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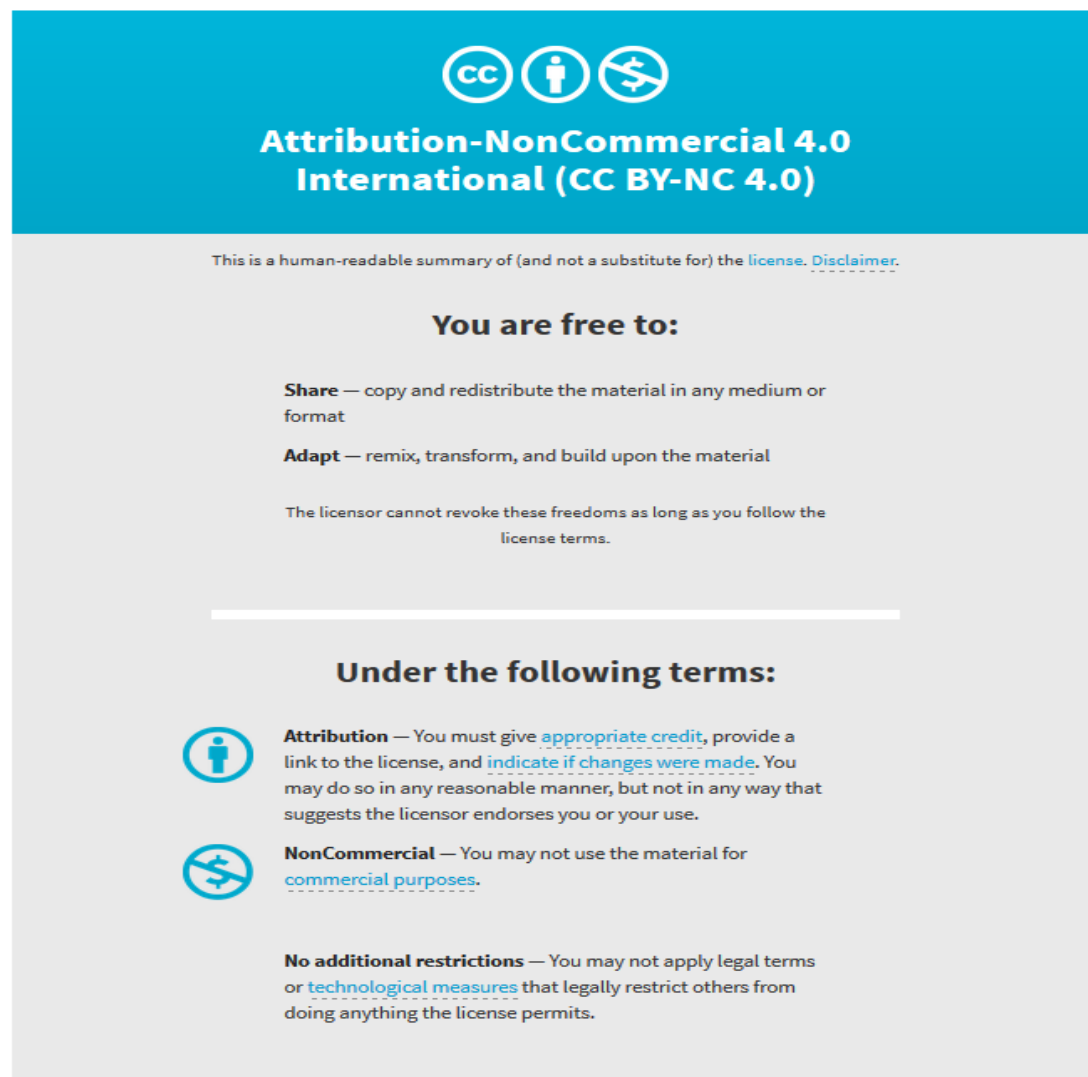
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BMJ Open Parallel multicentre randomised trial of a clinical trial question prompt list in patients considering participation in phase 3 cancer treatment trials

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ABSTRACT

Objective: To evaluate the effect of a clinical trial question prompt list in patients considering enrolment in cancer treatment trials.

Setting: Tertiary cancer referral hospitals in three state capital cities in Australia.

Participants: 88 patients with cancer attending three cancer centres in Australia, who were considering enrolment in phase 3 treatment trials, were invited to enrol in an unblinded randomised trial of provision of a clinical trial question prompt list (QPL) before consenting to enrol in the treatment trial.

Interventions: We developed and pilot tested a targeted QPL for patients with cancer considering clinical trial participation (the clinical trial QPL). Consenting patients were randomised to receive the clinical trial QPL or not before further discussion with their oncologist and/or trial nurse about the treatment trial.

Primary and secondary outcomes: Questionnaires were completed at baseline and within 3 weeks of deciding on treatment trial participation. Main outcome measure: scores on the Quality of Informed Consent questionnaire (QuIC).

Results: 88 patients of 130 sought for the study were enrolled (43 males), and 45 received the clinical trial QPL. 49% of trials were chemotherapy interventions for patients with advanced disease, 35% and 16% were surgical adjuvant and radiation adjuvant trials respectively. 70 patients completed all relevant questionnaires. 28 of 43 patients in the control arm compared with 39 of 45 patients receiving the clinical trial QPL completed the QuIC ($p=0.0124$). There were no significant differences in the QuIC scores between the randomised groups (QuIC part A $p=0.08$ and QuIC part B $p=0.92$). There were no differences in patient satisfaction with decisions or in anxiety levels between the randomised groups.

Conclusions: Use of a question prompt list did not significantly change the QuIC scores in this randomised trial. ANZCTR 12606000214538 prospectively registered 31/5/2006.

Trial registration number: Results, ACTRN12606000214538.

Strengths and limitations of this study

- The clinical trial question prompt list contained 51 questions grouped under 10 headings.
- The Quality of Informed Consent questionnaire (QuIC) is widely used to measure clinical trial participants' actual and perceived understanding of cancer clinical trials.
- The trial was stopped prematurely due to low accrual rates and on the advice of an independent data monitoring committee.
- Participants had only a few minutes to review the clinical trial question prompt list (QPL) before continuing discussion about the randomised cancer treatment trial.
- Information about the duration of the informed consent discussion in the trial is not available.
- The time patients receiving QPL list had to review the QPL before continuing the discussion about the cancer treatment is not available.

INTRODUCTION

Surveys of the public have found widespread support for the concept of clinical trials as an important and ethical means of developing improved medical care. However, only a small percentage of eligible patients are recruited to clinical trials in many institutions that promote clinical trial participation.

A significant proportion of non-trial participation is explained by patient refusal.¹ Reasons for trial refusal by eligible patients include concerns regarding experimentation and uncertainty and loss of control over treatment decisions. Even when patients agree to participate, they frequently do not understand basic components of the trial that they have consented to enter.^{2 3} In the UK Jenkins *et al*⁴ audiotaped discussions between oncologists and patients during which consent was being obtained for a randomised clinical trial. In most, the concept of the trial was introduced by describing

uncertainty about treatment decisions. The word randomisation was mentioned in 51 consultations (62.2%). The median duration of 'consent' interviews was <15 min and most patients signed the consent document at the first consultation at which the clinical trial was discussed.

Brehaut *et al*^{5, 6} argue that the existing approach to obtaining informed consent for clinical research may be improved by using decision aids. Juraskova *et al*⁷ reported successful piloting of a decision aid to assist women considering participation in a breast cancer prevention trial. Spiegle *et al*⁸ performed a systematic review to identify alternative types of decision support interventions (DSIs) for cancer treatment and a meta-analysis to compare the effectiveness of DSIs compared with patient decision aids. The study showed that the effectiveness of other DSIs, including question prompt list (QPLs) and audio recordings of the consultation, is similar to patient decision aids. This finding is important because less complex DSIs such as a targeted QPL may be all that is necessary to achieve similar outcomes as patient decision aids for cancer treatment. QPLs have been shown to increase question asking in patients with cancer.^{9, 10}

The Quality of Informed Consent questionnaire (QuIC) was designed to measure participants' actual (objective) and perceived (subjective) understanding of cancer clinical trials. Joffe *et al*¹¹ derived 13 independent domains of informed consent and wrote one or more questions to measure participants' objective and subjective understanding of their clinical trials. After feedback from pilot testing and input from expert panels, the QuIC was sent to adult patients with cancer enrolled in phase 1, 2 and 3 clinical trials. Test-retest reliability was good, as was face and content validity. The QuIC took an average of 7.2 min to complete.

Joffe *et al*² reported the use of the QuIC to measure the quality of understanding among 207 cancer clinical trial participants in Boston who had signed a clinical trial consent form a median of 16 days earlier. Almost half of the consent discussions had lasted 1 hour. The consent form was signed a median of 6 days after the initial discussions about the trial and a quarter signed during the first consultation. There was considerable variation in the proportion of correct answers across individual questions in the QuIC.

Bergenmar *et al*¹² used the QuIC to survey 282 patients who had been informed in Swedish about a phase 2 or phase 3 trial and had signed a consent form. The patients were asked about the duration of the consent discussion. Thirty-nine patients (14%) reported the duration of the consent discussion was <15 min, 139 patients (50%) responded between 15 and 30 min, and 50 patients (11%) between 45 and 60 min. The proportion of correct responses to the 16 items applicable to all patients, irrespective of trial phase was presented. High levels of knowledge (>80%) were found for seven items, and five items were responded to correctly by

50–80% of the patients. In total, <50% responded correctly to four items, namely risks related to the trial, the unproven nature of the trial and issues about insurances in connection to participating in the trial.

We used the QuIC to survey patients with cancer in Sydney and Melbourne who had been approached to participate in a clinical trial. The mean score on part A of the QuIC among 100 patients studied in Sydney was 76.8.¹³ In 72 patients with cancer studied in Melbourne, the median objective knowledge score was 77.6/100, and perceived (subjective) understanding (QuIC part B) score was 91.5.³ Some questions were answered particularly poorly. Higher knowledge score (QuIC part A) was associated with English as a first language. Calculation of the summary score questions included is presented in <http://jncli.oxfordjournals.org/content/93/2/139.full>. This also shows the questions that are not scored for particular phase trials.

We developed a targeted QPL for clinical trials in order to identify questions which might facilitate patient participation in clinical trial discussions with their oncologist and clinical trial nurse.¹⁴ We conducted a series of focus groups with patients with cancer and their carers. The focus groups were audio-taped and transcribed. The transcripts were analysed using rigorous qualitative methodology. The final draft of the QPL was pilot tested to evaluate content validity, and acceptability and perceived efficacy in satisfying information needs about clinical trials needs and achieving involvement preference using a sample of 10 patients with cancer considering participation in a phase 3 clinical trial at each of the participating institutions. The clinicians, oncologists and clinical research nurses were encouraged to endorse and refer to the QPL during their discussion. Feedback from these patient/clinician cohorts informed the final version of the clinical trial QPL. The final version of the clinical trial QPL used in the randomised trial includes 51 questions grouped under 10 headings is presented in [figure 1](#).

The aims of this study were to determine whether providing patients who are considering clinical trial participation with a QPL about clinical trials enhances: (1) the patient's quality of understanding of the cancer clinical trial; (2) patient achievement of his or her involvement/participation preference, (3) patient satisfaction with the informed consent to treatment decision-making process and (4) oncologist and research nurse satisfaction with the clinical trial discussion and decision-making process.

We hypothesised that patients with cancer receiving a clinical trial QPL which was endorsed by the oncologist and trial nurse prior to deciding whether to participate in a randomised cancer clinical trial compared with patients not receiving this intervention would have a higher mean knowledge score in the informed consent questionnaire (QuIC part A) (primary outcome); have enhanced achievement of their information and involvement/participation preference; and, be more satisfied with the informed consent and decision-making process.

<p>1. Understanding my choices</p> <ul style="list-style-type: none"> <input type="checkbox"/> What is the usual (standard) treatment for people in my situation? <input type="checkbox"/> Why are you offering me this particular trial? <input type="checkbox"/> Are there choices other than the trial and standard treatment? <input type="checkbox"/> What other trials am I suitable for? What makes me suitable (or not)? <p>2. Finding out about this trial</p> <ul style="list-style-type: none"> <input type="checkbox"/> Is there a Patient Information Statement and would you please go through it with me? <input type="checkbox"/> How can I learn more about the trial? <input type="checkbox"/> Can I talk to someone who's already on the trial? <p>3. Understanding the trial's purpose and background</p> <ul style="list-style-type: none"> <input type="checkbox"/> What is the purpose of the trial? <input type="checkbox"/> What makes this trial an experiment? <input type="checkbox"/> What is already known about this treatment's success? <input type="checkbox"/> How does the treatment work? <input type="checkbox"/> Does the trial ask an important question in cancer treatment? <p>4. Understanding the possible benefits</p> <ul style="list-style-type: none"> <input type="checkbox"/> What benefits could I get by joining in the trial? <input type="checkbox"/> If I join this trial, how might others benefit? <input type="checkbox"/> Has this treatment's benefit already been proven? <input type="checkbox"/> What does response rate mean? <input type="checkbox"/> How long would a response last? 	<p><input type="checkbox"/> How do you measure response? What is meant by "measurable disease"?</p> <p>5. Understanding the possible risks</p> <ul style="list-style-type: none"> <input type="checkbox"/> What are the risks of taking the new treatment? <input type="checkbox"/> Could there be any long term or permanent changes from the treatment? <input type="checkbox"/> Are there any serious or rare side effects I should know about? <input type="checkbox"/> Whom can I call if something goes wrong? <input type="checkbox"/> If I get a side effect or injury because of being in the trial, will I get compensation? <p>6. The differences between going on the trial & having standard treatment</p> <ul style="list-style-type: none"> <input type="checkbox"/> If I enter the clinical trial, will I need to have extra tests, go to more clinics and will it cost me any money? (extra parking, extra medication) How is this different from standard treatment? <input type="checkbox"/> Will there be side effects on the trial which I won't get on the standard treatment? <input type="checkbox"/> Where will treatment for the trial be given? Is that somewhere different from standard treatment? <input type="checkbox"/> Can I have the trial treatment at my local hospital? <p>7. Understanding how the trial is being carried out</p> <ul style="list-style-type: none"> <input type="checkbox"/> Is the new treatment only available through joining the trial? <input type="checkbox"/> How long has the trial been going on? <input type="checkbox"/> How many hospitals are involved? 	<p><input type="checkbox"/> How many people will be studied?</p> <p><input type="checkbox"/> How many people are in the trial already? Do you have any concerns about this trial or treatment so far?</p> <p><input type="checkbox"/> Apart from the hospital staff, will other people have access to my medical records? Who?</p> <p><input type="checkbox"/> How will my confidentiality be protected?</p> <p><input type="checkbox"/> How will I be informed of the results of the trial?</p> <p><input type="checkbox"/> If the new treatment is beneficial, how can I get it (if I'm not already on it)?</p> <p>8. Understanding "randomisation"</p> <ul style="list-style-type: none"> <input type="checkbox"/> Is this trial "randomised"? What does that mean? <input type="checkbox"/> Will I know what treatment I'm getting? <input type="checkbox"/> What is a treatment arm? How many treatment arms are there in this trial? <input type="checkbox"/> Are there different side effects depending on which arm of the trial I am randomised to? <input type="checkbox"/> Why is randomisation important in this trial? Is this trial "blinded"? What does that mean? Will I ever know what treatment I'm getting? <input type="checkbox"/> Why is "blinding" important in this trial? <p>9. Understanding possible conflicts of interest</p> <ul style="list-style-type: none"> <input type="checkbox"/> Are you in charge of the trial (the principal investigator)? If not, what's your role in the trial? <input type="checkbox"/> Who is paying for the trial? What is the relationship between you and the sponsor/company? <input type="checkbox"/> Is there a payment made by the sponsor/company to the hospital or to you as my doctor if I go on this trial? Could you tell me how much money, and is this usual? How is the money spent? 	<p>10. Understanding my right to join or not to join trial</p> <ul style="list-style-type: none"> <input type="checkbox"/> Will you still treat me if I decide not to go on trial? <input type="checkbox"/> Do I have time to think about whether to go the trial (a day or two, or a week)? <input type="checkbox"/> If I do take some time to decide will that affect how well the treatment works? <input type="checkbox"/> If I join the trial, but later change my mind how can I stop? Will this make a difference my treatment? <input type="checkbox"/> If I join the trial, will I lose out on any new treatment opportunities (e.g. another trial, standard treatment later)? <input type="checkbox"/> Can I still use alternative therapies if I go on trial?
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Figure 1 Questions you may wish to ask your doctor about clinical trials. This question prompt list is intended to help you to make a decision about participating in a cancer clinical trial. It provides you with some questions that you might like to think about and ask your doctor now or later.

We also hypothesised that the intervention would not reduce clinical trial participation.

METHODS

All patients invited to participate in a randomised cancer treatment clinical trial at three participating cancer centres were eligible for the study evaluating use of the clinical trial QPL unless the cancer treatment protocol excluded patients entered in a second randomised trial. Eligible patients were approached by a research nurse prior to their written consent to the cancer treatment trial being sought and invited to participate in the evaluation of the clinical trial question prompt list. After their written consent had been obtained, patients completed a questionnaire containing measures of information and involvement preferences,^{15 16} their attitudes to clinical trials¹⁷ and their anxiety level¹⁸ (see online supplementary appendix 1).

A randomisation sequence was generated by an independent service. Patients were randomised by opening a numbered blank envelope containing the treatment group allocation: to receive or not receive the clinical trial QPL. Patients in the control group continued their discussion with the oncologist/research nurse about the clinical treatment trial. Patients randomised to receive the clinical trial QPL had at least a few minutes to review it before continuing discussion with their oncologist and/or clinical research nurse about the cancer trial

proposed. During this latter discussion the clinicians specifically referred to the QPL and encouraged patients to review the list of questions. Thus participants were not blinded to intervention assignment; however, data entry personnel were blinded. There was no control of QPL exposure time nor was the time documented. There was no researcher control of items in the QPL raised by the patient or clinician.

After the decision about cancer treatment clinical trial participation, and within 3 weeks, patients were asked to complete the QuIC² and questionnaires measuring anxiety,¹⁸ their satisfaction with the consent discussion and decision making¹⁹ and achievement of their information and involvement preferences.²⁰ Clinician satisfaction with the informed consent process was measured using an adapted form of an existing seven-item scale measuring physician satisfaction with the decision-making process^{21 22} (see online supplementary appendix 2).

The primary outcome measure was the QuIC. Part A of this scale contains questions covering 13 domains which are summed to produce a total score capped at 100. The authors of the QuIC reported a mean total score of 79.7 and SD of 7.7 on part A of the scale. An improvement of understanding of one entire domain score is considered to be a clinically significant improvement. A sample of 130 patients was sought for the study to have 80% power at the 5% two-sided level of significance to detect a clinically meaningful difference.

Table 1 Patient demographic, randomisation group, attitude to clinical trials

	Intervention	Control
Age		
N	45	43
Mean	57	56.9
Median	58	60
SD	13.2	14.5
Minimum	28	22
Maximum	85	84
Gender		
Female	25 (56%)	20 (47%)
Marital status		
Never married	5 (11%)	7 (16%)
Married/de facto	30 (67%)	30 (70%)
Widowed	2 (4%)	3 (7%)
Divorced/separated	7 (16%)	3 (7%)
Other	1 (2%)	0 (0%)
Education		
Year 10 or below	18 (41%)	16 (37%)
Year 12	6 (14%)	12 (28%)
Certificate/diploma	10 (23%)	8 (19%)
University degree	5 (11%)	7 (16%)
Higher degree/postgraduate	5 (11%)	0 (0%)
Country of birth		
Australia	38 (84%)	40 (93%)
Other	3 (7%)	0 (0%)
Croatia	1 (2%)	0 (0%)
Italy	0 (0%)	1 (2%)
Hungary	1 (2%)	0 (0%)
UK	1 (2%)	1 (2%)
New Zealand	0 (0%)	1 (2%)
Poland	1 (2%)	0 (0%)
Hospital		
RPAH	26 (58%)	25 (58%)
PETER MAC	15 (33%)	13 (30%)
Royal Adelaide	4 (9%)	5 (12%)
Trial Context		
Chemotherapy for advanced disease	22	24
Adjuvant surgery	12	15
Adjuvant radiation	8	7
Specialist who was involved in the trial discussion		
Medical oncologist	20 (44%)	23 (53%)
Surgeon	16 (36%)	15 (35%)
Radiation oncologist	6 (13%)	4 (9%)
Medical + radiation oncologist	3 (7%)	1 (2%)
Positive attitude		
N	45	43
Mean	14	13.4
SD	3	4.4
Median	15	15
Minimum	8	0
Maximum	18	18
Negative Attitude		
N	45	43
Mean	4.9	4.3
SD	2.1	2.6
Median	5	4
Minimum	0	0
Maximum	10	10

Continued

Table 1 Continued

	Intervention	Control
Clinical trial knowledge score		
N	45	43
Mean	4	3.6
SD	1.8	2.1
Median	4	4
Minimum	0	0
Maximum	7	7
Withdrawal/missing		
No	40 (89%)	30 (70%)
Did not complete questionnaire	0 (0%)	3 (7%)
Second questionnaire not completed	5 (11%)	10 (23%)

Peter Mac, Peter MacCallum Cancer Centre; RPAH, Royal Prince Alfred Hospital.

The trial accrued slowly and was stopped after 88 patients had been randomised on the advice of an independent data monitoring committee who determined that the probability of detecting a clinically meaningful difference with continued recruitment was very low (ie, the conditional power at this point in the study was well under 20%).

Eighty-eight patients were enrolled of whom 43 were males and 45 received the clinical trial QPL. Fifty-one were recruited from Royal Prince Alfred Hospital, 28 from Peter MacCallum Cancer Centre and nine from Royal Adelaide Hospital. **Table 1** presents demographic and disease details including the clinical treatment trial intervention, participating hospital and randomisation group. Patients' attitudes to clinical trials,¹⁵ clinical trial knowledge score,^{21 22} and status of completed questionnaires are also presented. Participants were balanced for gender, marital status and education level. Seventy patients completed all relevant questionnaires, but 13 in the control arm and five in the intervention arm did not complete the first and/or second questionnaires (**figure 2**).

Table 2 presents the results of the QuIC scores, and the Spielberger State Anxiety Inventory.¹⁸ Twenty-eight of 43 patients in the control arm compared with 39 of 45 receiving the clinical trial QPL completed the informed consent questionnaire (p=0.02). There were no significant differences in the QuIC scores between the randomised groups (QuIC part A p=0.08 and QuIC part B p=0.92). We tested whether patient age or gender modified the effect of the QPL on the QuIC, and found no statistical evidence for this.

There was no difference in anxiety between the randomised groups.

Table 3 presents the results of patient satisfaction with the decision scores. There is no difference between the randomised groups in these results.

Table 4 presents the results of physician satisfaction with the consultation and with decision scores. There is no difference between the randomised groups in these results.

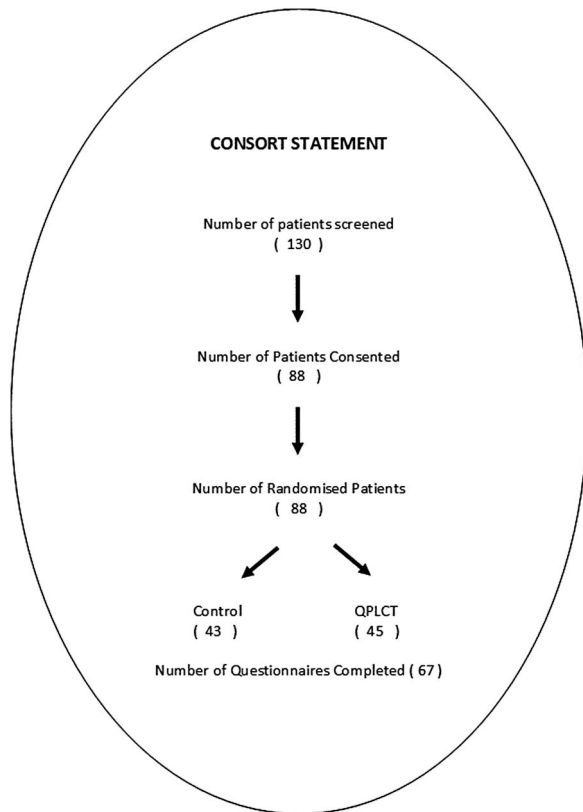


Figure 2 Participant flow diagram.

DISCUSSION

Use of the clinical trial QPL did not significantly change patient knowledge scores measured by the QuIC. The percentage of patients in the control arm completing the QuIC was significantly reduced compared with the intervention group ($p=0.02$). There was a trend towards

lower knowledge scores (QuIC part A) in the intervention group compared with control ($p=0.08$). The reason for this is unknown. Patients in the control group who actually completed the assessment achieved favourable results. We hypothesise that those in the control group who comprised 28 of 43 patients in the control arm constituted a self-selected cohort of patients who were more engaged in the clinical trial process.

We have no information about the duration of the consent interviews in our trial, but it is likely that use of the clinical trial QPL extended the consent interview by a few minutes. Patients only had the QPL for a few minutes before continuing with the clinical trial consent discussion so the ‘dose’ of the QPL may be low, and therefore not effective. Physician endorsement of QPL use by the patient in other contexts has been an important contributor to the efficacy of QPLs.^{23 24} As QPLs have previously demonstrated benefit, it may have been these exposure and endorsement factors that prevented efficacy of the clinical trial QPL in this instance.

The patients in our trial all consented to participate in the informed consent trial at the first consultation when trial participation was sought. This finding differs from the experience reported by Joffe *et al*² where the consent form for the treatment trial was signed a median of 6 days after the initial discussion about the trial, and only 28% consented at the first consultation. There is great variation in the interval from considering participation in a clinical trial to consenting to enrol in the trial. We do not know when patients consented to participate in the cancer treatment trial but patients were asked to complete the QuIC within 3 weeks after the decision about cancer trial participation had been made.

Stryker *et al*²⁵ studied the factors associated with informed consent, patient satisfaction, and decisional

Table 2 Results of the QuIC scores, and the Spielberger State Anxiety Inventory¹⁸

Measure	Intervention	Control	Difference (95% CI)	p Value*
QuIC part A summary				
N	39	28		
Mean	75.5	79.9	4.5 (95% CI -0.5 to 9.5)	0.080
SD	9.9	10.4		
Minimum	53.8	51.9		
Maximum	94.2	100		
QuIC part B summary				
N	39	28		
Mean	88.4	88.1	-0.3 (95% CI -6.1 to 5.5)	0.920
SD	12.1	11.4		
Minimum	51.8	64.3		
Maximum	100	100		
Spielberger State Anxiety Inventory (follow-up)				
N	38	26		
Mean	34.815	37.153	2.3 (95% CI -3.7 to 8.3)	0.438
SD	10.8	13.1		
Minimum	20	20		
Maximum	63	66		

*t-test.

QuIC, Quality of Informed Consent questionnaire.

Table 3 Patient satisfaction with decision scores

Measure	Intervention	Control	p Value*
Adequately informed			
Disagree strongly	0 (0%)	1 (4%)	
I disagree	1 (3%)	0 (0%)	
Neutral	2 (5%)	2 (7%)	
Agree	20 (51%)	12 (43%)	
Agree strongly	16 (41%)	13 (46%)	
Total	39	28	0.6315
Best decision			
Disagree strongly	0 (0%)	1 (4%)	
I disagree	1 (3%)	0 (0%)	
Neutral	3 (8%)	3 (11%)	
I agree	13 (33%)	10 (36%)	
Agree strongly	22 (56%)	14 (50%)	
Total	39	28	0.6575
Consistent with values			
Disagree strongly	0 (0%)	1 (4%)	
Neutral	5 (13%)	3 (11%)	
I agree	17 (35%)	12 (43%)	
Agree strongly	16 (42%)	12 (43%)	
Total	38	28	0.6935
Carry out decision			
Disagree strongly	0 (0%)	1 (4%)	
Neutral	2 (5%)	0 (0%)	
I agree	17 (46%)	14 (50%)	
Agree strongly	18 (49%)	13 (46%)	
Total	37	28	0.4063
I am satisfied this was my decision to make			
Disagree strongly	0 (0%)	1 (4%)	
Neutral	2 (5%)	1 (4%)	
I agree	13 (33%)	14 (50%)	
Agree strongly	24 (62%)	12 (43%)	
Total	39	28	0.3002
I am satisfied with my decision			
Disagree strongly	0 (0%)	1 (4%)	
Neutral	4 (11%)	3 (11%)	
I agree	14 (37%)	11 (39%)	
Agree strongly	20 (53%)	13 (46%)	
Total	38	28	0.6806

*Fisher's exact test.

Table 4 Clinical satisfaction with the consent consultation and with decision scores

	Intervention	Control	p Value*
I am satisfied that I provided enough information about the treatment options			
Strongly disagree	1 (2%)	2 (6%)	
Not sure	1 (2%)	1 (3%)	
Agree	21 (51%)	21 (58%)	
Strongly agree	18 (44%)	12 (33%)	
Total	41	36	0.77
I am satisfied that I clearly communicated the clinical trial and treatment options			
Strongly disagree	1 (2%)	1 (3%)	
Not sure	2 (5%)	3 (8%)	
Agree	20 (49%)	21 (58%)	
Strongly agree	18 (44%)	11 (31%)	
Total	41	36	0.68
I am satisfied that I involved the patient in the decision-making process			
Strongly disagree	1 (2%)	1 (3%)	
Not sure	2 (5%)	2 (6%)	
Agree	21 (51%)	21 (58%)	
Strongly agree	17 (41%)	12 (33%)	
Total	41	36	0.93
The patient understood the clinical trial being proposed			
Strongly disagree	1 (2%)	1 (3%)	
Disagree	0 (0%)	1 (3%)	
Not sure	1 (2%)	3 (8%)	
Agree	26 (63%)	25 (69%)	
Strongly agree	13 (32%)	6 (17%)	
Total	41	36	0.33
Overall, I am satisfied with the decision-making process for this patient			
Strongly disagree	2 (5%)	1 (3%)	
Disagree	1 (2%)	0 (0%)	
Not sure	2 (5%)	5 (14%)	
Agree	22 (54%)	23 (64%)	
Strongly agree	14 (34%)	7 (19%)	
Total	41	36	0.32

*Fisher's exact test.

regret in 87 patients who were eligible to participate in 12 selected phase 1, 2 and 3 clinical trials. They found that patients who enrolled in clinical trials quickly, may not believe they fully understand the implications of trial participation and ultimately regret their decision to participate. However, there was no relationship between timing of consent and decisional regret.

Limitations of the study include the low accrual rate, the imbalance in completion of the QuIC in the randomised groups and the brief exposure to the clinical trial QPL. Future studies of clinical trial question prompt lists should document the duration of the consent interview, the time taken for consent to be given, and consideration of when is the optimal time for patient understanding of their clinical trial to be sought.

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