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trial question prompt list

in patients considering

participation in phase 3

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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

Martin H N Tattersall,^{1,2} Michael Jefford,^{3,4} Andrew Martin,⁵ Ian Olver,⁶ John F Thompson,⁷ Richard F Brown,⁸ Phyllis N Butow⁹

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 og include concerns regarding experimentation g 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 al⁴ 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

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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*^{δ} 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 (OPLs) 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 OuIC to survey patients with cancer in

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://jnci.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 $\overline{\mathbf{s}}$ 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 randotrair mised 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.

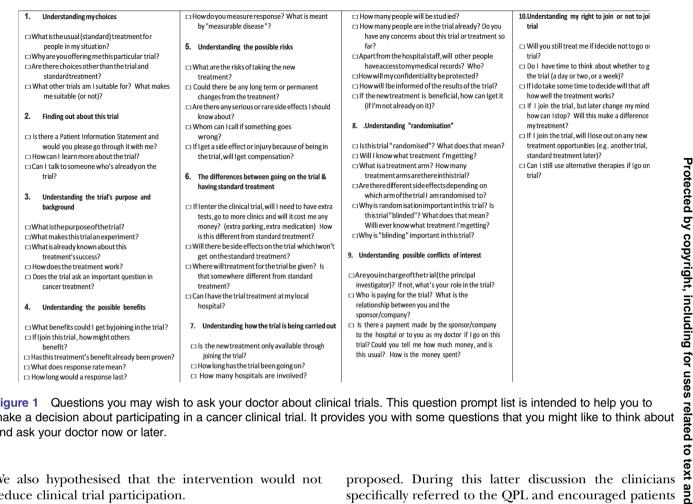


Figure 1 Questions you may wish to ask your doctor about clinical trials. This question prompt list is intended to help you to make a decision about participating in a cancer clinical trial. It provides you with some questions that you might like to think about and ask your doctor now or later.

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 OPL exposure time nor was the time documented. There was no researcher control of items in the QPL raised by the patient or clinician.

training, 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 technolog measuring physician satisfaction with the decisionmaking process²¹ 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	o clinical trials	

Age N Mean Median SD Minimum Maximum Gender Female Marital status Never married Married/de facto	45 57 58 13.2 28 85 25 (56%)	43 56.9 60 14.5 22 84
Mean Median SD Minimum Maximum Gender Female Marital status Never married Married/de facto	57 58 13.2 28 85	56.9 60 14.5 22
Median SD Minimum Maximum Gender Female Marital status Never married Married/de facto	58 13.2 28 85	60 14.5 22
SD Minimum Maximum Gender Female Marital status Never married Married/de facto	13.2 28 85	14.5 22
Minimum Maximum Gender Female Marital status Never married Married/de facto	28 85	22
Maximum Gender Female Marital status Never married Married/de facto	85	
Gender Female Marital status Never married Married/de facto		84
Female Marital status Never married Married/de facto	25 (56%)	
Marital status Never married Married/de facto	25 (56%)	
Never married Married/de facto		20 (47%)
Married/de facto	- (110)	= (100()
	5 (11%)	7 (16%)
	30 (67%)	30 (70%)
Widowed	2 (4%)	3 (7%)
Divorced/separated Other	7 (16%)	3 (7%)
Education	1 (2%)	0 (0%)
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	5 (1176)	0 (078)
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	22	24
disease		
Adjuvant surgery	12	15
Adjuvant radiation	8	7
Specialist who was involved in the		
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	45	40
N	45	43
Mean	14	13.4
SD Median	3	4.4
Minimum	15 8	15 0
Maximum	0 18	18
Negative Attitude	10	10
N	45	43
Mean	45 4.9	43 4.3
SD	4.9 2.1	4.3 2.6
Median	2.1	2.0
Minimum	0	4
Maximum	10	10
	10	Continued

Table 1 Continued			
	Intervention	Control	
Clinical trial knowledge score			
Ν	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	0 (0%)	3 (7%)	
questionnaire			
Second questionnaire not	5 (11%)	10 (23%)	
completed			
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.

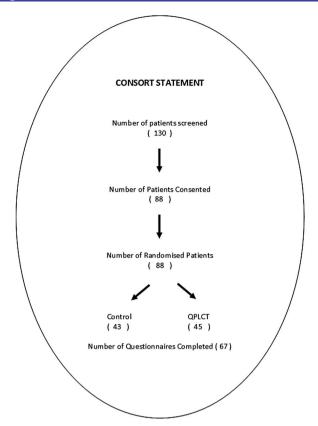


Figure 2 Participant flow diagram.

DISCUSSION

Use of the clinical trial OPL 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 (OuIC 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 τ 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

$\begin{tabular}{ c c c c c c } \hline QuIC part A summary & & & & & & & & & & & & & & & & & & &$	Measure	Intervention	Control	Difference (95% CI)	p Value*
Mean 75.5 79.9 4.5 (95% Cl - 0.5 to 9.5) 0.080 SD 9.9 10.4	QuIC part A summ	ary			
SD 9.9 10.4 Minimum 53.8 51.9 Maximum 94.2 100 QuIC part B summary 9 28 Mean 88.4 88.1 -0.3 (95% Cl -6.1 to 5.5) 0.920 SD 12.1 11.4 100 100 100 Spielberger State Anxiety Inventory (follow-up) 100 5 5 5 N 38 26 6 6 6 Mean 34.815 37.153 2.3 (95% Cl -3.7 to 8.3) 0.438 SD 10.8 13.1 0.438 0.438	N	39	28		
Minimum 53.8 51.9 Maximum 94.2 100 QuIC part B summary 100 QuIC part B summary 28 Mean 88.4 88.1 -0.3 (95% CI -6.1 to 5.5) 0.920 SD 12.1 11.4	Mean	75.5	79.9	4.5 (95% CI -0.5 to 9.5)	0.080
Maximum 94.2 100 QuIC part B summary 9 28 N 39 28 Mean 88.4 88.1 -0.3 (95% CI -6.1 to 5.5) 0.920 SD 12.1 11.4 11.4 100 100 Spielberger State Anxiety Inventory (follow-up) 100 26 2.3 (95% CI -3.7 to 8.3) 0.438 SD 10.8 13.1 20 20 12.1 14.1	SD	9.9	10.4	· · · · · ·	
QuIC part B summary 39 28 N 39 28 Mean 88.4 88.1 -0.3 (95% CI -6.1 to 5.5) 0.920 SD 12.1 11.4 11.4 100 100 100 Spielberger State Anxiety Inventory (follow-up) 100 26 4.3 4.815 37.153 2.3 (95% CI -3.7 to 8.3) 0.438 SD 10.8 13.1 4.31 4.31 4.31 4.31	Minimum	53.8	51.9		
N 39 28 Mean 88.4 88.1 -0.3 (95% Cl -6.1 to 5.5) 0.920 SD 12.1 11.4 11.4 100 100 100 Spielberger State Anxiety Inventory (follow-up) 100 26 4.3 4.815 37.153 2.3 (95% Cl -3.7 to 8.3) 0.438 SD 10.8 13.1 20 20 10.438 10.438	Maximum	94.2	100		
Mean 88.4 88.1 -0.3 (95% Cl -6.1 to 5.5) 0.920 SD 12.1 11.4 11.4 11.4 100 100 100 100 100 100 100 Spielberger State Anxiety Inventory (follow-up) 7	QuIC part B summ	ary			
SD 12.1 11.4 Minimum 51.8 64.3 Maximum 100 100 Spielberger State Anxiety Inventory (follow-up) 100 N 38 26 Mean 34.815 37.153 2.3 (95% Cl – 3.7 to 8.3) 0.438 SD 10.8 13.1 11.4 Minimum 20 20 20 11.4	N	39	28		
Minimum 51.8 64.3 Maximum 100 100 Spielberger State Anxiety Inventory (follow-up) 100 N 38 26 Mean 34.815 37.153 2.3 (95% CI – 3.7 to 8.3) 0.438 SD 10.8 13.1 10.438 10.438	Mean	88.4	88.1	-0.3 (95% CI -6.1 to 5.5)	0.920
Maximum 100 100 Spielberger State Anxiety Inventory (follow-up) - - N 38 26 Mean 34.815 37.153 2.3 (95% Cl – 3.7 to 8.3) 0.438 SD 10.8 13.1 - - - - Minimum 20 20 - - - - -	SD	12.1	11.4		
Spielberger State Anxiety Inventory (follow-up) 26 N 38 26 Mean 34.815 37.153 2.3 (95% Cl – 3.7 to 8.3) 0.438 SD 10.8 13.1 0.438 0.438 Minimum 20 20 20 20	Minimum	51.8	64.3		
N 38 26 Mean 34.815 37.153 2.3 (95% Cl – 3.7 to 8.3) 0.438 SD 10.8 13.1 20 20 20	Maximum	100	100		
Mean 34.815 37.153 2.3 (95% Cl -3.7 to 8.3) 0.438 SD 10.8 13.1 Minimum 20 20	Spielberger State A	Anxiety Inventory (follow-up)		
SD 10.8 13.1 Minimum 20 20	Ν	38	26		
Minimum 20 20	Mean	34.815	37.153	2.3 (95% CI -3.7 to 8.3)	0.438
	SD	10.8	13.1		
Maximum 63 66	Minimum	20	20		
	Maximum	63	66		

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Table 3 Patient sati	sfaction with de	cision score	S
Measure	Intervention	Control	p Value*
Adequately informed			
Disagree strongly	0 (0%)	1 (4%)	
l 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%)	
l agree	13 (33%)	10 (36%)	
Agree strongly	22 (56%)	14 (50%)	
Total	39	28	0.6575
Consistent with value			
Disagree strongly	0 (0%)	1 (4%)	
Neutral	5 (13%)	3 (11%)	
l 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%)	0.4000
Total	37	28	0.4063
I am satisfied this wa	-		
Disagree strongly	0 (0%)	1 (4%)	
Neutral	2 (5%)	1 (4%)	
l agree	13 (33%)	14 (50%)	
Agree strongly	24 (62%)	12 (43%)	0 2002
Total	39 Addition	28	0.3002
I am satisfied with my		1 (19/)	
Disagree strongly Neutral	0 (0%) 4 (11%)	1 (4%) 3 (11%)	
	4 (11%) 14 (37%)	3 (11%) 11 (39%)	
l agree Agree strongly	20 (53%)	13 (46%)	
Total	38	28	0.6806
	00	20	0.0000
*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 p	rovided enoug	gh 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 cl	early commu	nicated the clir	nical trial	
and treatment options	5			
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 in		tient in the		
decision-making proc	ess			
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	I with the dec	ision-making p	rocess 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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