Cognitive and Situational Precipitants of Loneliness Among Patients With Cancer: A Qualitative Analysis

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Purpose/Objectives: To identify situations and thoughts that may precipitate or protect against loneliness experienced by patients with cancer.

Research Approach: Qualitative.

Setting: The hematology/oncology clinic at the Indiana University Melvin and Bren Simon Cancer Center, an outpatient oncology center in Indianapolis.

Participants: Purposive sample of 15 patients undergoing treatment for multiple myeloma or non-Hodgkin lymphoma.

Methodologic Approach: Individual, semistructured qualitative interviews were conducted. Theoretical thematic analysis was used to analyze interview data.

Findings: Factors that appeared to precipitate loneliness included several situations (e.g., physical isolation, social constraints such as criticism) and thoughts (e.g., unmet expectations for visits or questions about health, belief that others do not understand their cancer experience). Several situations (e.g., social support, normal routine) and thoughts (e.g., beliefs that time alone is desirable and that others’ discomfort with cancer-related discussions is normative) appeared to protect against loneliness. Certain social situations were loneliness-inducing for some patients and not for others, suggesting that patients’ thoughts about their situations, rather than the situations themselves, have the greatest impact on their loneliness.

Conclusions: The current study fills gaps in loneliness theory by identifying cancer-related situations and thoughts that patients associate with their loneliness. Consistent with theory, patients reported feeling lonely when they had negative thoughts about their social situations.

Interpretation: Findings inform nursing assessment and intervention strategies to incorporate into care plans. For instance, when conducting assessments, nurses should be more attentive to patients’ satisfaction with their social environment than actual characteristics of the environment. Normalizing patients’ experiences and encouraging positive thoughts about others’ behavior may reduce patients’ loneliness.

Feeling socially connected is a critical aspect of well-being; in the absence of social connection, individuals experience loneliness. Theorists have defined loneliness as the perception of social isolation and dissatisfaction with the quality of relationships (Cacioppo et al., 2006; Peplau & Perlman, 1982). Loneliness is a known risk factor for a number of poor physical and mental health outcomes in the general population (Cacioppo & Hawkley, 2009; Hawkley & Cacioppo, 2003), and preliminary research suggests that loneliness is also associated with poor health outcomes in people with cancer (Drageset, Eide, Kirkevold, & Ranhoff, 2013; Jaremka et al., 2014; Jaremka, Fagundes, Glaser, et al., 2013; Nausheen et al., 2010). For example, higher levels of loneliness have predicted worse immune functioning and greater depressive symptoms, fatigue, pain, and all-cause mortality in those with cancer (Drageset et al., 2013; Jaremka et al., 2014; Jaremka, Fagundes, Glaser, et al., 2013; Nausheen et al., 2010).
On average, patients experience moderate levels of loneliness, and few predictors of their loneliness have been identified (Deckx, van den Akker, & Buntinx, 2014). Specifically, loneliness is more common in unmarried patients and tends to increase as more time elapses since the cancer diagnosis. In addition, social support has consistently shown negative associations with patients’ loneliness (Deckx et al., 2014).

Other social predictors of loneliness experienced by patients with cancer have rarely been examined. One study found that greater social constraints, such as others’ avoidance and discomfort with cancer-related discussions, were associated with more incomplete cognitive processing (i.e., intrusive thoughts about the illness and avoidance of these thoughts) and greater loneliness (Mosher et al., 2012). In turn, more incomplete cognitive processing and greater loneliness were associated with greater psychological distress (Mosher et al., 2012). This finding is consistent with social cognitive processing theory, suggesting that constraints on disclosure discourage the cognitive processing of stressful events with others and lead people to feel misunderstood and alienated (Lepore & Revenson, 2007).

Although literature on loneliness in the population of patients with cancer is growing (Deckx et al., 2014; Wells & Kelly, 2008), little is known about aspects of the cancer experience that patients perceive to be loneliness-inducing. In one qualitative study, post-treatment patients with breast cancer described their experiences of loneliness, including heightened existential concerns (e.g., fear of death) during and after cancer treatment that others did not appear to understand (Rosedale, 2009). In addition, patients reported withholding illness-related fears from others to protect them, which decreased social connection.

Several gaps in the understanding of loneliness experienced by patients with cancer warrant investigation. Loneliness is theorized to be sustained by negative social cognitions, such as negative social expectations (Cacioppo & Hawkley, 2009), but little research has examined these cognitions in the population of patients with cancer. In addition, situational factors contributing to loneliness in patients warrant additional study. Specifically, theory suggests that social conditions (e.g., whether people choose to form connections with a lonely individual) affect the persistence of loneliness and negative social cognitions (Cacioppo & Hawkley, 2009), but these conditions have rarely been studied among those with cancer. Also, although greater social support appears to be a protective factor for loneliness in people with cancer (Deckx et al., 2014), other thoughts and situations that protect against patients’ feelings of loneliness have yet to be examined. Identifying experiences and thoughts that lead to loneliness could help nurses address this important problem experienced by patients with cancer.

To address these gaps in the literature, the aims of the present study were to identify cancer-related situations and thoughts that may precipitate or protect against patients’ loneliness. Qualitative interviews were used to capture the range and complexity of loneliness-related situations and thoughts. Patients undergoing treatment for multiple myeloma or non-Hodgkin lymphoma were interviewed because many receive hematopoietic stem cell transplantation (HSCT), which involves prolonged isolation. In addition, others’ limited understanding of these less prevalent cancers may contribute to patients’ feelings of loneliness.

**Methods**

**Participants and Procedure**

Following institutional review board approval, patients with cancer were recruited from the hematology/oncology clinic at the Indiana University Melvin and Bren Simon Cancer Center (IUSCC). Eligible patients were English-speaking adults (aged 18 years or older) who were undergoing curative or palliative treatment for multiple myeloma or non-Hodgkin lymphoma. Eligibility status was determined by medical chart review and consultation with oncologists. Purposive sampling (Berg, 2004) based on patient gender and age (aged 65 years or older versus aged younger than 65 years) was used to ensure approximately equal numbers of demographic subgroups.

Following a written consent process, participants first completed a brief demographic questionnaire in the clinic. Subsequently, participants completed a semistructured interview that was audio recorded in a private area of the clinic. Interviews ranged from 10–30 minutes in length and were conducted by an advanced clinical psychology doctoral student. Participants were first provided with the following definition of loneliness: “Loneliness means feeling isolated or disconnected from others around you. It isn’t about how much time you spend with others or how many friends you have, but more about how connected you feel with others overall.” Participants then were asked to describe any experiences of loneliness since their cancer diagnosis. The interviewer probed participants for situations precipitating their loneliness and thoughts experienced while feeling lonely. In addition, the interviewer asked for descriptions of situations and thoughts that protected against feelings of loneliness. Throughout the interview, the interviewer asked follow-up questions to...
obtain a detailed narrative. All participants received a standard brochure outlining available psychosocial services (e.g., social work, support groups) at IUSCC. They also were given a $25 gift card for their participation. Disease-related data were collected from the participants’ medical records.

Data Analysis

Descriptive statistics were used to characterize participants’ demographic and medical information. Interviews were transcribed verbatim and transferred to ATLAS.ti for thematic analysis, defined as “a method for identifying, analysing, and reporting patterns (themes) within data” (Braun & Clarke, 2006, p. 79). A theoretical thematic analysis was conducted rather than an inductive one. Specifically, the analysis was guided by loneliness theory (Cacioppo et al., 2006; Cacioppo & Hawkley, 2009; Peplau & Perlman, 1982), with the analytic goal being to identify situations and thoughts that either precipitated or protected against loneliness. An iterative sampling process was used. Two coders (a clinical psychologist and an advanced clinical psychology doctoral student; both specialize in psycho-oncology) generated codes independently and met on a regular basis to discuss them (i.e., after the first three interviews and then after every four interviews). Discrepancies between coders were discussed and reconciled. Data collection was complete when the coders agreed that saturation had been achieved. Prior research suggests that saturation generally occurs after data from 12 participants have been analyzed (Guest, Bunce, & Johnson, 2006). Next, the researchers categorized the codes into broader themes. The themes were checked to ensure that they were internally consistent and distinguishable from one another.

Findings

Seventeen patients were approached regarding this study. All were eligible, and 15 agreed to participate in the study (an 88% response rate). Reasons for patient refusal included discomfort with being audio recorded and having insufficient time to complete the interview. Participant characteristics are listed in Table 1.

Situations Associated With Loneliness

Isolation: Several participants said they felt lonely during periods of physical isolation. For example, the lengthy hospitalization phase of HSCT was described as isolating, particularly when visits from family and friends were infrequent. One HSCT survivor expressed this perspective.

I was in the hospital for 37 days, and there were certain periods when people couldn’t be there. . . . They lived almost two hours away . . . so they couldn’t always come down and . . . just being in the hospital by oneself is lonely.

Other situations that limited social contact (e.g., lacking employment, being single) were also identified as precipitants of loneliness. Many of these situations were attributed to changes in functional status and physical symptoms. One patient noted how her symptom burden resulted in social isolation.

I haven’t been out much in the last year . . . so I have been kind of isolated at home. . . . Before I had the medicine, I . . . didn’t feel like [going out] much . . . because I didn’t feel good.

Others’ socially constraining behavior: Another precipitant of loneliness was the socially constraining behavior of family and friends. For example, many...
participants stated that family and friends acted in a nervous or uncomfortable manner around them, particularly when discussing their cancer. One woman explained further: “My husband and kids, after hearing about [the cancer], would sometimes feel awkward around me, and that would make me feel lonely . . . kind of left out.”

Other socially constraining behaviors of loved ones included criticism or blame directed toward the patient for the cancer diagnosis. Following criticism, participants often avoided sharing their feelings about the cancer with loved ones, which heightened feelings of loneliness. For example, one woman reported avoidance of cancer-related discussions with her husband and feelings of isolation after a hurtful encounter: “After my first [cancer] treatment last month, I was still . . . weak . . . and [my husband] just approached me outside and screamed at me that he blamed [me]—it’s 100% my fault I had cancer.”

Withholding medical information from others: Some participants did not inform others of their cancer diagnosis or treatment, which led to feelings of isolation. A lack of cancer-related disclosure was often motivated by a desire to protect others from distress, as illustrated by the following statement:

[My husband] gets real depressed, so I . . . don’t share too much of the information with him. . . . From these scans, year over year, they seem to get worse every time. . . . But I can’t share that with him because he’s going to be really upset if I told him. . . . It’d be better if I did have somebody to share it with. . . . I don’t [think] I can do that.

Thoughts Associated With Loneliness

Others do not visit or ask questions as often as I expect: Many participants had unmet expectations for visits and calls from family and friends, which resulted in feelings of loneliness. Perceiving a lack of care and concern from others during conversations also contributed to loneliness. One woman described how her children had not asked her any questions about the cancer: “They just . . . change the subject. I don’t know if they just don’t want to talk about it. It does cross my mind—‘Why aren’t they asking any questions?’”

Others do not understand my cancer-related experiences: Participants reported feeling misunderstood by others during times of loneliness. Specifically, some patients felt that others could not understand various cancer-related experiences, such as the process of undergoing cancer treatment and its physical side effects. One patient who underwent two HSCTs described this experience.

Sometimes you are misunderstood. People don’t know. They don’t understand my cancer.

. . . People come up to you and say, “You don’t look sick.” I’ll tell you, only after my second transplant did I really look sick because . . . I lost tons of weight. That is a question where you sit there and think, “I don’t know what I am supposed to say to that.” Or people who don’t understand the cancer and think you had this transplant and now I’m well. Well, you don’t want to dwell on it and say, “It doesn’t go away. I’m not going to get better.”

My time might be limited: Some participants reported a new awareness of their mortality following their cancer diagnosis. Existential questions (e.g., “Why me?”, “How much longer do I have to live?”) led to feelings of disconnection from others who did not face the same challenges. Although this existential awareness increased some patients’ desire to spend time with family and friends, others felt that they did not have time for certain relationships. One man described his withdrawal from others:

I’ve chosen . . . to be isolated. . . . I have . . . isolated myself more and more from people I know . . . It’s almost like I have the feeling that I just don’t have time . . . to maintain these relationships. . . . Of course, when you’re 60 and you have cancer . . . your own mortality becomes a significant issue . . . I just don’t have . . . time, however long I’ll live. . . . The cancer does play a role because it becomes a limiting factor . . . Again, the cancer has put an exclamation point on that eventuality, that we’re all going to die, right? . . . It’s really put an exclamation point on that for me.

Situations Protective Against Loneliness

Social support: The most common protective situations with respect to loneliness were supportive experiences with family and friends, some of whom were cancer survivors. One participant noted the increased support and expressions of care that had occurred since his diagnosis.

They show such interest and want to know, “[Is there] anything I can do to help you?” Anything. They want you to get over this . . . They’ve changed—nurturing me and coming to me. And my sister even came closer. . . . I am just really surprised by the whole thing . . . . I thought I was just in my own area, but no; it’s different. I do not feel lonely.

Withholding medical information from others: In contrast to participants who found withholding diagnostic or treatment information from others to be isolating, some participants thought that doing so prevented feelings of disconnection or other unwanted
changes in their relationships. One woman explained the social advantages of withholding diagnostic information from her friends.

I don’t want to share [the cancer diagnosis] with people. But my church friends and my friends know I am having a problem. I’ve told them this is not cancerous but I am getting antibiotic treatment, so they don’t know that I’m getting treated for cancer. . . . I want my relationships with everybody to go on as [they have]. . . . I started worrying if I told them, they would start treating me different and . . . I want to be treated just like I always have been treated, not any different than anyone else. Is that wrong? . . . I’m always needed because they don’t know I have cancer.

Maintaining normalcy: Many participants reported that maintaining a normal routine, including work and social activities, served to distract them from feelings of loneliness. One woman expressed this viewpoint, saying, “My mind feels occupied . . . and I’m not sitting around being depressed or morbid about things. . . . I never feel alone because I tend to . . . work on projects.”

Thoughts Protective Against Loneliness

Time alone is desirable: Some participants found time alone to be desirable rather than loneliness-inducing. One woman described her acceptance of solitude.

I don’t have a ton of friends. I tend to be very comfortable on my own and [do] not [feel] alone. I don’t look at it that way. Just by myself, doing my own thing . . . I tend to be very comfortable doing that.

Discomfort with cancer-related discussions is normative: Some participants characterized others’ discomfort with cancer-related discussions and avoidance of these discussions as normative. Rather than inferring that others do not care about them, some participants provided alternative explanations for socially constraining behavior, which appeared to protect against feelings of loneliness. One woman explained that although many people know about her diagnosis, they do not bring it up.

They don’t ask about it. . . . People feel uncomfortable asking that . . . because they don’t understand the medical terms, and they don’t want to make me upset or make me sad. So I think they just don’t know what to say.

Experiences with cancer are common: Participants who characterized cancer as a common experience in their family or social network denied feeling misunderstood by others. Viewing cancer as normative appeared to protect against loneliness, as illustrated by the following statement.

People around me have either experienced cancer or certainly have had friends of theirs who have cancer, so I don’t feel left out. Somebody in a different situation could certainly feel [lonely] . . . . I think the older you get, frankly, the more you realize a lot of [your] friends have had cancer or [are] going through treatment. So, I don’t feel I have to have a big support system.

I focus on the here and now: A number of participants said that living in the present moment distracted them from negative thoughts and feelings. One man noticed how a focus on daily tasks prevented feelings of loneliness.

I was just taking it one day at a time getting through . . . but I . . . didn’t dwell on being alone or being isolated or anything like that. . . . I just didn’t. I couldn’t. I had to focus on what was in front of me, which was my illness.

Discussion

This study is among the first to identify thoughts and situations related to patients’ loneliness. Results suggest that thoughts, including attributions for others’ behavior and social expectations, may have a greater impact on patients’ degree of loneliness than their actual social environment. Figure 1 provides a visual representation of patients’ loneliness. Regarding attributions, some patients thought that others’ avoidance of cancer-related discussions showed a lack of compassion, whereas other patients made more positive attributions (e.g., others were protecting them from distressing conversations). Patients reporting positive attributions tended to feel less lonely under those circumstances. Regarding social expectations, some patients felt that others could never understand their experiences with cancer, whereas other patients believed their cancer experiences to be common and, therefore, understood by many people. Patients who felt understood by others also reported feeling less isolated from their social network. Consequently, patients’ interpretation of events appeared to affect their loneliness, consistent with theory linking negative social cognitions to greater loneliness (Cacioppo & Hawkley, 2009). In addition, findings fill gaps in existing theory by suggesting specific cancer-related thoughts that may lead to more negative social interactions and isolation and, in turn, sustain feelings of loneliness.

Existential thoughts also appeared to contribute to the loneliness of patients with cancer. Specifically, some patients said they felt alone in their newfound awareness of their mortality and unpredictable future. These findings are comparable to those of a
qualitative study of patients with breast cancer post-treatment (Rosedale, 2009) and suggest that some patients undergoing treatment for primarily late-stage cancers experience similar feelings. In addition, a novel finding of the current study was that thoughts about mortality may contribute to loneliness by decreasing interest in maintaining relationships. Specifically, some patients prioritized other activities over certain relationships when they perceived their time as limited, which led to feelings of isolation.

Situational precipitants of loneliness also were explored. The authors found that physical isolation led to heightened loneliness for some patients, whereas others enjoyed time to themselves to focus on tasks. This finding is consistent with loneliness theory, which suggests that the perception of social isolation, rather than actual isolation, underlies loneliness (Cacioppo et al., 2006; Peplau & Perlman, 1982). This result also may be understood within a cognitive theoretical framework for depression, which posits that people’s interpretations of their environment affect their mood (Beck, 2011). Also consistent with theory (Lepore, 2001; Lepore & Revenson, 2007), patients who felt supported by others did not endorse loneliness, whereas those experiencing social constraints (e.g., criticism, avoidance) often reported loneliness. These findings converge with meta-analytic evidence supporting a negative relationship between social support and loneliness in patients with cancer (Deckx et al., 2014), as well as results of one quantitative study of HSCT survivors indicating a positive relationship between social constraints and loneliness (Mosher et al., 2012). Additional research is needed to understand the social factors that have the greatest impact on loneliness experienced by patients with cancer. For example, examining the relative influence of positive versus negative social exchanges with close others (i.e., people in an individual’s life with whom he or she feels most connected, including family and friends) on loneliness may contribute to theory and intervention development.

An interesting social factor that warrants additional study in relation to loneliness is patients’ degree of illness-related disclosure. In the current study, patients who refrained from disclosing information about their diagnosis and treatments to family or friends did not invariably report feeling lonely. In fact, some patients said that this decision prevented unwanted relationship changes, such as being treated differently. Conversely, some patients felt disconnected from others when they failed to discuss cancer-related concerns. Both findings may be understood within the framework of social cognitive processing theory (Lepore, 2001). Unwanted relationship changes (e.g., avoidance, criticism, discomfort during conversations) may be avoided if patients do not disclose their cancer diagnosis. By avoiding others’ socially constraining behaviors, patients may experience less distress and loneliness. However, nondisclosing patients do not have the opportunity to process cancer-related information with others, which has been found to facilitate psychological adjustment (Lepore & Helgeson, 1998; Manne et al., 2004; Mosher et al., 2012). Overall, findings suggest that cognitive and situational precipitants of loneliness vary substantially among individuals. Consequently, future research should examine moderators of the impact of cognitive and contextual variables on loneliness, including demographic (e.g., gender, age), medical, and personality (e.g., introversion) characteristics, and level of psychopathology.

Limitations

Limitations of this study should be noted. Although the sample was diverse with respect to a number of
demographic factors, participants were primarily Caucasian patients from one institution in the midwestern United States. Exploring precipitants of loneliness in diverse cultural groups is an important direction for future research. In addition, loneliness has been found to be greater at some points in the cancer trajectory than others (Deck et al., 2014), and retrospective reporting may not fully capture these changes in loneliness and its precipitants. Also, interviews were relatively brief because they were completed in a busy clinic setting. Longitudinal data collection using in-depth interviews would allow for the gathering of more detailed information about loneliness experiences during different phases of the disease trajectory.

Implications for Future Research

Findings point to the potential importance of targeting social cognitions, such as attributions for others’ behavior, in future interventions to reduce loneliness experienced by patients with cancer. To date, the limited intervention research to address patients’ loneliness has not adopted this approach (Fukui, Koike, Ooba, & Uchitomi, 2003; Masi, Chen, Hawkley, & Cacioppo, 2010). Cognitive therapy, which involves teaching patients to challenge and replace negative thoughts, has reduced loneliness in noncancer populations (Hopps, Pépin, & Boisvert, 2003; Tatliilıoglu, 2013; Theeke & Mallow, 2015), but this approach has yet to be tailored to the loneliness experienced by patients with cancer.

Another finding with implications for intervention is that patients felt less isolated when they focused on the present moment. If additional research supports this finding, therapeutic techniques that foster attention paid to the present moment, including mindfulness approaches, may also reduce patients’ loneliness. In fact, one study found that a mindfulness-based therapy approach reduced healthy older adults’ loneliness (Creswell et al., 2012). Mindfulness interventions and cognitive therapy have led to better mental health outcomes in patients with cancer (Shennan, Payne, & Fenlon, 2011; Tatlilioglu, 2013; Tatrow & Montgomery, 2006), but additional research is needed to examine whether these interventions may be modified to reduce the loneliness experienced by patients with cancer.

Implications for Nursing Practice

Results of this study have implications for loneliness assessment and intervention strategies that nurses should consider when developing care plans. Results suggest that nurses should be most attentive to patients’ satisfaction with their social environment rather than the quantity of social support when conducting assessments, because this may have the greatest impact on loneliness. Nurses also can teach patients skills for communicating with providers or family members and refer them to available support services. In addition, nurses may reduce patients’ loneliness by normalizing their experiences; lonely patients in this study often reported feeling misunderstood. Nurses may help patients generate alternate explanations for others’ behaviors that are less loneliness-inducing. For example, if friends rarely call a patient, he or she may attribute this behavior to a lack of caring, whereas an alternate explanation is that friends are worried about disturbing the patient’s sleep. Through assessment, intervention, and referral, nurses may play a key role in reducing the loneliness experienced by patients with cancer.

Conclusion

Loneliness is a significant risk factor for poor mental and physical health outcomes in patients with cancer (Drageset et al., 2013; Jaremka et al., 2014; Jaremka, Fagundes, Peng, et al., 2013; Nausheen et al., 2010). However, little is known about factors contributing to patients’ loneliness experiences. The current study identified situations and thoughts that may precipitate or protect against loneliness. In general, patients’ perceptions of their social situations, rather than the situations themselves, appeared to have the greatest impact on their loneliness, supporting the theoretical notion that negative cognitions sustain loneliness (Cacioppo & Hawkley, 2009). If cognitions identified in the current research are found to predict patients’ loneliness in future studies, then interventions may be developed to address these cognitions and, ultimately, improve the health and well-being of patients with cancer.

References


Knowledge Translation

- Patients’ thoughts about their social situations, rather than the situations themselves, appeared to have the greatest impact on loneliness.
- Patients with negative explanations for others’ behavior toward them and negative social expectations endorsed loneliness.
- Findings point to the potential importance of targeting social cognitions in future interventions to reduce the loneliness experienced by patients with cancer.


