What Do Patients and Their Carers Do to Support the Safety of Cancer Treatment and Care? A Scoping Review

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Background: Cancer patients and their carers face a multitude of challenges in the treatment journey; the full scope of how they are involved in promoting safety and supporting resilient healthcare is not known.

Objective: The study aimed to undertake a scoping review to explore, document, and understand existing research, which explores what cancer patients and their carers do to support the safety of their treatment and care.

Design: This scoping review followed the Preferred Reporting Items for Systematic Reviews and Meta-Analyses Extension for Scoping Reviews guidelines. Five online databases were searched from 2000 to 2021 to identify primary literature exploring perspectives on patient and caregiver involvement in maintaining their safety during cancer care. Narrative synthesis was then conducted on the included literature.

Results: Of the 1582 results generated from the initial search, 16 studies were included in the review. Most consisted of qualitative semistructured interviews with patients, as well as carers and healthcare professionals (HCP). Four narrative themes were identified: patient perception of safety and their involvement; patients take charge of their own care and well-being; safety as a dynamic collective responsibility; and carers are an undersupported asset. Patients and their carers involve themselves in a variety of behaviors in physical care, well-being, communication, and care coordination to ensure safety and support system resilience. This review adds a novel perspective on cancer patient and caregiver involvement in supporting resilient healthcare.

Conclusions: Patients and their carers play an important role in promoting safe cancer care and healthcare system resilience. Further research is recommended to realize the full extent of the system gaps encountered and mediated by patients and their carers.

Key Words: patient safety, resilience, patient involvement, resilience healthcare, safety-ii, cancer care

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• How does the involvement of patients and their carers support the safety of their care and the service?

METHODS

Protocol
A protocol was drafted using the Preferred Reporting Items for Systematic Reviews and Meta-Analyses Extension for Scoping Reviews16 by one researcher (D.T.) and was reviewed by the rest of the research team (J.O.H., K.A., L.S., R.B.). A scoping review was deemed most appropriate in fulfilling the exploratory nature of the review aims.17

Inclusion Criteria
The following inclusion criteria were applied to the search results:

• Literature was published between 2000 and 2021
• Literature focused on patient and caregiver experiences
• Literature described only experiences of normal practice
• Literature focused on patients older than 18 years and in nonpalliative care
• Literature was published in English
• Literature contained primary data and was peer reviewed

Information Sources
Five databases (CINAHL, MEDLINE, PsycINFO, Web of Science, Embase) were searched by D.T. between March and June 2020; a revised search was conducted in January 2021. The search strategy was drafted by D.T. with guidance from an experienced academic librarian. All searches were recorded. Reference lists of included articles were checked for relevant literature.

Search
The search strategy was separated into 3 concepts: (i) patients, carers, and their experiences; (ii) the safety of treatment; and (iii) cancer care. A concept table is in Appendix 1, http://links.lww.com/JPS/A515 and an example search is in Appendix 2, http://links.lww.com/JPS/A515.

Selection of Sources of Evidence
Two stages of screening were conducted. In stage 1, titles and abstracts were checked for relevance. Unclear literature was retained. In stage 2, the full text of literature included from stage 1 was re-reviewed. Stage 1 and 2 screening was conducted by D.T., with a randomized subsample (stage 1 [10%, n = 300], stage 2 [20%, n = 4]) of each stage results independently reviewed by J.O.H. and K.A. There were few differences between the reviewers in inclusion decisions, with only 1.7% (n = 5) of studies from stage 1 and no disagreements in stage 2. All disagreements were discussed by the 3 reviewers and resolved. Any uncertainties found by D.T. in either stage were also discussed and resolved (Fig. 1).

Data Charting Process
A data charting form was developed by D.T. and reviewed by the research team. The form was based on the Joanna Briggs Institute Template Source of Evidence, Characteristics and Results Extraction Checklist,18 with modifications to collect information.

FIGURE 1. Flowchart depicting the process of selecting sources of evidence.
relevant to this review. Headings were formulated from characteristic data (e.g., data collection, summary of patient role). The full list is in Appendix 3, http://links.lww.com/JPS/A515.

Synthesis of Results

Textual narrative synthesis was conducted, which collates the results in a homogenous manner, while maintaining contextual factors. Literature was examined for similarities and differences, the identification of which formed the basis of “themes,” which aggregated findings relevant to the review aims.

RESULTS

Selection of Sources of Evidence

Characteristics of Individual Sources of Evidence
Specific characteristics were selected and charted separately as relevant to the aims of this study and presented in Figure 2.

FINDINGS

Characteristics of Included Studies
Sixteen studies were selected for analysis. Most studies took place in European countries (n = 12). In addition, the majority (n = 13) took place in a treatment setting.

Twelve studies used qualitative methodologies, two adopted a mixed-methods approach, and the remaining two purely quantitative methodology. Most studies conducted semistructured interviews with individuals (n = 8), focus groups (n = 1), or both (n = 3). One study also incorporated unstructured interviews into its methodology. Of these studies, five conducted longitudinal interviews. In addition, ethnographic methods were used including direct observations, video recordings (n = 1), and document analysis (n = 1).

The four studies using a mixed-method or quantitative approach all administered questionnaires. Two examined patient and caregiver satisfaction with care and areas of improvement, and the remaining two explored patient motivators and predictors for involvement in safety behaviors. Due to the small number of quantitative papers, the findings were woven into the wider themes, which emerged from the qualitative studies to support and strengthen the analysis.

All studies reported patient involvement in safety, with 17% of patients experiencing adverse events. Over half of these patients spoke to an HCP. Those who did not deemed the event trivial or believed staff competency would be questioned. This is a legitimate concern; patients who report adverse events to HCPs can face hostility.

In one study, most patients stayed still during radiotherapy treatment (96%), tended to their skin markings (93%), and controlledverse events (96%). Two studies found that patients lacked psychological support. Some patients accessed their homes to provide PICC line care and to avoid harm and took long journeys to hospital to access care from experienced staff.

Narrative Synthesis

Four themes were identified: (i) patient perception of safety and their involvement; (ii) the patient role in care and well-being; (iii) safety as a dynamic collective responsibility; and (iv) carers are an unsupported asset.

Patient Perception of Safety and Their Involvement

Two studies described good patient understanding of “safety,” but vague awareness of “patient safety.” Furthermore, patient interviews and observations found that HCPs did not talk to patients specifically about it and predominately focused on treatment adverse effects and compliance. When asked, HCPs concluded that patient safety was promoting compliance. There is limited acknowledgement of the importance of communicating “patient safety” to patients and a lack of system-level promotion.

Despite a lack of understanding of “patient safety” as a concept, many patients still reported involvement even if they did not know the treatment or process well. Patients generally did not seem to view their involvement as a “role”; many described their involvement in safety as just “part of being a patient,” or that their behavior was intuitive, or common sense.

Patients’ Role in Care and Well-being

Patients reported involvement in communicative, physical, and psychological aspects of care as well as error prevention.

Communication

The degree to which patients received information was equivocal, with 2 articles reporting information to be adequate and 3 articles reporting suboptimal access. In addition, patients sought out sources of information and approached HCPs. Patients also asked questions and guided decision making. Patients directly influenced the safety of the treatment pathway by following up about results and coordinating hospital transfers.

Physical Care

Two studies reported patient involvement in physical care. In one study, most patients stayed still during radiotherapy treatment (96%), tended to their skin markings (93%), and controlled their breathing (63%), all behaviors promoting safety during and after treatment. In addition, patients fitted with peripherally inserted central catheter lines supported care at home by covering or raising their arm in the shower to avoid water contact. Also, some patients reported inconsistencies in HCPs visiting their homes to provide PICC line care and to avoid harm and took long journeys to hospital to access care from experienced staff.

Psychological Well-being

Four studies reported patient involvement in well-being. One study found that at 5 to 6 months after commencing treatment, patients spoke with HCPs about psychosocial issues including mood management. Two studies found that patients lacked psychological support. Some found ways of finding support, with peer support centers regarded as a welcoming place. Some patients accessed alternative methods such as cannabis use to relieve symptoms.

Obstruction of Care and Adverse Events

One study found that patients obstructed care. In Ethiopia, the general population is not knowledgeable about cancer and those who develop it often seek advice from religious leaders instead of clinicians. Such actions can lead to diagnosis delays and worse prognoses.

Four studies reported adverse patient events. One study found that 17% of patients experienced an “unusual event,” 61% of these patients spoke to an HCP. Those who did not deemed the event trivial or believed staff competency was questioned. This is a legitimate concern; patients who report adverse events to HCPs can face hostility.

In addition, patients mitigate adverse events. In one study, 2 “close call” events were de-escalated by patients. One patient was treated with medication they were allergic to and alerted a nurse, and another reminded a nurse to administer a monthly medication. In both cases, patients alleviated safety risks. Those who experienced adverse events also reported higher vigilance to prevent future errors.

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| Study Setting | Study Aim | Study Design | Sample | Main Findings | Patient, carer role |
|---------------|-----------|--------------|--------|---------------|-------------------|
| Oncology department, Sweden | To describe patients’ experiences of living with a PICC line during chemotherapy treatment | Semi-structured interviews | N = 10, patients had to have used a PICC line for at least one month | Patients had safety concerns over PICC care and would travel to hospital where the staff were more knowledgeable. Patients made changes to their lives to adjust to having a PICC line. | Patients actively took safety measures such as making longer journeys to assure quality of PICC care, and in adjusting their behaviour to look after the PICC line. |
| Regional cancer centre for radical external beam radiotherapy to breast, prostate, head and neck, and oesophageal cancer, UK | To explore how family and friends constructed and negotiated the role during the patient’s radiotherapy | Longitudinal semi-structured interviews | N = 22, caregivers | Caregivers described as helpers, and supported patients by observing, seeking information, note taking, managing conversations, symptom relief, co-ordinating patients and other family and friends. | Caregiver role integral to supporting the patient through their treatment. Caregivers promoted patient wellbeing and safety psychologically through positive motivation, and physically through symptom relief and being present during treatment. Caregivers also take on a more indirect role by observing, taking notes, and seeking out information to help the patient after treatment. |
| Two large hospitals, Norway | To explore the stakeholder perspective in cancer care and to generate new knowledge on how to shorten inpatient stay | Semi-structured interviews across four months | N = 52, HCPs and managers | Caregiver observation and knowledge provides insight, and care to patients which relieves staff pressure. Staff refer to carers as equal partners. Staff regard carers as integrals to navigate transitions from hospital to home and between different care environments, in increasing vigilance and error reduction. | Caregivers take on an active role in patient care by providing care and encouragement to the patient, and sharing information and observations with staff to inform decisions. Caregivers bridge transitional gaps and also transition between assisting at hospital to taking over care at home. Family members also promote safety practices by approaching staff and increasing vigilance against errors and adverse events. |
| Four cancer care inpatient units and three outpatient clinics in two university hospitals, Norway | To investigate levels of satisfaction with cancer care and their suggestions for involvement in cancer care in two Norwegian university hospitals | Survey questionnaire with quantitative and qualitative elements | N = 338, consecutive sampling, recruited NG (n = 132) to patients with a cancer diagnosis in different stages of the cancer care trajectory. 100 answered both quantitative and qualitative sections of survey | Higher satisfaction with care when NOC were involved. NOC were least satisfied with family meetings and felt they were not given information which would help their involvement. NOC suggest that their involvement in the patient’s treatment would help reduce adverse events. | NOC play an important role in ensuring patient safety. NOC have extensive knowledge on the patient that they can share with HCPs to inform decision making and to understand the patients’ condition. |
| Oncology Department in a hospital, France | To assess how patients perceived the information given to them about their treatment; how they experienced delays, errors and unusual events during the treatment sessions and how they felt involved in the safety of their own treatment delivery | Survey questionnaire – all quantitative measures (patient education and involvement) | N = 155 oncology patients | 30% of patients looked for information elsewhere, 51% had already received information from the medical team. 69% thought they were very involved in the safety of their own treatment, even if 51% did not know the process well. Patients paid attention not moving during the treatment (66%), dental care control (63%), and skin markings protection (63%, n = 102), perceived an unusual event during the course of their treatment; 61% talked about it to their radiotherapists. When they did not talk about it, it was because they did not deem it as significant (39%) or because they were concerned staff would assume they were questioning their abilities (27%). | Even when satisfied with treatment, patients still took an active role in seeking their own sources of information and asking HCPs for more. Most patients felt involved in their treatment and complied with treatment safety measures. When adverse events occurred, most patients felt comfortable questioning HCPs if they felt it necessary. |
| Oncology Department of the Tikus Akademi for Specialized Teaching Hospital in Addis Ababa, Ethiopia | Explore communication in Ethiopian cancer care and present the main challenges found | Semi-structured, direct observations and video | N = 54 patients, of which had n = 22 caregivers, N = 16 physicians, All physicians took part in interviews and focus group discussions | Information is underprioritized and patients feel their knowledge is insufficient to get involved. The language used at the hospital is not spoken by all. | Despite limited knowledge of cancer and treatments, carers and patients still take an active role in treatment. |

FIGURE 2. Table of study characteristics.
| Table 2: (Continued) |
|----------------------|
| **Martin, Barney & Upton (2013)** | Four hospitals, four general practices and two private gynaecology clinics (Denmark) | To investigate existing practices for patient involvement in safety, and opportunities and barriers for further involvement | Ward and outpatient clinic observations, and semi-structured interviews with HCPs and patients | N = 33 cancer patients (10 gynaecologists, 6 oncology, 5 gastro-surgery), and n = 10 HCPs (10 hospital doctors, 11 nurses, 2 private doctors, 4 GPs) | Limited conversations about patient safety between patients and HCPs, and usually consisted of awareness of side effects. When patients reported adverse events to HCPs, no conversations around patient safety took place; patients faced a variety of reactions. HCPs could not identify patient safety interventions in their workplace. Patients had vague understanding of patient safety and HCPs, who were familiar with the definition, took it to mean providing patients with information and asking them to follow medical advice. Despite this, patients still sought out their own information and brought lists of prescriptions, but saw this as just part of being a patient. Patients became more attentive of system processes to prevent further errors. There were concerns that reporting errors would result in poorer relationships with HCPs and poorer care, which deterred some patients from getting involved. | Patients often take an active role in their treatment without necessarily realizing they are due to lack of knowledge and support from HCPs. When adverse events happen, patients experience a variety of reactions and are concerned about reporting adverse events in the first place in case their relationship with staff and treatment decline. HCPs do not promote patient involvement in patient safety as an important part of patient treatment journeys, and are often not open to patient involvement, which limits patient willingness to actively involve themselves in safety awareness. |
| **Mitchell, Porter & Mians (2013)** | Oncology outpatient unit in a large university teaching hospital in Northern Ireland (UK) | To examine the specific experiences of communication for patients taking oral chemotherapy and by considering to what extent concordance is important during consultations | Longitudinal ethnography - observations, document analysis of 18 patient leaflets, semi-structured interviews, three focus groups | N = 8 patients (diagnosed with colorectal cancer and taking cetuximab tablets), 11 family members, N = 15 HCPs (8 oncologists, 6 nurses) | At 1st appointment, HCPs made communication on tablet administration, side effects, and contact details. Patients spoke little but felt content. At the next appointment 3-4 months later, patients guided communication about their experience and asked questions. At point 5-6 months, patients expressed psychosocial issues. | Patients took a more active role in controlling communication at appointments, from gaining understanding of the treatment regime and side effects to expressing emotional and psychological needs. |
| **Olson (2013)** | Cancer services (Australia) | To examine the experiences of informal carers of a spouse with cancer | Longitudinal interviews six months apart | N = 33, aged from 30 to 89 years. 18 husbands and 14 wives of spouses at various stages of cancer ranging from breast and prostate cancers to rare cancers. The length of time spent caring ranged from a month to more than 12 years. | Various appointments; obtained scans and shared information with staff. Carers challenged medical staff, questioned decisions and advocated for the patient. Carers monitored the patient, sought out information, followed up with staff, arranged second opinions and patient enrolment in clinical trials. The cancer role was dynamic; when patients felt relatively well, carers decreased their role to allow the patient to get more involved. | Carers acted as a care co-ordinator and patient advocate for their spouse. Carers actively advocate for the patient by following up appointments and results, and by requesting second opinions and questioning staff. Carers took an active role in patient safety and bridged gaps in the healthcare system to ensure sufficient treatment and experience for their spouse. |
| **Sage, Fernandez-Mindez, Croft et al. (2019)** | Six workshops and through online newsletter (UK) | To determine the experience of patients with brain tumors and their carers across distinct parts of their treatment pathway and identify and their views on potential service gaps in need of addressing | Survey completed in online or paper format with quantitative and qualitative elements [pathway to diagnosis, first appointment, treatment] | N = 136. 59 (46%) from the paper-based questionnaire and 81 (60%) through the online version. 98 (72%) responses were completed by patients, the remaining 48 (28%) were completed on behalf of the patient by a carer. | Patients faced delays in diagnosis due to HCP reluctance for referral and some used private health services. Patients also had to follow-up on results; at first appointment, patients felt information was sulphur and difficult to understand, and had limited time to ask questions. Patients reported a lack of services for psychological support. | Patients accessed private healthcare to circumvent delays and reluctance from the public healthcare system, and actively pursued results of medical investigations. Patients also expressed a desire to be involved in future research. |

**FIGURE 2. (Continued)**
| Skerkas, Korvveid, & Finsen (2018) | Cancer support centre within National Cancer Hospital (Norway) | To explore what peer supporters and their relatives want and gain from peer support in cancer care. | Five focus group interviews with peer supporters (volunteer cancer survivors), in-depth interviews with peer supporters, patients and relatives, and observations of daily activities over five days. | N = 18; 26 peer supporters, 10 cancer patients. Ages between 27 and 73 years. | The peer support centre has a warm atmosphere. Talking to people who have survived cancer treatment gave hope to patients and a support network for those who did not know any other people with cancer. Patients could talk to peer supporters about issues they did not want to burden their families with and found a place to talk emotionally about their diagnosis. | Patients found a lack of emotional and psychological support at hospital to patients and to fill this gap by accessing the support centre. In doing so, patients fulfilled their own need for support and help coping with their diagnosis and treatment, whilst also having the option to take part in recreational activities to support their own wellbeing. |
|-----------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Thaysen, Lomborg, & Saebø (2019) | Two University hospital surgical departments: one colorectal department, and a gynaecological | To investigate the perspectives of patients, relatives and health professionals on longitudinal individual patient interviews, staff focus group. | N = 15 patients (10 colorectal cancer, 5 ovarian cancer), & 8 relatives (spouses/children) and 9. | Patients experienced communication barriers in the organisation and administration of hospital transfer which they had to co-ordinate themselves. | Patients take a role in navigating care transitions, informing decision making, and | Encouraged by staff, more patients were likely to get involved in error prevention awareness. |
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|-----------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Thaysen, Lomborg, & Saebø (2019) | Two University hospital surgical departments: one colorectal department, and a gynaecological | To investigate the pathways in order to identify drivers and barriers to patient involvement in CR and iPEC due to organizational barriers from colorectal cancer and ovarian cancer | Longitudinal individual patient interviews, staff focus group. | N = 15 patients (10 colorectal cancer, 5 ovarian cancer), & 8 relatives (spouses/children) and 9. | Patients experienced communication barriers in the organisation and administration of hospital transfer which they had to co-ordinate themselves. | Patients take a role in navigating care transitions, informing decision making, and | Encouraged by staff, more patients were likely to get involved in error prevention awareness. |
|-----------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|-------------------------------------------------|
| Walters & Guthrie (2017) | National Cancer Institute-designated cancer center - 43-bed inpatient unit specializing in colorectal cancer post-surgery care (USA) | To describe patient engagement as a patient safety strategy from the perspective of hospitalized surgical oncology patients. | Semi-structured interviews | N = 13, hospitalized surgical oncology patients. | Patients were unfamiliar with the ‘patient safety’. Described ensuring safety as ‘timeout’ felt that there was a risk and a shared responsibility between patients, nurses, HCPs and hospital staff. However, medical errors was the responsibility of HCPs and hospital administrators, not patients. Patients believed that the healthcare system should not rely solely on patients (i.e. not all patients are cognitively or physically able to do so) and should use | Patients understood patient safety as an unbalanced collective responsibility between themselves, their family, HCPs and hospital administrators. Patients place more responsibility not only on HCPs and hospital administrators to ensure safety for themselves and to prevent adverse |

FIGURE 2. (Continued).
Three studies described obstacles to involvement.4,11,25 Some lacked information to involve themselves,25 while others felt that management was “out of their control” and there was no expectation for their involvement.11 Patients also worried that if they did report errors, staff relationships would sour and result in jeopardization of their standard of care.4

Safety as a Dynamic Collective Responsibility

Three studies presented patients’ views regarding responsibility for patient safety.4,11,13 One study reported that patients believe patient involvement in patient safety is a right but also a shared responsibility between themselves, carers, and HCPs.13 The distribution of responsibility between each party is, however, unequal. Patients believe that HCPs have a “duty of care” to shoulder serious responsibilities, such as medical errors.13 In addition, staff have a role in promoting patient involvement in safety. Three studies found that patients felt more likely to engage in safety behaviors when staff encouraged it.4,11,13 Indeed, those that felt staff did not expect patient involvement were less inclined.4,11 Patients further emphasized the importance of split responsibility as patient ability may not be ever-present; not all patients have the physical or cognitive capacity to be involved in safety behaviors.13

Carers Are an Undersupported Asset

Six studies reported on the role of carers.21–23,25,27,29 One study reported that carers did not see themselves at “carers”; patients were cared for by the healthcare system, and carers were helpers.21 However, carers reported being involved in physical care to relieve pressure from staff.22 Another study reported carers keeping notes and motivating patients.21 In addition, patients in Ethiopia are linguistically diverse and rely on carers to facilitate communication with HCPs.25

Carers maneuver patients through the healthcare system.27 Carers described themselves as patient advocates and “safety nets.”21,27,29 Some stressed their role as essential to patient survival.29 Carers spoke of questioning staff and arranging enrollment in clinical trials.27 In Ethiopia, diagnoses were often not disclosed to patients to avoid upset; their families took over decision making.25

In one study, staff described carers as equals to HCP in making patient-tailored decisions.22 Carers felt that their involvement could reduce adverse events.23 Carers were described as irreplaceable in supporting patients through care transitions and in prompting staff to be vigilant of errors.23 However, carers often felt unprepared and underinformed.23,29 Furthermore, some carers felt unable to disengage from their role and were on constant guard.23 However, when involvement was supported by staff, carers reported higher satisfaction with patient care.23 Carers also acknowledged their role as dynamic; when patients felt relatively well, carers reduced responsibilities to allow patient involvement.27

DISCUSSION

This review explored what patients and their carers do to support the safety of cancer care and healthcare system resilience. We found that patients and carers engage in a variety of safety-promoting, error-preventing behaviors. Barriers to involvement were also identified, as well as obstructions to care and perspectives on safety responsibilities. To the author’s knowledge, this is the first review to specifically explore the activities undertaken by cancer patients and carers that contribute to the safety of care. Our findings raise several important issues that will now be considered in turn.

Is Supporting Safety a “Patient Role”?

Few studies explored what “patient safety” actually meant to patients, although it was clear that it was an uncertain concept to most.4,13 Patients also often dismissed their involvement as a “role,” considering their behaviors more instinctual and part of their capacity as a patient, despite not always knowing treatment processes well.4,13,24 Included studies provided substantial accounts of how patients filled in system gaps4,20,24–26,28,30,31 and monitored the system to prevent errors.4,11,24 Patients reported having a strong desire to be involved in their own safety with support and good relations with carers and HCPs and to be part of a “coalition of care.”13 Patients were directly involved in physical care, communication, and error monitoring and also organized
their own psychological care. After experiencing errors, patients became more vigilant of the system to prevent further safety issues. Such evidence is consistent with the emerging concept of patients and carers as “scaffolding” services; this conception is proposed by the authors to describe activity, which is undertaken (often unseen) by patients and carers, that not only supports their own safety but also, in effect, acts as a further support—or “scaffold”—for system-level safety outcomes.2

This scaffolding role does not always seem to be equally distributed across all aspects of care, however. Despite some patients expressing a need for psychological support, only one study reported on well-being services accessed by patients. Studies with staff participants also did not find any mental health resources being accessed by or recommended to patients. This is particularly concerning because various reviews have found access to mental health services and interventions to be critical to cancer patients, indeed, research has estimated more than half of cancer patients experience depression. In addition, while patients expected to undertake a share of responsibility for their care, many felt excluded and outside the treatment management sphere. Finally, patients in Ethiopia unintentionally obstructed care because of misinformation. Indeed, no studies explored staff perspectives on patient involvement; staff did, however, commend caregiver involvement.

Do Carers “Scaffold” the “Scaffolders”? The Caregiver Role

In contrast to patients, carers recognize and acknowledge their role as a safety net for patients and essential to ensuring quality of care. Carers acted not only as a mediator between patients and staff but also as an advocate for patients. Furthermore, carers in some cultures take on full responsibility for care decisions. Carers questioned staff decisions but also cared for patients both in hospital and postdischarge. Carers seemed to have conflicting views on their role and the system—some reasoned that the patient is cared for by the healthcare system and they are “just helpers,” while others experienced a broken system that they had to navigate for the patient and provide physical care. Regardless, carers could not express the importance of their involvement more strongly, and staff considered them equal partners in patient care. In this sense, carers scaffold the healthcare system in conjunction with patients and with encouragement from staff. Carers directly contribute to the resilience of the healthcare system by supporting error prevention and supplementing patient care to avoid gaps in treatment. The essential role carers provide is one they take on despite it postponing their own lives, and one they cannot disengage from. However, although no studies explored patients’ views on caregiver involvement, carers did understand their responsibilities varied depending on patient capacity and staff engagement.

Who Is Responsible for Patient Safety?

Patient involvement in patient safety is a right, and patients wish to be part of a “coalition of care.” Patients and carers felt responsible for using “common sense” and that HCPs are responsible for circumventing medical errors and top-down processes. In addition, patients must receive culturally appropriate information about these diagnoses to avoid unintentionally obstructing care. However, patient capacity was also recognized as influencing patient involvement in safety and support by HCPs to engage in safety and resilience supporting behaviors. Patients and carers should not be “burdened” by their involvement or HCP expectations, because this delegation of responsibility could lead to poorer safety outcomes.

Limitations. The definition of patient safety does not define criteria for what activities qualify as such. Therefore, this review may have omitted unexplored behaviors that patients engage in. In addition, only one study was included in this review that relates to healthcare in a low-income country, meaning that conclusions in such healthcare contexts could not therefore be made. Finally, gray literature was not included in this review, which may have been relevant to the review aims.

Implications. Patients and carers occupy a unique position both “inside” and “outside” healthcare system pathways. The reviewed literature suggests that patients and carers identify gaps in cancer care and take initiative to minimize disruption and prevent harm. These actions are not limited to any category of behaviors or specific treatments and highlight the adaptability of patients and carers to “step in” not only when the resilience of systems is suboptimal but also in maintaining day-to-day resilience.

The findings of this review support the “scaffolding” role concept of patients and carers’ interaction with the healthcare system. In addition, this review links to emerging literature that patient and caregiver involvement is crucial to support resilience in healthcare systems (see the study by Guise et al). Cancer patients are a unique patient population with distinct experiences of multiple care transitions (chemotherapy, radiotherapy, outpatient services, home-based care, to name a few) and are a novel representation of how patients safeguard themselves and navigate fluctuating resilience in healthcare systems. Furthermore, this review specifically contributes to the limited research pool on cancer patient and caregiver involvement in healthcare system resilience (see the study by Bergerod et al). Such research is important to understand the unique gaps that exist in cancer care, how they are experienced by patients and carers, and how they attempt to mitigate negative consequences to support system resilience. Future research should explore patient and caregiver perspective on the scope of existing gaps in the cancer care pathway and their roles in promoting safety.

Conclusions. Patients and carers perform an important role in promoting healthcare system resilience and supporting safe cancer care. The reviewed literature describes the scope of care and error prevention activities that are undertaken by patient and carers. This review provides a foundational understanding for future novel research into cancer patient and caregiver involvement in supporting system resilience and recommends further exploration into system gaps and the role of patients and carers in adapting to inconsistent care.

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