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A process evaluation of the NIDUS-Professional dementia training intervention
for UK homecare workers

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ORCID logo <https://orcid.org/0000-0003-4647-8950>, Banerjee, S and Cooper, c (2024) A process evaluation of the NIDUS-Professional dementia training intervention for UK homecare workers. *Age & Ageing*, 53 (5). ISSN 0002-0729

<http://dx.doi.org/10.1093/ageing/afae109>

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ABSTRACT (247/250 words)

Introduction

This process evaluation was conducted in parallel to the randomised controlled feasibility trial of NIDUS-Professional, a manualised remote dementia training intervention for homecare workers (HCWs), delivered alongside an individualised intervention for clients living with dementia and their family carers (NIDUS-Family). The process evaluation reports on (i) intervention reach, dose, and fidelity, (ii) contexts influencing agency engagement, and (iii) alignment of findings with theoretical assumptions about how the intervention might produce change.

Methods

We report proportions of eligible HCWs receiving any intervention (reach), number of sessions attended (dose; attending $\geq 4/6$ main sessions was predefined as adhering), intervention fidelity and adherence of clients and carers to NIDUS-Family (attending all 6-8 planned sessions). We interviewed HCWs, managers, family carers and facilitators. We integrated and thematically analysed, at homecare agency level, qualitative interview and intervention recording data.

Results

32/141 (23%) of eligible HCWs and 7/42 (17%) of family carers received any intervention; most who did adhered to the intervention (89% and 71%). Intervention fidelity was high. We analysed interviews with 20/44 HCWs, 3/4 managers and 3/7 family carers, and intervention recordings involving 32/44 HCWs. All agencies reported structural challenges in supporting intervention delivery. Agencies with greater management buy-in had higher dose and reach. HCWs valued NIDUS-Professional for enabling group reflection and peer support, providing practical, actionable care strategies, and increasing their confidence as practitioners.

Conclusion

NIDUS-Professional was valued by HCWs. Agency management, culture and priorities were key barriers to implementation; we discuss how to address these in a future trial.

Keywords: dementia, homecare, training, carers, process evaluation, implementation

Key points:

Homecare workers (HCWs) valued the rare opportunity to speak with peers, reflect on experiences, and learn new strategies. Training increased HCW skills and confidence, empowering practice change. The intervention was delivered with high fidelity and achieved high adherence among those who received any. Staff shortages, heavy workloads, competing priorities, and management buy-in were key barriers to implementation. Flexibility including remote delivery and individual catch-up sessions helped increase intervention 'dose'.

INTRODUCTION

An estimated 400,000 UK people living with dementia and their families rely on paid care services [1]. Additional dementia-specific training for homecare workers (HCWs) is needed [2]. Interventions have improved quality of care for those living with dementia in care homes [3, 4], but HCWs often work alone in clients' homes, so their role and training needs differ from staff working in communal settings. Evidence is limited on how to develop sustainable training models in a setting characterised by staff turnover, heavy workloads and tight schedules [5].

We conducted a feasibility Randomised Controlled Trial of NIDUS-Professional, a training and support intervention for HCWs that aimed to improve staff sense of competence in dementia care, reduce burn out, and improve quality of care and life of clients with dementia. NIDUS-professional (Table 1S; supplementary material), previously reported to have broadly met criteria for progression to a full trial [6], comprised six, 1-1.5-hour, manualised video-call group sessions delivered over three months by two non-clinical facilitators, then three monthly catch-up groups to support application of learning into practice. HCWs who could not attend a session received individual catch-up sessions. Agency managers were offered three individual sessions. Eligible clients and carers were offered the dyadic NIDUS-Family intervention, described elsewhere [7-9]

Process evaluations are increasingly used alongside complex intervention trials [10-13]; this process evaluation aimed to contextualise our findings, informing the future trial. Our NIDUS-Professional logic model (Figure 1) outlines theoretical assumptions about how the intervention might work and guided by this model, we aimed to report: (aim 1) intervention reach, dose, and fidelity, (aim 2) contexts influencing agency engagement and (aim 3) how findings align with theoretical assumptions about intervention mechanisms.

METHODS

Study design

To understand how context influenced NIDUS-Professional implementation [14], we used the MRC guidance on evaluating complex interventions [13]. The design and development of the logic model (see, Figure 1) demanded a theory-driven, mixed methods, case study design, where cases were intervention arm agencies. The study was approved by London-Camden and King's Cross National Research Ethics Committee (20/LO/0567); registered protocol ISRCTN15757555.

Data collection

Following informed consent, socio-demographic details were collected within the NIDUS-Professional RCT, with attendance data logged at training and follow-up sessions [10]. All HCWs were invited to participate in focus groups and/or interviews following completion of the main sessions (at 3 months) (semi-structured interview guide, Appendix 1S) and for feedback regarding monthly catch-up sessions, via email or phone at six months (Appendix 2S). Participants not interviewed at three months, were invited for interview at six months. Managers were interviewed separately. Interviews were conducted with carers to explore potential links between the NIDUS-Professional and NIDUS-Family interventions. We invited intervention facilitators, the supervising clinical psychologist, and trial manager to individual interviews. All data collection was remote, by telephone, video-call, or email due to pandemic restrictions. Interviews and intervention sessions were audio-recorded.

Analysis

We used recruitment and attendance logs to calculate reach: the proportion of participants referred to the study from intervention arm agencies receiving intervention sessions. Dose was calculated as the proportion of planned intervention sessions completed. DK and AA (NIDUS researchers), independently listened to audio recordings of two randomly selected interventions per group, completing fidelity checklists. We calculated the proportion of expected intervention components

(Table 1S; supplementary material) delivered. In applying the observational Fidelity Checklist (developed for this study and not validated)[6], we rated fidelity using established thresholds, 81–100% constituting high fidelity. Using a 5-point scale (1– not at all to 5- very much) we rated whether facilitators kept the group focused on the manual and participants engaged for each intervention component, and whether the session kept to time. We calculated summary descriptive statistics for fidelity using excel.

Qualitative analysis

Audio recordings of interviews, focus groups and intervention sessions were transcribed, and email feedback data extracted and analysed in NVivo12. A thematic analysis was applied [15]. DK (NIDUS researcher with a psychology background), developed an initial coding framework from the logic model. He deductively coded textual data for one focus group and interview, then inductively coded the transcripts into meaningful fragments to identify themes not captured by the deductive framework. KW and RR, (DK's PhD supervisors), independently assessed the coding framework alongside the data, refining as necessary. DK, KW, and RR agreed the final coding frame, which DK applied to all data. A matrix was developed to identify themes within each case study (agency). DK, KW, RR discussed the developing themes on four more occasions, discussing inconsistencies to refine them [14, 15].

Reflexivity

We drew on reflexive practices during analysis, considering how our subjectivity, and interpersonal, including power dynamics between researchers and participants influenced findings. Data were analysed before the trial outcome [6] was known. Neither DK, KW nor RR were involved in the trial or intervention delivery, so had a relative outsider stance. This independence may not have eliminated a desirability bias in participants when reporting their experiences of the intervention, or influence of insider perspectives within the co-author team. Other co-authors, CC (Chief Investigator) and LD/JBu (NIDUS-professional and NIDUS-family trial managers) had an insider stance. We were conscious of our positionality, as insiders, in relation to the NIDUS study and discussed this, giving weight to the perspectives of KW and RR who were outside this research group.

RESULTS

Setting and Sample description

DK interviewed 20/44 HCWs (13 HCWs across 2 focus groups, 7 individual interviews), 3/4 managers (all women) and 3/7 carers (all clients' sons), all of whom participated in the intervention (Table 1). We included audio-recording transcripts from 28/30 HCW group sessions (NIDUS-Professional was delivered in three parallel groups in agency 2 but in agency 3 only individual catch-up sessions were possible (5/11 recorded)); 32/44 HCWs participated in at least one recorded session, including 12 HCWs who were not interviewed. We interviewed three facilitators (all women), and the supervising clinical psychologist and trial manager. Sociodemographic characteristics of HCWs participating in the process evaluation are described in Table 2 and compared to the whole intervention arm population. Figure 2 compares the process evaluation sample to the feasibility trial population.

Reach, dose and fidelity (Aim 1)

Table 3 summarises reach and dose.

Reach: Tables 2S-3S (supplementary material) show HCW and carer intervention adherence. 32/141 (23%) HCWs and 7/42 (17%) carers referred by intervention arm agencies received any intervention.

Dose: 29/44 (65.9%) HCWs randomised to the intervention completed at least 4 intervention sessions (reported previously [6]). 170/264 (64%) main HCW sessions were completed (170/192 (89%) among HCWs attending any sessions). 7/13 carers randomised to the intervention completed any NIDUS-Family sessions: 4/7 family carers completed the NIDUS-Family intervention (attending 6-

8 sessions), 2 attended 4 sessions, and 1 attended a single session. In total, 40/104 (39%) carer sessions were completed (40/56 (71%) among carers who attended any intervention sessions).

Fidelity: All 36 intervention session components recorded were delivered, indicating that fidelity (36/36: 100%) was high. Median rater fidelity scores were: 5 (Interquartile range: 0) for 'Keeping the group focused on the manual/ task'; 5 (1) for 'Keeping participants engaged'; and 5 (1) for 'Keeping the session to time'. One agency manager attended all 3 manager sessions, 2 attended 2 sessions and received written feedback in lieu of the final session, and 1 manager (Agency 3) attended no sessions.

Qualitative findings

We report our qualitative findings in two sections; corresponding to our second and third aims (see introduction).

Contexts influencing implementation (Aim 2)

In exploring agency contexts, we identified one overarching theme: *Implementation requires planning, flexibility and understanding of wide-ranging structural challenges.*

All agencies experienced challenges with intervention attendance. Agencies 1 and 3 managers asked HCWs to complete training outside working hours; in Agency 1 there were geographical challenges to arranging staff cover, while in Agency 3, where reach and dose were lowest, staffing issues meant that training was not prioritised:

They said if you do it you have to do it in your own time...we're so spaced out, it's not 'can you cover so and so' because it's, you're just round the corner, it's not like that. (Agency1, HCW1, Interview)

We had some members of the team quit (unexpectedly)...quite a few carers were off with Covid, and we were trying to juggle annual leave (during school holidays) ...the clients still needed to be seen so most of the office staff were also out delivering care, which left no time for anything else. (Agency3, Manager, Interview)

Managers in agencies 2 and 4 supported staff attendance, reflected in higher intervention dose and reach, but the practical challenges of creating space for training in an at-capacity system were evident; at times HCWs needed to prioritise it over breaks between clients, or could not attend as they prioritised their clients:

It was a big job to free people up. We still had people doing it literally coming out of calls and sitting in their cars before they went to their next call, because that was the only time that they had. (Agency2, HCW2, Interview)

Some of the carers are quite attached to the customers, so they'll be like 'actually no, I'd rather go and do my call thanks, and I'll do it another time.' (Agency2, HCW2, Interview)

Aligning with our logic model, the option to complete individual, or small group catch-up sessions helped mitigate these challenges. HCW's valued the remote training format, allowing them the flexibility to attend sessions from home, often in their personal time:

I wasn't able to attend a couple...so they were able to re-jig when I did those, which was great. (Agency1, HCW2, Interview)

I think it's a benefit being online because we are in the comfort of our own homes. (Agency4, HCW2, Focus Group)

Structural challenges including staff turnover and a lack of continuity of care, limited attempts to establish the intended links between NIDUS-Family and NIDUS-Professional:

To say, OK, let's discuss this client with this HCW and their carer and talk about the ways that we can all pitch in, it just doesn't work because they're constantly changing, and you don't know who's going in next week. (Facilitator1, Interview)

He did have somebody who would be visiting him on a very regular basis. She was taking part in the sessions and we were talking about what we discussed...she had cards, she brought in a small keyboard for him to have a play with, but unfortunately, she's not there anymore (Agency4, FC, Interview)

Discussion of potential challenges, the agency's readiness to receive the intervention, and how managers could help mitigate structural barriers, were scheduled for one-to-one meetings with agency managers. One manager attended all sessions, but others were difficult to reach, and practical conversations were often prioritised over the intended discussions about training implementation and readiness for organisational change:

It felt as if the managers were coming at the conversation from let's just get the job done...instead of thinking more richly about what they'd stepped into, how they might take it forward (NIDUS Clinical Psychologist, Interview)

One possible explanation for low attendance was that managers did not feel part of the training and reported that their roles felt more administrative. To Agency 3 manager, separation of manager and HCW sessions felt unacceptable:

My role was just as admin. It would've been helpful for me to have gone to the training. Whether I'd have had time is another thing, but I was told that I couldn't do it. (Agency3, Manager, Interview)

Theoretical assumptions about how the intervention might produce change (Aim 3)

We identified three themes, describing: (i) *Benefits of group reflection and peer support*; (ii) *how discussions produced practical, actionable strategies*, and (iii) *how the intervention empowered HCWs generating increased confidence in HCW practice*.

Theme 1: Benefits of group reflection and peer support

Consistent with our logic model (Figure 1), participants valued the rare opportunity to reflect on their practice and learn from others' experiences. By positioning HCW's as the 'experts', facilitators promoted reflective group discussions, which offered reassurance for many that they were not alone in their struggles:

We just tend to have a day and then we go home...whereas to actually bring our mind into focus about dementia, how we feel, where do we get support from, do I feel relaxed, do I feel stressed? It's good to start asking those questions and reflect on it (Agency2, HCW3, Session 1 Recording)

Having similar shared experiences, you know it's not just me experiencing, it's everybody else which is quite reassuring (Agency1, HCW4, Session 1 Recording)

Participants in Agency 3, who received one-to-one sessions only, noted that this core component of peer-to-peer discussion would have been welcome:

It would be good to have heard from the other people at work. Like we really don't see each other (Agency3, HCW1, Interview)

Theme 2: Discussions produced practical, actionable strategies

All participants welcomed the training's practical focus, and reported applying learning to improve client care, including innovative communication, ideas for enjoyable activities, improved understanding of behaviour, and relaxation exercises to alleviate clients' anxieties:

Not only are we benefiting but primarily our people who we're looking after are benefiting. It is just fabulous, and you can make even more difference to those people and their families with the support that you can offer if we've got some more strategies, like we've learned from talking to each other (Agency4, HCW2, Focus Group)

I've been using some of the breathing exercises with a client. When using the hoist she could be upset sometimes but doing the breathing with her helps her be more calm (Agency2, HCW8, Email)

HCWs also reported using strategies to promote their own wellbeing, and developing new support systems:

I really enjoy the relaxation technique and if you are relaxed then you have a different kind of energy to take with you for work (Agency4, HCW3, Session 5 Recording)

After the meetings I've started to meet up with another caregiver for coffee so we can discuss our problems with similar clients and pass on information about work which has been very helpful (Agency1, HCW1, Interview)

Theme 3: Increased confidence in HCW practice

Participants reported increased confidence in their skills, some feeling empowered to advocate for change. This included sharing learning with colleagues, asking management to implement improvements to agency systems and care planning processes, establishing peer support groups, and requesting additional dementia training for those unable to receive NIDUS-Professional:

We're all writing more in the care notes about strategies we use and things we do with a customer that works so new carers coming in can get more information about the customer...more than just what needs doing. (Agency2, HCW5, Email)

I did mention to the owner that other care workers would definitely benefit from extra training regarding dementia and a training session was arranged...I also asked my manager if I can be shadowed by other staff so I can pass on information about that client and how they may react to different ways of doing things. (Agency1, HCW1, Email)

DISCUSSION

While only a quarter of HCWs in intervention agencies received any sessions, nearly 9 in 10 who engaged, adhered fully to the intervention, which was delivered with high fidelity. Initial buy-in was the key barrier to achieving a higher intervention dose; influenced by agency management, culture, and priorities. Aligning with our logic model, and adult learning theory [16], HCWs valued the

opportunity to speak with peers, reflect on their practice and learn new strategies. The sessions fostered new connections between HCWs and requests for agency-level peer support. Individual and agency-level goals and actions appeared to influence care planning and led to requests for access to more dementia training.

Our findings contribute to evidence that where HCWs are supported to build skills, confidence, and a sense of value in their work through peer support, reflective practice and practical strategies, they are enabled to deliver better quality care [5, 17, 18]. Implementation barriers included a lack of protected time and management support. Staff shortages, turnover and high demand for care meant that HCWs were often unable to attend sessions, despite being reimbursed for training time [6]. Flexibility including remote delivery and individual catch-up sessions helped increase intervention 'dose', though without the benefits of peer discussions.

Our findings align with research in care homes, that leadership style, and how well managers understand, value and engage with an intervention are key to implementation [19]. Managers did not feel part of NIDUS-Professional. Strategies to engage more effectively with agency management in a future trial might include paying HCWs for time to champion and co-facilitate the intervention, and reviewing how the manager is included in sessions with HCWs. HCW-only support groups were co-designed to provide space for HCWs to discuss agency challenges, but one manager told us she felt excluded, and this likely contributed to low adherence in that agency.

Limitations

It proved challenging to test linked delivery of the NIDUS interventions, because of challenges recruiting clients and high HCW turnover. Previous interventions recruited convenience samples, for example the Australian Promoting Independence through Quality Care at Home (PITCH) RCT (reporting soon) [20]; we tried to recruit all HCW and clients from participating agencies. While closer to real-world practice, this was challenging. Many relevant levers operate at sector rather than agency-level, e.g., regulatory requirements for training. Study limitations include biases in the agencies participating in the main trial, towards higher CQC rated, and inevitably more outward facing providers; compounded by biases in the proportion of trial participants who took part in the process evaluation. No male HCWs participated in the trial. Most HCWs were White British with English as a first language, so our findings may be less applicable to more diverse communities. Our interview sample is biased towards those with greater engagement; 19/20 (95%) HCWs and 3/3 (100%) family carers interviewed completed the intervention. Through including recorded training sessions, we captured more voices; this may have introduced desirability bias, as intervention facilitators were present, though data from session and post-intervention recordings broadly aligned.

Conclusion

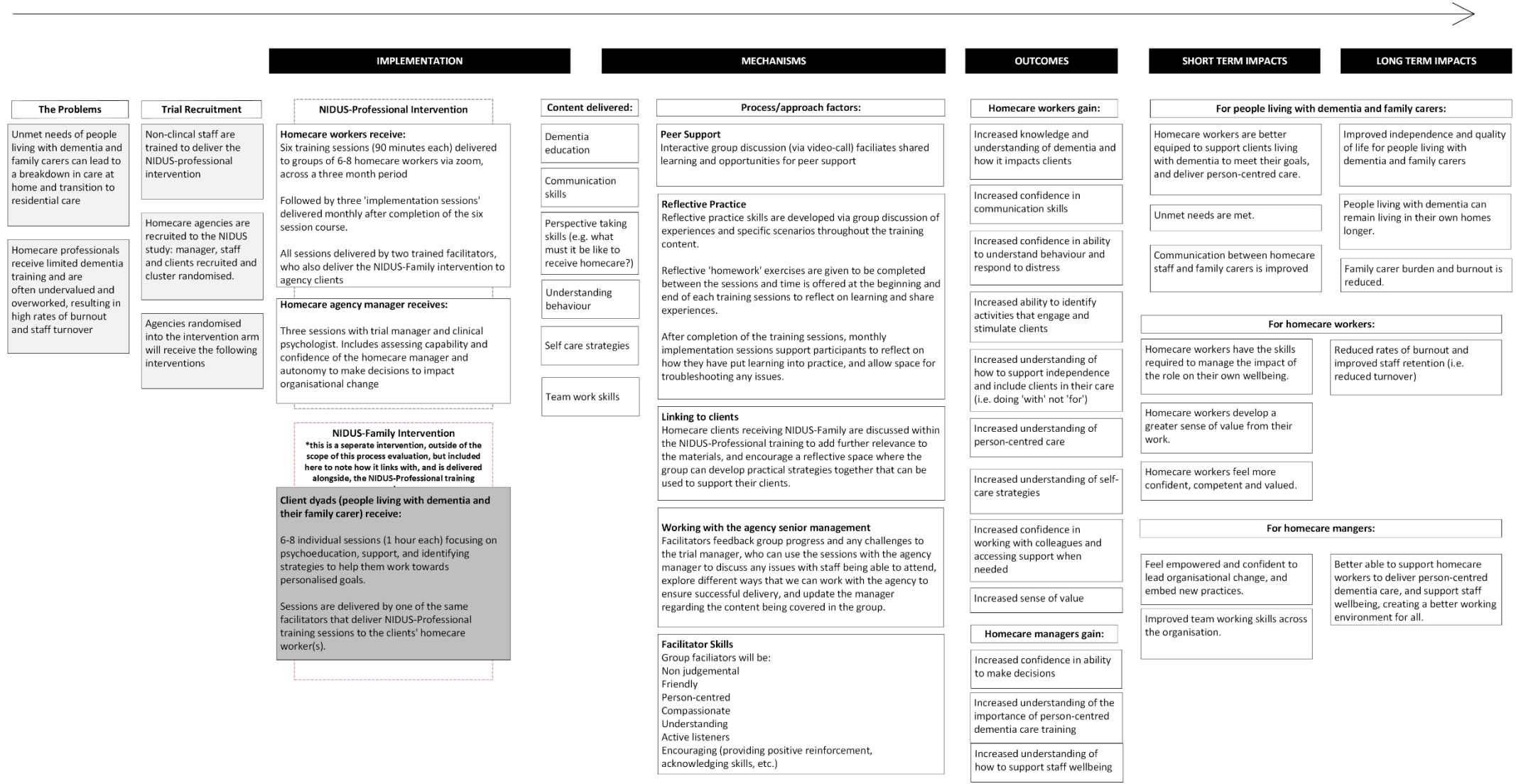
The willingness of resource-stretched agencies and HCWs to engage with this video-call intervention is promising. Our feasibility trial met criteria to progress to a full trial, with adaptations informed by this process evaluation and feasibility trial findings, such as using aggregated, anonymised agency outcomes, collected by agency-employed champions, to circumvent the difficulties recruiting clients, especially those without a family carer, as trial participants. If a pragmatic trial demonstrates effectiveness, NIDUS-professional will enable roll out of training in the sector, a current policy priority [20].

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FIGURE 1: LOGIC MODEL



CONTEXT: individual (e.g. homecare worker experience) , group (dynamics, size, mix of experience, engagement), agency (e.g. staffing, managerial support, size, location, local resource, demand), societal (e.g. covid)

Figure 2: Flowchart mapping the relationship between the process evaluation sample and the feasibility trial population

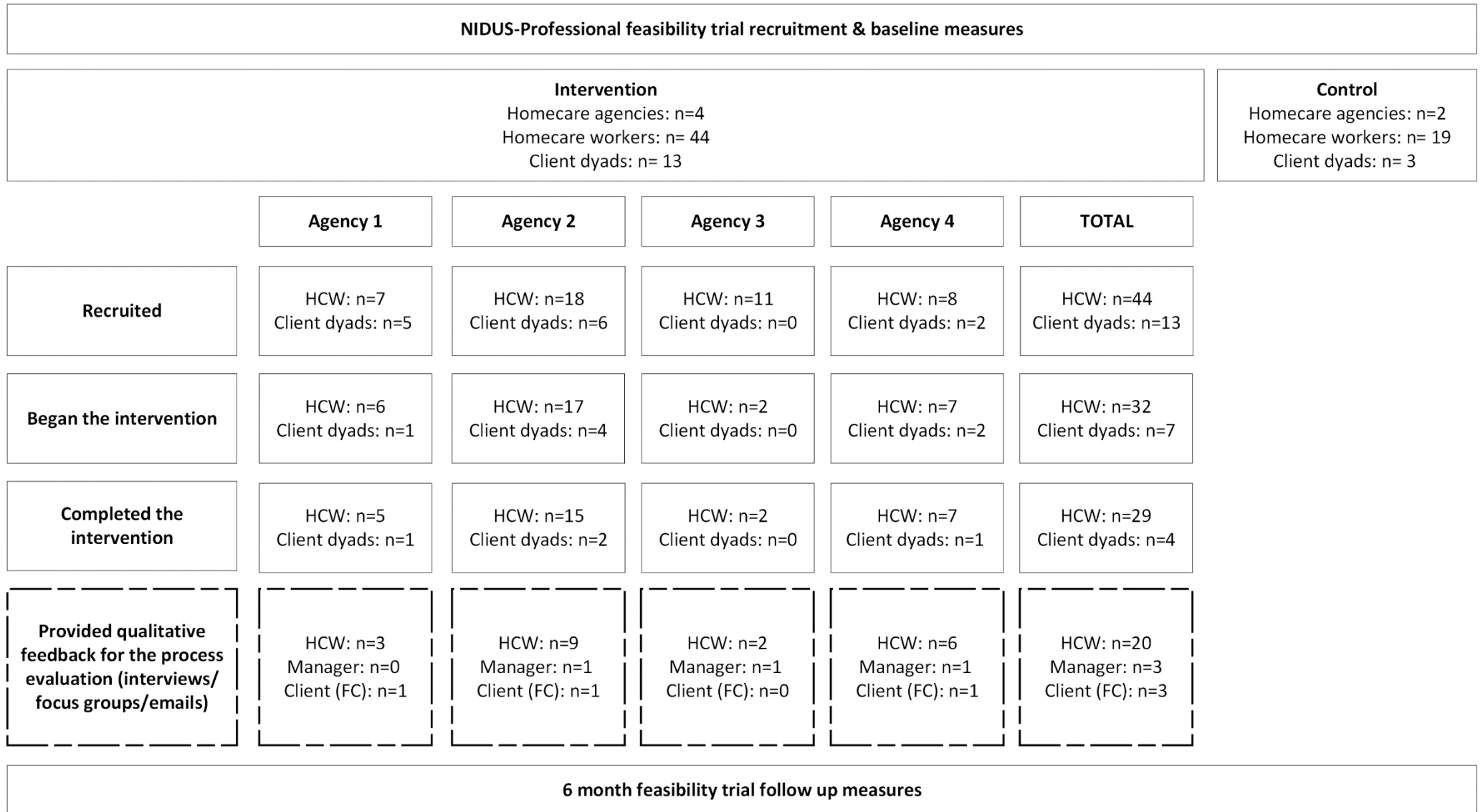


Table 1: Process evaluation qualitative data

	<i>Case study data</i>			
	Agency 1	Agency 2	Agency 3	Agency 4
HCWs				
Focus groups	0	1 (n=7)	0	1 (n=5)
Interviews	3	2	1	0
Email feedback	3	4	1	3
Managers				
Interviews	0	1	1	0
Email feedback	0	0	0	1
Family Carers				
Interviews	1	1	0	1
Transcribed intervention audio recordings				
HCW sessions	6	19	5	6
FC sessions	5	0	0	5
<hr/> <i>General trial feedback data</i> <hr/>				
Researchers & facilitators				
Facilitator interviews			3	
Clinical supervisor interview			1	
Trial manager interview			1	

Table 2 - Homecare worker characteristics in the process evaluation sample and trial population, within the intervention arm

	Agency 1		Agency 2		Agency 3		Agency 4		Total intervention population (n=44)
<i>Results are n/N (%) unless specified otherwise</i>	PE (n=3)	Trial (n=7)	PE (n=9)	Trial (n=18)	PE (n=2)	Trial (n=11)	PE (n=6)	Trial (n=8)	
Age (years), median (LQ,UQ)	56.5 (54.8, 62.7)	56.8 (54.8, 63.7)	38.2 (30.5, 48.3)	40.2 (32.5, 52.2)	43.5 (32.7, 54.3)	48 (43.9, 54.3)	52.6 (36/6, 57.1)	53.5 (43.6, 61.6)	50.8 (38.8, 56.6)
Gender									
Women	3/3 (100)	7/7 (100)	9/9 (100)	18/18(100)	2/2 (100)	11/11(100)	6/6 (100)	8/8 (100)	44/44 (100)
Ethnicity									
White British	3/3 (100)	7/7 (100)	8/9 (88.9)	16/18 (88.9)	2/2 (100)	11/11 (100)	3/6 (50)	5/8 (62.5)	39/44 (88.6)
Other	0/3 (0)	0/7 (0)	1/9 (11.1)	2/18 (11.1)	0/2 (0)	0/11 (0)	3/6 (50)	3/8 (37.5)	5/44 (11.4)
First Language									
English	3/3(100)	7/7 (100)	8/9 (88.9)	16/18 (88.9)	2/2 (100)	11/11 (100)	3/6 (50)	5/8 (62.5)	39/44 (88.6)
Other	0/3 (0)	0/7 (0)	1/9 (11.1)	2/18 (11.1)	0/2 (0)	0/11 (0)	3/6 (50)	3/8 (37.5)	5/44 (11.4)
Highest level of education									
Degree or higher	1/3 (33.3)	3/7 (42.9)	1/9 (11.1)	2/18 (11.1)	0/2 (0)	1/11 (9.1)	2/6 (33.3)	2/8 (25)	8/44 (18.2)
Vocational	1/3 (33.3)	2/7 (28.6)	3/9 (33.3)	9/18 (50)	2/2 (100)	8/11 (72.7)	3/6 (50)	4/8 (50)	23/44 (52.3)
Secondary school/college	0/3 (0)	0/7 (0)	5/9 (55.6)	7/18 (38.9)	0/2 (0)	2/11 (18.2)	0/6 (0)	0/8 (0)	9/44 (20.5)
No formal qualification	1/3 (33.3)	1/7 (14.3)	0/9 (0)	0/18 (0)	0/2 (0)	0/11 (0)	0/6 (0)	0/8 (0)	1/44 (2.3)
Other	0/3 (0)	1/7 (14.3)	0/9 (0)	0/18 (0)	0/2 (0)	0/11 (0)	1/6 (16.7)	2/8 (25)	3/44 (6.8)
Dementia Training									
Yes	2/3 (66.7)	6/7 (85.7)	7/9 (77.8)	15/18 (83.3)	2/2 (100)	11/11 (100)	4/6 (66.7)	6/8 (75)	38/44 (86.4)
No	1/3 (33.3)	1/7 (14.3)	2/9 (22.2)	3/18 (16.7)	0/2 (0)	0/11 (0)	2/6 (33.3)	2/8 (25)	6/44 (13.6)
Days of training									
1 day or less	2/2 (100)	4/5 (80)	4/7 (57.1)	6/15 (40)	2/2 (100)	7/11 (63.6)	3/4 (75)	5/6 (83.3)	22/37 (59.5)
2-3 days	0/2 (0)	1/5 (20)	1/7 (14.3)	2/15 (13.3)	0/2 (0)	1/11 (9.1)	0/4 (0)	0/6 (0)	4/37 (10.8)
4 or more	0/2 (0)	0/5 (0)	2/7 (28.6)	7/15(46.7.9)	0/2 (0)	3/11 (27.3)	1/4 (25)	1/6 (16.7)	11/37 (29.7)

<i>Missing</i>	<i>1</i>				<i>1</i>				
Employment									
Homecare worker	3/3 (100)	6/7 (85.7)	9/9 (100)	17/18 (94.4)	2/2 (100)	6/11 (54.5)	6/6 (100)	7/8 (87.5)	36/44 (81.8)
Homecare manager	0/3 (0)	0/7 (0)	0/9 (0)	0/18 (0)	0/2 (0)	1/11 (9.1)	0/6 (0)	0/8 (0)	1/44 (2.3)
Other	0/3 (0)	1/7 (14.3)	0/9 (0)	1/18 (5.6)	0/2 (0)	4/11 (36.4)	0/6 (0)	1/8(12.5)	7/44 (15.9)
Working hours									
Full-time	1/3 (33.3)	2/7 (28.6)	3/9 (33.3)	9/18 (50)	1/2 (50)	4/11 (36.4)	4/6 (66.7)	6/8 (75)	21/44 (47.7)
Part-time	2/3 (66.7)	5/7 (71.4)	5/9 (55.6)	7/18 (38.9)	1/2 (50)	5/11 (45.5)	2/6 (33.3)	2/8 (25)	19/44 (43.2)
Other		0/7 (0)	1/9 (11.1)	2/18 (11.1)	0/2 (0)	2/11 (18.2)	0/6 (0)	0/8 (0)	4/44 (9.1)
Time worked in current agency									
Less than 6 months	0/3 (0)	0/7 (0)	1/9 (11.1)	1/18 (5.6)	0/2 (0)	1/11 (9.1)	0/6 (0)	0/8 (0)	2/44 (4.6)
6 months to 1 year	0/3 (0)	1/7 (14.3)	1/9 (11.1)	2/18 (11.1)	0/2 (0)	2/11 (18.2)	1/6 (16.7)	1/8 (12.5)	6/44 (13.6)
1-3 years	2/3 (66.7)	2/7 (28.6)	3/9 (33.3)	5/18 (27.8)	1/2 (50)	2/11 (18.2)	4/6 (66.7)	5/8 (62.5)	14/44 (31.8)
3-5 years	1/3 (33.3)	3/7 (42.9)	0/9 (0)	2/18 (11.1)	0/2 (0)	2/11 (18.2)	1/6 (16.7)	2/8 (25)	9/44 (20.5)
5-10 years	0/3 (0)	1/7 (14.3)	3/9 (33.3)	4/18 (22.2)	1/2 (50)	4/11 (36.4)	0/6 (0)	0/8 (0)	9/44 (20.5)
10+ years	0/3 (0)	0/7 (0)	1/9 (11.1)	4/18 (22.2)	0/2 (0)	0/11 (0)	0/6 (0)	0/8 (0)	4/44 (9.1)
Time worked in homecare overall									
Less than 6 months	0/3 (0)	0/7 (0)	1/9 (11.1)	1/18 (5.6)	0/2 (0)	1/11 (9.1)	0/6 (0)	0/8 (0)	2/44 (4.6)
6 months to 1 year	0/3 (0)	1/7 (14.3)	1/9 (11.1)	1/18 (5.6)	0/2 (0)	0/11 (0)	1/6 (16.7)	1/8 (12.5)	3/44 (6.8)
1-3 years	2/3 (66.7)	2/7 (28.6)	2/9 (22.2)	5/18 (27.8)	0/2 (0)	0/11 (0)	2/6 (33.3)	2/8 (25)	9/44 (20.5)
3-5 years	0/3 (0)	1/7 (14.3)	0/9 (0)	2/18 (11.1)	0/2 (0)	1/11 (9.1)	1/6 (16.7)	1/8 (12.5)	5/44 (11.4)
5-10 years	0/3 (0)	1/7 (14.3)	3/9 (33.3)	3/18 (16.7)	0/2 (0)	4/11 (36.4)	2/6 (33.3)	2/8 (25)	10/44 (22.7)
10+ years	1/3 (33.3)	1/7 (14.3)	2/9 (22.2)	6/18 (33.3)	2/2 (100)	5/11 (45.5)	0/6 (0)	2/8 (25)	14/44 (31.8)
Unable to specify	0/3 (0)	1/7 (14.3)	0/9 (0)	0/18 (0)	0/2 (0)	0/11 (0)	0/6 (0)	0/8 (0)	1/44 (2.3)

Note: PE = process evaluation, LQ = lower quartile, UQ = upper quartile

Table 3 - Homecare worker and client dyad recruitment, intervention delivery, reach and dose in the trial intervention arm

Agency	Participant group	Number of participants				Completed intervention HCW 4/6, FC 6/8 sessions	Reach <i>No. who started intervention / no. referred</i>	Overall dose <i>No. of sessions completed / no. of total sessions possible</i>	Dose (in those attending 1+ session)
		Referred	Randomised to intervention	Completed 1+ session					
1	HCW	40	7	6	5	6/40 (15%)	31/42 (74%)	31/36 (86%)	
	FC	20	5	1	1	1/20 (5%)	8/40 (20%)	8/8 (100%)	
2	HCW	19	18	17	15	17/19 (89%)	88/108 (81%)	88/102 (86%)	
	FC	9	6	4	2	4/9 (44%)	23/48 (48%)	23/32 (72%)	
3	HCW	28	11	2	2	2/28 (7%)	11/66 (17%)	11/12 (92%)	
	FC	4	0	0	0	0/4 (0%)	0/0 (0%)	0/0 (0%)	
4	HCW	54	8	7	7	7/54 (13%)	40/48 (95%)	40/42 (95%)	
	FC	9	2	2	1	2/9 (22%)	9/16 (56%)	9/16 (56%)	
Total	HCW	141	44	32	29	32/141 (23%)	170/264 (64%)	170/192 (89%)	
	FC	42	13	7	4	7/42 (17%)	40/104 (39%)	40/56 (71%)	