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ORIGINAL RESEARCH

Achievement of patients' preferences for participation in oncological symptom management and its association with perceived quality of care

This article was published in the following Dove Press journal: Patient Preference and Adherence

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Purpose: The subjectivity of symptom experience and the recognized role of patients in symptom management highlight the need to understand cancer patients' participation in symptom management and to identify the associations between patient participation and quality of care. However, research on patient participation has focused mostly on general healthcare activities, rather than symptom management, especially in cancer-care settings. This study aimed to compare the congruence between cancer patients' preference for and actual perceived experience of participation in symptom management and identify the relationships between preferred and actual patient participation and perceived quality of care.

Methods: This was a cross-sectional study. Patient preference and actual experience of participation in symptom management were evaluated with the modified Control Preference Scale among patients recruited from a specialized cancer hospital in China. Patients' perception of quality of care was assessed with the short-form Quality from the Patient's Perspective questionnaire.

Results: A total of 162 patients were recruited. Their mean age was 47.5 \pm 12.2 years, and 51.9% were females. Patients' perceived actual level of participation in symptom management substantially agreed with their preference (weighted κ -coefficient 0.61, 95% CI 0.45–0.77). There was no significant difference between patients' perception of care quality and level of preference for participation (*F*=0.35, *P*=0.722) or actual experience of participation (*F*=0.76, *P*=0.519). Higher perceptions of quality of care were found among patients whose preferred roles were achieved (*P*=0.007) or surpassed (*P*=0.045).

Conclusion: This study identified substantial agreement between patients' preferred and actual participation, given the generally passive preference. The findings indicated that supporting patients to achieve their preferred level of participation may be more important than focusing activities on encouraging increased desire to participate for the purpose of care-quality improvement. **Keywords:** decision-making, quality of care, patient participation, symptom management, survey

Introduction

Patient participation has particular salience in the processes of care related to symptom management,¹ because symptoms, as subjective evidence of disease, can only be perceived by patients themselves.² In developed countries like the US, Australia, and the UK, there is growing recognition of the need to incorporate patients as participants in acute care, and this is reflected in the volume of research and health-care policy in the area.^{3,4} In China, although patients' rights and responsibilities in care are recognized,⁵ the enactment of patient participation in clinical treatment and care has not been investigated or evaluated.

Patient Preference and Adherence 2019:13 83-90

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Patients' actual experience of participation in health care has been identified as an indicator of patient satisfaction and the quality of care delivered.^{6,7} Investigation of patients' preference for and achievement of participation has mostly focused on medical decision-making,^{8,9} and the findings are varied. For example, the proportion of patients whose experience matched their preferred level of participation ranged from 20% to 69%. Patients who achieved a more passive role than what they preferred ranged from 28% to 54% and a more active role ranged from 3% to 39%.^{10,11}

Most Chinese studies that have investigated patients' actual participation have found that scores of patients' reported behaviors in relation to participation were lower than scores of their attitudes toward participation, which indicated that while patients were accepting and supportive of the notion of participation, they did not engage in behaviors required for them to participate.^{12–14} Whether or not patients' attitudes (support of the notion of participation) and preferences (desire to participate and display of behaviors characteristic of participation) are consistent is not yet clear, so comparisons between attitudes, behavior, and preference, and actual participation should be interpreted with caution. The investigation of congruence between preferred level and actual achieved level of participation in different clinical contexts in China is necessary.

Patient participation is vital to enhancing quality of care. Research findings have shown that participation in health consultations enhances patients' perceptions of quality of care,^{6,15} contributes to patient satisfaction,⁷ improves patient– clinician relationships,¹⁶ and reduces decisional regret.¹⁷ Patients' collaboration with health professionals promotes the achievement of positive health outcomes. There is an increasing body of literature indicating that high levels of participation are associated with more recall of treatment information discussed during interactions with clinicians,¹⁸ better understanding of information provided,¹⁹ and improved adherence to treatment.²⁰ However, the evidence for better health outcomes remains limited and controversial.^{19,21}

In cancer-care settings, effective cancer and/or treatmentrelated symptom management is a priority.²² The promotion of patient participation in symptom management is based on the assumption that the subjectivity of symptom experience requires patients to contribute their experience and preferences to treatment decision-making. In the Chinese acute-cancer-care setting, there is limited understanding of the congruence between patients' preference for and actual experience of participation in symptom management. There is also limited understanding of whether patients perceive higher quality of care when they participate in their symptom treatment or care. This study aimed to compare the congruence between cancer patients' preference for and actual perceived experience of participation in symptom management and identify the relationships between preferred and actual patient participation and perceived quality of care.

Methods Study design

This was a cross-sectional study. Patients' reported preference for and actual experience of participation in symptom management and perceived quality of care were investigated.

Participants

Patients were eligible if they were >18 years of age and admitted with a cancer diagnosis to one of the two medical oncology units in a specialized cancer hospital in Shanghai, China, a university-affiliated teaching hospital. Patients were recruited into the study if they had been in hospital for 7 days or longer. One of the reasons for recruiting patients at this time point was to ensure that they had sufficient time to become familiar with hospital processes, such as routines of care, and to the ward environment in general. This period also provided an opportunity for patients and clinicians to establish a therapeutic relationship after their treatment started. The proportion of patients whose actual participation met their preference was reported as 40% in Cohen's study.⁴ Sample size was calculated for prevalence rate (ie, percentage of participation that met their preference) in descriptive survey designs.²³ We aimed to calculate the sample size with 95% precision (CI level for prevalence), and considering a margin of error of 8%, a sample size of 142 was required accordingly.

Patients were recruited between November 2013 and March 2014. A total of 300 patients met the eligibility criteria, and 162 (54%) participated in the study initially. Reasons for patient nonrecruitment were discharge before being approached (n=56), feeling unwell (n=42), refusal (n=31), and lacking confidence in their literacy (n=9). Data on nonparticipants' sex, age, and type of cancer were compared with participants. The mean age of nonparticipants was 54 ± 12 years, significantly older than participants (t=4.64, P<0.001). Approximately two-thirds of patients who refused to participate were male (χ^2 =11.26, P=0.01). The distribution of patients' cancer diagnoses was also different between these two groups (χ^2 =16.24, P=0.013).

Although 162 patients participated in the control-preference survey, 23 patients did not complete the quality-of-care

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survey, because they felt tired or did not want to continue. Comparisons between the respondents and the nonrespondents showed there were no significant differences in sex (χ^2 =1.74, *P*=0.187), time since diagnosis (*t*=0.81, *P*=0.421), or number of symptoms (*t*=-0.02, *P*=0.983). Nonrespondents were older than respondents (*t*=-2.77, *P*=0.006).

Procedures

Primary nurses were all provided information about the study. Each day, the nurses reviewed the eligibility of the patients for whom they were providing care and asked patients who met the inclusion criteria for their permission to be approached by the researcher. The primary nurses provided the final list of eligible patients to the researcher. At the first meeting with eligible patients, the researcher introduced herself and explained the study. Written consent was obtained from patients. All patients who consented were recorded in the research ledger in terms of their name and time/date of consent. Every patient was assigned an ID number that was also recorded in the research ledger.

Patients' preferences for participation and actual perception of participation were elicited by giving them five participatory-role statement cards, and patients were asked to rank the cards in order of their most preferred role to least preferred role. Patients then selected the card that best represented their actual participation in symptom management. On completion of the preference survey, patients were provided with a hard copy of the survey questionnaire related to their symptom assessment and perception of quality of care, had the instructions read to them by the researcher, and were then asked to self-administer the questionnaire. The researcher was available if patients had questions or did not understand the instructions. Some patients, due to low literacy or sight problems, required assistance to complete the questionnaire. Questionnaires were reviewed for completeness on collection to minimize missing data.

Survey measurement tools

Patients' symptoms were assessed by the Memorial Symptom Assessment Scale, which is a multidimensional instrument used to assess 32 common cancer-related symptoms experienced during the past week.²⁴ This scale has been translated into Chinese and its validity tested with Hong Kong cancer patients by Cheng et al.²⁵

Patients' preference for and perception of actual participation in symptom management-related decision-making was assessed using the Control Preference Scale (CPS).^{10,26} This comprises five cards. Each card has a separate statement that

portrays a role that patients could have in treatment decisionmaking, ranging from the patient making the decision alone (active role), the patient making his/her own decision after considering the doctor's opinion (active-shared role), the patient sharing the responsibility with doctors (collaborative role), doctors making the decision after considering a patient's opinion (passive-shared role), and doctors making the decision alone (passive role). The CPS has reported reliability in cancer populations.^{27,28} It has been shown to be easily understood by patients and has been translated into different languages.^{10,29} The CPS was modified for this study so that each role statement asked patients about their preference for participation in "symptom management" with "doctors and nurses". For example, the passive-role statement was modified to "I prefer to leave all decisions regarding treatment(s) of my symptoms to my doctors and nurses".

Patients' perceptions of quality of care were assessed with the short-form (modified) Quality from the Patients Perspective (QPP) questionnaire.³⁰ This has four dimensions: medical-technical competence of the caregivers, physicaltechnical conditions of the care organization, degree of identity orientation in attitudes and actions of the caregivers, and sociocultural atmosphere of the care organization. The scale of physical-technical conditions of the care organization was deleted, because it was irrelevant to the research questions. There are 24 items in the modified version. Some items in the original tool were modified by highlighting symptommanagement activities. The evaluation of each dimension includes two steps: one is to assess what has been experienced in terms of quality of care using a 4-point Likert scale ranging from 1 (do not agree at all) to 4 (completely agree), and the other step is to examine the subjective importance of various aspects of care on a 4-point Likert scale from 1 (of little or no importance) to 4 (of the very highest importance). The QPP has been used mostly in Sweden among patients admitted in surgical and medical wards³¹ and elder patients in different care environments.³² The Chinese version of the OPP was produced after forward translation, back translation and revision by the research team.

In order to derive a score representing the overall perception of quality of care, Personal Quality of Care Index (PQCI) score was calculated:

Subjective importance score \times (2 \times perceived reality score – subjective importance score)

This formula is based on the principles that the highest personal quality-of-care score is obtained if a person gives the

highest rating (ie, 4) on both perceived reality and subjective importance, and the lowest personal quality-of-care score is obtained if a person gives the lowest rating (1) on perceived reality and the highest rating (4) on subjective importance. The range of the PQCI on a given item is from -8 (lowest quality) to 16 (highest quality).³³

Statistical methods

Data were coded and entered into SPSS version 21. Frequencies and descriptive statistics were used to summarize the demographic characteristics and control-preference data. Agreement between patients' preferred and actual participation in decision-making was identified through weighted κ -statistics.³⁴ Quadratic weighting was used to calculate the coefficient of weighted κ -values with Stata version 12. Cutoffs for strength of agreement for the weighted K (kw) coefficient are: poor agreement (≤ 0), slight agreement (0.01-0.20), fair agreement (0.21-0.40), moderate agreement (0.41-0.60), substantial agreement (0.61-0.80), and almostperfect agreement (0.81-1).35 One-way ANOVA was used to examine the link between participation level and qualityof-care perception (α =0.05). When significant differences were identified across the groups, pairwise comparisons were conducted with Bonferroni-adjusted significance (α =0.017).

Ethics

Approval to conduct the research project was obtained from the Human Research Ethics Committee of Deakin University and the Clinical Pharmacology Base and Clinical Research Ethics Committee of Fudan University Shanghai Cancer Center. The authors confirm that the study was carried out in accordance with the principles of the Declaration of Helsinki.

Results

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Participants

The mean age of the 162 patients was 47.5 ± 12.2 (21–75) years. There were slightly more females (n=84, 51.9%) than males (n=78, 48.1%). Among those responding to demographic questions, 49 (32.2%) patients had completed at least an undergraduate education. The majority of patients were married (n=137, 90.1%). Almost half (n=70, 46%) the patients were still employed, 7.2% (n=11) were still working during their hospitalization, and the remainder were on sick leave.

The most common types of cancer were head and neck cancer (n=60, 37.0%), breast cancer (n=39, 24.1%), bowel cancer (n=27, 16.7%), and lymphoma (n=21, 13.0%).

The majority of patients were admitted to the ward for radiotherapy alone (n=90, 59.2%) or in combination with chemotherapy (n=49, 32.2%). The majority of patients receiving treatment for their cancer had been diagnosed <1 year prior. The median time since diagnosis was 0.32 years (P_{25} =0.19, P_{75} =0.67), the minimum <1 month, and the maximum 11.59 years. All except two patients reported that they had at least one symptom during the investigation period and the average number of symptoms was 10.7±6.7 (0–27). The five most prevalent symptoms reported by patients were dry mouth (n=102, 68.0%), pain (n=88, 58.7%), difficulty sleeping (n=76, 50.7%), lack of energy (n=75, 50.0%), and changes in taste (n=73, 48.7%).

Preference for participation and perceptions of actual role

The distribution of patients' preferences for participation in symptom management-related decision-making and their perceptions of the role they were able to achieve when interacting with doctors and nurses is presented in Figure 1. Three of the 162 patients did not report their achieved roles because they felt that there had not been any occasion that had required decision-making during their admission.

The extent to which patients' preferences for participation were congruent with their actual experience during interactions with doctors and nurses is presented in Table 1. There were 64.8% (n=103) of patients who reported their actual experience of participation was consistent with their preference, whereas 24.5% (n=39) of patients experienced a more passive role than they preferred and 10.7% (n=17) experienced a more active role than they preferred. An agreement of substantial strength was found between patients' preferred roles and actual roles in decision-making (kw=0.61, SE 0.08, 95% CI 0.45–0.77).

Perception of quality of care

The results of the PQCI mean scores compared within four categories of control preference (passive to active–shared) for participation are shown in Table 2. The active category was deleted in the analysis, because there was only one patient in it. There were no differences in mean scores of PQCI between control-preference categories (F_3 =0.35, P=0.722). Similarly, no significant differences were found when comparing mean PQCI scores within categories of actual participation achieved (F_3 =0.76, P=0.519).

Table 3 shows the mean PQCI scores for patients grouped according to their participation outcomes, specifically whether patients were able to achieve their preference for



Figure I Patients' preferred and experienced roles of participation. Abbreviation: CPS, Control Preference Scale.

participation or their experience of participating was either less active or more active than their preference. The null hypothesis of similar means for PQCI scores was rejected (F=4.16, P=0.018). Further Bonferroni pairwise comparisons were conducted, revealing that mean PQCI scores were significantly higher for patients whose actual participation was commensurate with their preferred role (P=0.007) or for patients who experienced more active participation than they preferred (P=0.045) when compared to patients whose participatory role was less active than their preference.

Discussion

In this study, only six patients preferred to make decisions by themselves with or without discussion with their doctors and nurses. Similar findings can be found in another Chinese study in which eight of 113 colorectal cancer patients preferred active participation in surgical treatment decisions.³⁶ In an Australian study, more cancer patients (30 of 171) with active preference were reported.⁴ The high proportion of patients with passive preference in China might be explained by the paternalistic style of interactions in Chinese healthcare settings.³⁷ In this care environment, patients may not fully perceive the participatory roles in cancer care, especially in treatment decision-making.³⁸

The findings of this study identified a substantial agreement between patients' preferred roles and actual participatory roles, with nearly two-thirds of patients achieving their preference for participation in symptom management. This result is consistent with previous studies in which patients' participatory roles were assessed using the CPS tool in acute-care settings. Zhang et al¹⁰ investigated 178 Chinese patients with chronic hepatitis, and found 69% of patients' actual experience of participation matched their preference. Moderate agreement was also indicated in a study of 153 elderly inpatients in Sweden, with 44% total agreement between preference and actual participation related to medical decision-making.¹¹ Another Swedish study found a similar relationship among 39 medical patients in decisions related to patient care.³⁹

Given the high percentage of reported passive roles, both in patients' preferred and actual experience, the moderate agreement might not mean that patients collaborated well

Table I Relationships between patients' preferred and actual level of participation

Preferred	Actual					Total
	Passive	Passive-shared	Collaborative	Active-shared	Active	
Passive	51	12	0	0	0	63
Passive-shared	22	45	3	2	0	72
Collaborative	4	10	4	0	0	18
Active-shared	0	1	1	3	0	5
Active	0	0	0	1	0	1
Total	77	68	8	6	0	159

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	Passive (n=52)	Passive-shared (n=62)	Collaborative (n=19)	Active-shared (n=5)	F	P-value
Mean (SD)	10.97 (2.87)	10.60 (3.36)	9.40 (2.57)	10.02 (2.79)	0.35	0.722
Participatio	n (n=136)	·	·	·	÷	
	Passive (n=62)	Passive-shared (n=62)	Collaborative (n=6)	Active-shared (n=6)	F	P-value
Mean (SD)	10.32 (3.28)	10.72 (2.88)	10.09 (3.73)	12.18 (3.09)	0.76	0.519

Table 2 Comparisons of PQCI mean scores with	n preference for and actual participation groups
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Abbreviation: PQCI, Personal Quality of Care Index.

with clinicians in the care setting. The congruence may in fact reflect that the majority of patients in this and other studies had a more passive preference for participation. Patients with a preference for passive participation may be easier for clinicians to interact with than patients who want a more active role, particularly when models of care and interactions are based on a paternalistic framework. Supporting evidence can be found in Pardon et al's findings that high levels of congruence between preferred and actual participation were found only in patients who preferred an absolute passive or absolute active role, while those who preferred more collaborative or shared decision-making roles with their clinicians often reported lower achievement of their preference. The authors concluded that in the latter, patients were more critical and achievement of preferences was more open to nuances.⁴⁰

Among patients who did not report congruence between preferred and actual experience of participation, 24.5% experienced a more passive role than their expectation, which was higher than the proportion of patients whose actual participation exceeded their preference. Previous studies also found that patients wanted more participation in decision-making than they actually achieved.^{10,11,41} This gap between preferred and actual participation reveals a significant issue in patients' experience of care in acute-care environments.

The positive effects of patient participation in improving care quality have been identified in the literature.^{6,15} The significance of gaps in preferred and actual roles in decisionmaking is illustrated by the finding that patients perceive

 Table 3 Comparisons of mean PQCI scores among patients with

 different participation outcomes (n=139)

Level of participation achieved	n	Mean	SD	F	P-value
Less active than preferred	36	9.34	3.10	4.16	0.018ª
Commensurate with preference	89	10.97	2.93		
More active than preferred	14	11.25	3.28		

Notes: ^aP<0.05. Bonferroni pairwise comparisons (α =0.017): less active than preferred vs commensurate with preference (*P*=0.007); less active than preferred vs more active than preferred (*P*=0.045); commensurate with preference vs more active than preferred (*P*=0.744).

Abbreviation: PQCI, Personal Quality of Care Index.

they had received higher quality of care when their actual participation roles agreed with their preferred participation roles. There have been few studies to investigate the impact of achieving participation preferences on the perception of quality of care, as most studies have explored differences between level of actual participation and quality of care,^{6,15} which in this Chinese study was found not to be significantly correlated. The finding that most patients in this study experienced passive participation in symptom-related decision-making may have contributed to this noncorrelation.

The findings indicate that improving patients' actual experience of participation to agree with or be more active than their preferred level of participation may be more important in achieving good care quality than focusing on activities encouraging patients to adopt a more active preference. Health professionals need to recognize each patient's unique preferences and understandings and respect the individual's description of his or her situation, in order to assess patients' preference accurately and provide opportunities for true patient participation.⁴² This is consistent with the notion of patient-centered care, where the patient is a respected and autonomous individual and their individual needs are embodied in care planning.⁴³

Limitations

Only 54% of eligible patients were recruited into the study. Patients who were older, male, and unwell were more likely to decline to participate. In addition, this study focused on symptom management in patients with cancer, and a third were diagnosed with head and neck cancer. This may influence the external validity of the findings to other clinical groups and other aspects of care decision-making.

Conclusion

This study identified substantial agreement between patients' preferred and actual participation when overall preference for participation in decision-making was passive in the Chinese acute-care setting. Patients perceived higher quality of care when their actual participation agreed with or was more active

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than their preferred participation. These findings indicate that it is important to support patients to achieve or surpass their preferred level of participation based on their individual needs for the purpose of care-quality improvement.

Acknowledgments

We acknowledge all participating patients who reported their perceptions and nurses who helped patient recruitment in the study.

Author contributions

CL, EC, PML, and MB were involved in managing the project, designing the study, and analysis and interpretation of data. CL was also responsible for collecting the data and drafting the manuscript. MM was involved in designing the study, preparing a statistical analysis plan, and interpreting the results obtained. All authors contributed to data analysis, drafting and revising the article, gave final approval of the version to be published, and agree to be accountable for all aspects of the work.

Disclosure

The authors report no conflicts of interest in this work.

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