A participatory study of teenagers and young adults’ views on access and participation in cancer research.

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ABSTRACT

Purpose

Internationally, young people are underrepresented in cancer research and this has been associated with lesser survival. Organisation of care and restrictive eligibility criteria are identified as barriers to recruitment. BRIGHTLIGHT is a National Institute for Health Research study evaluating specialist cancer care for young people aged 13-24 years. Despite broad eligibility criteria and national coverage recruitment is suboptimal. Analysis of screening logs showed that access to BRIGHTLIGHT was being restricted by healthcare professionals who were not offering the opportunity to participate. The purpose of this study was to illicit young people’s views on access and participation in cancer research.

Methods

Eight young people aged 18-25 years with a previous cancer diagnosis aged 15-24 years participated in a one day workshop utilising participatory and qualitative methodology. The workshop consisted of four exercises: role play and scene setting; focus group examining thoughts and opinions of access and participation in research; individual reflection of access to different types of cancer research; creative interpretation of the workshop. Following the workshop further consultation with 222 young people with cancer was carried out using an electronic survey.

Results

Three themes emerged from the workshop

- **Patient choice**: Young people thought it was their right to know all options about available research. Without knowledge of all available studies they would be unable to make an informed choice about participation.
- **Role of healthcare professionals as facilitators/barriers**: Young people suggested non-clinical healthcare professionals such as social workers and youth support coordinators were more suited to approaching young people about participation in psychosocial and health services research.
- **Value of the research**: The what, when and how information was delivered was key in relaying the value of the study and assisting young people in their decision to participate.

The consultation exercise revealed approximately 70% wanted to find out about all available research. However, one third trusted healthcare professionals to decide which research studies to inform them of.
Conclusion

Effective ways to support healthcare professionals in approaching vulnerable populations about research are needed to ensure young people are empowered to make informed choices about research participation.

Word count: 343

HIGHLIGHTS

- We examined young people’s views on access to and participation in cancer research
- We explored if access to research should be at the discretion of healthcare professionals
- Young people felt it was their human right to be informed of all available research
- Allied healthcare professionals should be involved in recruitment to low risk studies
- Our study supports the concept that young people are willing to take part in research

INTRODUCTION

The United Kingdom (UK) claims the highest rate of cancer trial participation in the world (Singh 2007). Despite this, there are inequalities in access to research. Patient demographics such as age, socioeconomic status and ethnicity are all recognised as contributing factors (Fern et al. 2008, Fern et al. 2014, Ford et al. 2008, Furlong et al. 2012). Investigations into lower rates of participation for young people with cancer have frequently focused on structural and organisation barriers, lack of available trials and restrictive age eligibility criteria (Fern et al. 2008, Fern et al. 2014, Ford et al. 2008, Furlong et al. 2012). The potential role of ‘professional gate-keeping’ as a barrier to access to research has received little or no attention.

Young people present with a range of cancer types and exhibit unique psychosocial needs which require specialist age appropriate cancer care. The environment of care is believed to be particularly influential to patient experience but not yet quantified. In August 2005, the National Institute of Health and Care Excellence (NICE) issued Improving Outcomes
Guidance advocating specialist teenage and young adult (TYA) cancer care delivered in 13 ‘Principle Treatment Centres’ (PTC) (National Institute for Health and Care Excellence 2005). Despite bespoke TYA cancer units and healthcare policy which advocates specialist cancer services for young people, the outcomes and costs associated with such care are yet to be fully described.

Increasing pressure on financial resources together with the UK’s position as a leader in providing specialist cancer care for young people has brought the need for an evidence base for specialist services to the forefront. The ‘gold standard’- a randomised clinical trial comparing outcomes and costs of specialist care versus non-specialised care is neither ethical nor feasible in a country where implementation and access to TYA services already exist. Following a period of extensive feasibility work, methodology testing and engaging multiple stakeholders including patients (Fern et al. 2013), parents, charitable organisations, TYA, paediatric and adult oncology communities (Gibson et al. 2012, Taylor et al. 2011), National Institute for Health Research (NIHR) Cancer Research Networks and relevant National Cancer Research Institute (NCRI) Clinical Studies Groups, a national study ‘BRIGHTLIGHT-Do specialist cancer services for young people add value?’ was opened in October 2012.

BRIGHTLIGHT is a longitudinal cohort study evaluating specialist cancer care for young people aged 13-24 years, newly diagnosed with cancer in England (www.brightlightstudy.com). BRIGHTLIGHT aims to determine to what extent specialist cancer care for young people affects outcomes and costs to both young people and the NHS. To ensure maximum recruitment of TYA to the study we developed BRIGHTLIGHT within the context of our five ‘A’s conceptual model for increasing participation of young people in cancer research: ‘Available, Access, Aware, Appropriate and Acceptable’ (Table 1) (Fern et al. 2014). BRIGHTLIGHT is open to recruitment in most NHS Trusts in England thus geographical access is ensured. An age eligibility criterion which spans the TYA age group and broad inclusion criteria also ensure maximum potential for participation. By September 2013, over 400 patients were recruited, making BRIGHTLIGHT the largest cohort of 13-24 year olds with cancer in the world; however this was a quarter of the anticipated recruitment target. An explanation for initial recruitment rates being less than anticipated
were delays in gaining approval in many Trusts; often BRIGHTLIGHT was being scrutinised with the same regulatory rigour as a Phase I clinical trial. Opening the study in multiple Trusts, including all thirteen PTCs, was not accompanied by significant improvements in recruitment.

Optimising recruitment and facilitating access to research is complex; we engaged with the clinical community and our Young Advisory Panel (YAP) for advice on the lower anticipated recruitment rate. A number of protocol changes were implemented to improve recruitment. The protocol amendments, also framed around our five ‘As’ model were mainly related to improving study awareness, access and acceptability to patients and healthcare professionals (Table 1). However, recruitment rates to the study showed no notable improvements.

Subsequently, screening logs returned from 65 of the 97 open centres were analysed and showed a refusal rate of just 18% amongst those approached against an anticipated 35% versus an anticipated 35% which was based on refusal/consent rates in other published TYA cancer studies (Burns et al., 2009; Carpentier et al., 2008; Kondryn et al., 2009). This high acceptance rate possibly reflects the success of feasibility work to develop BRIGHTLIGHT with young people, for young people, ensuring relevance of study questions and design. Nevertheless, analysis of screening logs also illustrated the main contributing factor for lower than expected accrual was that around a quarter of young people with a new cancer diagnosis were not being approached despite fulfilling the eligibility criteria. Factors such as limited resources were contributory; however, we identified a proportion of patients where healthcare professionals did not feel it was appropriate to approach the patient. Having identified the potential role of ‘professional gate-keeping’ contributing to lower than anticipated recruitment rates to BRIGHTLIGHT, we sought to elicit young people’s views about access to and participation in cancer research.

**METHODS**

A qualitative study using participatory methods during a one day workshop in September 2013 was carried out with eight self-selected young people who are part of the
BRIGHTLIGHT YAP, the study’s patient and public involvement representatives. Their remit is to advise on: methodological issues, such as recruitment; create and comment on the content of newsletters and other means of publicising the study; advise on topics for future survey content. They will also be integral in interpreting results and suggesting potential implications and interventions for young adult cancer care.

Information about the day was distributed prior to the workshop, written consent was obtained from workshop participants for audio and visual recording and to use these for multiple purposes, including being placed on the BRIGHTLIGHT website. The workshop was held in a non-clinical office facility. BRIGHTLIGHT is approved by London-Bloomsbury Research Ethics Committee (reference 11/LO/1718).

Four male and four female YAP members attended the workshop, currently aged 18-25 years and who were diagnosed with cancer aged 15-24 years. One young person was still receiving treatment; diagnoses included four haematological malignancies and four solid tumours. Data were collected through role play, focus group, and individual reflection. Four researchers were in attendance at the workshop.

**Exercise 1: Role play and scene setting**

The workshop began with role play carried out by four researchers who enacted scenarios illustrating reasons for non-approach, which were outside of the exclusion criteria of the protocol but were cited in the BRIGHTLIGHT screening logs. Additional dialogue reflecting comments that recruiting teams had made were also incorporated into the scenarios. See Table 2 for BRIGHTLIGHT inclusion and exclusion criteria and examples of the scenarios depicted. These included pregnancy, learning disabilities, or the surgeon/doctor did not think participation was appropriate (no other reason supplied).

**Exercise 2: Focus group examining thoughts and opinions of access and participation in research**

One researcher (LF) led the focus group, which opened with a question to elicit young people’s views on the scenarios they had just observed. Discussion within the Group was encouraged with the researcher being reflexive with additional questions. However, there
were a number of prompts in the discussion guide to ensure all points were covered or discussed.

**Exercise 3: Individual reflection of access to different types of cancer research**

Posters of eight types of cancer research with brief definitions were pinned to the wall: improving cancer diagnosis; delivery of care; how to help young people recover more quickly; cancer prevention; new treatments; survivorship and late effects; causes of cancer; and cancer biology in young people. Young people were asked to individually reflect on the focus group discussion on access and participation in research and its relationship to each type of cancer research. Questions on the posters guided young people to reflect on how they would feel if they had not been told about the research, when it would be acceptable not to be told, who was an appropriate person to give them information about the area of research and their opinions on different methods of introducing research, e.g. invitation through the post, adverts on social media. Young people wrote their answers on post-it notes, which were placed on each poster. After individual reflection, as a group we expanded on young people’s views about different approaches to being invited to participate in research, focusing on social media invites and where these would be best placed for young people to respond. Posters were left on the wall for the remainder of the day and young people could add too or edit their post it notes.

**Exercise 4: Young person-led creative interpretation of the workshop**

The workshop ended with creative audio-visual, young person-led interpretation of the day. Young people worked in two groups, were given video cameras and were asked to creatively interpret the day with emphasis on what they would other young people to know. The research team were not present for this activity.

All data were audio and visually recorded, transcribed verbatim and analysed using thematic analysis.

**Post workshop consultation**

Following the workshop we consulted with 222 young people with cancer at a patient conference using an interactive electronic survey as previously described (Smith et al. 2007).
Young people were asked ‘Your treatment team may not tell you about a research study because they do not want to burden you at this team. What are your views on this?’ Participants could chose from three predefined answers.

**RESULTS**

**Exercise 1 and 2: Focus group**

Three main themes emerged from the focus group; see Table 3 for supporting quotes.

**Patient choice:** Young people thought it was their right to know all their options about what research was available to them. Participants in this group did not feel it was a burden to be approached about research studies, explaining if they had all the information they could then choose to refuse. Without the information they could not make a fully informed choice about their treatment and care.

**Role of healthcare professionals as facilitators/barriers:** The role of the healthcare professional was perceived as being central to facilitating the decision of whether to participate in research. Young people reported different relationships with members of their multidisciplinary team (MDT) and felt clinically trained professionals, such as doctors and nurses, were paramount to information giving and decisions around drug and treatment research. However, additional team members, such as social workers and youth support coordinators may be more suited to discussing psychosocial and health services research. Young people acknowledged and sympathised with the increasing time pressures for clinical staff and this was recognised as an indirect barrier to recruitment. This further strengthened their rationale for increasing the role of other MDT members, e.g. social workers and youth support coordinators.

**Value of the research:** The what, when and how of giving information about research studies were all key factors in assisting the choice to participate in research. The way in which information was presented by the person gaining consent was important. For example, if the healthcare professional conveyed the value of the study, the benefit to other young people and were enthusiastic in the delivery of information, young people felt they
were more likely to participate. Again young people highlighted that other members of the MDT may be more in tune as to when to approach a young person and also convey the value of non-treatment related research.

**Exercise 3: Individual reflection**

Young people were asked to comment about access and participation in eight different types of research (Table 4). They all reported being upset if their treatment team withheld study information, and identified the only reasons for not being told about a study was if their physical wellbeing would be affected or “If I was already responding well to current treatment”. One young person noted “I think it’s always okay to ask people to take part”. Table 4 also illustrates their thoughts on being approached about research from different members of their treatment team and responding to adverts on social media. This highlighted differing opinion on the use of social media, with some young people viewing this positively and stating they would use it as a way of involving other young people. Conversely, others felt using social media for recruitment to research was an intrusion of their personal space.

**Exercise 4: Creative interpretation**

Young people were asked to creatively interpret the day, which highlighted their views on the importance of BRIGHTLIGHT and the importance of all young people being offered the opportunity to take part (http://www.youtube.com/watch?v=W9HHkE9kEFw&feature=youtu.be, accessed 17/12/14). The videos also depicted their enthusiasm for user involvement and assisting with study conduct (http://www.youtube.com/watch?v=uHzNfhp8OvO, accessed 17/12/14).

**Post workshop consultation**

Approximately, seven out of ten young people agreed they wanted to find out about all studies for which they were eligible. However, we have to acknowledge that one third of young people trusted their healthcare professional to decide of which research studies they should be informed (Figure 1).

**DISCUSSION**
This is the first study we are aware of which has examined young peoples’ views on access, approach and inappropriate professional gate-keeping in cancer research. Among some healthcare professionals approaching vulnerable groups about participation in research is viewed as burdensome to patients (Ford et al. 2008). The opinions of participants in this study to an extent challenged that view as young people saw it as their right to be informed about all research studies for which they were eligible. This is in keeping with the current ‘Ok to ask’ campaign in the UK which aims to empower patients to ask their treatment team about all research studies available to them (http://www.ct-toolkit.ac.uk/news/its-ok-to-ask-the-nihrs-new-patient-empowerment-campaign, accessed 17/12/14). It is also in keeping with healthcare policy in the UK: ‘no decision about me, without me’ (Department of Health 2010).

The NIHR was established in 2006 to provide structure to enhance the conduct, delivery and implementation of research within the NHS. This includes providing over £1 billion in funding per year and establishing clinical research networks to facilitate and promote research. Consequently, the UK has the highest participation rate of cancer patients in clinical research in the world (Singh 2007). Despite this substantial investment, many studies still encounter recruitment difficulties (Treweek et al. 2010). In the current climate the economic consequences of poor trial accrual are obvious. Campbell et al. (2007) noted “… if recruitment has to be extended to reach the required sample size, the trial will cost more and take longer, delaying the use of the results in clinical practice. If trials become more expensive and take longer, fewer trials can be conducted overall with the limited funding and resources available.”

The research landscape in the UK is changing; limited resources dictate that we must be adaptable and more flexible in our approach to research. Young people recognised the increasing time pressures on clinical staff and advocated that other members of the MDT could explain and consent to non-drug and treatment studies. This is in keeping with the recent Health Research Authority (HRA) report which stated that patients preferred to be told about research by someone knowledgeable about the study irrespective of their
background (Hunn 2013). How patients seek and use information is also changing, and we should harness the opportunity to use social media and the internet to facilitate patient awareness of research and recruitment to low risk studies.

Healthcare professionals are critical to ensure research success facilitating the link between clinical care and research. However, evidence exists that this facilitator role can also be a barrier to participation (McDonald et al. 2006, Ross et al. 1999), which not only limits access to patients but may also introduce a degree of selection bias. Reasons for over zealous gatekeeping are not entirely understood, but it may be related to a conflict with the healthcare professional role in patient advocacy. This was noted by Grodin and Sassower (1987) ‘the principles of beneficence and non-maleficence may compel us to act paternalistically’. This is also linked to quality patient care and the ‘first do no harm’ principle which underpins current medical practice. Healthcare professionals may think they are protecting their patients from perceived burden; however, they may actually be contributing to unintended harm by restricting patient choice. What healthcare professionals say they do or intend to do, and what happens in practice is not always synonymous. An example of this was shown by Benjamin et al. (2000) who cited that 76-82% of haematologists said they entered patients into leukaemia clinical trials; however examination of entry rates showed only 36-46% did so. Similarly, the BRIGHTLIGHT feasibility work with healthcare professionals and the cancer research network uncovered a great deal of enthusiasm for the study yet recruitment rates remain below target.

These findings are subject to a number of limitations. We acknowledge that this is a group of self-selected research-aware young people and may not reflect the views of all young people. They voiced concern on how to reach other young people who were less empowered and knowledgeable than themselves:

‘...young people, who are not as proactive... who are not represented here, if you understand what I mean, the less proactive people. So we have to take note of this group of people as well’

However, our results were supported with a larger group of young people with cancer during our consultation and therefore we believe our results to be generalisable particularly for low risk studies such as BRIGHTLIGHT.
CONCLUSION

Recent initiatives to increase research activity in the UK cite age and ethnicity as barriers but offer little in the way of solution on how to overcome such barriers (National Cancer Research Institute 2012, http://www.ct-toolkit.ac.uk/news/its-ok-to-ask-the-nihrs-new-patient-empowerment-campaign, accessed 17/12/14). Our previous conceptual model defined ‘Access’ as critical to improving recruitment rates (Fern et al. 2014); this study supports this and illustrates that access can be blocked through healthcare professional gate-keeping. BRIGHTLIGHT recruitment will cease shortly and recruiting sites will be asked to complete a final screening log and an exit questionnaire. The questionnaire will ask healthcare professionals to bring to mind the last three patients they felt were ‘inappropriate to approach’ and to describe the reasons why they made that decision and what impact discussing recruitment may have had on the patient. This may allow us to gain some insight as to why paternalistic gatekeeping occurs among some healthcare professionals and identify particular groups of patients that professionals have difficulty in approaching about research. This study highlights the need to find effective ways to support and empower healthcare professionals in approaching vulnerable populations about research; ensuring all potential participants are given transparent information to make an informed choice, improve recruitment rates and ultimately the number of studies reaching completion.
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**Contributor’s statement:**
Rachel Taylor contributed to the conceptualisation and design of the workshop, was part of the workshop team, assisted in the analysis of transcripts, helped draft the initial manuscript and approved the final manuscript as submitted.

Anita Solanki contributed to the conceptualisation and design of the workshop, was part of the workshop team, assisted in the analysis of transcripts, helped draft the initial manuscript and approved the final manuscript as submitted.

Natasha Aslam was part of the workshop team, assisted in the analysis of transcripts, helped draft the initial manuscript and approved the final manuscript as submitted.

Jeremy Whelan contributed to the conceptualisation of the workshop, helped draft the initial manuscript and approved the final manuscript as submitted.

Lorna Fern contributed to the conceptualisation and design of the workshop, was part of the workshop team, assisted in the analysis of transcripts, helped draft the initial manuscript and approved the final manuscript as submitted.
### Table 1: The five ‘A’s of BRIGHTLIGHT- optimising young people’s participation

<table>
<thead>
<tr>
<th>Available</th>
<th>Definition of the barriers-promoters</th>
<th>Addressed in feasibility work and study design</th>
<th>Additional amendments</th>
</tr>
</thead>
</table>
|           | • Feasibility of research for rare cancers;  
|           | • resources for rare diseases;  
|           | • activation of trials in all appropriate treatment centres for teenagers and young adults | • Open to recruitment in as many acute Trusts in England as possible  
|           | | • Inclusive of all cancer types  
|           | | • Information sheets and consent forms available in any language (on request)  
|           | | • Inclusive of young people with learning disabilities | • Change the recruitment window to increase the flexibility of when to approach young people  
|           | | | • Analysis of screening logs (identify regional variation) |
| Accessible| • Referral to specialist centres;  
|           | • Collaboration across adult and paediatric oncologists | • Open in child, adult and TYA specialist centres  
|           | | • Data collection at a time and place directed by the young person | • Consent by the BRIGHTLIGHT team (for young people who contact us direct)  
|           | | | • Consent by other members of the MDT e.g. youth support coordinators, social workers  
|           | | | • Recruitment and consent through the Twittersphere  
|           | | | • Reviewing screening logs to identify inappropriate reasons for not approaching young people |
| Aware    | • Health-care professionals’ awareness of trials;  
|           | • awareness of need to offer teenagers and young adults trial entry; increased patient awareness;  
|           | • increased paediatric and adult communication | • Feasibility work involved key stakeholders (patient, professional, policy and charities)  
|           | | • National and local presentations about the study  
|           | | • Website with participant and healthcare professional sections  
|           | | • Distribution of advertising materials  
|           | | • Weekly update circulated in the professional society news bulletin | • Presentations to all the relevant NCRI CSGs  
|           | | | • Newsletters updating about the study  
|           | | | • Information distributed at a national patient conference  
|           | | | • Promotional adverts included in a national conference newsletter  
|           | | | • Information distributed by national cancer charities  
|           | | | • Presentations to senior nurses  
|           | | | • Emails from the Director/Assistant Directors of the NCRN  
|           | | | • Article about the study included in a
<table>
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<tr>
<th>Appropriate</th>
<th>Acceptable</th>
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</table>
| - Addressed during study development. Ensure age restrictions on trials are appropriate to cancer type and research question | - Feasibility work included:  
  - Workshops with healthcare professionals  
  - Engaged with National Research Network Managers, charitable and professional organisations  
  - Young people as co-researchers  
  - Interviews with young people about study design  
  - Focus groups with young people and families in the design of the outcome measure and methods of administration  
  - Consultation with 600 young people attending a national patient conference  
  - Online focus groups with healthcare professionals involved in recruitment | - Age eligibility inclusive of TYA (13-24 years) which addresses the research question. | - No amendment required | - Working with the user group  
  - Ability to obtain consent at the same time as giving information  
  - Executive summary information sheet developed to complement the main patient information sheet  
  - Approval to obtain consent by post  
  - Providing ‘top tips’ for recruitment:  
    - Linking to MDTs to identify young people early  
    - Stressing that participation does not have to include all 5 time points  
    - Stressing the content of the survey is not all about cancer  
  - Survey among recruiting Trusts to identify challenges and good practice  
  - Teleconference call with Network Managers to discuss challenges | - Perceptions of trial by young people;  
- Perception of trial design by health-care professionals;  
- acceptability to offer trial;  
- compatibility of trial with other treatments and life goals | - Approval to obtain consent by post | - Providing ‘top tips’ for recruitment:  
  - Linking to MDTs to identify young people early  
  - Stressing that participation does not have to include all 5 time points  
  - Stressing the content of the survey is not all about cancer  
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  - Stressing the content of the survey is not all about cancer  
  - Survey among recruiting Trusts to identify challenges and good practice  
  - Teleconference call with Network Managers to discuss challenges |

1Fern et al (2014) reproduced with permission
TYA: teenage and young adult; NCRI CSG: National Cancer Research Institute Clinical Studies Group; NCRN: National Institute for Health Research Cancer Research Network
Table 2: Eligibility criteria for BRIGHTLIGHT and examples of role play scenarios based on reasons presented in screening logs for not approaching young people

<table>
<thead>
<tr>
<th>Eligibility criteria</th>
<th>Exclusion:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inclusion:</td>
<td>Exclusion:</td>
</tr>
<tr>
<td>1. Diagnosed with cancer within the last four months</td>
<td>1. Not capable of completing the survey</td>
</tr>
<tr>
<td>2. Aged 13 – 24 at the time of diagnosis</td>
<td>2. Does not consent or assent</td>
</tr>
<tr>
<td>3. Resident in England at the time of diagnosis</td>
<td>3. Recurrence of previous cancer</td>
</tr>
<tr>
<td></td>
<td>4. Death is imminent</td>
</tr>
<tr>
<td></td>
<td>5. Receiving a custodial sentence at time of treatment</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Scenarios</th>
<th>Nurse, please can you talk to Jamil about BRIGHTLIGHT, find out if he wants to take part?</th>
<th>Really? There’s no point, he doesn’t speak or read English. And anyway, I haven’t seen him for a bit. I think he’s gone outside or something.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Researcher</td>
<td>Doctor James, is it possible to talk to Samuel about BRIGHTLIGHT?</td>
<td>Mmmm, he’s a bit upset at the moment so I don’t think it’s really appropriate.</td>
</tr>
<tr>
<td>Doctor</td>
<td>I just wanted to follow-up about Samuel, it’s been a couple of months since I spoke to you</td>
<td></td>
</tr>
<tr>
<td>Researcher</td>
<td>about approaching him for BRIGHTLIGHT.</td>
<td>Sorry, I just don’t think it’s appropriate that he’s approached.</td>
</tr>
<tr>
<td>Doctor</td>
<td>What do you mean? He is still within the study time frame, he’s not dying and he’s not in</td>
<td></td>
</tr>
<tr>
<td>Researcher</td>
<td>prison.</td>
<td>Look, I understand this study is important to you but I’m quite busy and I’m telling you it’s not appropriate that you talk to him about this study.</td>
</tr>
<tr>
<td>Doctor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Researcher</td>
<td>Nurse, is it possible to talk to Jasminder to take part in BRIGHTLIGHT?</td>
<td>Jasminder has Down syndrome and learning disabilities; I don’t think she’s going to be able to complete a survey.</td>
</tr>
<tr>
<td>Nurse</td>
<td></td>
<td>Our interviewers are skilled in communicating with people with mild to moderate learning difficulties, are you sure she can’t take part?</td>
</tr>
<tr>
<td>Researcher</td>
<td>I’m sorry. I really don’t think so. She’s not going to be able to say very much about her</td>
<td></td>
</tr>
<tr>
<td>Nurse</td>
<td></td>
<td>experience anyway. Maybe you can find someone else to approach who is more suitable.</td>
</tr>
</tbody>
</table>

Table 3: Supporting quotes for themes emerging from the workshop

<table>
<thead>
<tr>
<th>Theme</th>
<th>Supporting quotes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Patient choice</td>
<td>“If you can get asked you can just say no.”</td>
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<td></td>
<td>“...if you let them [patients] know what the impact it is going to have and give them the choice so it’s at the back of their head, they know when they have the strength they can call and say they want to do the first part, take it from”</td>
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<td></td>
<td>“You should have the right to partake in studies so long as they don’t physically clash. ... is currently on two drug trials.”</td>
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<td></td>
<td>“But as long as the patient wants to do it, it is fine.”</td>
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</table>
“At the end of the day it is your decision isn’t it? If they give you the option it is up to you to say yes or no. At the end of the day I know they are treating me and they are trying to help me get better but at the end of the day you know how you are feeling inside. Ok you might not look it but you know. I have had days when I have looked awful but I feel good on the inside and I have been able to talk to people for a while. If they at least tell you about it and you can be more aware of it. Personally it would make me feel like I’m more important like I am not just a patient I am actually a person and they want me to help other people as well.”

| Role of healthcare professionals as facilitators/barriers | “From what I can see the problem doesn’t lie with the young adult, it lies purely with the health professionals. The reason being why they are acting this way is because they don’t see the value of the survey.”

“I think it is also twofold the reasons why nurses and doctors don’t want to do it is because they don’t understand the value and also because like they might be quite busy and so they just don’t want to take on any extra work. It would be better just to brush you off because then they don’t have to deal with it, they don’t have to take responsibility of speaking to the patient”

“I think the route of going through the social worker is much more effective because you are no longer restricted to the traditional route of the doctors and healthcare professionals.”

“Maybe it makes more sense for the youth worker to do it because you are more likely to talk to them about the experience of being treated.”

“...the better route would be through the social workers. Because my experience is that health professionals have to have professional conduct, they can’t be too personal with you because they have to protect themselves as well. Whereas the social worker”

| Value of research | “If they were able to see the value of the survey... what kind of outcome and impact this survey would have for patients then they would be very proactive about it, because I think when I participated in the BRIGHTLIGHT survey when I was interviewed my healthcare professional was quite proactive about it. She sees the value or the survey”

“If you are able to convey a very good message, if you can send a good message across, this survey is going to give this kind of impact and this outcome, and what kind of impact this will give to their patients. Because I’m sure the healthcare professionals want the best for their patients. If they are able, make them see the value then the message will be smoother and it will come across easier.”

“I think the patient has to get something out of it. Because they are making the investment of their time they will want something out of it.”
Table 4: Young people’s perceptions of access to different areas of research

<table>
<thead>
<tr>
<th>Study type</th>
<th>If I found out my treatment team had withheld a study I would feel...</th>
<th>It’s okay for my treatment team not to tell me if...</th>
<th>It’s okay for someone other than my doctor or nurse to talk to me about this...</th>
<th>If I received study information in the post I would...</th>
<th>If I saw an advert on social media I would...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Improving cancer diagnosis</td>
<td>“Upset as I would like to help raise awareness”</td>
<td>“I was too unwell to take part”</td>
<td>“Yes as it is about raising awareness so can get more info from social workers”</td>
<td>“Want to take part. However, if I am in the middle of my treatment I may not feel well enough to take care of the postage myself”</td>
<td>“Be up for taking part!”</td>
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<td></td>
<td>“Annoyed as I know many people who have had diagnosis problems and don’t want it to happen to others”</td>
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<td></td>
<td>“Not be so inclined to take part. Twitter and Facebook are impersonal/informal to me. Face to face approach and letters in the post would feel more important and valid”</td>
</tr>
<tr>
<td>Delivery of care</td>
<td>“My chances of survival may have been compromised”</td>
<td>“I’m like properly ill and they know I’ll get annoyed getting asked”</td>
<td>“Agree”</td>
<td>“Take part if I’m not already too busy with other studies”</td>
<td>“Depends on advert”</td>
</tr>
<tr>
<td></td>
<td>“Disappointed”</td>
<td></td>
<td></td>
<td>“Probably (to be honest) not take much notice unless someone contacted me personally/directly”</td>
<td>“Take part if I see many young people who are already part of the survey/if my friends have already liked the page”</td>
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<tr>
<td></td>
<td>“Upset as it may have improved my emotional outlook during treatment”</td>
<td></td>
<td></td>
<td></td>
<td>“Take notice if it seemed interesting (make it swaggy)”</td>
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<tr>
<td></td>
<td>“Disappointed with health professionals”</td>
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<tr>
<td>How to help young people recover more quickly</td>
<td>“Taking part in a study like this, and being and feeling relevant, is crucial for mental recovery”</td>
<td>“I was unlikely to recover”</td>
<td>“I would prefer this”</td>
<td>“Feel like I’ve been invited as a person not a patient who just happened to fit the criteria”</td>
<td>“I would take part if contacted on Facebook &amp; Twitter rather than professionals or social workers. I wouldn’t feel pressured.”</td>
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<td></td>
<td>“Meeting others going through similar experiences”</td>
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<td>“Would be likely to respond”</td>
</tr>
<tr>
<td>Preventing cancer in young people</td>
<td>“Upset that I would have wanted to taken (sic) part”</td>
<td>“If affect my health, if I was to (sic) weak/tired to take part”</td>
<td>“No, I would want more medical information provided by Dr or nurse specialist”</td>
<td>“Yes social worker or TCT activity coordinator”</td>
<td>“I’d be encouraged to alert and share this study with my other friends who also have cancer. Something we can do together.”</td>
</tr>
<tr>
<td>New treatments</td>
<td>“Violated”</td>
<td>“Upset because it may have offered a better option of treatment that is more effective”</td>
<td>“If I am already responding well to current treatment and wouldn’t want to put me at risk when unnecessary”</td>
<td>“If I was posted a letter to take part in a study I might not be as pro-active in replying and sending back. But an email is more accessible for me, and my youth worker presenting it tome will be more effective”</td>
<td>“Want to find out more. Preferably from a discussion with an actual person”</td>
</tr>
<tr>
<td>Survivorship and late effects</td>
<td>“Proper mad ting (sic)”</td>
<td>“Disappointed not to make my own mind up because I believe strongly in the importance of research. I”</td>
<td>“Upset as I would want to be aware of late effects so I could monitor and control them”</td>
<td>“I think its always okay to”</td>
<td>“Be up for taking part”</td>
</tr>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td>“Yes because I would be ready to help and give my experience”</td>
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<tr>
<td>Causes of cancer</td>
<td>&quot;If I was undergoing a lot of invasive procedures as it was and if I was not emotionally ready for more”</td>
<td>“No as it is more clinical and would want more info from a healthcare professional”</td>
<td>“Probably not if I was still on treatment or was unfamiliar with the company as FB &amp; Twitter are very informal”</td>
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<tr>
<td>Cancer biology in young people</td>
<td>“Upset as it may have helped improve my treatment and it’s my choice”</td>
<td>“Yes if it effected my well-being or health in any way”</td>
<td>“Maybe but probably better from medical team as they probably deal with older people too”</td>
<td>“Be less likely to respond by post esp (sic) if unwell and unwilling to go outside!”</td>
<td></td>
</tr>
</tbody>
</table>
Your treatment team may not tell you about a research study as they do not want to burden you at this time. What are your views on this?

1. I should be told about all research studies so I can decide  
   
2. I trust my treatment team to make these decisions for me  
   
3. I am not a cancer patient