A qualitative approach in determining the patient-centered information and supportive care needs of cancer patients in Singapore

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ABSTRACT

Objectives To qualitatively interpret the information and supportive care needs perceived by cancer patients undergoing treatment in order to get a deeper appreciation of patients’ needs and concerns. The intended outcome is to provide baseline knowledge for improving patient-centred strategies to better meet the information and supportive needs of patients.

Design A qualitative research approach, based on conventional content analysis, was used throughout the research process. The three open-ended questions obtained from a previous quantitative study guided the researchers to explore the information and supportive care needs of patients. Data from patients’ responses were analysed and coded in themes.

Participants and setting Patients attending the Ambulatory Treatment Unit of the National Cancer Centre Singapore were invited to participate in the study. We determined from these subjects the type of information that cancer patients need, and to measure the extent to which these information needs are met by measuring patients’ level of satisfaction. Included in the quantitative study were three open-ended questions designed to gain a deeper understanding of their needs and concerns. All subjects were aged 21 years and above and able to understand and communicate in English/Mandarin. They were also aware of their diagnosis, had a diagnosis of cancer and were at the end-of-life situation.

Results A variety of information and supportive care needs were identified, and three specific areas of concerns were identified: (1) psychosocial and supportive care needs, (2) information needs and (3) information delivery by professionals.

Conclusion The information and supportive care needs expressed were consistent with issues of cancer patients undergoing treatment. The strategies to improve patients’ coping abilities through patient-centred care are discussed. Further studies assessing the barriers of information provision by healthcare professionals should provide more detailed knowledge about unmet information needs.

INTRODUCTION

The diagnosis of cancer stresses any individual; this is related to the symptoms of the disease and to the psychology of its affliction.1 2 To many people, cancer implies a death sentence; to others it implies suffering and pain.3 4 Even today, cancer remains a fatal disease for a significant number of patients, despite considerable advances in treatment. Compounding this stress is the need for treatment, which may intrude into every area of the patient’s life. As a result, cancer patients face many adjustments, not only to the disease itself but also to treatment regimes, both of which may have significant and distressing physical and emotional effects.5 7 The patients’ emotional reactions to their illness, along with their coping responses, can influence the course and outcome of the disease.8

Providing cancer information and support is an important aspect of the healthcare professional’s role. When done well, such provision and support have been found to help patients in their coping process and improve their quality of life. Patient-centred care is defined as ‘providing care that is respectful and responsive to individual patients preferences, needs and values and ensuring that patient values guide all clinical
decisions.9 In patient-centred care, care decisions are based on knowledge of patient values, preferences and expressed needs as well as treating patients and their families with respect and honour, including them as partners in care, and regarding them as safety allies.10 The concept of patient centeredness is advocated as an important attribute of high-quality care. The Institute of Medicine further elaborated on some of the attributes of patient-centred care in the oncology setting. These attributes are: (1) patient education and empowerment; (2) patient-centred communication, which involves the patient, family and friends; explains treatment options; and includes patients in treatment decisions to reflect patients' values, preferences and needs; (3) coordination and integration of care and (4) provision of emotional support as needed, such as relieving fear and anxiety and addressing mental health issues. In essence, patient-centred cancer care focuses on delivering care according to the preferences and needs as defined by patients themselves and their families.

Cancer patients need information to help them cope with the disease, make decisions about treatment, manage side effects and learn self-care skills. Some patients may need emotional support to help cope with their anxiety and distress. Studies have indicated that the patients undergoing cancer treatment have considerable information and supportive care needs and that these needs can vary considerably across individuals.11–15 In delivering patient-centred care, it is imperative to determine the particular information and supportive care needs of patients in order to address these efficiently and effectively.

In this study, we examine open-ended responses from a quantitative study we published previously16 in order to reinforce and to get a deeper appreciation of patients’ needs and concerns. We used the conventional content analysis method throughout the research process to unravel the themes from the large set of open-ended responses. The intended outcome of this study is to provide baseline knowledge for improving patient-centred strategies to better meet the information and supportive care needs of patients during cancer treatment.

Methods

Patients attending the Ambulatory Treatment Unit of the National Cancer Centre Singapore were invited to participate in the study. For inclusion in the study, participants had to be diagnosed with cancer and receiving treatment; were able to understand and communicate in English/Mandarin; were neither cognitively impaired nor terminally ill; and had to be at least 21 years old.

Procedures

Participation in the study was voluntary and respondents were free to withdraw consent or discontinue participation from the study at any time without any effect on the treatment or care. Written consent was obtained from all the respondents after detailed explanation of the study’s purpose and procedure was provided, and before the administration of the questionnaire survey. Each questionnaire was coded with a unique identification number to ensure confidentiality, with respondents being not personally identifiable in the study.

Data collection

Data were collected over a 5-month period from 2015 to 2016 by a research assistant who was proficient in both English and Chinese language and was thoroughly briefed by the principal investigator regarding the data collection process including sampling and confidentiality. Data were recorded by the research assistant and verification of all data recorded was conducted by both the principal investigator and one other researcher.

In the current study, we examined the following open-ended questions: (1) What information provided to you is either insufficient to meet your needs or has not been given? (2) What are the aspects of cancer information delivery and support services we can improve on to help you cope with your cancer journey? and (3) Has there been any other information we can (but did not) provide that can help you cope better? These open-ended questions are intended to give respondents an opportunity to provide more detailed or personalised content to supplement the fixed responses to most of the questionnaire in order to get a deeper significance of patient’s needs and concerns. A qualitative research approach, based on conventional content analysis, was used throughout the research process.

Data analysis

A thematic qualitative analysis of the free-text items was undertaken manually (responses were translated where required) for those respondents who responded to the above three open-ended questions. Data were initially categorised according to responses to questions (figure 1). Data from each question were then examined systematically to identify particular categories of meanings following the qualitative conventional content analysis.17–19 Meaningful units were initially identified by reading. Then, condensed units were described, by identifying the underlying meaning of the units. The next phase was identifying the codes. Finally, a collection of different codes—and sub-codes—were identified as categories in a thematic area. To increase the validity of the findings, an independent researcher reviewed the categories to ensure agreement in the coding system. The findings were also verified by a nurse expert in qualitative research.

In the result section, quotes are used to illustrate and reflect the responses given by the respondents. Quotes were selected on the basis of the criteria that a code should illustrate the category and meaning sufficiently and it represents the opinions of different respondents. The participants were not personally identifiable. Numbers and letters are used to represent male or female
Figure 1 Flowchart of patient recruitment.

respondents. The Standard for Reporting Qualitative Research checklist is presented in online supplementary appendix 1 (O’Brien et al, 2014).

Patient and public involvement
Fifteen oncology nurse experts reviewed the questionnaire and a pilot study was conducted on eleven eligible patients. No item was deleted from the questionnaire during the pilot study and no further refinements were necessary. The questionnaire was subsequently used in the survey to evaluate self-reported information needs and level of satisfaction with the information received while undergoing cancer treatment.

RESULTS
Table 1 summarises the demographic characteristics of the respondents. More women than men participated in this study. Three hundred and sixty-five (88%) of the respondents ranged from 41 to 60 years of age. They were mainly married, fairly educated and newly diagnosed with cancer. The majority of participants were Chinese. Breast, colorectal and lung cancers were the most common among the participants.

Three themes were identified: (1) psychosocial and supportive care needs, (2) information needs, and (3) quality of information delivery. A summary of respondents’ responses organised according to themes and subthemes is given in table 2.

Theme 1: psychosocial and supportive care needs
The need for professional counselling
Respondents felt the greatest need to receive counselling, with some feeling that this should be provided not only to patients but also to their families, including caregivers. Respondents also felt that counselling should be provided at the time of diagnosis and should include knowledge of coping and communication skills. The quotes below provide examples of this need perception:

(M001) To have face-to-face counselling session to both patients and their families during the time when they are diagnosed. Guide them on how to face the situation, what to do, and how to communicate.

(F001) It would be good if all new patients can go through a counselling session to satisfy their needs for emotional support.

(M002) After the first treatment, refer the patient to talk to a social worker or counsellor to tell him or her more about their cancer and other information.

Support groups
The benefits of communicating with others in similar circumstances and/or support given by support groups for all people affected by cancer were noted by many responders. The comments below emphasise the need for support groups and the importance of speaking to others in similar circumstances as information from medical personnel may be insufficient to address their needs. They
Table 1  Characteristics of survey respondents

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>N (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sex</strong></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>152 (37)</td>
</tr>
<tr>
<td>Female</td>
<td>259 (63)</td>
</tr>
<tr>
<td><strong>Age (years)</strong></td>
<td></td>
</tr>
<tr>
<td>21–40</td>
<td>45 (10.9)</td>
</tr>
<tr>
<td>41–60</td>
<td>223 (54.3)</td>
</tr>
<tr>
<td>60 and above</td>
<td>142 (34.5)</td>
</tr>
<tr>
<td>Unknown</td>
<td>1</td>
</tr>
<tr>
<td><strong>Ethnicity</strong></td>
<td></td>
</tr>
<tr>
<td>Chinese</td>
<td>317 (77.1)</td>
</tr>
<tr>
<td>Malay</td>
<td>46 (11.2)</td>
</tr>
<tr>
<td>Indian</td>
<td>20 (4.9)</td>
</tr>
<tr>
<td>Others</td>
<td>27 (6.6)</td>
</tr>
<tr>
<td>Unknown</td>
<td>1</td>
</tr>
<tr>
<td><strong>Marital status</strong></td>
<td></td>
</tr>
<tr>
<td>Married</td>
<td>320 (77.9)</td>
</tr>
<tr>
<td>Non married</td>
<td>85 (20.7)</td>
</tr>
<tr>
<td>Unknown</td>
<td>6</td>
</tr>
<tr>
<td><strong>Highest level of education</strong></td>
<td></td>
</tr>
<tr>
<td>Primary or less</td>
<td>81 (19.7)</td>
</tr>
<tr>
<td>Secondary/higher secondary</td>
<td>213 (51.8)</td>
</tr>
<tr>
<td>Tertiary</td>
<td>109 (26.5)</td>
</tr>
<tr>
<td>Unknown</td>
<td>8 (2)</td>
</tr>
<tr>
<td><strong>Cancer type</strong></td>
<td></td>
</tr>
<tr>
<td>Breast</td>
<td>115 (28.0)</td>
</tr>
<tr>
<td>Colon/rectal</td>
<td>60 (14.6)</td>
</tr>
<tr>
<td>Lung</td>
<td>52 (12.6)</td>
</tr>
<tr>
<td>Lymphoma</td>
<td>26 (6.3)</td>
</tr>
<tr>
<td>Nasopharynx</td>
<td>21 (5.1)</td>
</tr>
<tr>
<td>Ovarian</td>
<td>20 (4.9)</td>
</tr>
<tr>
<td>Liver</td>
<td>16 (3.9)</td>
</tr>
<tr>
<td>Stomach</td>
<td>14 (3.4)</td>
</tr>
<tr>
<td>Bone</td>
<td>14 (3.4)</td>
</tr>
<tr>
<td>Pancreas</td>
<td>13 (3.2)</td>
</tr>
<tr>
<td>Prostate</td>
<td>10 (2.4)</td>
</tr>
<tr>
<td>Others</td>
<td>38 (9.2)</td>
</tr>
<tr>
<td>Unknown</td>
<td>39</td>
</tr>
</tbody>
</table>

also wanted information about the type of support groups available and the means of contacting such groups. The quotes below describe the need perception.

(F002) Doctor provides the information vaguely. As information varied across individuals, it would be better for patients to interact with other patients for better coping. There is a limitation to the information regarding the side effects. Information on support group is needed.

(F003) Support group tips, for example, cancer survivors or patients who have done certain treatments could give advice through their experiences. Met the colorectal support group during my stay at the wards and they have done a very good job. I am grateful for the sharing from the support group especially those who have been through the same route. I would love to join them as well, as I believe patients’ experience will be more convincing to other patients.

Respondents also wanted a support group for their respective types of cancer and the quote below highlights the need.

(F004) Setting up a support group for lymphoma cancer patients is of top priority as when I was diagnosed in Jan 2014, tried so hard to get Dr. to get her patients to share their experiences and look for support groups but unfortunately there are none.

Obtaining information on how to join a support group was another expressed need. Respondents also indicated the lack of publicity on the existence of support groups, with many being unaware of the services that were available; some even provided suggestions on improving the provision of information on support services.

(F005) Information on how to join a support group at an early stage of diagnosis so as to enable the patient to get connected to cancer survivors who had similar diagnosis, obtain life experiences and encouragement to accept the diagnosis and be ready to cope with the treatment and life.

(F006) Received support from social worker not at the initial stage. Support services are not well publicized and no counselling for patients. Suggest to have a counter that focuses in providing information on support services.
The need for dietary advice was indicated by many respondents.

(M003) Types of food that can fight cancer.
(M004) Nutrition advice that includes types of food, types of fruit, what not to eat and what to eat. This information would help in the treatment and recovery.

Respondents also requested for access to a nutritionist to address some of their concerns.

(M005) Nutrition information such as food that help and food to avoid. Having a nutritionist for patients to consult as patients are always flooded with food information and is difficult to differentiate which are true.
(M006) More time and patience are needed from the doctors and specialists to explain all information and with smiles if possible.

Complementary therapy

Respondents requested for information on complementary therapies [e.g., supplements and traditional Chinese medicine (TCM)], as the following quotes from patients indicate:

(M003) TCM and related information.
(M004) Complementary nutrition or tonic (e.g., Chinese medicine) or supplements.
(M005) Avoid jargons in scan reports. Explain the reports in simple words and more information on those negative reports.
(M006) More time and patience are needed from the doctors and specialists to explain all information and with smiles if possible.

Aside from the above, the respondents also indicated that healthcare professionals should display more sensitivity on how they deliver their message.

(M007) They do not spend time talking and explaining to patients. Patients have to ask questions continuously before they get their answers. Sometimes they may imply that 'I am the doctor, don’t question me'.
(M008) He did not give me a lot of information and sounded like a recorder, kept on repeating the same information. When I asked how I can be an active participant in my treatment, he answered me that there was nothing I could do.

Financial needs

Information about cost of treatment as well financial assistance was another concern raised by the respondents. The following quotes demonstrate this need:

(F014) Financial costs of treatment should be more forthcoming.
(F015) Financial aspect of whole treatment was not clearly defined and explained. I have to roughly estimate the cost of one whole treatment.
(F016) Inform about financial information such as chemotherapy costs and other possible medication costs so that we can plan for long term financial needs on treatment.

Many respondents also indicated that they needed information on financial assistance and support.

(F017) Informing us about how to access to financial help and support.
(F018) No financial support advice is given.

How information could be better delivered

Respondents wanted the doctors to be more thorough and speak in plain language instead of using technical jargon.

(M005) More time and patience are needed from the doctors and specialists to explain all information and with smiles if possible.
(F020) Provision of information on past records and studies of the available treatment may appease the patient’s apprehension and decision making on accepting them. However, such information was given abruptly only upon enquiring, which can be rather discouraging.

In further addition to that, the respondents also suggested on the type of information and how it could be relayed.

(M007) Information about how to cope and overcome. Having doctors to inform/encourage/give hope to patients such as telling positive life examples.

Respondents wanted to have easy access to professionals, with some respondents indicating the manner they prefer to be helped in order to alleviate their anxiety and aid in faster recovery.

(F003) The doctors, my surgeons for both operations did very good job and I have full confidence in them. Building rapport and good relationship with the surgeons can help a lot. Especially my colorectal surgeon makes sure he visits to review me daily in the ward and even on weekends at least once. This warms me a lot and gave me the needed good vibes to faster recovery. It is very important that patients have a way to communicate with the oncologist or surgeon as in times of doubt, patients can clear their doubts immediately and could avoid time wastage or even save some lives rather than having to wait or waste A&E resources for cases that could have been resolved just by a confirmation over email or WhatsApp or text.

(F021) My doctor gave his email address and answered my urgent questions on side effects very promptly. It helped me feel better immediately when I read his email confirming that nothing is worrisome.

DISCUSSION
In summary, the three themes reflect the information and supportive care needs of cancer patients undergoing treatment. Some of the needs expressed by respondents were shared by more than one respondent and are consistent with issues identified in the literature.

Psychosocial and supportive care needs
Cancer patients indicated the need for professional counsellors and to learn coping skills from support groups.

Emotional distress is a normal response to a diagnosis of cancer and happens throughout the disease trajectory. A great majority of cancer patients experience fear, depression and a constant underlying tension during their treatment. Emotional support is important to patients during their illness and can be obtained from different people and services. Psychosocial interventions have been found to help patients cope better with distressing situations and positively improve the affective state. Individual counselling, especially during the initial phase of diagnosis, has been identified as an important aspect of supportive care by the respondents. Although one-to-one counselling is available to our patients, our findings indicate a need for more awareness (by patients and medical staff) of such services. At the same time, there is also a deeper need to find out why patients were not referred for counselling. A study done justified this need. Studies have shown that there is a marked tendency to underestimate the level of depressive symptoms in cancer patients, and that oncologists’ recommendations for supportive counselling did not correlate with patient distress or the amount of perceived support but rather with disease progression and the amount of denial behaviour displayed.

Respondents had also indicated their need for support groups. Cancer survivors can play a complementary role as messengers of hope and share their success stories of how they overcame their emotional and physical challenges during treatment. Studies have demonstrated the benefits of support groups for cancer patients, including generating feelings of interconnectedness, confidence, hope, support, affirmation, usefulness, less depression and less anxiety. In addition, other benefits include having more knowledge about their illness, better relationships with caregivers, fewer sexual difficulties, more participation in leisure activities and a higher quality of life. Despite these positive aspects of support groups, there are also negative effects and these include wrong information given, pessimistic attitude and deteriorating condition of the group members that adversely affected patients’ emotional state. In addition, Helgeson et al. showed that peer discussion groups were helpful for patients who lacked support from their partners or physicians but harmful for patients who had high levels of support. Therefore, it is important to be cautious and carefully identify patients who can benefit from participation in support groups. An awareness of patients’ support system is thus important and only those who lack social support should be referred to peer-support groups.

Respondents in our study also indicated that they preferred joining support groups comprising of peers inflicted with the same malignancy and that they preferred to join support groups for emotional support and coping skills. This agrees with the results of Devitt et al., who further established that differing views existed in patients and healthcare professionals on who should be facilitating the support group and how support groups should be conducted. As many of the respondents in this study indicated an interest in attending support groups, there is clearly an unmet need for support groups. Due to differing patients’ needs as well as the potential negative impact of support groups, it is important that in addition to identifying patients who will benefit from support groups, it is also paramount that healthcare providers determine the preferred models of support and the barriers to the uptake of support programmes so that care delivery will best match patients’ needs and thus,
encourage participation. This will help to ensure the effective and efficient use of scarce resources.

Information needs

Our study on the information need of cancer patients agrees with those of the previous studies, which indicate available treatment options, chances of recurrence and survival outcomes as essential information to assist decision-making. Fear of recurrence is one of the most common psychological concerns reported by cancer patients is associated with functional impairment and can be a significant psychological burden if unaddressed. In order to help address this aspect of emotional distress, patients should therefore be encouraged to verbalise their fear so as to minimise the threat of psychological distress and should also be taught what to look out for to detect recurrence. They should also be encouraged to focus on strengths and positive qualities to enhance control over their fear. Further studies would help determine the extent of this fear and if it leads to irrational thought or behaviour and whether it negatively affects their quality of life.

Food is of great interest and concern to many respondents. Dietary advice, especially on the foods to eat and avoid, was another recurrent need identified in this study. Respondents also indicated a need for access to a nutritionist. Good nutrition for patients undergoing cancer treatment is important as clinical malnutrition in patients with malignant disease is a frequent problem associated with progressive tumour growth and cancer therapy. Significant nutritional deficits can delay and accentuate complications related to primary therapy. Surgery, chemotherapy and radiation therapy may limit oral intake for prolong periods of time and may leave the patient with insufficient reserves to sustain normal life. Therefore, maintenance of adequate nutritional state is a 'sine qua non' for efficiency of the therapy. As adequate nutritional support is an integral part of a cancer patient’s treatment and malnutrition can complicate the course and outcome of treatment, early intervention of nutritional support is an integral part of a cancer treatment.

Nutritional therapy

The integration and utilisation of Western medicines and TCM or other herbal products may pose risks when the patients are being treated with different medications from different sources for the same illness episode as herbal products may contain contaminants, are toxic, interact with biomedical drugs, or interfere with a coexisting disease, delay of conventional therapy and interference with prescribed treatment, both palliative or curative. Besides this, the use of CAM may dissuade some patients from receiving effective treatments as revealed study has shown that 37.5% of patients expect CAM therapies to cure their disease. Richardson et al.’s study also showed that most of the patients who used CAM did not feel they could discuss this topic with their physician. Due to the concerns associated with the practice of CAM, it is crucial for healthcare professionals to explore the use of CAM with their patients and encourage them to bring up issues so as to assist in making informed and intelligent decisions about their choice of care. In addition, healthcare professionals can help monitor patients for drug-herb interactions. Such interest may prompt patients to be more open to disclosing their practices, improves the communication process, and could also possibly encourage compliance with conventional treatment.

Respondents indicated a need for financial information relating to costs of treatment, and sources of financial support. Major illness, such as cancer, can severely deplete family finances due to the cost of treatment, loss of work and altered care needs. Studies have shown the financial burden of cancer to be a major source of worry, particularly for those using adjuvant chemotherapy and can...
negatively impact quality of life. Addressing this, information needs will enable patients to make informed decisions about their care and may help lighten their financial burden. This aspect of care delivery is also mandated by The Private Hospitals and Medical Clinics Act of Singapore that decrees the provision of financial counselling for patients by healthcare providers.

**Quality of information delivered by professionals**

Respondents have indicated that they want more time with their physicians in explaining their condition and treatment options. At the same time, the respondents indicated a desire for the physicians’ communication skills to be enhanced. The key component of patient-centred care is effective patient–clinician communication and shared decision-making. Studies show that good physician communication is significantly correlated with patient adherence, satisfaction, emotional support and is not related to the length of interactions. Communication is an important component of patient-centred care and how effectively and compassionately the information is being delivered serves not only to establish a good physician–patient relationship but also to improve the patient coping skills and patient outcomes.

There are numerous factors that can negatively affect effective patient-centred communication and shared decision-making by patients and physicians. Challenges for patients include the emotional distress associated with a diagnosis of cancer, patients’ lack of assertiveness, fear of being considered difficult by asking too many questions, fear of receiving substandard care, poor health literacy, information overload, unfamiliar jargon and age. Age, gender, culture, language, training, failure to appreciate differing information needs of patients, level of comfort in discussing certain topics (eg, poor prognosis, sexuality and terminal care), misjudgment of patient preferences and lack of time have been identified as challenges confronting the clinicians. Therefore, in an era where conflicting demands are imposed on medical staff and a physician’s effective communication skill is important, improving the communication skills of the medical staff would help address some of these concerns.

The respondents in our study indicated a preference for easy access to their physicians and were greatly relieved when their concerns were addressed by their doctors through the internet or via telephone. This highlights their need for quick information from a reliable source. Though telecommunication may offer better access to medical staff, it is important to ensure that safeguards are in place when communicating electronically with patients. Caution that such modes of communication must never replace the crucial interpersonal contact that is the basis of patient–physician relationship should be exercised.

**Limitations**

The limitations of this study, as with all qualitative studies, are linked to sample selection. First, the data were collected from one ambulatory cancer centre, with self-reporting being the only method of data collection; the data obtained may thus not be representative of the overall population of cancer patients undergoing treatment. Second, this was a convenience sample and data were extracted from a larger study, so a potential selection bias has to be considered. It may also exclude those patients with a higher interest to participate but were unable to do so because they were not undergoing treatment. However, given the qualitative nature of the data obtained, the results of this study is not intended to be generalised to the broader population of patients with cancer or any specific cancer types. Finally, there is another potential bias from the previously established professional relationship with the oncologists and the healthcare professionals in our centre, but on the other hand, this in-depth study provides some important insights into what is optimal care for cancer patients in Singapore as there was no information on this question to date. In addition, the participation of two independent analyzers on the questions of the survey increased the level of consistency in the issues reported.

**CONCLUSION**

In summary, this study provides insights to the optimal care of cancer patients with regard to their information and supportive care needs. The results demonstrate the challenges of providing patient-centred care and indicate that despite best efforts by our healthcare professionals in providing information and supportive care to patients, some of these services may not be able to meet the needs of these patients.

The role of the healthcare professionals in providing information and support is critical to help patients cope with the physical and psychological effects of a cancer diagnosis and treatment. Although time and resource constraints can limit the amount of information and support that can be provided in the clinical setting, knowledge of psychosocial dimensions impacting patients with cancer and effective communication skills may facilitate assessment and delivery of such services. Addressing the knowledge of psychosocial dimensions in cancer care delivery and effective communication training for healthcare professionals, as well as the specific competencies to provide patient-centred and shared decision information could be useful in addressing these gaps. Further studies assessing the barriers of information provision by healthcare professionals should provide more detailed knowledge about unmet information needs.

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