through the conversations.

This study was designed to test the effects of family nursing conversations as they are applied in a real life context as part of usual HHC with a high workload. Nurses fulfilled a dual role with organizing and conducting the conversations as part of usual nursing care and approaching potential participants and monitoring dropout. Nurses were also requested to register who they approached; who declined and why; and to record which of the components they had applied. This seemed feasible to nurses beforehand, however, it was soon realized that it took too much time. According to the nurses, the inability to achieve the intended sample size was primarily due to the amount of time associated with the study for themselves and the families and not to the feasibility of the intervention. Nurses' comments during group meetings and participants' evaluations of the conversations suggest that the family nursing conversations were valuable to both nurses and families.

TABLE 3 Family member, patient, and home healthcare variables – Main and interaction effects of Time (T0 = pre-intervention; T1 = post-intervention) and Group (group 1 = intervention; group 2 = control)

Variable (range)	Main effect Time within group 1			Main effect Time within group 2			Interaction effect Time × Group ^e			
	Mean (SD) T0	Mean (SD) T1	β (SE)	p	Mean (SD) T0	Mean (SD) T1	β (SE)	p	β (SE)	p
Family members' caregiver burden (CarerQoL) and family functioning (FAD-N-GF)										
CarerQoL 7D ^a (0–100)	83.05 (11.94)	84.49 (12.27)	1.44 (2.02)	.413	85.88 (11.24)	81.58 (11.65)	-4.30 (1.67)	.010*	5.74 (2.43)	.018*
CarerQoL VAS ^a (0–10)	7.12 (1.23)	7.28 (1.18)	0.16 (0.18)	.378	7.13 (1.12)	6.84 (1.07)	-0.29 (0.18)	.092	0.45 (0.25)	.073
FAD-N-GF ^b (1–4)	2.61 (0.29)	3.46 (0.44)	0.85 (0.09)	<.001*	2.80 (0.50)	3.18 (0.57)	0.38 (0.11)	<.001*	0.47 (0.14)	.001*
Patients' health-related quality of life (EQ5D) and family functioning (FAD-N-GF)										
EQ5D 5D ^c (-0.33 to 1)	0.66 (0.18)	0.60 (0.22)	-0.06 (0.03)	.077	0.56 (0.21)	0.51 (0.26)	-0.05 (0.04)	.168	-0.01 (0.05)	.914
EQ5D VAS ^c (0–100)	60.71 (17.61)	63.90 (21.13)	3.19 (3.99)	.424	57.68 (21.58)	58.43 (17.43)	0.75 (3.18)	.813	2.44 (5.10)	.632
FAD-N-GF ^d (1–4)	3.35 (0.50)	3.58 (0.47)	0.23 (0.10)	.023*	3.21 (0.42)	3.04 (0.38)	-0.18 (0.10)	.071	0.40 (0.14)	.004*
Home health care in hours per week in the week prior to T0 and the week of T1										
Hours	4.95 (3.62)	3.87 (3.42)	-1.07 (0.46)	.020*	5.71 (5.23)	5.87 (6.24)	0.16 (0.41)	.703	-1.23 (0.62)	.047*

^an group 1 = 34; n group 2 = 27.

^bn group 1 = 29; n group 2 = 20.

^cn group 1 = 21; n group 2 = 30.

^dn group 1 = 14; n group 2 = 21.

^eModel = intercept, time, group, time × group.

*Difference significant at $p < .050$.

4.1 | Implications

The positive impact of family nursing conversations on family functioning and caregiver burden are important findings in the context of policy changes that emphasize family caregiving (Broese Van Groenou & De Boer, 2016). Often, family relationships are not optimally suited for a situation of caregiving (Hogerbrugge & Silverstein, 2015). HHC nurses are increasingly expected to provide care that is supplementary to the care offered by families (Broese Van Groenou & De Boer, 2016; Funk, 2013). To protect family members' well-being, nurses must provide support and collaborate with families (Calvo-Perxas et al., 2018; Wittenberg et al., 2019). It seems important, therefore, that these conversations become part of regular nursing education to optimally prepare nurses for their responsibilities to families in society. The International Family Nursing Association has established position statements on pre-licensure and graduate education that can be used to develop education (IFNA, 2013, 2018).

In future studies, the effects of family nursing conversations in subgroups such as specific patient diagnoses can be assessed. Additionally, the effects of the intervention on nurses' work satisfaction and nurse staffing ratios and nurse-family relationships could be assessed. Finally, exploring the patterns of change as they occur over time following a family nursing conversation could assist in finding the optimal dose of the intervention and determining longer-term effects.

4.2 | Limitations

Several study limitations were related to the pressure that the study put on participating nurses' workload. A first limitation is that the approach of eligible participants was not registered systematically. It could be that families that were heavily burdened are underrepresented in the results, especially since participants that were lost to follow-up frequently indicated that they experienced filling in the questionnaire as too burdensome. Nurses might have hesitated to approach families experiencing severe burden because they did not want to add further burden. On the other hand, families that are more heavily burdened have been found to be more likely to consent to participate in a survey study (Oldenkamp et al., 2016). Another limitation was the smaller than intended sample sizes suggesting that the results must be interpreted with caution. A final limitation related to nurses' workload was that intervention fidelity was not assessed systematically in the current study.

In addition to these limitations, random allocation of participants to groups was not feasible as intervention group nurses participated in an educational program that would have changed their approach toward both intervention and control group participants (Broekema et al., 2018). Finally, as teams were not randomly selected, selected nurses may be more motivated for family-focused care than the average nurse.

5 | CONCLUSION

An intervention consisting of two family nursing conversations integrated into HHC reduced the required amount of professional HHC while preventing an increase in caregiver burden and positively affecting family functioning. As such, this intervention helps nurses to extend their nursing care to include patients' families and could be a valuable response to the expected insufficient availability of professional care in ageing societies.

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CONFLICT OF INTEREST

No conflict of interest has been declared by the authors.

AUTHOR CONTRIBUTIONS

All authors have agreed on the final version and meet at least one of the following criteria (recommended by the ICMJE):

1. substantial contributions to conception and design, acquisition of data, or analysis and interpretation of data;
2. drafting the article or revising it critically for important intellectual content.

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