

Identity threat and stigma in cancer patients

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Abstract

Cancer stigma has undergone an important transformation in recent decades. In general, this disease no longer fits squarely into Goffman's classic taxonomy of stigmatized conditions. This review will demonstrate that, with important adaptations, an identity-threat model of stigma can be used to organize cancer stigma research post-Goffman. This adapted model postulates that one's personal attributions, responses to situational threat, and disease/treatment characteristics can be used to predict identity threat and well-being of individuals with cancer. Implications for further research and clinical practice are discussed.

Keywords

cancer, identity threat, attributions, stigma

A society creates a system of categorizing individuals according to whether they possess attributes thought to be normal (Goffman, 1963). When individuals bear a distinguishing mark that is attributed to their disposition, they can be stigmatized (Jones et al., 1984). Stigmatization can discredit one's social identity (Goffman, 1963) and can affect a person psychologically by influencing the processes related to identity threat (Major and O'Brien, 2005). Cancer once fit squarely into Goffman's classification as a physical deformity or "abomination of the body." However, scientific knowledge has since increased regarding the nature of the disease and its stigma. It is now more appropriate to examine cancer, and the stigmatization of cancer, as "complex and heterogeneous" (Else-Quest and Jackson, 2014: 165), varying by type of cancer across factors such as causes, treatments, and outcomes.

Evidence from the mid-20th century suggests that due to its association with death (Else-Quest and Jackson, 2014), cancer was often not discussed with patients (Holland, 2001). In 1961, nearly 90 percent of physicians at a US hospital reported that they preferred not to tell patients they had cancer, as it could cause them harm (Oken, 1961). In the 1970s, with the advent of psycho-oncology, it became more acceptable to discuss a cancer diagnosis (Holland, 2001). At present, practices vary. For example, in Qatar, most physicians report that they would inform patients of a cancer diagnosis, but 66 percent said they often made exceptions (Rodriguez Del Pozo et al.,

2012). In Italy, 45 percent of physicians agree that patients should be given their diagnosis, but only 25 percent reported they did this consistently (Grassi et al., 2000). Finally, in China, it remains more acceptable to disclose a diagnosis to family members than to patients (Wuensch et al., 2013).

Most of the research in the 1980s and 1990s suggested that the stigma associated with cancer had decreased. The attribution-affect-help model explained that patients with HIV/AIDS were seen as more responsible for contracting the disease than those with cancer and thus experience more blame and less help (Weiner et al., 1988). For example, the moral worth of people with AIDS was rated to be lower than those with heart disease or cancer (Hayes et al., 2002). Furthermore, in South Africa, HIV-positive patients reported feeling more stigma than cancer patients (Idemudia and Matamela, 2012). Bloom and Kessler (1994) found that among women undergoing various surgeries, breast cancer patients experienced more emotional support. However, there is a need for more research on attribution, affect, and

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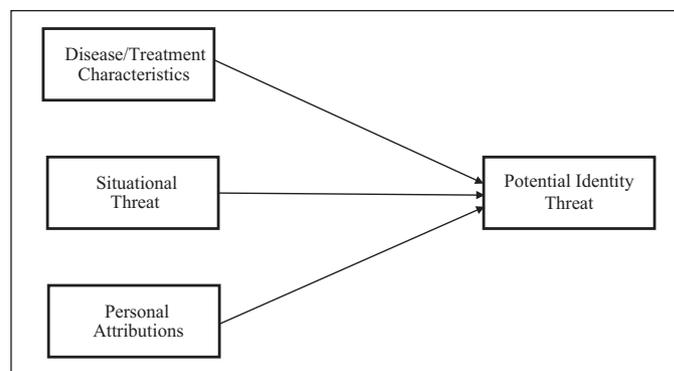


Figure 1. Contributors to identity-threat appraisals in cancer.

Source: Adapted from Major and O'Brien (2005: 398).

willingness to help that reflects changes in attitudes toward different *types* of cancer such as breast, lung, cervical, and colorectal (Else-Quest and Jackson, 2014).

A diagnosis of cancer no longer places an individual into a collectively understood stigmatized category. Rather, the potential stigmatization of cancer depends largely on whether a patient's *identity* is threatened by the diagnosis. Stigma-induced identity threat can be understood as the extent to which one's membership in a potentially stigmatized group is internalized to affect one's sense of *self*. A modern understanding of cancer as a stigma should focus on the "targets' understanding of how others view them, their interpretations of social contexts, and their motives and goals" (Major and O'Brien, 2005: 397). In other words, while past research focused on the disease *itself* as a stigma that affected all individuals the same way, it is now much more appropriate to examine factors surrounding cancer, such as type, visibility, and the likelihood that the disease will interfere with each individual's ability to achieve personal goals or function in social contexts. For many, but not all, cancer patients, stigma is a central force in perceptions of the self (Fife and Wright, 2000) and is often based on distinguishing characteristics that vary by the type of cancer.

Psychologists have a longstanding interest in identity threat in stigmatized groups. Steele and colleagues examined *stereotype threat*, the tension that arises when people are in situations where negative stereotypes for their group apply (Steele, 1997). Crocker et al. (1998) have demonstrated the powerful relationships among attributions, identity threat, and social stigma. Else-Quest and Jackson (2014) recently synthesized research on cancer stigma, emphasizing important changes, and the need for more research that integrates these changes. This review aims to organize this important body of research to form a modified identity-threat model of stigma that can be used to guide contemporary empirical research on cancer stigma, taking into consideration the complexity of the disease and its stigmatization.¹ Cancer affects so many that the National

Cancer Institute (NCI) has recently prioritized applications for research aimed at reducing cancer-related stigma (NCI, 2013).

Major and O'Brien (2005) postulate that *collective representations* of stigma status, *situational cues*, and *personal characteristics* combine to affect the perception of stigma in various social contexts and, in turn, well-being (Major and O'Brien, 2005: 398). The effect of stigma is contingent upon the extent to which identity is threatened by stigmatized status and the resources to cope with it. While this model provides an excellent foundation for understanding the relationship between identity threat and stigma, not all types of cancer can be understood using it. This review suggests an adaptation of this model to address the contributors to identity threat and stigmatization of cancer across the ways in which individuals, situations, and the characteristics of the disease, and/or its treatments, vary (see Figure 1).

Disease/treatment characteristics

An important distinction between cancer patients and other stigmatized individuals is the collective awareness of being part of a stigmatized group. Major and O'Brien's (2005) model includes *collective representations*, a shared understanding of being devalued. However, this may not apply to cancer, as it varies across several *dimensions* of stigma, such as controllability and visibility (Crocker et al., 1998). Patients with a cancer viewed as controllable (e.g. lung cancer), or those with visible treatment side effects, may be more likely to experience identity threat and stigma. Therefore, *disease/treatment characteristics* is a proposed modification of the model of contributors to identity threat in cancer (see Figure 1).

Perceived controllability

Some types of cancer are more likely to be considered controllable. People may use causal attributions to justify

stigmatizing others, and stigmatized individuals may also internalize these attributions. Colorectal and cervical cancer patients report feeling stigmatized due to the perception that their illness resulted from unsavory sexual behavior (Else-Quest and Jackson, 2014). However, lung cancer appears to be most stigmatized as a result of its link with smoking (Marlow et al., 2010), and patients are often blamed for their condition (Chapple et al., 2004). The more controllable a stigma is judged to be, the less willing people are to help (Weiner et al., 1988). In a recent study, those who made causal attributions for cancer were less likely to prioritize funding for lung as opposed to breast cancer (Knapp-Oliver and Moyer, 2012). Reluctance to help may be due to the myth that illness is a deserved punishment (Peters-Golden, 1982). Cancer patients also wonder whether they deserve their illness (Colyer, 1996) and may look to less controllable factors such as environmental toxins (France et al., 2000).

This research has significant implications for anti-stigma interventions. Although the link between smoking and lung cancer is clear, the public may be less aware that there are less controllable risk factors for lung cancer (NCI, 2001).

Visibility

Crocker et al. (1998) also identify visibility as an important predictor of stigmatization that can affect interpersonal interactions and psychosocial well-being. Cancer can become visible as the disease progresses or treatment side effects become obvious (MacDonald and Anderson, 1984; Peters-Golden, 1982). Cancer survivors indicate a poor quality of life due to their appearance, particularly hair loss (McGarvey et al., 2001; Rosman, 2004), and individuals described as having a visible cancer in a context where stigmatization could be perceived as subtle were found to be least likely to receive help (Knapp-Oliver and Moyer, 2009).

Opportunities for cancer patients to take control of, and cope with, the visible consequences of cancer and its treatments require further research. However, the “Look Good, Feel Better” program delivered by volunteer beauty professionals (American Cancer Society (ACS), 2013) has had success. Interventions aimed at coping with the embarrassing side effects of treatment for gynecological and colorectal cancer also hold promise (Carmack et al., 2011; Schofield et al., 2013).

Situational threat

There are few specific situations under which stereotype threat is understood for *all* cancer patients, as with other social stigmas (e.g. African Americans students in standardized testing situations). However, cancer

patients are likely to perceive and internalize stigma in situations where their disease may be a source of identity threat. Although blatant discrimination has become less socially acceptable, more subtle responses such as avoidance, isolation, barriers to treatment, and the possibility of being “outed” remain (Else-Quest and Jackson, 2014).

The workplace

Cancer patients once faced blatant discrimination when returning to the workplace, but better survival rates and new laws have decreased this (Hoffman, 2005). Nevertheless, they still struggle with issues related to functional ability and workplace climate (Compassion in the workplace? Discrimination against an employee with cancer, 2006). There is some support for the notion that side effects of cancer treatments can limit functioning with breast cancer survivors working 2.5 hours less over 2 weeks (Lavigne et al., 2008). However, although cancer patients may be stereotyped as being less productive in the workplace, there is little evidence for this (Feuerstein et al., 2007; Hansen et al., 2008).

When patients experience identity threat in the workplace, one dilemma is whether to reveal a health history to potential employers. Applicants are advised not to volunteer information about their cancer history, but maintain honesty, be aware of legal rights, and to keep the focus on present abilities (Hoffman, 2005). Individuals with cancer are encouraged to inform employers if they anticipate needing accommodations to perform required job tasks.

Although discrimination against cancer patients in the context of hiring has decreased due to legislation (Americans with Disabilities Act, Amendment Acts, 2008), there is still a need to improve the interactions between cancer patients and their coworkers, as well as other people in their social networks. Cancer patients might attempt to improve these relations by adjusting their self-presentation in ways that can increase the amount of social support they receive. Some patients may also find it useful to join support groups.

Interactions with medical providers

Cancer patients seek support from those close to them, but they also look for support from their medical providers. Some research has revealed a discrepancy between what cancer patients need from their providers and what they receive, which leads them to feel stigmatized. Physicians may not focus on side effects and underestimate the impact they will have on patients' lives (Rosman, 2004). Some physicians are critical of self-help groups and may not inform cancer patients and their families of this resource

(Muzzin et al., 1994). Lung cancer patients reported that stigma made it uncomfortable for them to ask their doctors for help (Chapple et al., 2004).

There is an opportunity for psychologists who study patient–provider interaction to make identity threat less likely for cancer patients in a medical setting. Psychosocial interventions may improve communication between medical providers and cancer patients, either by removing barriers to communication for patients (Sepucha et al., 2002) or by improving doctors' communication skills (Back, 2006).

Interactions with caregivers

There has been a shift in care for cancer patients in recent years. Improvements in medicine and technology have resulted in individuals with cancer living longer, even with advanced-stage disease (Hazelwood et al., 2012). Coupled with the transfer in clinical care from inpatient to outpatient settings, these movements have brought the cancer caregiver to the forefront of the care team (Van Ryn et al., 2011).

Caregivers for cancer patients experience psychological, social, spiritual, and physical burden as a result of their role (Skalla et al., 2013). They report elevated rates of anxiety, depression, and guilt, as well as temporal and financial strain (Applebaum et al., 2013). Having to assume additional responsibilities such as domestic tasks and the patients' activities of daily living often prevent caregivers from engaging in their own self-care leading to cardiovascular disease (Schneiderman et al., 2012), insomnia (Skalla et al., 2013), and even premature death (Christakis and Allison, 2006).

Caregiver burden can also have an effect on cancer patients and their internalization of stigma. More stigmatized types of cancer are linked to poorer quality of care; for example, caregivers of lung cancer patients who were smokers report being more likely to blame them for their current situation (Lobchuk et al., 2008 as cited in Else-Quest and Jackson, 2014). This blame, when internalized, could result in shame and identity threat for the cancer patient. More efforts should be made to prevent caregiver burden and improve the relationship between cancer patients and their caregivers.

Media and cultural/social group beliefs

The media can serve as a helpful resource for disease-related information. An increasing number of patients are turning to the Internet and social media for information and treatment decision-making (Hesse et al., 2005; Silk et al., 2013). For example, some cancer patients use their Twitter accounts to discuss treatment options and psychological support (Sugawara et al., 2012). However, patients from lower-income or education groups report that they do not trust or use the media for health information (Ramanadhan

and Viswanath, 2006) and, compared to White patients, patients from ethnic minority backgrounds reported feeling anxious or confused after conducting searches or frustrated that services were not applicable to them when using the Internet for information on breast cancer (Littlechild and Barr, 2013).

The media can provide threatening information for people experiencing cancer and, unfortunately, this is difficult to monitor and control. Lung cancer patients reported that television advertisements perpetuated the link between lung cancer and smoking, causing them to feel “dirty and blameworthy” (Chapple et al., 2004). In newspaper articles, cancer was often found to be portrayed as a positive life event, and this idealized view may have negative implications for those undergoing debilitating treatments (Kromm et al., 2007). Furthermore, metaphors depicting cancer as a “battle” may result in more stigmatizing attitudes and perceptions of individuals with cancer than metaphors depicting cancer as a “race” or “journey” (Knapp-Oliver et al., 2010). Some suggest that training for journalists can help with reducing stigma (Daher, 2012).

Cancer patients might also encounter stigmatization from their cultural or social groups. African Americans were found to follow a code of silence about their diagnosis due to the stigma in their community (Shankar et al., 2002). Elderly cancer patients may receive less appropriate care as a result of stigmatization, putting them at a disadvantage physically and psychologically and contributing to the likelihood of a threatened identity. For example, daily pain has been found to go untreated, especially among older or minority cancer patients (Bernabei et al., 1998).

Messages in the media are difficult to change, but more research is being done on the ethics of public health communications. Guttman and Salmon (2004) suggest that ethical analyses be applied to public health communications to avoid the inadvertent labeling and stigmatizing of patients.

Personal attributions

Personal attributions for the contraction of, and coping with, cancer influence how stigma-related identity threat is appraised. Major and O'Brien (2005) identify *stigma sensitivity*, *group identification*, *domain identification*, and *goals and motives* as relevant personal characteristics. Cancer patients make attributions about the extent to which the *control* for their diagnosis, coping, or outcomes lie within themselves or their external environment. This can be applied within the context of the personal characteristics described by Major and O'Brien (2005).

Stigma sensitivity

Individuals differ in their sensitivity to being stigmatized (Major and O'Brien, 2005). Pinel (1999) characterizes this sensitivity as *stigma consciousness*, the tendency for

potential targets of stigmatization to differ in their *expectations* of being stigmatized. These expectations then predict their behavior in social contexts; those with high stigma consciousness will expect and perceive more discrimination in their environments and will be less likely to attempt to break down stereotypes about their group than those with low stigma consciousness. While this phenomenon could protect an individual's self-esteem in the short term (i.e. by attributing any fault to one's stigma category rather than to the self), it also works to perpetuate these *expected* stereotypes (Pinel, 1999). For example, in a study where females with high stigma consciousness expected males to be prejudiced against them because of their gender, they acted negatively toward them, eliciting negative responses from the males, and perpetuating the females' expectations and behavior toward the males in the study (Pinel, 2002).

While research is lacking in the area of stigma sensitivity among cancer patients, there is evidence that a similar relationship exists between expectations of stigma and behavior. This can be seen in cancer patients who lose their hair due to chemotherapy. Alopecia is one of the most identifiable signs that an individual has cancer (Else-Quest and Jackson, 2014). In a sample of breast cancer patients, some felt that their sense of self and identity was threatened by this side effect (Boehmke and Dickerson, 2005). Other patients embraced this indicator of their new identity as a "badge of honor." Perhaps, the patients experiencing threat had a high stigma consciousness and responded to the perceived identity threat with fear and expectations of avoidance from others, while those who wore their baldness as a "badge of honor" had a low stigma consciousness and sought to break down the stereotypes of cancer patients as "sick" or "weak" due to the fact that they experience alopecia. Patients who have a higher sensitivity, or consciousness, about being stigmatized due to their cancer may experience more identity threat than those who are less sensitive or conscious.

It is also important to note that stigma sensitivity due to a physical illness such as cancer differs from other social stigmas. Those linked to race or gender are present at birth and are embodied for a lifetime. In contrast, cancer patients suddenly move to a stigmatized status upon diagnosis. Also, one's race or gender is visually and cognitively salient, whereas cancer can often be concealed. These differences may represent unique challenges that cancer patients face when reacting to stigmatization.

Stereotype identification

Individuals whose stigmatized social identity is highly central to their self-identity are more likely to perceive discrimination (Major and O'Brien, 2005). As aforementioned, cancer is a unique stigma; there is no collective understanding that having cancer places one in a unified, stigmatized category or group. However, cancer patients differ in the

extent to which they allow their social identity as a cancer patient to be internalized as part of their self-identity, and this may be dependent on well-established social stereotypes including cancer as fearful, cancer as fatal, and cancer as taking control over one's life. Those who identify with these stereotypes may identify more with their social identity as a cancer patient and experience more identity threat.

Fear. Despite advances in understanding the causes, treatments, and outcomes of cancer, it remains one of the most feared illnesses (Else-Quest and Jackson, 2014). Cancer patients worry about how their life may change following diagnosis (Colyer, 1996), including changes in appearance (Reid, 1997) and the threat of recurrence (Atkinson et al., 2013). For example, some have observed the "Damocles Syndrome" in survivors of childhood cancer who have adjustment problems as adults due to their fear of cancer returning (Koocher and O'Malley, 1981; Muzzin et al., 1994). A meta-analysis found that cancer survivors reported low-to-moderate levels of fear of recurrence, and it was rated among the greatest concerns (Simard et al., 2013). Higher fear of recurrence predicted lower health-related quality of life (Van Liew et al., 2013).

Although social support is critical for cancer patients and survivors (Egestad, 2013), fear may often interfere with their ability to receive support. In a study investigating the role of social support in the cancer experience, Peters-Golden (1982) interviewed women with primary breast cancer and cancer-free individuals regarding their perceived (or anticipated) social support (if they had cancer). An intense fear of cancer resulted in avoidance and low social support for those with cancer. Fear of others' negative reactions can result in maladaptive behaviors, such as a reluctance to discuss one's diagnosis and seek social support or medical assistance when needed (Shankar et al., 2002). Similarly, fear of inducing anxious reactions from loved ones may cause patients to avoid divulging their fears of recurrence (Waldrop et al., 2011).

Cancer fatalism. Cancer fatalism is the belief that cancer will lead inevitably to death. Cancer fatalism can hinder engaging in cancer prevention practices and screening (Hall et al., 2008) and may be common in certain ethnic and socioeconomic status groups (Befort et al., 2013; Jun and Oh, 2013; Powe et al., 2009). These beliefs are prevalent in African American populations, and interventions have been designed to increase knowledge about cancer screening and decrease fatalistic beliefs (Morgan et al., 2010).

Loss of personal control. Cancer results in a loss of personal control (Björklund et al., 2008). Since cancer attacks one's control over physical well-being, including one's own mortality, some patients will exert control over their emotions in an attempt to control something (Muzzin et al., 1994).

This phenomenon was also revealed in interviews with six men diagnosed with breast cancer (France et al., 2000). The feeling of shock at diagnosis was replaced with the impulse to “get on with it,” and focus on the practical and financial matters. Similarly, women with cancer in a sexual organ reported channeling the negative energy brought about by fear into “living creatively with dying” (Colyer, 1996: 498).

One area of research explores the extent to which patients attempt to gain personal control over the way that others perceive them through self-presentation. Silver et al. (1990) placed participants into conditions where they listened to scripted depictions of the same cancer patient. If the patient portrayed herself as a “balanced copier” or a “good copier,” participants responded more favorably to her as compared to the “poor copier.” Thus, interventions might teach patients to present themselves so as to minimize avoidance (Silver et al., 1990). Support groups are another way that patients attempt to increase personal control by supporting, and being supported by, others going through similar experiences. It is important to note that support groups are useful for many, but not all, cancer patients (Smith et al., 2013). Patients report entering support groups because they feel stigmatized and helpless, and believe that these groups provide a safe place with others who are going through similar challenges (Cella and Yellen, 1993). However, feelings of fear and uncertainty may arise when patients are exposed to others who are coping poorly (Helgeson and Cohen, 1996).

Domain identification

Individuals who identify strongly with domains in which their group is negatively stereotyped are more likely to see feedback in those domains as self-relevant and potentially threatening (Major and O’Brien, 2005). For example, studies on stereotype threat use situations where academic achievement is salient for African Americans (Steele, 1997). However, cancer, as of yet, has not been associated with specific situations where patients are stigmatized as a group. This is an area that could benefit from further research. Some situations that might be challenging for cancer patients include dating and planning for the future. For example, on a first date, cancer survivors might feel anxious about whether to disclose their health status. Similar to the effects of stereotype threat, such feelings may sabotage the development of a relationship.

Goals and motives

Goals and motives influence how individuals perceive and appraise situations (Major and O’Brien, 2005). People are more likely to perceive an evaluator as prejudiced against their group if they receive negative feedback from them (Major and O’Brien, 2005). This relates to two common reactions to people with cancer, ambiguity, and

avoidance. People are also motivated to believe that the world is just and that people are fairly treated (Major and O’Brien, 2005). This relates to how likely those interacting with cancer patients are to stigmatize and also how likely cancer patients are to blame themselves for being stigmatized.

Ambiguity and avoidance. A cancer diagnosis creates ambiguity and uncertainty about how to behave around a person who has a new and unfamiliar identity (Goffman, 1963). For instance, friends and neighbors of children with chemotherapy-related hair loss feel embarrassed and unsure about how to be supportive (Reid, 1997). This discomfort can lead to avoidance or behaviors perceived to be unsupportive. In a study in women with early-stage breast cancer, overtly critical or avoidant responses by significant others were predictive of patients’ poor coping and distress (Manne et al., 2005). In contrast, in a study of patients with rectal cancer, half of the sample reported some degree of stigmatization, but only 4 percent reported that they felt others were avoiding them (MacDonald and Anderson, 1984). This inconsistency could be explained by the fact that the decision to avoid individuals with cancer varies according to how vulnerable an outsider may feel when faced with their own fear of cancer, and need to control to what happens in their own lives (Else-Quest and Jackson, 2014).

Beliefs in a just world and self-blame. People differ in their judgments of how fair the world is and the extent to which people get what they deserve (Rubin and Peplau, 1973). Just world beliefs held by others can be maladaptive to cancer patients. According to terror management theory, people are motivated to avoid facing their own vulnerability and mortality as a means to reduce anxiety and enhance self-esteem (Rosenblatt et al., 1989). Furthermore, people are reluctant to believe that they live in a tragic world and thus resort to blaming victims (Janoff-Bulman, 1992). For those motivated to believe in a just world, “if the victim can be blamed for what happened, then the world is not a random, malevolent, meaningless place” (Janoff-Bulman, 1992: 149). Unfortunately, this attempt at self-protection can result in a derogation of cancer patients.

Just world beliefs can also affect the way that individuals evaluate their own experience with cancer. Individuals who find themselves suddenly suffering from a disease or tragedy that cannot be explained through their own behavior, and thus cannot be explained by blaming oneself for the diagnosis, may feel helpless and/or powerless (Bloom and Spiegel, 1984). In a study on self-blame and its relationship to distress in breast cancer patients, both behavioral and characterological self-blame were related to distress for up to a year following diagnosis, suggesting that blaming oneself for a cancer diagnosis is maladaptive (Bennett et al., 2005). In a study assessing self-blame in a sample of men

with colorectal cancer, 25 percent believed that it was at least a little bit true that they were responsible for their cancer. Furthermore, self-blame was significantly associated with depressive symptoms (Phelan et al., 2013). However, self-blame may at least help a patient to find meaning in their cancer. Buick (1997) explains that breast cancer patients consistently identify seven causal theories which include themselves, stress and extreme worrying, marital discord, lack of expressing emotions, change, and hazards in the environment. Such explanations are not necessarily maladaptive, but may actually provide a sense of control over cancer (Buick, 1997).

The *personal attributions* component may benefit the most from empirical studies using an identity-threat model of stigma. There are several clinical implications for applied use of these concepts, including various types of psychosocial interventions that aim to reduce depression, distress, and other potential negative psychological consequences of having cancer (Clark, 2010; Guo et al., 2013; Newell et al., 2002; Tatrow and Montgomery, 2006). Incorporating elements related to reducing fear of cancer, cancer fatalism, and loss of control related to cancer's stigma in these interventions may provide further benefits.

Conclusion

Cancer is a label given to several different diseases with the potential to carry a stigma. A modified version of contributors to the stigma-induced identity-threat model created by Major and O'Brien (2005) provides a framework for understanding and organizing the ways in which the stigma associated with cancer differs from other social stigmas (see Figure 1). When describing the stigma attached to cancer, we suggest that considering *disease/treatment characteristics*, such as perceived controllability and visibility, is more applicable than the general *collective representations* component of Major and O'Brien's model. Furthermore, the components *situational threat* and *personal attributions* allow individuals with 1 of 100 different types of cancer to vary in the way they appraise potentially threatening cues in various situations (e.g. in the workplace, social interactions/contexts, and the media) and the way that cancer causes, characteristics, and outcomes are attributed (i.e. through stigma sensitivity, goals and motives, group identification, or domain identification). Although the stigma attached to cancer is more subtle than it was in the past, it can still result in identity threat and holds the power to affect the well-being of cancer patients. Attention to stigmatizing aspects of cancer and its treatment could be fruitfully focused upon in future research and in the design of psychosocial interventions. Future research should prioritize the investigation of empirical studies to test the practical use of this theoretical model of cancer stigma.

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The authors declare that there is no conflict of interest.

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