Prevalence, risk factors, and the desire for help of distressed newly diagnosed cancer patients: A large-sample study*

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ABSTRACT

Objective: Beginning in 2007, all newly diagnosed cancer patients at the Koo Foundation Sun Yat-Sen Cancer Center (KF–SYSCC) were screened for psychosocial distress. Our social workers, as part of the psychosocial care team (PCT), have engaged in proactive outreach with patients identified as distressed. The goal of the present study was to assess the prevalence of psychosocial distress and the extent of contact between the PCT and distressed patients.

Method: Newly diagnosed patients who were treated at KF–SYSCC between 2007 and 2010 for cancer were eligible if there were at least 100 patients with the same type of cancer. Before treatment began, they were screened with the Pain Scale and the Distress Thermometer (DT) and had the option to specify a desire for help. The rates of distress were analyzed by cancer type and by probable related factors. Information regarding contact with the PCT was retrieved from computerized databases.

Results: Overall, some 5,335 cancer patients representing 12 major cancer types were included in our study. Of these, 1,771 (33.20%) were significantly distressed. By multivariate logistic regression, younger age, female gender, higher pain score, and disease stage, but not cancer type, were found to be associated with higher rates of distress. Among these distressed patients, 628 (36%) had some contact with the PCT.

Significance of results: This Taiwanese study with a large sample size revealed a prevalence rate of psychosocial distress similar to rates found in Western countries. Contact with the PCT was established in only 36% of significantly distressed patients, despite a proactive outreach program. It is very important to have screening results made available in a timely fashion to the psycho-oncology team so that appropriate care can be offered promptly.

KEYWORDS: Distress, Risk factors, Desire for help, Psycho-Oncology, Psychosocial care team

INTRODUCTION

It has been well documented that the rates of psychosocial distress in cancer patients at different stages of their treatment are high and that psychosocial interventions can be effective (NCCN, 2003; Kissane et al., 2007; Institute of Medicine, 2008; Watson & Kissane 2011; Moorey & Greer, 2012; Moorey,
The prevalence of distress has been estimated to be between 25 and 47% in Western countries (Derogatis et al., 1983; Farber et al., 1984; Stefanek et al., 1987; Zabora et al., 2001; Carlson et al., 2004; Kendall et al., 2011; Dolbeault et al., 2011; Gunnarsdottir et al., 2012; Chambers et al., 2014). Distress prevalence in Asian countries has been reported to range from 30 to 50% (Uchitomi et al., 2003; Akechi et al., 2004; Akizuki et al., 2005; Lam et al., 2007; Shim et al., 2008; Wang G et al., 2011; Wang Y et al., 2013). The difference in prevalence rates may be related to the screening tools employed and the populations involved. The sample sizes in most of these studies were relatively small—between 100 and 450. There were a few exceptions. The first was the landmark study by Zabora and colleagues (2001), who utilized the 53-item Brief Symptom Inventory (BSI) on newly diagnosed cancer patients at an oncology center in the United States with a sample size of 4,496 over a period of 6 years. The overall prevalence rate of distress for newly diagnosed cancer patients was found to be 35.1%, with a range of 29.6–43.4%. Three other studies utilizing the BSI−18 or the Distress Thermometer (DT) on more than a thousand patients reported a distress prevalence rate of 32–44% (Carlson et al., 2004; Kendall et al., 2011; Grassi et al., 2013).

Many of these studies demonstrated that gender, age, types of cancer, stage of diseases, pain, physical problems, social support, past psychiatric history, and financial stress are risk factors for psychosocial distress (Chen et al., 2000; Zabora et al., 2001; Carlson et al., 2004; Grassi et al., 2013; Sharp et al., 2013).

Despite strong recommendations from the National Comprehensive Cancer Network (NCCN) and Institute of Medicine, routine screening for distress has not been offered in the majority of cancer care organizations in the U.S. (Deshields et al., 2013). After the distress screening, most distressed patients elected not to seek help (Carlson et al., 2004). The levels of desire for help with distress were found to be low between 12% and 36% (Söllner et al., 2004; Graves et al., 2007; Baker-Glenn et al., 2011; Clover et al., 2013; Dubrulle et al., 2015). The rates of referral acceptance by the distressed patients were found to be even lower: most of the studies reported rates between 17.8% and 28.2% (Shimizu et al., 2005; Shimizu et al., 2010; Ito et al., 2011; Bauwens et al., 2014). However, the distress screening was found to contribute to the earlier start of psychiatric treatment (Ito et al., 2011). Routine screening for distress followed by personalized triage also resulted in more benefits for patients (Carlson et al., 2013). In order to facilitate referral acceptance, it has been recommended that patients should be asked whether they want to be referred for additional psychosocial care (Tuinman et al., 2008; Ryan et al., 2012; Bauwens et al., 2014).

The DT, with acceptable validity, has been recommended by the NCCN for screening of psychosocial distress (NCCN 2003; Jacobson et al., 2005; Bultz et al., 2006; Holland et al., 2011). It has been widely utilized internationally (Khatib et al., 2004; Jacobson et al., 2005; Akizuki et al., 2005; Ozalp et al., 2007; Shim et al., 2008; Lam et al., 2007; Holland et al., 2011; Wang et al., 2011; Dolbeault et al., 2011; Carlson et al., 2012; Gunnarsdottir et al., 2012; Wang et al., 2013). At this Cancer Center (KF-SYSCC), the DT, including the Problem List (PL), has been used to screen distress for all new outpatients since 2007. When patients are identified as significantly distressed and express the desire for help from our Psychosocial Care Team (PCT), our social workers would initiate telephone or personal contact with them. When needed, patients were referred for further appropriate assessment and treatment. The PCT consists of 8 social workers, 1 clinical psychologist and 3 psychiatrists. Other resources include 2 spiritual counselors and 95 volunteers, who provide individual and/or group support.

The goal of this study was to assess, in a sizable sample, the prevalence of psychosocial distress among different cancer types and the probable related factors. We also retrospectively assessed the extent of contact established between the distressed patients and the PCT. We hypothesized that the prevalence of distress would be similar to that reported in Western countries; ethnic and cultural elements might affect the risk factors and psychosocial care patterns; and rates of contact with the psychosocial care team might be higher than reported by previous studies because of the initial outreach by our social workers.

METHODS

Data Collection

We retrieved data from the health information system at KF−SYSCC. Our cancer registry provides information about gender, age, cancer diagnosis, cancer site, cancer stage, date of cancer diagnosis, and cancer treatment received. Information on contact with the psychosocial care team (PCT)—including psychiatric consultations, outpatient visits, and psychologist visits—was obtained from registry data. There is a hospital information system at our cancer center that provides computerized physician order entry, imaging reports, laboratory and pathology reports, surgical records, and outpatient physician notes. The DT and pain scores were collected from this system.
Study Population and Eligibility

Data on all newly diagnosed cancer patients treated at KF–SYSCC between 2007 and 2010 who fit the following criteria were retrospectively collected for our study:

1. A cancer diagnostic category that had a sample size ≥ 100 in our study period (a total of 12 cancer types were selected).
2. Age 18 or older.
3. DT screening performed within 90 days of the diagnosis and before any treatment for that diagnosis.

Patients were approached by the nursing staff at the outpatient clinic to complete the Pain Scale and the DT/PL screening, along with an additional yes-and-no question: “Would you like to receive help from our psychosocial care team?” The questionnaires were collected at the outpatient clinic or sent in by mail from patients to the Department of Social Services.

Screening Tools/Questionnaires

DT screening is a self-report questionnaire that gathers information on the level of a patient’s distress during the past 7 days on a scale of 0 to 10, with 0 = no distress and 10 = extreme distress. It includes a Problem List, which consists of 39 questions about physical, practical, family, emotional, and spiritual/religious problems. The cutoff score for DT screening was set at ≥4, based on a previous study at our cancer center (Wang et al., 2011). The pain score also used a 0–10 scale, with 0 = no pain and 10 = unbearable pain. According to previous studies (Tanaka et al., 2002; Gerbershagen et al., 2011), a pain score ≥4 is considered moderate, which nevertheless requires intervention.

Statistical Analysis

We conducted a descriptive analysis of the demographic variables (gender, age) of the sample and the timing of screening. Rates of distress (percentage with a DT score ≥4) were summarized according to cancer type and such probable related factors as gender, age, disease stage, and pain score. In the univariate analyses, Pearson chi-square tests and an unadjusted p value were employed to demonstrate associations between prevalence rates of distress and categorical risk factors (gender, age, cancer type, cancer stage, and pain score). A stepwise logistic regression was also performed to fit the final model of distress, and adjusted p values were obtained. Information regarding patient contact with the PCT was retrieved from the computerized databases. We calculated the number of patients contacted by the PCT and plotted the timing of these contacts after DT screening. A value of p < 0.05 was considered to be statistically significant in all our analyses.

Ethical Considerations

The institutional review board at KF–SYSCC approved analysis of these data as a quality-improvement evaluation of clinical services and thus waived the requirement for obtaining informed consent from individual patients.

RESULTS

From the first day of 2007 to the last day of 2010, there were 5,770 newly diagnosed cancer patients seen at the outpatient clinic who had follow-up oncology treatment at our cancer center: 8 were excluded for being younger than 18, and 427 were excluded because the number of cases for their cancer type did not reach the inclusion criteria (≥ 100 cases). Therefore, 5,335 newly diagnosed cancer patients representing 12 major cancer types were included in our study. Some 61.5% of our sample were women, which directly correlates with the breast cancer program, the largest program at our cancer center. Patient ages ranged from 18 to 96 years, with a mean of 53. The duration between cancer diagnosis and DT assessment ranged between 0 and 90 days (mean = 14.1 days, SD = 13.6 days). The 10th and 90th percentiles for duration were 0 and 30 days, respectively (Table 1).

Overall, 1,771 (33.20%) patients were found to be significantly distressed, with a DT score ≥4. The prevalence rate varied from 22 to 36% among cancer types. Esophageal, breast, nasopharyngeal, gastric, thyroid, and lung cancers showed higher rates, while prostate and bladder cancer had the lowest. The differences were moderate (Figure 1).

Pearson chi-square tests for associations revealed that female gender, younger age, and higher pain score were associated with higher rates of distress, while stage of disease was not. However, when the stepwise logistic regression was performed, the final model identified four variables that met the p < 0.05 significance level for entry into the model: female gender, younger age (< 53 years), pain score ≥4, and stage 4 disease were statistically associated with distress (by adjusted p value, Table 2).

Among the 1,771 significantly distressed patients who were willing to receive assistance from the PCT, 628 (36%) established contact: 352 (20%) with only social workers, 206 (12%) with only psychiatrists, and 70 (4%) with both social workers and psychiatrists. As a result, of all the significantly distressed patients, 422 (24%) had contact with social workers and 276 (16%) with psychiatrists (Figure 2).
The vast majority of these patients (up to 86%) had contact with social workers within 30 days of screening, as the social workers had made the initial effort to reach out to most of them. Visits to psychiatric staff were spread out over a year, with only 52% within the first three months (Figure 3).

**DISCUSSION**

**Prevalence of Distress and Associated Factors**

Our study revealed that between 22 and 36% of newly diagnosed cancer patients are significantly distressed. As we had hypothesized, these results are similar to those reported in Western countries (Zabora et al., 2001; Carlson et al., 2004; 2012). There are moderate differences in prevalence rates among different cancer types. The rate of significant distress was positively associated with younger age, female gender, and higher pain score, and somewhat with stage of disease. The weak association between disease stage and rate of distress may be partially due to cultural factors and family relationships. It has been observed that a good portion of the Asian patient population may be informed only of their diagnosis and not of the stage of their illness, or their prognosis. Usually, only family members are fully apprised of a patient’s condition (Tang & Lee, 2004; Li et al., 2012). This cultural factor associated with truth-telling practices will affect a patient’s subsequent emotional response to distress.

Our univariate analysis showed that the prevalence of distress varies from one cancer type to another. However, the multivariate logistic regression conducted on type III analysis of effects based on the Wald test showed that cancer type was not statistically significant ($p = 0.20$). This indicates that, after controlling for gender, age, disease stage, and pain score, cancer type was not associated with a difference in prevalence of distress. The difference in DT score by cancer type seen in the univariate table is not statistically significant.

**Table 1. Gender, age, and timing of DT assessment for the prevalence sample (N = 5,335)**

<table>
<thead>
<tr>
<th>Gender</th>
<th>Female</th>
<th>3,282 (61.5%)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Male</td>
<td>2,053 (38.5%)</td>
</tr>
<tr>
<td>Age</td>
<td>Mean</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td>Range</td>
<td>18−96</td>
</tr>
<tr>
<td>Days after cancer diagnosis</td>
<td>Mean</td>
<td>14</td>
</tr>
<tr>
<td>(when DT was assessed)</td>
<td>Range</td>
<td>0−90</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Number of patients</th>
<th>DT ≥ 4</th>
<th>DT &lt; 4</th>
<th>Unadjusted p value&lt;sup&gt;a&lt;/sup&gt;</th>
<th>Adjusted p value&lt;sup&gt;b&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>All patients</td>
<td>5335 (100%)</td>
<td>1770 (33.2%)</td>
<td>3565 (66.8%)</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td><strong>Gender</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>2053 (38.5%)</td>
<td>589 (28.7%)</td>
<td>1464 (71.3%)</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>Female</td>
<td>3282 (61.5%)</td>
<td>1181 (36.0%)</td>
<td>2101 (64.0%)</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td><strong>Age</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&lt;53</td>
<td>2626 (49.2%)</td>
<td>985 (37.5%)</td>
<td>1641 (62.5%)</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>≥53</td>
<td>2709 (50.8%)</td>
<td>785 (29.0%)</td>
<td>1924 (71.0%)</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td><strong>Stage 4 disease</strong></td>
<td></td>
<td></td>
<td></td>
<td>0.13</td>
</tr>
<tr>
<td>No</td>
<td>4202 (78.8%)</td>
<td>1373 (32.7%)</td>
<td>2829 (67.3%)</td>
<td>0.049</td>
</tr>
<tr>
<td>Yes</td>
<td>1133 (21.2%)</td>
<td>397 (35.0%)</td>
<td>736 (65.0%)</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td><strong>Pain score</strong></td>
<td></td>
<td></td>
<td></td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>&lt;4</td>
<td>4832 (90.6%)</td>
<td>1522 (31.5%)</td>
<td>3310 (68.5%)</td>
<td>&lt;0.001</td>
</tr>
<tr>
<td>≥4</td>
<td>503 (9.4%)</td>
<td>248 (49.3%)</td>
<td>255 (50.7%)</td>
<td>0.003</td>
</tr>
<tr>
<td><strong>Cancer type</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Breast</td>
<td>2032 (38.1%)</td>
<td>726 (35.7%)</td>
<td>1306 (64.3%)</td>
<td>0.003</td>
</tr>
<tr>
<td>Colorectal</td>
<td>589 (11.0%)</td>
<td>187 (31.8%)</td>
<td>402 (68.3%)</td>
<td>0.003</td>
</tr>
<tr>
<td>Lung</td>
<td>436 (8.2%)</td>
<td>144 (33.0%)</td>
<td>292 (67.0%)</td>
<td>0.003</td>
</tr>
<tr>
<td>Oral</td>
<td>403 (7.6%)</td>
<td>131 (32.5%)</td>
<td>272 (67.5%)</td>
<td>0.003</td>
</tr>
<tr>
<td>Prostate</td>
<td>369 (6.9%)</td>
<td>94 (25.5%)</td>
<td>275 (74.5%)</td>
<td>0.003</td>
</tr>
<tr>
<td>Gynecological</td>
<td>342 (6.4%)</td>
<td>110 (32.2%)</td>
<td>232 (67.8%)</td>
<td>0.003</td>
</tr>
<tr>
<td>NPC</td>
<td>337 (6.3%)</td>
<td>119 (35.3%)</td>
<td>218 (64.7%)</td>
<td>0.003</td>
</tr>
<tr>
<td>Stomach</td>
<td>213 (4.0%)</td>
<td>75 (35.2%)</td>
<td>138 (64.8%)</td>
<td>0.003</td>
</tr>
<tr>
<td>Lymphoma</td>
<td>198 (3.7%)</td>
<td>55 (27.8%)</td>
<td>143 (72.2%)</td>
<td>0.003</td>
</tr>
<tr>
<td>Esophagus</td>
<td>162 (3.0%)</td>
<td>58 (35.8%)</td>
<td>104 (64.2%)</td>
<td>0.003</td>
</tr>
<tr>
<td>Bladder</td>
<td>129 (2.4%)</td>
<td>28 (21.7%)</td>
<td>101 (78.3%)</td>
<td>0.003</td>
</tr>
<tr>
<td>Thyroid</td>
<td>125 (2.3%)</td>
<td>43 (34.4%)</td>
<td>82 (65.6%)</td>
<td>0.003</td>
</tr>
</tbody>
</table>

<sup>a</sup>Unadjusted p value: chi-squared test.
<sup>b</sup>Adjusted p value: logistic regression.
analysis can be accounted for by differences in gender, age, disease stage, and pain score.

Contacts with the PCT

In our study, the PCT established contact with up to 36% of distressed patients, which exceeds the higher range of most of previously reported rates of referral acceptance of 17.8–28.2% (Shimizu et al., 2005; 2010; Ito et al., 2011; Bauwens et al., 2014). One exception was a study that reported an acceptance rate of 46.8% in 284 distressed patients referred to a psycho-oncology service by oncology staff (Grassi et al., 2011). In that study, the staff were first trained through seminars, including webcast lectures, on the psychosocial aspects of cancer care, emotional distress, and the use of the DT/PL. This may have contributed to the much higher referral acceptance rate. However, there are reviews that discourage confidence in significant changes in clinical practice being delivered by simple educational interventions (O’Brien et al., 2007; Forsetlund et al., 2009; Bauwens et al., 2014).

Our results with a higher rate of contact with the PCT are partly related to the fact that our social workers proactively made phone contacts with distressed patients who had expressed a willingness to receive assistance from the team. After the initial phone call, social workers would arrange for personal or phone interviews. If necessary, patients could be referred to a psychiatrist, a clinical psychologist, or a spiritual counselor for further care. However, there was a small percentage of distressed patients who requested a meeting with social workers through referrals from the attending oncologists or due to their need for assistance with financial or other practical problems. This type of contact with social workers was estimated to be below 5% of the 24% of distressed patients who had contact with social workers.

In terms of psychiatric contacts, our finding of 16% is comparable to two previous studies conducted in Japan (Shimizu et al., 2010; Ito et al., 2011). Ito
and colleagues (2011) reported that, of 520 patients who started chemotherapy during a 6-month period, 26 (5%) were seen for psychiatric assessment and treatment. The number of patients screened positive for distress was 146 (of a total of 441 screened), yielding a distress rate of 33.1%. All patients who screened positive were recommended for a consultation with psychiatric services. Therefore, the referral acceptance rate was 17.8% (26/146). In another study, Shimizu and coworkers (2010) reported that 25% of distressed patients received psychiatric visits. This higher rate appeared to be related to the fact that they had made every effort to schedule psychiatric appointments on the same day as the screening.

It is worth noting that contact with social workers occurred mostly within 30 days of their diagnosis, but only half of the visits to psychiatrists took place within the first 3 months. This may be due to the fact that most of patients were preoccupied with the immediate need for medical and physical management of their illness. Seeking psychiatric/psychological help can be stigmatic, or it may not be at the top of a distressed patient’s priority list. Many distressed patients may prefer self-help, may fail to consider their problems serious, or are already in therapy for their distress (Wang et al., 2009; Clover et al., 2013; 2015). Our patients were screened weekly during all their hospital stays (for surgery or other treatments). If repeated screening showed significant distress, it could lead to further psychiatric referrals, which could be better accepted as the processes of medical treatment evolved. This may also explain why visits to the psychiatric staff were spread out in the months following their cancer diagnosis.

**STRENGTHS AND LIMITATIONS**

One of the strengths of our study is its large sample size. The sample sizes of most previous studies on distress have ranged between 100 and 450. There were four studies that had sample sizes greater than 1,000. The first was reported by Zabora et al. (2001), with a sample size of 4,496. The second study used the BSI–18 on all outpatients at all treatment stages at a tertiary cancer center in Canada and had a sample size of 2,276 over a period of 4 weeks. They reported that 37.8% of their cancer patients were distressed (Carlson et al., 2004). The third and fourth studies utilized the DT to assess cancer outpatients. The third screened outpatients during their first visit to the medical/radiation oncology clinic at a community cancer center in the United States. Of the 1,281 screenings collected over a period of 9 months, 32% rated distress above the threshold (DT ≥ 4) (Kendall et al., 2011). The fourth, a multi-center nationwide study in Italy conducted during an index week at all centers, screened 1,108 newly diagnosed outpatients with cancer over a 2-day period. Some 47% of these patients fulfilled the criteria for distress when the DT cutoff was set at ≥4, and 33% when the cutoff was ≥5 (Grassi et al., 2013).

The weakness of our study is that it is retrospective in nature. The sample consisted only of patients who chose to start treatment at our cancer center, which amounted to about 60% of all new cancer outpatients. Up to 40% of the patients in our study had already received a cancer diagnosis or had been informed that they might have cancer when they first came to the clinic. Some may have gone “hospital shopping,” thus delaying initiation of treatment, as about 10% of the sample was screened more than 30 days after their diagnosis. Another weakness is that this is a single-institution study. Caution is required when generalizing our results to other oncology settings.

**CLINICAL IMPLICATIONS**

Our rate of contact with the PCT by distressed patients is relatively high among this type of study, but it could be even higher if it weren’t for the low return rate of questionnaires, as many were not completed immediately during outpatient clinic visits. This led us to initiate a new program using electronic devices where patients could complete questionnaires on a touch screen, so that the results could be made available to the staff on a real-time basis, which will hopefully lead to prompt and appropriate delivery of psychosocial care for distressed patients.

**CONCLUSIONS**

Screening for psychosocial distress in newly diagnosed cancer patients at KF–SYSCC revealed that as many as a third of patients were significantly distressed, with up to 36% identified as distressed making contact with the PCT. Most patient contacts with social workers occurred within a month of screening. However, only half of the initial psychiatric visits were made within the first three months. Engaging family members while assessing patients would be a very important approach for Asian patients, because the family plays such a key role in the patient’s perception of and ability to cope with their illness. A patient’s follow-up contact with the psychosocial care team, especially with the psychiatric staff, should be closely monitored to facilitate timely intervention. Further studies are needed to evaluate the outcome of routine screening of psychosocial distress, of follow-up assessments, and of interventions.
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Distressed newly diagnosed cancer patients


