Can Health-care Assistant Training improve the relational care of older people? (CHAT) A development and feasibility study of a complex intervention

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Declared competing interests of authors: At the time of the study, Antony Arthur was a member of the National Institute for Health Research Health Services and Delivery Research commissioning board and Jill Maben was a member of the National Institute for Health Research Health Services and Delivery Research researcher-led panel.

Published February 2017
DOI: 10.3310/hsdr05100

Scientific summary

Improving older people’s care: CHAT
Health Services and Delivery Research 2017; Vol. 5: No. 10
DOI: 10.3310/hsdr05100

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Scientific summary

Background
Those aged > 75 years now account for 24% of all hospital admissions, an increase of 57% over the previous decade, with the average hospital stay for this age group simultaneously decreasing from 15.2 to 9.4 days. The quality of health care delivered to older people has come under increased scrutiny. There is evidence that patients judge the quality of the care they receive in terms of the relational aspects of care that include dignity, empathy and emotional support as distinct from functional or transactional aspects of care. Health-care assistants (HCAs) take on an increasing proportion of the direct care of older people in hospital but, until recently, their training needs have been overlooked.

Study aims
We aimed to:
1. understand the values-based training needs of HCAs in maintaining the dignity of, and affording respectful care to, older patients in acute NHS settings
2. develop a values-based training intervention for HCAs designed to address the needs of older patients for high-quality relational care
3. assess the feasibility of a cluster randomised controlled trial to compare the performance of the developed training intervention for HCAs with current training in improving the care of older patients in acute NHS settings.

Methods

Telephone survey
We conducted a telephone survey of all NHS trusts in England to understand what training as usual (TAU) looked like for HCAs caring for older people in hospitals in England. We wanted to establish the structure, content and variability of HCA training and, in particular, training in providing relational care of older patients in hospital. Respondents to the survey were those responsible for HCA training within their trust.

Focus groups and interviews
We conducted focus groups of older people (or their carers) with recent experience of hospital care. The purpose of the focus groups was to understand the care experiences of older people and their expectations of the training HCAs should receive. We conducted semistructured interviews with HCAs and other hospital staff undertaken in each of the three study centres. The purpose of the interviews with HCAs and members of staff who worked alongside them was to gain insights into staff perceptions of the challenges that HCAs face in caring for older people in hospital and to explore interviewees’ perceptions of training needs in this area of care.

Intervention development
A new training intervention for HCAs to improve the relational care of older people was developed: Older People’s Shoes™. The training intervention drew on several sources: focus group and interview data, existing evidence from the literature, an expert panel and learning about the customer care practices of four retail organisations.
Feasibility cluster randomised controlled trial

We conducted a feasibility cluster randomised controlled trial and process evaluation. The feasibility trial compared TAU for HCAs with the new HCA training in relational care of older people, Older People’s Shoes. The unit of randomisation was the hospital ward. Outcomes were assessed at the level of the ward, HCA and patient. Patient-level outcomes were the experience of emotional care and quality of life during their hospital stay as measured by the Patient Evaluation of Emotional Care during Hospitalisation (PEECH) questionnaire and the EuroQol-5 Dimensions (EQ-5D™; EuroQol Research Foundation, Rotterdam, the Netherlands). HCA outcomes were empathy, measured by the Toronto Empathy Questionnaire (TEQ), and attitudes towards older people, measured by the Age Group Evaluation and Description (AGED) inventory. Ward-level outcomes were the quality of HCA–patient interaction measured by the Quality of Interaction Scale (QUIS). The purpose of the feasibility trial and the process evaluation was to determine the feasibility and viability of a definitive trial.

Process evaluation

The process evaluation was conducted in parallel with the feasibility trial. This consisted of observations of the delivery of the intervention, follow-up interviews with trainers and HCA learners and learners’ evaluation following training.

Results

Telephone survey

A total of 113 of the 161 acute hospital trusts in England took part in the telephone survey. One-third of interviewees reported content within their HCA training induction programme that we considered to be relational care. Only two respondents said that their trust covered the subject of ‘customer care’, whereas the majority reported the inclusion of dementia care in HCA induction programmes. Reported challenges in training HCAs were related to resource limitations, engaging ward managers and the diverse nature of the HCA workforce. The most frequently cited challenge for delivering training to the HCA workforce was getting staff released from wards to attend. Emphasis was placed on induction and much less on ongoing training, which is typically devolved to ward managers.

Focus groups and interviews

Older people and those who care for older people broadly agreed on the ways that HCA training in relational care could improve the experiences of patients and HCAs. Older people and their carers stressed the importance of HCAs not stereotyping older people, and friendly, approachable staff who were good listeners made a huge difference to patient experience. HCAs and staff who work with and alongside them highlighted the need to learn how to have difficult conversations with patients and relatives and how to avoid projecting work-related stress. Both groups agreed that relational care needs to be incorporated into other physical care tasks, and that care can only be personal and individual if the person being cared for is known as an individual rather than as a patient.

Older people and their carers, as well as care staff, felt strongly that, to be effective, HCA learning should be rooted in real patient experiences. Simulating the experience of being an older patient in hospital was considered a potentially powerful learning tool but few HCAs had had the opportunity to try this. HCAs wanted learning to build on the assets they bring to the care of older people.

Intervention development

We developed a HCA training intervention, Older People’s Shoes, through a process of synthesising evidence from data collected within phase 1 of the Can Health-care Assistant Training improve the relational care of older people? (CHAT) study, together with other inputs from recognised experts in relevant fields, existing evidence and, more specifically, life-story work and learning from retail sector organisations. We also investigated the content of current initiatives in order to learn from existing tools to avoid overlap and to situate our intervention in the broader context of related initiatives. Carver’s
framework, which proposes four key elements to experiential education, provided a theoretical basis for the design of the training package. The product was refined through a series of intervention development workshops. Older People’s Shoes is a 2-day training course for HCAs caring for older people, delivered by a trainer. Each day comprises three units: (1) getting into older people’s shoes, (2) getting to know older people and (3) learning from customer care. Learning from each unit on the first day consolidated and built on the second day, approximately 1 week later. Materials created as part of the CHAT study and required to deliver the intervention include a trainee course book, a trainer guide and a website.

**Feasibility cluster randomised controlled trial**
A pilot cluster randomised controlled trial was conducted on 12 wards in three NHS trusts to assess the feasibility of a definitive trial to compare the newly developed HCA training package (Older People’s Shoes) with ‘HCA TAU’. Clusters were wards within three acute NHS hospital trusts in England, with outcomes observed at the level of ward, HCA and patient. Ward-level outcomes were observations of the quality of HCA and patient interactions using QUIS. HCA outcomes were empathy as measured by the TEQ and attitudes towards older people measured by the AGED inventory. We measured patient-reported quality of life using the EQ-5D and patient-reported experience of care in hospital using the PEECH questionnaire. Twelve wards took part in the study and six were randomised to each arm of the trial (Older People’s Shoes or TAU). We conducted 91 observation sessions during the 4-week baseline period and a further 96 observation sessions between weeks 9 and 12 post randomisation. We recruited 112 HCAs, of whom 72 completed a baseline questionnaire, 52 completed the first follow-up questionnaire and 40 completed the second follow-up questionnaire. Of 159 eligible patients recruited at baseline and follow-up period, 88 patients returned completed questionnaires. The total estimated cost of the training was £818.20 per HCA, equivalent to an estimated cost of £14.04 per patient.

Although not looking for evidence of effect, the direction of effect at 8 weeks, and to a lesser extent at 12 weeks, for HCAs was in favour of the Older People’s Shoes intervention. There was no evidence that mean interaction ratings differed between Older People’s Shoes and TAU wards. After adjustment for baseline differences, the direction of effect was towards more positive TEQ and AGED inventory scores for HCAs working in Older People’s Shoes wards than for those working in TAU wards. Based on questionnaires completed by patients, the PEECH score, measuring the level of care received, was similar in both arms of the trial and also similar to the scores among those patients who completed questionnaires during the baseline period.

**Process evaluation**
In course evaluation forms and at interviews, HCAs receiving Older People’s Shoes training reported the training intervention to be a highly positive experience. In interviews, HCAs who had undertaken training also described changes to their approach to working with older people and in the way they thought about their work and older patients. Observations of intervention delivery suggested that, although fidelity was generally good, there was an occasional tension between the need to avoid deviating from the trainer guide and the desire to ensure that training delivery was engaging. Trainers and HCA learner interviewees reported that the 2-day structure worked well and that the practical and interactive elements of the Older People’s Shoes intervention were popular with HCA learners and trainers alike. Opinion was divided about particular activities, with the customer care unit the most contentious. The majority of HCA interviewees were able to give examples of changes they had made since attending the training. Trainers enjoyed the experience, although some would have liked more time to prepare. Three trainers felt that one person could deliver the training but two were optimal. In terms of feasibility issues, there was variation between centres and wards in the arrangements made for releasing HCAs to attend the training, but HCAs were keen to attend. Ward observations using QUIS were acceptable to the HCAs interviewed and, although the questionnaires were acceptable, the need to ‘generalise’ in order to complete the AGED inventory scale was reported as difficult by some.
Conclusions

Based on our findings we draw the following conclusions:

1. Training of HCAs in delivering relational care is highly variable between employing NHS hospital trusts. Most training is received at induction and training thereafter tends to be devolved to ward-level mentorship. The needs of older people are addressed in HCA training, but training in relational care does not appear to be a priority. For those with trust-level responsibility for HCA training, getting staff to be released from ward duties is a challenge.

2. For older people and their relatives, their experience of hospital care is shaped by the relationships that they have with the staff who care for them. They are aware of the competing demands placed on staff and the pressures they are under, but being in hospital can generate a feeling of powerlessness that often prevents older patients asking for help.

3. HCAs and other staff are keen to extend their learning in relational care. Training should address HCA learning needs including having difficult conversations with patients and relatives, and ways to manage, and not project, work-related stress. HCAs acknowledge that their work is more rewarding when they have greater knowledge about the lives of the people they care for.

4. A training intervention (Older People’s Shoes) was designed to meet the learning needs of HCAs in delivering high-quality relational care of older people. A transparent process of intervention development was undertaken. Structure and content were informed by the older people and their relatives, HCAs, staff working alongside HCAs, experts in relevant fields and learning theory.

5. Older People’s Shoes was received positively by trainers and HCA learners and appears to meet a need, particularly for established HCAs, that is not met in other training provided by employing trusts.

6. The estimated per patient cost of a HCA receiving training in Older People’s Shoes training is relatively small (£10.00–20.00) when considering the average cost of a hospital stay for patients from this population (approximately £2000).

7. Drawing on lessons from the present study, we propose that a definitive cluster randomised controlled trial of the Older People’s Shoes intervention would be viable if the following methodological and contextual aspects were addressed.

- Although the focus on HCAs was considered a strength, greater awareness of this HCA-targeted intervention among ward managers and other ward staff members will reinforce messages about relational care in the work place following intervention delivery. Ward manager involvement should extend beyond permission for ward participation.

- Greater involvement of ward managers is likely to improve recruitment. Ward- and patient-level outcomes are relevant only if a high proportion (> 80%) of the HCAs within each ward are recruited and ‘treated as intended’ within the trial.

- Greater commitment and recruitment may be secured with a waiting list design, whereby all wards (and HCAs) recruited are confident of ultimately receiving the intervention.

- Ward managers need to be confident that they can secure backfill for staff to be released for training. Although trusts supported the CHAT study, it was not always clear how funds agreed for backfill could be secured by ward managers.

- HCAs are willing to participate, but are reluctant to complete questionnaires at three time points. The AGED inventory appears to be a discriminatory measure, but completion is suboptimal.

- More extensive training is needed for observers using QUIS. Where discrepancies occur between paired observers, this is typically when (and whether or not) one interaction ends and another begins rather than in the rating of the quality of the interaction.

- The use of trust-based research nurses to recruit patients has the advantage of impartiality, as they are separate from both the research and ward teams. However, the additional layer this creates in communicating with an already hard to access population needs to be addressed.

- Patients are willing to participate but questionnaire completion is burdensome. Methods of completion used by other studies to secure patient questionnaire completion (e.g. prior to discharge, using interviewers and/or proxies) need to be explored.
**Trial registration**

This trial is registered as ISRCTN10385799.

**Funding**

Funding for the study was provided by the Health Services and Delivery Research programme of the National Institute for Health Research.
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The research reported in this issue of the journal was funded by the HS&DR programme or one of its preceding programmes as project number 12/129/10. The contractual start date was in January 2014. The final report began editorial review in February 2016 and was accepted for publication in September 2016. The authors have been wholly responsible for all data collection, analysis and interpretation, and for writing up their work. The HS&DR editors and production house have tried to ensure the accuracy of the authors’ report and would like to thank the reviewers for their constructive comments on the final report document. However, they do not accept liability for damages or losses arising from material published in this report.

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