Research Article

Engagement in Everyday Activities among People Living in Indian Nursing Homes: The Association with Person-Centredness

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Keywords

Everyday activities · Person-centred care · Nursing home · India

Abstract

Introduction: It has been reported that residents living in nursing homes are often inactive and lonely and are offered a limited number of activities. However, high engagement in activities has been reported to improve residents' quality of life and engagement in personalized activities can even reduce agitation and enhance positive mood. Information regarding occupational patterns and purpose in life is well established in Western countries. However, we know next to nothing about how people living in Indian nursing homes spend their days.

Objective: To explore the participation in everyday activities among older people in Indian nursing homes and the extent to which engagement in activities is associated with person-centred care. **Methods:** The study was conducted in 6 nursing homes in India, comprising 147 residents. In all, 23 nursing staff took part and completed a 26-item questionnaire about resident activities based on the Multi-Dimensional Dementia Assessment Scale and the Person-Directed Care Questionnaire. Person-centredness was measured with the Person-Centred Care Assessment Tool. **Results:** We found low participation in everyday activities among the residents. Participation in religious activities was the most frequent, whereas the least used activities were excursions, participating in cultural activities, taking part in educational programmes, visiting a restaurant and going to the cinema. A significant positive association was found between person-centred care and participation in religious activities, engagement in an activity programme and physical activity. **Conclusions:** The most frequently attended activity was religious activities. Person-centred care was associated with participation in religious activities, engagement in an activity programme, physical activity, spending time in the garden and playing and listening to music.

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Introduction

By 2050, India's population aged 60 years and older is expected to encompass 323 million people. Many of them will be in need of care, and thus, India's system of family-based support will not be able to withstand the increased number of older Indians with functional impairments [1] since traditional family-based care is becoming less common [2, 3]. This trend is due to lower birth rates, migration for employment, more women taking up employment and children moving out [4, 5]. The increased life expectancy among old people in India will lead to more need for geriatric care and support [6], and this change requires a shift in resources and services to respond to an aging population [7].

It has been reported that residents living in nursing homes are often inactive and lonely [8] and are offered a limited number of activities [9]. This limitation exists despite the recommendation from NICE [10] to provide activities for older people living in nursing homes. High engagement in activities has been reported to improve residents' quality of life [11], and engagement in personalized activities can even reduce agitation [12] and enhance positive mood [13]. It has also been reported that being engaged in various hobbies [14] and house-keeping activities [15] could enhance residents' quality of life. Furthermore, engagement in everyday activities can support personhood and thriving among nursing home residents [16]. Nevertheless, Palacios-Cena et al. [17] questioned whether the importance of providing meaningful activities in nursing homes was understood by the staff. This sentiment was supported in Kada et al. [18] who revealed that nursing staff doubted that the residents derived any benefit or joy in attending activities. This attitude is not consistent with the philosophy of person-centred care. The cornerstone of person-centred includes empowering nursing home residents to take independent choices in life and participate in decision making with regard to provision of care and activities [19–21]. Person-centredness is an approach to practice, established through a healthful relationship between care providers, care recipients and significant others in the care recipients' lives. It is underpinned by values of respect for persons, individual right to self-determination, mutual respect and understanding. It is enabled by cultures of empowerment that foster continuous approaches to practice development [22]. In recent decades, person-centred dementia care has been introduced as the worldwide intervention of choice to develop high-quality dementia care in nursing homes [19, 21, 23]. Essential elements of person-centred dementia care have been described in the VIPS framework as valuing people with dementia (V), individualized care (I), understanding the world from the perspective of the person with dementia (P) and providing a social environment that supports the needs of the person (S) [24]. However, the implementation of person-centred practice in nursing homes have been described as a complex and challenging intervention [25]. Organizational factors such as the size of the unit [25, 26], staff levels [27] and leadership [28–30] appear to influence the outcome of the interventions.

Information regarding occupational patterns and purpose in life is well established in Western countries. However, we know next to nothing about how people living in Indian nursing homes spend their days. Hence, the aim of this study is to explore the participation in everyday activities among older people in Indian nursing homes and the extent to which engagement in everyday activities is associated with person-centred care. Even though the sample size is relatively small, this study to our knowledge is the first study of its kind in India.

Material and Methods

A cross-sectional design was used to collect data on participation in activities and person-centredness in Indian nursing homes.

Sampling and Participants

This study was conducted in 6 nursing homes in India, all run by religious orders, of which 4 are located in Tamil Nadu, 1 in Goa and 1 in Maharashtra. Two of the nursing homes are located in rural areas, providing care for poor people, whereas the other nursing homes are located in cities. One provides care for people from the middle class and 3 for members of the religious orders.

The nursing homes were all used as clinical placements for Norwegian nursing students in project management. All the 147 residents and 23 English-speaking nursing staff in the nursing homes were eligible for the study.

Data Collection

One student in each nursing home was appointed to oversee the study and serve as the contact person between this article's first author and the director of nursing. The residents' data were collected in January and February 2018 and January and February 2019 over a 5-day period. A period of 5 days was chosen in order to be able to compare it with a similar study conducted in Sweden [16]. The assessments were made by 17 Norwegian Bachelor of Nursing students in their third academic year. In order to ensure that their data collection method was uniform, this article's first author provided a training in the use of the assessment tools.

The data related to the residents' age and gender were obtained from the residents' records. The nursing staff participants were asked for information related to their age, level of education and years of experience working in geriatric care.

Instruments

To evaluate the residents' engagement in everyday activities and activity type engaged in over a period of 5 days, a 26-item questionnaire described by Bjork et al. [16] was used. The 26 items are based on the Multi-Dimensional Dementia Assessment Scale [31] and the Person-Directed Care Questionnaire by White et al. [32]. The engagement items were formulated as statements; for example, "Estimate if the residents were engaged in the following activities the last 5 days." Furthermore, a dichotomous scale with yes or no options was also included. The Multi-Dimensional Dementia Assessment Scale has demonstrated satisfactory intra- and interreliability [31].

All care staff were invited to provide self-reported data on person-centred care using the Person-Centred Care Assessment Tool (P-CAT). The P-CAT was developed as a self-report assessment scale for care staff to rate the extent to which their care practice was considered person-centred [33]. The P-CAT questionnaire consists of 13 items formulated as statements about person-centredness, and a 5-point scale ranging from 1 (disagree completely) to 5 (agree completely) is used for scoring purposes, giving a possible range of 13–65 [33]. Based on factor analyses, two subscales have emerged to evaluate the extent of personalized care, with a possible score range of 8–40, and the extent of organizational and environmental support, with a possible score range of 5–25 [34]. The scale has been reported as having satisfactory psychometric properties [33, 34].

Statistical Analyses

Descriptive statistics was used to describe the residents' age and gender and their engagement in everyday activities. In addition, staff age, years of experience working with older people and education were described. The categorical data were presented as percentages, whereas continuous data were presented as means and standard deviations. The 26 everyday activities were coded into 7 activity categories, partly based on the *Occupational Therapy Practice Framework: Domain and Process* 3rd edition [35], and presented as percentages.

Table 1. Characteristics of the older people and nursing staff

	Total	Nursing homes					
		A	B	C	D	E	F
Residents, <i>n</i>	147	20	25	20	39	30	13
Gender, <i>n</i>							
Women	137	20	23	12	39	30	13
Male	10	0	2	8	0	0	0
Residents' mean age, years	76.8	84.8	79.8	72.8	76	71.6	79.3
Participating nursing staff, <i>n</i>	23	7	4	4	5	1	2
Nurses	14	4	4	2	2	1	1
Non-nurses	9	3	0	2	3	0	1
Nursing staff mean age, years	53.4	43.8	57	63.7	50.4	72	57.5
Nursing staff mean years of experience in older people care	8.9	2.8	25	5.2	4.4	28	6.5
Over 5 years, <i>n</i>	11	1	3	3	2	1	1
Below 5 years, <i>n</i>	12	6	1	1	3	0	1

Before analysing the P-CAT data, the responses on negative statements in the questionnaire were recorded and reversed. The mean value of the total score of person-centeredness and the two subscales were calculated for each nursing home. The association between engagement in activities and level of person-centred care was explored using independent *t* tests, where the significant level was set at a *p* value of <0.01. The analyses were performed using the Statistical Package for Social Sciences (SPSS) version 26. There was no missing data.

Results

As shown in Table 1, the mean age of the 147 residents was 76.8 ± 10.2 years, ranging from 40 to 94 years, and 137 (86.7%) were women. The one person below 65 years of age was placed in the nursing home due to multiple handicaps. The mean age of the 23 nursing staff was 53.4 ± 17.1 years, and all of them were women. Their mean years of working experience in geriatric care was 8.9 ± 11.3 years, and 11 (47.8%) had over 5 years of experience. Most of the nursing staff (60.9%) were registered nurses, whereas 9 (39.1%) were nursing assistants or without formal education in health care.

Observed Participation in Everyday Activities

As described in Table 2, the mean participation in the 26 everyday activities was 9.7 ± 3.7 , ranging from 13.5 ± 3 to 6.2 ± 2.1 . Among social and relational activities, participating in religious activities was the most commonly used activity, as 127 (86.4%) of the residents took part. Other common occurring everyday activities the residents participated in during the week included the following: dressing nicely (81.6%), spending time with someone they like (72.8%) and talking to relatives and friends (68%). A total of 89 (60.5%) of the residents received hugs and physical touch regularly and 83 (56.5%) were doing everyday chores. The least used activities observed were being on excursions (2.7%), participating in cultural activities (2.7%), taking part in an educational programme (1.4%), visiting a restaurant (0.7%) and going to the cinema (0%).

In 2 of the nursing homes (A and C), nearly all residents were engaged in physical activities regularly (85 and 100%, respectively); however, in the other 4 nursing homes, fewer

Table 2. Residents participating in everyday activities

Nursing homes ^a							
	total (<i>n</i> = 147)	A (<i>n</i> = 20)	B (<i>n</i> = 25)	C (<i>n</i> = 20)	D (<i>n</i> = 39)	E (<i>n</i> = 30)	F (<i>n</i> = 13)
<i>Play activities (group)</i>							
12. Engaging in an activity programme	28 (19)	18 (90)	0	0	2 (5.1)	0	8 (61.5)
13. Engaging in physical activity	49 (33.3)	17 (85)	7 (28)	20 (100)	3 (7.7)	1 (3.3)	1 (7.7)
22. Playing parlour games with others	26 (17.7)	15 (75)	0	0	4 (10.3)	0	7 (53.8)
<i>Leisure activities (individual)</i>							
6. Watching TV	56 (38.1)	10 (50)	11 (44)	3 (15)	13 (33.3)	7 (23.3)	12 (92.3)
9. Playing or listening to music	78 (53.1)	19 (95)	25 (100)	17 (85)	16 (41)	0	1 (7.7)
10. Being outside the nursing home (in the garden)	85 (57.8)	20 (100)	10 (40)	18 (90)	13 (33.3)	15 (50)	9 (69.2)
11. Reading book and newspapers	62 (42.2)	13 (65)	6 (24)	7 (35)	23 (59)	2 (6.7)	11 (84.6)
17. Interacting with pets	28 (19)	0	0	18 (90)	8 (20.5)	0	2 (15.4)
19. Engaging in a hobby	32 (21.8)	7 (35)	2 (8)	0	12 (30.8)	10 (33.3)	1 (7.7)
21. Writing or drawing	28 (19)	13 (65)	0	2 (10)	11 (28.2)	1 (3.3)	1 (7.7)
<i>Social and relational activities</i>							
1. Receiving hugs/physical touch	89 (60.5)	15 (75)	1 (4)	19 (95)	25 (64.1)	16 (53.3)	13 (100)
2. Talking to relatives/friends	100 (68)	14 (70)	13 (52)	1 (5)	36 (92.3)	27 (90)	9 (69.2)
3. Receiving visitors	38 (25.9)	13 (65)	5 (20)	0	18 (46.2)	1 (3.3)	1 (7.7)
4. Having everyday conversations with staff not related to care	93 (63.3)	18 (90)	2 (8)	20 (100)	28 (71.8)	18 (60)	7 (53.8)
7. Spending time with someone the resident likes	107 (72.8)	15 (75)	13 (52)	18 (90)	31 (79.5)	27 (90)	3 (23.1)
15. Participating in religious activities	127 (86.4)	20 (100)	24 (96)	18 (90)	25 (64.1)	27 (90)	13 (100)
<i>Basic activities for daily living</i>							
5. Grooming (hairdressing, shaving, make up, manicure, etc.)	76 (51.7)	3 (15)	14 (56)	20 (100)	23 (59)	15 (50)	1 (7.7)
8. Dressing nicely	120 (81.6)	20 (100)	21 (84)	14 (70)	28 (71.8)	25 (83.3)	12 (92.3)
20. Having a massage	7 (4.8)	4 (20)	0	2 (10)	0	0	1 (7.7)
<i>Instrumental activities for daily living</i>							
23. Doing everyday chores (making coffee, setting the table, etc.)	83 (56.5)	11 (55)	0	15 (75)	24 (61.5)	22 (73.3)	11 (84.6)
<i>Educational activities</i>							
25. Taking part in an educational program	2 (1.4)	1 (5)	0	0	1 (2.6)	0	0
<i>Outings and cultural activities</i>							
14. Participating in celebrations	37 (25.2)	0	1 (4)	0	12 (30.8)	11 (36.7)	13 (100)
16. Participating in cultural activities	4 (2.7)	20	0	0	0	0	0
18. Being on excursions	4 (2.7)	1 (5)	0	1 (5)	2 (5.1)	0	0
24. Visiting a restaurant	1 (0.7)	0	0	0	1 (2.6)	0	0
26. Going to the cinema	0	0	0	0	0	0	0

^a Figures are number of residents (%) who participated in activities during 1 week.

Table 3. Person-centred care (mean score)

	Total (n = 23)	A (n = 7)	B (n = 4)	C (n = 4)	D (n = 5)	E (n = 1)	F (n = 2)
Extent of personalized care							
1. We often discuss how to give person-centred care	29.6	31.7	32.7	30.5	22.4	31	32
2. We have formal team meetings to discuss residents' care	4	3.9	4.7	4.2	3.4	4	5
3. The life history of the residents is formally used in the care plans we use	3.5	3.7	4	3.2	2.4	4	5
4. The quality of the interaction between staff and residents is more important than getting the tasks done	3.3	2.8	4	3.7	2.8	4	4
5. We are free to alter work routines based on residents' preferences	4	4.4	5	4.5	2.2	4	4
6. Residents are offered the opportunity to be involved in individualized everyday activities	3.7	4.3	4.2	3.5	2.6	4	4
7. Assessment of residents' needs is undertaken on a daily basis	4	4.4	4.7	4.7	2.4	4	4
13. Residents are able to access outside space as they wish	3.4	3.8	4	3.2	3.2	2	2
	3.9	4.3	4	3.2	3.4	5	4.5
Organizational and environmental support							
8. I simply do not have the time to provide person-centred care*	19.5	18	23	20.5	17.2	17	23
9. The environment feels chaotic*	4.3	4.3	4.2	4.2	4.2	4	5
10. We have to get the work done before we can worry about a homelike environment*	3.6	3.3	4.5	4	3	2	5
11. This organization prevents me from providing person-centred care*	3.8	3.3	4	4.2	3.6	4	5
12. It is hard for residents in this facility to find their way around*	3.8	4	4.5	4.5	3	2	3.5
	3.6	3.1	3.7	4	3.4	5	4.5
Total	49.3	49.7	55.7	51.5	39.6	48	55.5

* Reversed scored item.

residents took part, ranging from 3.3 to 28%. Engaging regularly in an activity programme was reported in 2 nursing homes, A and F (90 and 61.5%, respectively), whereas only few of the residents in the other 4 nursing homes were engaged in this kind of activity.

In 3 of the nursing homes (A, B and C), the residents were often playing and listening to music, whereas this was rarely observed in the other 3 nursing homes. Receiving hugs and physical touch was observed in most nursing homes, except in 1 (B), where this was reported to be observed in only 4% of the residents. In most nursing homes, except for 1 (B), the residents performed everyday chores. None of the residents visited cinemas, and only 1 resident in nursing home D was observed to visit a restaurant.

Person-Centred Care as Measured using P-CAT

The P-CAT scores in the participating nursing homes are presented in Table 3. The mean P-CAT score was 49.3 ± 6.6 . Nursing home B reported the highest score (55.7 ± 1.2), and nursing home D the lowest (39.6 ± 6.5). Furthermore, the mean score for “extent of person-alized care” was 29.6 ± 4.2 , whereas the mean “organizational and environmental support” score was 19.5 ± 3.1 . Nursing home B also scored the highest on both subscores, and nursing home D had the lowest scores on both subscales.

The Association between Person-Centred Care and Participation in Everyday Activities

The association between P-CAT scores and participation in everyday activities is illustrated in Table 4. No significant correlations between the mean number of activities the residents engaged in and evaluation of person-centred care as measured by P-CAT ($p = 0.394$) were found. However, residents who participated in group activities, such as an activity programme ($p = 0.037$) and physical activities ($p = 0.001$), lived in nursing homes with significantly higher P-CAT scores as compared to those who did not. Furthermore, a significant association was found between higher P-CAT scores and certain leisure activities such as playing and listening to music ($p = 0.000$) and being outside the nursing home ($p = 0.010$). Participating in religious activities was also positively associated with higher P-CAT scores ($p = 0.000$). Residents being engaged in everyday chores lived in nursing homes with a significantly lower P-CAT score ($p = 0.013$), a trend which was also reported for most of the social and relational activities, such as talking to friends ($p = 0.000$), receiving visitors ($p = 0.002$), having everyday conversation with staff not related to care ($p = 0.001$) and spending time with someone the residents like ($p = 0.002$) (Table 4).

Discussion

The aim of this study was to explore the participation in everyday activities among older people in Indian nursing homes and the extent to which engagement in everyday activities was associated with person-centred care.

In general, we discovered low participation in everyday activities. Participation in religious activities was the most frequent activity. Additionally, we discovered that residents who engaged in religious activities, activity programmes, physical activities and who spent time in the garden, played and listened to music lived in nursing homes that reported more person-centred care practice. Furthermore, more than half of the residents participated in householding activities. Few residents were engaged in physical activities. Participation in education programmes, watching cinema and visiting restaurants were the least commonly engaged activities.

The relatively low participation among the residents in everyday activities was consistent with previous findings of Edvardsson et al. [36] and Kjøs and Havig [9]. The low participation

Table 4. The association between everyday activities and level of person-centred care (mean score)

	P-CAT yes	P-CAT no	p value
<i>Play activities (group)</i>			
12. Engaging in an activity programme	50.6	48	0.037
13. Engaging in physical activity	50.8	47.3	0.001
22. Playing parlour games with others	49.7	48.2	0.262
<i>Leisure activities (individual)</i>			
6. Watching TV	49.7	47.7	0.055
9. Playing or listening to music	50.1	46.6	0.000
10. Being outside the nursing home (in the garden)	49.5	47	0.010
11. Reading book and newspapers	47.7	49.9	0.194
17. Interacting with pets	48.3	48.5	0.909
19. Engaging in a hobby	45.9	49.2	0.007
21. Writing or drawing	46	49	0.015
<i>Social and relational activities</i>			
1. Receiving hugs/physical touch	47.8	49.4	0.111
2. Talking to relatives/friends	46.9	51.7	0.000
3. Receiving visitors	45.8	49.3	0.002
4. Having everyday conversations with staff not related to care	47.2	50.5	0.001
7. Spending time with someone the resident likes	47.5	50.9	0.002
15. Participating in religious activities	49.3	42.8	0.000
<i>Basic activities for daily living</i>			
5. Grooming (hairdressing, shaving, make up, manicure, etc.)	48	49	0.316
8. Dressing nicely	48.8	46.8	0.110
20. Having a massage	51	48.3	0.256
<i>Instrumental activities for daily living</i>			
23. Doing everyday chores (making coffee, setting the table, etc.)	47.7	49.9	0.013
<i>Educational activities</i>			
25. Taking part in an educational programme	44.6	48.5	0.367
<i>Outings and cultural activities</i>			
14. Participating in celebrations	48.1	48.6	0.663
16. Participating in cultural activities	49.7	48.4	0.688
18. Being on excursions	45.1	48.6	0.256
24. Visiting a restaurant	39.6	48.5	0.140
26. Going to the cinema	N/A	N/A	N/A

rate is of concern since lack of stimulation can lead to apathy, boredom, loneliness and even loss of functional skills [37]. The importance of providing everyday activities is also emphasized by the potential of meaningful activities to improve the residents' quality of life [14, 36, 38], enhance positive mood [39] and even increase the experience of dignity [40]. The current study did not focus on the reason for the lack of activities; therefore, the reasons for this deficiency remain unknown. However, Kada et al. [18] demonstrated that providing activities was not considered part of traditional nursing care for older people. This might explain our findings since the mean age of the nursing staff was relatively high (54.4 years).

Another explanation could be that staff do not think that residents benefit from activities [18]. Nevertheless, this is not consistent with the fact that the majority of the nursing staff said that residents were offered the opportunity to be involved in individualized everyday activities as reported in one of the items in the P-CAT questionnaire. A possible explanation

could be in line with the findings of Mondaca et al. [41], who suggested that the deeper meaning of everyday activities might remain invisible to the staff representing and focusing on the institutional routines, or as Smebye and Kirkevold [42] indicated in their study: the activities were not self-evident in the context of nursing homes.

Workload or the high prevalence of residents with cognitive impairment in nursing homes have also been suggested as possible explanations for the lack of provision of activities [43]. It is therefore interesting to observe that the majority of the 23 nursing staff in our study reported that they did not have time to provide person-centred care, and this finding might explain the relatively low participation rate in everyday activities.

The high participating rate in religious activities is not consistent with results of previous studies in Sweden [16]. Only few residents participated in religious activities. Similar findings were reported by Edvardsson et al. [36] and Tak et al. [44], where a minority of the residents had been taken to church during the 1-week observation period. The frequent participation in religious activities reported in our study could probably be explained by the fact that all 6 nursing care homes were run by religious orders and, therefore, had daily mass and prayer. The importance of offering the residents religious activities was supported in Edvardsson et al. [36], who revealed that those who participated in church visits lived in significantly more person-centred nursing homes and had higher quality of life. The significant positive association between person-centred care and participation in religious activities was also demonstrated in our study.

It was interesting to observe that more than half of the residents in the study participated in householding activities at least once a week, which is a much higher percentage than in Edvardsson et al. [36], den Ouden et al. [45] and Bjork et al. [16], as these studies reported that very few participated in householding activities. The promising findings in our study of residents being engaged in everyday chores are supported by the research of Cooney et al. [38]. This kind of engagement has been reported to positively influence residents' quality of life [36] and even to support their sense of self [46]. It might therefore be of concern that nursing home residents in the Western world are offered more organized activities instead of being offered the opportunity to continue engaging in more natural, daily activities. The higher attendance in daily chores found in our study might be explained by the fact that older people who live in nursing homes in India most probably have a higher functional capacity to take care of their activities of daily living (ADL) than residents in European nursing homes. These hypothetical considerations are based on personal and non-documented experiences made by the first author and need to be explored further in future research. Another factor which might explain our findings could be the workload and lack of time to organize activities, as well as a lack of understanding of the importance of keeping older persons occupied with self-directed activities as long as possible. However, it was interesting to observe that residents who were engaged in everyday chores resided in less person-centred nursing homes. This might be explained by the fact that the nursing staff simply allowed the residents to engage in whatever activities they could cope with as long as possible.

The number of residents engaged in physical activities was relatively low considering the recommendations by the World Health Organization (WHO) that older people above 65 years of age should at least have 30 min of regular physical activity of moderate intensity on most days [47]. In addition, research has emphasized that older people should remain physically active as this can decrease the risk of many age-related conditions [48]. The low participation in physical activities in our study was in line with previous studies from Sweden where only approximately half of the residents had been engaged in physical activities during the week [16]. Nevertheless, the Study on Global Ageing and Adult Health (SAGE) Wave 1, which was implemented in India in 2007 as part of a multi-country study in 6 countries to overcome this gap, revealed that older Indians were reasonably active [49]. In comparison, approximately

half of older people living in Indian slums were found to be physically active, which was positively associated with better quality of life [50]. However, in a study conducted by Kalavar et al. [51] investigating the activity patterns among nursing home residents in India, one third of the residents were not engaged in physical activities at all. Furthermore, it is interesting to observe that residents in our study who were engaged in physical activities lived in nursing homes where person-centred care was practiced.

The low participation in education programmes, watching cinema and visiting restaurants might be explained by Indian culture and available resources or by the fact that the majority of residents either were religious sisters or came from a poor background, which meant that they were not used to having hobbies or going to restaurants and cinemas. However, the findings were consistent with a study by Bjork et al. [16] in Sweden that also found that few residents went to the cinema or visited restaurants. In addition, Edvardsson et al. [36] emphasized that residents in nursing homes were at risk of having limited possibilities to engage in self-selected activities and to keep in touch with the community outside the nursing home. Tomioka et al. [52], therefore, suggested that engagement in hobbies and encouraging purpose in life may be useful in preventing decline in basic ADL and instrumental ADL, such as allowing the person to perform daily courses and reducing the risk of mortality. Studies have even suggested that such activities may delay cognitive deterioration [53]. The importance of allowing residents to engage in hobbies was supported in the study by Tak et al. [44], in which nursing home residents expressed that they missed past hobbies greatly.

Only 2 of the nursing homes reported having an activity programme. Even though relatively few residents participated in an activity programme, this result reflected the findings of previous research. One study suggested that engagement in activity programmes had the strongest positive association with residents thriving in nursing home [16]. Residents in the present study who participated in an activity programme lived in nursing homes with significantly higher P-CAT scores. The same association was found among those who played and listened to music and spent time outside the nursing home. Providing an activity programme for residents living in a nursing home is a relatively new concept in the Western world as well. It is therefore interesting that residents expressed that a fixed activity schedule prevented them from being able to make their own choices regarding participation in activities [44]. The possibility of having a choice of activities as well as activities that matter to them was experienced as meaningful and might therefore be as important as providing a scheduled activity programme. Additionally, there appeared to be a change in staff attitude to the traditional activity calendar, and as an alternative, residents were empowered to choose and lead their own ongoing and spontaneous activities and chores [54].

The Importance of Activities to Enhance Person-Centred Care

According to the person-centred care philosophy, to be occupied and engaged in personally significant activities is a basic psychological need [55]. The alternative is a state of boredom, apathy and futility. No single activity can meet the needs of all residents; some have the need for individualized activities, whereas others have a need to provide desirable activities. Therefore, the more the staff know about the persons' past and particularly their deepest source of satisfaction, the more likely it is that they are able to offer tailored and meaningful activities to them [55]. It is not only a question of keeping the residents busy but also one of allowing them to attend activities that are relevant and meaningful to their lives.

It is interesting to observe that most of the activities described in the Indian nursing homes were individual social and relational activities, and few of them were organized group activities. Only 2 of the nursing homes had organized group activities. A review by Strøm et al. [56] revealed that group-based music sessions appeared to have a better effect than indi-

vidual sessions. These findings illustrate the positive potential of organizing group activities for nursing home residents. However, to organize group activities in nursing homes, some basic framework conditions need to be present; namely, the staff's understanding of the importance of such activities and available resources to organize them. As the staff responding to the P-CAT questionnaire mainly disagreed that they had enough time to offer person-centred care (Table 3), time appeared to be a constrained resource. The need for a culture change from a task-oriented approach to a person-centred approach has been emphasized for several years [55, 57]. The importance of staff understanding and attitudes in developing a culture of person-centred care is obvious, as is the need for organizational support and engaged leaders [28–30]. Culture change requires a sense of shared purpose and empowers the staff to take responsibility for the residents' well-being [58]. Numerous staff training programmes to enhance person-centred care have been conducted. Factors that contribute to an effective training programme in care were investigated in a recent review by Surr et al. [59] identifying the common features of the most effective programmes: the importance of an experienced facilitator, providing training directly relevant to the participant's roles, building on previous experience and involving active face-to-face participation. Therefore, replacing the nursing staff with activity coordinators is not recommended. Instead, everyday activities should be used as an opportunity to develop a person-centred relationship between nursing staff and residents.

One limitation of this study was the relatively few participants. Furthermore, all the nursing homes were run by religious orders. Nevertheless, the study provides an important contribution in terms of shedding light on the conditions in Indian nursing homes.

Another limitation was that the activity scale used in this study was relatively old (from 1988) and not adjusted to the Indian context. However, nursing homes in India are a new concept and to our knowledge, no similar studies have been conducted in India.

Conclusion

The findings of the current study are relevant as being engaged in activities has been reported as improving residents' quality of life. The residents most frequently attended religious activities; however, the low engagement in physical activities remains a source of concern. Person-centred care was associated with participation in religious activities, engagement in an activity programme, physical activity, spending time in the garden and playing and listening to music.

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Statements of Ethics

The study was approved by the Norwegian social science data services (NSD). As no residents were interviewed or examined, ethical approval was not required according to the Norwegian Act of medical and health research, as confirmed by the NSD (ref. no. 57526).

However, ethical approval was obtained from the board of management in each nursing home. The need of obtaining approval from the Health Ministry's Screening Committee of

India was considered; however, we were informed that only biomedical and health research conducted after September 2019 need ethical approval.

The sampling was based on voluntary participation. Informed consent was obtained from the residents, or from the next of kin if the person did not have the capacity to complete the consent form. The nursing staff who were willing to participate in the study signed the consent form.

Disclosure Statement

The authors have no conflicts of interest to declare.

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Author Contributions

Benedicte Strøm, Knut Engedal and Anne Marie Rokstad contributed to the design of the research and analysis of the data, while Benedicte Strøm collected the data.

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