

Views of healthcare professionals on recruiting to a psychosocial randomised controlled trial: a qualitative study.

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Abstract

Background: Randomised controlled trials, and in particular those of psychosocial interventions, often fail to recruit to target, resulting in underpowered trials with poor generalisability of findings. The objectives of this study were to explore the views of healthcare professionals on recruiting to psychosocial research studies, and to explore their views on factors that may hinder or facilitate recruitment. Methods: We conducted 14 semi-structured interviews, with healthcare professionals who had been involved in recruitment into a randomised controlled trial of a talking therapy for depression in patients with advanced cancer. Interviews were transcribed and analysed using thematic analysis. Results: Five primary themes were identified, comprised of 13 subthemes. Attitudes towards research were largely positive. Health care professionals identified lack of time and narrow screening criteria as barriers to recruitment, and also noted the tendency to withhold participants from research for reasons other than eligibility (e.g., gatekeeping). The engagement of the study team with the clinical recruitment site, and the frequent presence of a researcher in clinics, were noted as facilitating recruitment. Conclusions: Healthcare professionals involved in recruiting to trials of psychosocial interventions hold generally positive views of psychosocial research, but report that constraints limit their ability to recruit. The findings from this study can inform how best to design trials, and in particular trials of psychosocial interventions, and train health care professionals for the study, to maximise recruitment. Trial registration: Controlled Trials ISRCTN07622709, registered 15 July 2011

Background

Randomised controlled trials (RCTs) represent the gold standard for determining the clinical and cost effectiveness of health care interventions [1]. However, RCTs often fail to meet their recruitment targets: a review of trials funded by two UK bodies looked at 114 trials and found that less than a third reached their recruitment target, while half had to extend the recruitment period [2]. As an example of the problems that trials can face, one RCT of aromatherapy in advanced cancer found many patients were too ill to approach, a higher than anticipated number declined, and referrers acted as gate-keepers due to scepticism about treatment and the wish to reduce patient burden [3]. Failing to reach recruitment targets results in underpowered trials, with poor generalisability of findings [4].

Recruitment into trials in palliative care are beset by a unique combination of problems [4] [5], including those common to all types of trials such as care providers being too busy and “gatekeeping” by care providers, and those unique to palliative care such as patients’ disease burden. Gatekeeping refers to actions that control the provision of eligible patients [4]. Gatekeeping by care providers may be a problem in palliative care because of the desire to protect patients, and a reluctance to ask them to spend their remaining time participating in research [6]. Data from an observational palliative care study suggests 24% of palliative patients were excluded from research because of gatekeeping [7]. A survey of healthcare professionals views towards referring patients to palliative care trials suggests this desire to protect end of life patients is widespread [8]. However, this may be discordant with the wishes of palliative patients. A review of studies looking at the views of patients or carers towards participating in palliative care trials or

research studies suggests palliative care patients are generally happy to be invited to participate in research, experience direct and indirect benefits (such as feelings of altruism) from participation, and are averse to others saying “no” on their behalf [9]. Similarly, patients with advanced cancer who had participated in symptom control trials generally regarded participating in the trial as a positive experience, irrespective of whether the trial had improved symptoms [10].

Trials of psychosocial interventions in cancer patients have also been noted to face unique recruitment issues. Firstly, cancer patients may be preoccupied on treating the physical disease, and therefore may not make use of psychosocial services [3] [11]. Secondly, participants that do want support may feel deterred by the prospect of randomisation to a non-preferred group [3]. Given the difficulties faced in recruitment to palliative care RCTs, it is important to establish what barriers hinder recruitment, and explore potential methods of enhancing recruitment.

In this paper, we present qualitative findings from our experience of recruitment to the CanTalk study, a RCT comparing cognitive behavioural therapy (CBT) to usual care for treating depression in people with advanced cancer [12]. Despite successful recruiting 230 participants out of a target of 240, individual participating sites struggled with achieving recruitment targets. To meet recruitment targets expansion in number of sites (from an initial 4 hospices and oncology centres to 17) and extension of the recruitment period (from a 24 month recruitment period to 40 months) were required, and university employed researchers were deployed in research sites located close to the University to increase recruitment. Our objective in the present study was to explore the views of those involved in recruitment into the CanTalk RCT, what they perceive the barriers to recruitment to be, and what they think would facilitate increased recruitment.

Methods

Design

The study comprised qualitative interviews of healthcare professionals involved in recruiting to a RCT, the CanTalk study [12]. The CanTalk RCT recruited participants with advanced cancer and depression from sites (oncology centres and a hospice) located in areas where referral to Improving Access to Psychological Therapy (IAPT) centres for treatment for depression was possible, and compared Cognitive Behavioural Therapy with Treatment as Usual for depression in these patients. Only patients living within the catchment areas for these IAPT centres were eligible to participate.

Ethical approval was provided by the London – Camberwell St Giles NRES committee, reference 11/LO/0376. The study was supported by the National Cancer Research Network clinical trials portfolio.

Participants, recruitment and setting

Participants were healthcare professionals ($n = 14$), selected through purposive sampling to include a range of clinical and research focused occupations, to reflect the range of occupations involved in

recruitment to the CanTalk trial. These participants were recruited through an email invitation, followed up by a phone call. Recruitment was conducted by researchers from University College London, employed on the CanTalk trial. Participants were recruited from the Christie NHS Foundation Trust, Barts Health NHS Trust, North Middlesex University Hospital, Weston General Hospital, Princess Royal University Hospital, South Tyneside NHS Foundation Trust, University College London Hospital, Whittington Health NHS Trust, and Marie Curie Hospice Hampstead. Participants' involvement in the CanTalk RCT involved identifying relevant patients, approaching and discussing the study with patients, and screening for eligibility for the study.

Topic guide

The experience of researchers employed on the CanTalk trial to recruit in oncology clinics suggested that some staff were reluctant to refer patients to the trial. With a view to exploring possible reasons for this, and attitudes of staff towards psychosocial research trials in general, a qualitative topic guide (Table 1) was developed. This topic guide asked about 1) role in the oncology clinic; 2) previous research involvement; 3) views on trials other than clinical trials of investigational medicinal products (CTIMPs); 4) views about the CanTalk trial; 5) factors influencing recruitment; 6) feedback about the CanTalk trial; and 7) future research involvement. The guide was structured to begin with broad open questions and progress to narrower more specific questions. We kept open the option of adapting or expanding the topic guide if new topics emerged during the interviews. However, as all topics arising appeared to fit well within the existing structure of the guide, no alterations were made.

Table 1. Interview topic guide

1. My first question will focus on you and your role in the oncology clinic. Describe your role in the oncology clinics. Can you describe your current role in this clinic to me? How did you come to be in this role? How do you feel about your role?
2. My next question will look at your research participation to date. Have you been involved in any type of research in your role and can you tell me about it? What type of methodology? Duration of trial? Type of trial? Personal research or study (<i>phd, dissertation etc</i>)?
3. I would like to ask you a little bit now on your views on trials that are not of medicinal products or drug trials. How often do you participate in this type of research? (<i>For example psychological research, complex interventions and non CTIMPS (non drug trials)</i>) To what extent do you feel these trials are part of your remit?
4. I would like to ask you more specific questions now about your views on the CanTalk trial itself. What do you know about CanTalk study? (<i>Preamble: as you are aware the CanTalk trial was conducted by researchers from UCL</i>) What are your views about the research being carried out by the university and not embedded in the clinic team? What are your views on CanTalks' comparison of active treatment compared with usual care (<i>for example randomised trials</i>)?
5. Now I will ask you questions about your participation in the CanTalk trial. How do you think your feelings about research influence involvement? How do both, your patient's reactions to research and experiences of participation, affect your involvement in the research? What factors do you think may influence recruitment? (Prompts – anything that might increase recruitment? Factors influencing poor recruitment?)
6. I would like to ask you now to tell me about any patient feedback you have had about CanTalk. Have any of your patients' mentioned the trial? (<i>prompt positive or negative responses</i>) How do you feel the trial affected your patients?
7. Lastly I would like to ask you about your opinions on psychological research studies like this in the future. Would you participate in this type of research in the future? Why do you say this? (<i>Depending on response, if negative</i>) What might make you invest more in these types of trials? (<i>prompt: more CPD points, professional development or topic you are passionate about</i>)
8. Overall what did you think about the CanTalk study and do you have any suggestions for improvements to CanTalk and studies like these in the future?

Interviews

Interviews took place between December 2015 and March 2016, after close of recruitment and within 3 months of recruitment ending. Informed consent was obtained prior to each interview. Interviews were conducted by researchers employed on the CanTalk study and trained in qualitative techniques, in a private room on the premises of the participants' place of work and lasted between 16 and 66 minutes. Interviews were recorded using a digital recording device. Interviews were conducted using a semi structured interview technique, based on the topic guide. This allowed for the interview to be directed by the topic guide, while also allowing for divergence from the guide to explore topics in greater depth or to explore issues raised by participants that were not specifically covered by the guide.

Analysis

Recordings of interviews were transcribed verbatim. Data were analysed using thematic analysis based on commonly used guidelines [13], using Nvivo 11 software. We chose to use thematic analysis as it is not tied to any specific theoretical standpoint, and provides a flexible method that can be tailored to the research questions [13]. After familiarisation with the data, two researchers (TA and MA) independently coded the data and identified themes. These researchers then met to discuss the themes. Any differences were resolved through discussion. The analysis throughout, including the selection of text for coding and the search for themes, was guided by the study's research questions.

Results

Of 50 healthcare professionals invited, 14 agreed to participate. The most common reason for non-participation was a lack of response to the invitation to participate. All participants worked within either hospital oncology clinics or a hospice and all were involved in participant recruitment for the CanTalk study. Participants came from a range of sites, including those that struggled with recruitment for the study, and some that recruited well. Occupations and gender of participating healthcare professionals are provided in table 2.

Table 2. Participant demographic data

Identifier	Role
P01	Clinical Research Practitioner
P02	Research Nurse
P03	Clinical Nurse Specialist
P04	Consultant Clinical Psychologist
P05	Clinical Nurse Specialist
P06	Staff Doctor
P07	Clinical Trials Officer
P08	Oncology Consultant
P09	Research Nurse
P10	Research Nurse
P11	Palliative Care Consultant
P12	Oncology Consultant
P13	Research Nurse
P14	Oncology Consultant

Five main themes emerged from the data: 1) *Factors limiting recruitment* 2) *Attitudes to research and randomisation*; 3) *Attitudes towards trials not of medicinal products*; 4) *Views on study team vs in house researchers*; and 5) *Factors facilitating recruitment*. From these, 13 subthemes were identified. A thematic map is provided in figure 1.

Factors limiting recruitment

Gatekeeping

A number of healthcare professionals discussed pre-selecting patients. This included avoiding people *at the end of their life who are struggling* (P03), who were *in a hospital bed and looking pretty sick* (P03), and avoiding *people with really difficult personalities* (P14). Reasons suggested for gatekeeping included not wanting *to upset their patients* (P06) or to *give them any extra burden* (P10):

... you're not really going to be offering a therapy that they may not be around to benefit from and also put them to the inconvenience of going and sorting all this out ... (P03)

Some Healthcare professionals displayed an awareness of their tendencies to gatekeep:

... if you could be a bit more objective about it and think 'they meet the criteria I can go and speak to them', I think maybe sometimes it, it stopped us from approaching people ... (P10)

One healthcare professional suggested that a researcher who is “*blind*” to the patients may be less likely to gatekeep:

... sometimes coming in blind and not knowing all that information is fine because you can just discuss it with somebody and they can say yes or no... (P03)

Resource limitations

Limitations in *time* (P02) and *space* (P10) were noted to limit recruitment. In terms of time, competing priorities (e.g. *always something more pressing to do*; P03) and demands of a *two hour wait in clinic* (P14) were noted. In terms of space, limited availability of *clinic rooms* (P10) was noted as a limiting factor:

... they were welcoming for us to come in a see the patients um, but again its busy clinics its clinic time its clinic rooms, its finding that space ... (P10)

Eligibility criteria too narrow

Healthcare professionals noted that the catchment area restricted *what clinics we screened* (P09) and constituted a *postcode lottery* (P03). This theme also included the notion that the eligibility criteria were too narrow overall. *Broadening the patient eligibility* (P08) criteria by including patients *who have got curable malignancies* [P08] or by providing the trial intervention *on site* [P08] were noted as factors that would increase recruitment.

... we had about eighty or ninety patients we had on that list, but then as these, like the barriers kept coming in we had to keep cutting out people so the list just kept going smaller ... (P02)

Patients do not want support

This theme comprised the concept that many patients did not *need* (P01) or *want* (P08) support, including the rejection of *formalised psychological support*:

...we had plenty of patients who both myself and the clinicians, like the consultants, really thought needed talking therapy because they would literally take up an hour of the medical oncologist's time but when it came to offering the study they didn't need any help (P01)

Some patients were also noted to *choose church over study* (P01).

Attitudes to research and randomisation

Attitudes towards research

Attitudes towards research were largely positive, for example commenting on the usefulness of research, or factual, stating that research was part of the job or role. Several participants commented that research helps to *build up the evidence base* (P12), *is the way forward* (P03), and that randomised controlled trials are *the gold standard* (P01)

... according to the results it might help many more in future so it's like I'm being part of the future research evidence base that would be used probably five, ten years to come... (P05)

A number of participants also noted that research and recruitment are *part of my job* (P05), or remit, for example:

... certain groups of clinicians don't want to get involved in research ..., whereas ... most oncologists I know wouldn't feel like that cause they know that research is part of our work... (P14)

However one individual expressed the view that *I don't have dedicated time for research* (P11) and another noted the added burden:

...they're [the oncology clinic] understaffed at the moment so they feel it's, research is like an added ... it's added work for them ... (P02)

Randomisation necessary

Several healthcare professionals expressed that randomisation is necessary to answer the question, that it is *the only way that we can compare things* (P10), provides a *scientifically robust test* (P08), and is a *short term sacrifice [to patients allocated to usual care] for long term gain* (P01):

... though I've got patients at the moment who didn't get the active arm, perhaps I, I say to myself 'well in two years all of my patients will be getting this as standard treatment' ... (P01)

Mixed views on randomisation to treatment as usual

Views on randomisation to treatment as usual were mixed. Several healthcare professionals commented that randomisation to an intervention or usual care group was *no particular concern* (P03) because the patient could *still get help if they needed it* (P05):

... it wasn't like if they were, if they were randomised to that and they didn't get any, the CBT it wasn't that they couldn't then have anything through the hospital ... (P10)

However, a number of healthcare professionals noted that it can be *difficult* (P13) or *hard knowing that ... patients aren't going to get what we really want them to get* (P01). Healthcare professionals also spoke of *worry* (P12) and feeling *guilty* (P10) about patients with depression being assigned to standard care:

... it can be quite hard letting people know that they've not got the intervention and, if you know that people are you know really keen for it you can feel quite guilty... (P10)

Attitudes to trials other than Clinical Trials of Investigative Medicinal Products (non-CTIMP trials)

Importance of trials not of medicinal products

There was a commonly expressed theme that non-CTIMP trials are *very important* (P11, P12) and help meet patients' holistic needs:

... I think if we're looking at trying to, uh improve patient care from a kind of a holistic perspectives ... these kind of studies and other similar ones are vital... (P08)

Some health care professionals also expressed the notion that both CTIMP and non-CTIMP trials hold equal importance, and recruitment centres *need a balance* (P13):

... we need to do both, 'cos we're paid for both (yeah) and we need to give patients the chance for both ... (P02)

Advantages of trials not of medicinal products

Several healthcare professionals noted advantages to non-CTIMP trials, such as being more *straightforward so you weren't involving any drugs or treatment* (P03):

... non-CTIMPs actually suit a hospital like the [name redacted] hospital very well, because they're not so resource intensive... (P01)

As well as noting that trials not of medicinal products could be more straightforward, healthcare professionals also noted that psychosocial research studies, which commonly involve completing outcome questionnaires with participants, can allow staff to spend more time with, *chat with* (P07), and better understand patients:

... I like the fact that the questionnaire studies in particular enable me to spend time, more time with the patients actually understanding them as people (mmm) so they are much more people than they are drug trial subject ... (P01)

Bias towards trials of medicinal products

Several healthcare professionals reported a bias towards recruiting for trials of medicinal products. Consultants were noted to be *involved more with CTIMP trials* (P02), to be *just interested in medical oncology really* (P11), and to *favour their own studies* (P01),

... you only had one haematologist who'd think of CanTalk but the other would think about all the other CTIMP trials and then, you say, oh what about CanTalk, they're like, 'um, no, no, no' as in they push it to the back, that would be like the last resort ... (P02)

This bias was accompanied by a perception that the *clinical trials points system gives more ... funding point to trusts for ... patients that are recruited into drug trials* (P01):

... they were probably told that we get more money for the CTIMP trials ... so it's all I suppose funding ..., so originally that's what it was, so that's what they would concentrate on, 'cos they need to bring more money to the Trust ... (P02)

It was also noted that non-CTIMP trials could *get pushed [out]* (P01), and that if there were treatment trials *patients will always get offered that first ... as they might potentially improve their outcomes* (P10). Related to this preference for drug trials, there was a notion that time recruiting to non-drug trials could be frowned upon:

... I was pushing it saying yes we should take part, this is something we can do cause at the time there were very limited breast studies ... but yes the time was um, perhaps a little frowned upon... (P03)

Views on study team vs in house researchers

Mixed views on advantages of UCL or in-house researchers recruiting for the study

Views on staff from the university trial team conducting recruitment, as opposed to staff employed by the recruitment site, were mixed. Advantages of in-house clinical staff recruiting included the *advantage from*

us being actually embedded within [the clinic] (P13), having an established relationship with a clinician (P13), and sometimes they [the patient] do it [participate] because they know you (P3):

...they know us well enough to know that we are not going to offer them something that they don't think might help... (P14)

Several healthcare professionals expressed advantages to researchers employed directly on the trial recruiting, noting that when trial researchers became involved it *felt like an enormous weight off* (P03), that *we just wouldn't of had the resource* (P04), and that UCL researchers were *more objective* (P10) in selecting patients. For example:

... when your colleagues came from UCL the numbers went up again ... because they looked, person, or this person is official and actually taken time to come from the University ... (P02)

Factors facilitating recruitment

Engagement

It was deemed important for successful trial recruitment to maximise engagement with sites:

... just really more engagement to stakeholders so that they are aware (yea) of what the study is what it involves ... (P12)

It was also deemed important to meet people face to face and involve all interested parties:

... really meet somebody face to face and to explain the study personally, because on paper it might not very interesting and um then to involve all the people that may or may not have views on this matter... (P03)

It was suggested that presenting the research at *pan London meetings* (P03) of nurse specialists or organisations such as the *London Cancer Alliance* (P04) would be useful. Engaging regularly was deemed important, for example through *regular site visits* (P01).

... I think just engagement centrally umm you know keeping the clinicians who are involved in the trial up to date means not just it doesn't just mean having a newsletter ... (P12)

Regular presence of researcher

The regular presence of a researcher in clinics and in multi-disciplinary team meetings was noted as a key factor in facilitating recruitment:

...I find our MDT's every week a really useful time for people to make their presence remembered even if it can't be every-, it doesn't have to be every week it's just as long as it's often enough (yeah), s-, so that we keep a, thinking it through, remembering that we need to ask patients... (P06)

It was deemed useful to have *somebody there to catch all the patients that come into those clinics* (P03), and to have a trial researcher who *forces themselves on the site* (P01):

... that's absolutely the key to recruitment, unless people jog us as clinicians regularly or sit and embed themselves in our meetings we are not going to be avid recruiters because there's so much else to think about... (P11)

Discussion

Given the problems recruiting into RCTs, particularly within palliative care and trials of psychological interventions, it is important to explore why trials may under-recruit. The present study conducted qualitative interviews with health care professionals who had been involved in recruitment for a trial of a psychosocial intervention in an advanced cancer population. Overall, the study identified 6 main themes and 15 subthemes. Our findings suggest that whilst health care professionals felt that research was important, they did not have the time to engage in recruitment, and that trials of medicinal products were often prioritised over trials of psychosocial interventions.

Gatekeeping was identified in the present study as one of the barriers to recruitment, consistent with previous research which has identified a widespread desire to protect palliative patients from research [8]. Reasons for withholding patients from research have been described in previous research into the views of healthcare professionals involved in recruitment to trials [14]: doctors described being uncomfortable recruiting particular groups or individual patients, and nurses can make 'clinical' decisions about whom to approach based on personal viewpoints and avoid bothering certain patients [14].

Reasons that healthcare professionals in the present study gave for withholding patients included not referring patients who were too sick, avoiding patients with difficult personalities, and not wanting to increase patient burden. Not wanting to increase the burden on palliative patients has emerged as a reason for gatekeeping in several previous studies [8] [15] [6]. The consequence is that these patients are denied the opportunity to participate. Indeed, a review of palliative care patients attitudes suggests they are generally happy to be asked to participate, that they experienced both direct and indirect (such as feelings of altruism and meaning gained from helping to improve services for others in the future) benefits from participation, and that they are adverse to having other people say "no" on their behalf [9]. Thus, what is viewed by health care professionals as protecting a patient may be viewed by the patient very differently, as denying them the opportunity to make their own autonomous decisions.

Among factors influencing recruitment a primary theme was *resource limitations*, including time and space constraints and the competitive nature of recruitment, in which a number of trials typically compete for the limited time of staff. This theme is consistent with previous studies in which healthcare professionals stated that time is a factor limiting recruitment (e.g. [16] [17] [18]). As site resources are finite, one way to facilitate recruitment is for university researchers to recruit in clinics. This is noted to increase recruitment in the *Views on study team vs in house researchers* theme, and our experience in

running the CanTalk trial suggested that deploying university researchers to recruit in oncology clinics was essential in meeting the trials recruitment targets.

Narrow eligibility criteria was perceived as a key barrier, and has previously been noted as one of the main reasons for under recruitment into RCTs [19-21]. Indeed, researchers sometimes have to broaden the eligibility criteria in order to reach recruitment targets [e.g., 3]. Furthermore, healthcare professionals stated that those who are eligible often reject psychological support. This finding is consistent with previous research showing that patients declining to participate in trials of psychological interventions often feel they do not require a psychological intervention [3].

Attitudes towards research in general were mainly positive, and healthcare professionals stated that psychosocial trials are worthwhile. However it was noted that research was extra work, and not part of their remit. Additionally, there was the notion that consultants prioritise trials of medicinal products. This bias towards trials of medicinal products, which are perceived to “count more” and provide more reward to the recruitment sites, may partly explain why trials of psychosocial interventions can be particularly problematic to recruit to [22]. Although the UK Clinical Research Network does not prioritise drug trials, the present research suggests that consultants’ preference for trials which may affect physical outcomes may encourage recruitment efforts to be focused on drug trials.

The theme *Engagement* is consistent with research demonstrating that sites receiving regular updates on the trial is useful [21]. Several trials have documented attempts to maximise engagement (e.g. [23]). Healthcare professionals in the present study also noted that the regular presence of the researcher in clinic and meetings maximised recruitment, which was consistent with our observation that recruitment increased at sites when university researchers were deployed to them.

Recommendations

Based on the present research, a number of recommendations can be made which should be considered during the design, set-up and running of clinical trials of psychosocial interventions, particularly those conducted within advanced cancer populations.

Firstly, during trial design, formulating a realistic estimation of the time that identification, screening, and referral of patients will take, and establishing whether healthcare professionals in referral sites will have dedicated time for these tasks, may help to ameliorate potential recruitment problems. This is particularly important given the competitive nature of recruitment, with multiple studies competing for staff time, and especially given that psychosocial research may be “pushed out” in favour of trials of medicinal products. Ring-fencing staff time dedicated to the study is required.

Secondly, educating staff involved in trial recruitment about the importance of RCTs may be beneficial to reducing gatekeeping. This could be done initially in set-up meetings. Providing information on the phenomena of gatekeeping, how the wish to protect patients is common among healthcare professionals [8] while being inconsistent with the views of palliative care patients [7], and possibly providing some

quotes from the research literature on the benefits that palliative care patients experience from participating in research, may be beneficial in reducing gatekeeping.

Thirdly, as recruitment is notoriously difficult within palliative care trials and trials of psychosocial interventions, it will be important during trial design to make the eligibility criteria as broad as possible. We suggest that it is good practice to carefully review each criteria to see if there is any way to broaden eligibility.

Study Limitations

We approached 50 potential participants, out of whom 14 (28%) agreed to participate. As this is a relatively low uptake, there may be selection bias, and individuals who participated may have more positive attitudes towards psychosocial research. The interviewers were researchers employed directly on the CanTalk trial, and in some instances would have had previous interactions with the interviewees during the course of recruitment, which may have had an influence on responses. We did not seek the views of patients in the present study, which would provide valuable viewpoints on the topics explored. The topic guide used in this study did not explore what healthcare professionals said to patients about the study, which may have influenced recruitment into the CanTalk RCT. Actively testing these recommendations, for example through the use of embedded trials [24], is needed before we can be sure of the efficacy of any of these recommendations.

Notwithstanding these limitations, this study is the first to have investigated the views of health care professionals recruiting to a trial of a psychosocial intervention in an advanced cancer population. It has broadened our knowledge on factors facilitating and hindering recruitment into trials of psychosocial interventions in palliative care, and on the views held by the healthcare professionals tasked with recruitment into these trials. The findings will hopefully facilitate recruitment into RCTs, and reduce the chance of these requiring extensions in time and costs.

Conclusions

The views of those recruiting to randomised controlled trials provide insight into what may block or facilitate recruitment. Our findings suggest that whilst health care professionals felt that research was important, they did not have the time to engage in recruitment. Healthcare professionals also describe withholding participants from research (gatekeeping). Realistically estimating the time involved in recruitment and protecting or “ring-fencing” recruitment time, educating recruitment staff about the importance of RCTs, and keeping inclusion criteria as broad as possible are recommended. These findings can help inform those setting up randomised controlled trials to minimise potential hurdles.

List Of Abbreviations

CBT: Cognitive Behavioural Therapy

Declarations

Ethics approval and consent to participate

Ethical approval was provided by the London – Camberwell St Giles NRES committee, reference 11/LO/0376. All participant's provided written informed consent to participate.

Consent for publication

Not applicable

Availability of data and materials

The datasets used and/or analysed during the current study are available from the corresponding author on reasonable request.

Competing interests

The authors declare that they have no competing interests

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Author's contributions

TA conducted analysed the data, and wrote the manuscript. MA analysed the data, and helped write and comment on drafts of the manuscript. MS oversaw the research design and analysis, and helped write and comment on drafts of the manuscript. All authors read and approved the final manuscript.

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Figures

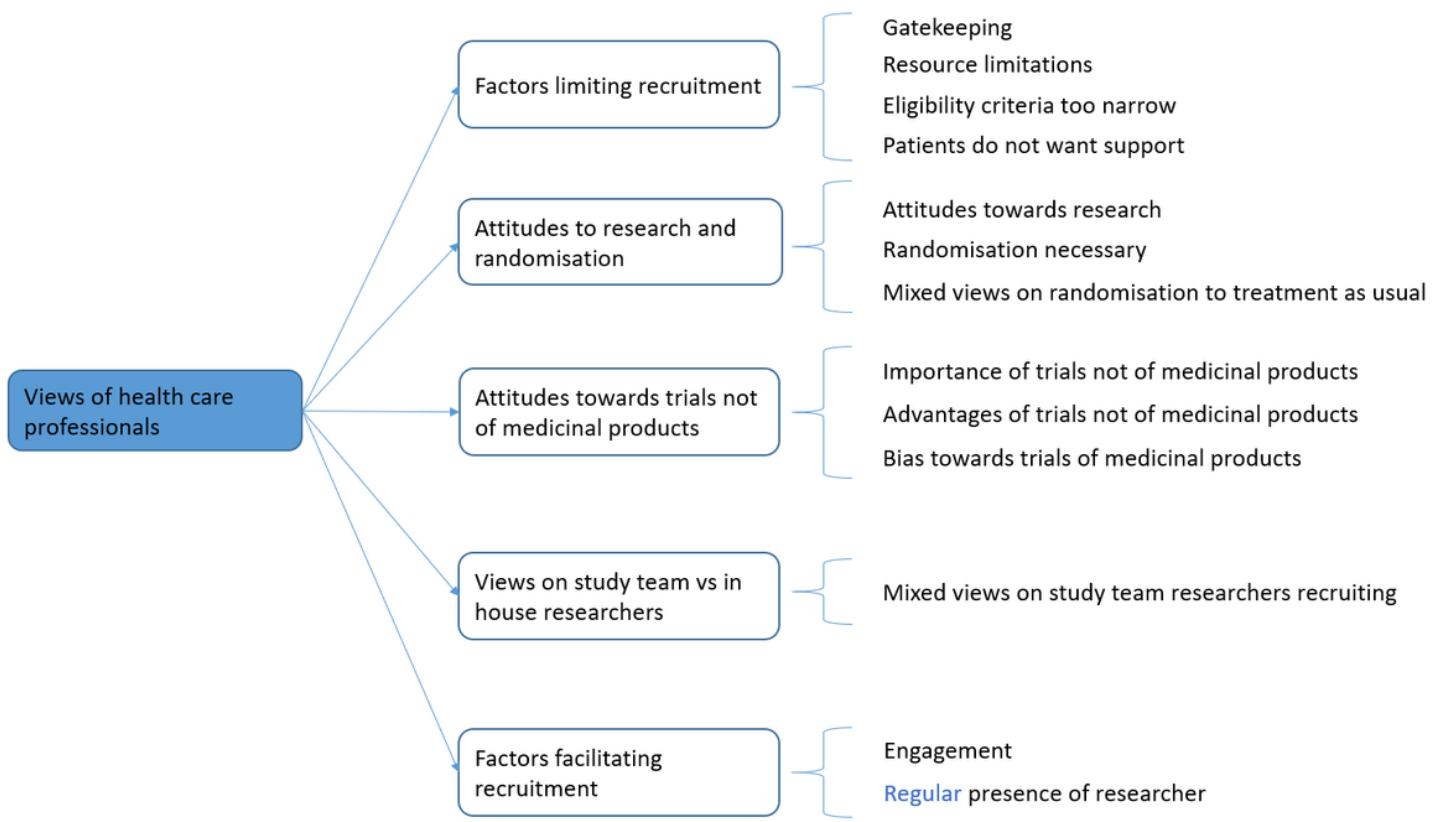


Figure 1

Thematic map of data

Supplementary Files

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