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#### ORIGINAL RESEARCH

# Distress prior to undergoing hematopoietic stem cell transplantation: demographic and symptom correlations and establishing a baseline

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<sup>1</sup>Department of Physical Medicine & Rehabilitation, <sup>2</sup>Adult Blood and Marrow Transplantation Program, Division of Hematology/Oncology, University of Michigan, Ann Arbor, MI, USA **Background:** Distress can arise from physical and/or psychosocial impairments and has been documented in patients after hematopoietic stem cell transplantation in the outpatient setting. It has not been evaluated in inpatients admitted to undergo the transplant, nor has potential correlations with length of hospital stay, physical function, and pain after receiving the transplant. **Objectives:** To measure distress in patients admitted to the hospital to undergo hematopoietic stem cell transplantation, and to evaluate potential correlations with length of hospital stay, physical functions with length of hospital stay, physical functions with length of hospital stay, physical function, and to evaluate potential correlations with length of hospital stay, physical function, pain, and depression/anxiety.

**Methods:** Eighty patients were given a questionnaire to report levels of distress and physical and psychosocial functioning. Hierarchical multiple regression analysis was used to test the relationship of demographic and transplant factors with length of stay (LOS), distress, presence of pain, and depression/anxiety.

**Results:** Patients reported pretransplant distress with an average score of 2.2 out of 10, and 16 out of 80 patients reported clinically relevant distress. Pain was reported by 42.5% of patients, and 28.8% reported depression/anxiety. Physical functioning was generally high. Distress was correlated with depression/anxiety (*P*-value <0.01) and pain (0.04) but not with LOS, physical function, patient age, or transplant type.

**Conclusion:** LOS after receiving stem cell transplant was not related to pretransplant distress. Distress exists pretransplant but is generally low. Pain and the presence of depression/anxiety may be risk factors for distress. Measuring distress prior to transplant gives a baseline from which to measure changes, potentially leading to earlier intervention.

**Keywords:** Distress Thermometer, bone marrow transplant, cancer rehabilitation, BMT rehabilitation, symptom management, patient-reported outcomes

## Introduction

Hematopoietic stem cell transplantation (HSCT) with the intent to cure hematologic malignancies is performed over 50,000 times a year,<sup>1</sup> and carries with it potential deleterious side effects<sup>2–5</sup> that can cause significant morbidity and mortality. Often, patients undergoing HSCT – either an autologous transplant using the patient's own stem cells or an allogeneic transplant using donor cells – have completed treatment consisting of chemotherapy and potentially radiation therapy and/or surgery. These oncologic treatments can lead to physical, cognitive, and/or psychosocial distress, though level of, and factors contributing to, distress in patients admitted to the hospital to undergo HSCT is unclear.

Distress, as defined by the National Comprehensive Cancer Network (NCCN) as "an unpleasant emotional experience that can be psychological, social, and/or

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spiritual", can be debilitating and underdiagnosed,<sup>6</sup> and has been referred to as the "sixth vital sign" given its value in providing a comprehensive look at how physical, emotional, and other factors may affect a patient.7 The Commission on Cancer, the commission within the American College of Surgeons which accredits national cancer centers, requires distress screening for all patients, although it does not recommend a specific screening tool.8 Additionally, the Institute of Medicine identifies management of patient distress as a key component of delivering high-quality cancer care.<sup>9</sup> Clinically relevant distress is defined as an overall patient-reported numeric value of  $\geq 5$  on a scale of 1–10, and suggests that intervention for the distressing symptom(s) be made, such as a referral to a physical medicine and rehabilitation physician, a psychiatrist, or others.<sup>7,10</sup> While evaluating distress does not replace a more comprehensive psychological and physical examination, identifying the presence of distress can identify when attention to factors negatively impacting patients is warranted.

Psychosocial distress has been shown to range from 13% to 51% in the HSCT population,<sup>11,12</sup> and higher levels of distress are associated with lower quality of life.<sup>12</sup> Trask et al prospectively looked at distress during an outpatient evaluation by a hematologist of potential HSCT patients, finding that this patient population has distress; however, this study did not evaluate patients selected for HSCT and admitted to undergo the transplant.<sup>11</sup> Their patients included those with advanced disease, or poor physical, cognitive, and/ or psychosocial function, who ultimately would not undergo HSCT and therefore may have had higher levels of distress than the patients selected to undergo the treatment.

Components of distress prior to HSCT - including somatic dysfunction, depression, and anxiety - are correlated with poorer survival outcomes, although it is unclear if these factors are predictors of survival.<sup>12,13</sup> Additionally, depression and distress have been shown to reduce treatment compliance in patients undergoing HSCT, with possible implications on survival outcomes for post-HSCT patients with comorbidities requiring long-term management such as chronic graft-versus-host disease (GVHD).14 Another study found that pretransplant patient-reported physical impairment predicts worse physical function at 1 year posttransplant, that depression and anxiety posttransplant were associated with family conflicts and less severe GVHD, and that physical function was predicted by the severity of GVHD.<sup>15</sup> It did not correlate physical function with depression and anxiety in the way that distress, which is more inclusive of the overall symptom cluster experienced by patients, does. Another study looked at pre-HSCT depression, and found that there is a difference in depression levels pre- and post-HSCT but that it was not always predictable.<sup>16</sup> This argues that having a baseline was valuable in identifying worsening depression in patients, especially given that pre-HSCT depression was often not severe.<sup>16</sup>

Given that distress, and the physical and psychosocial components of distress, has implications on long-term outcomes of HSCT, monitoring this population and establishing a baseline – to identify changes and lead to earlier intervention - may be beneficial. Prescreening for symptoms is emerging as a valuable tool for monitoring patient symptoms in HSCT17 and other diagnoses, including breast cancer<sup>18</sup> and chemotherapy-induced peripheral neuropathy.<sup>19</sup> No study has evaluated distress at the time of admission to the hospital for HSCT, which provides the optimal baseline from which to measure future distress levels, and to the authors' knowledge, no study has measured correlation of distress with physical and psychosocial factors. In this largely descriptive study, we evaluated distress in patients about to undergo HSCT, and explored the relationship of this distress with different factors, including physical function, presence of depression and/or anxiety, presence of pain, age, and type of HSCT.

## Methods Study design

Eighty patients admitted to the University of Michigan Adult Bone Marrow Transplantation Unit from October 2012 to March 2014 to undergo first-time allogeneic or autologous HSCT were given a questionnaire to evaluate distress and physical functioning. Distress was evaluated using the NCCN's Distress Thermometer (DT),<sup>20</sup> which asks the patient to rate their overall distress from 1 to 10 and which further asks about specific stressors that are affecting the patient (Table S1). The DT has been shown in the HSCT patient population to be strongly correlated with existing measures in assessing patient symptoms,<sup>21</sup> and to be able to identify physical and psychosocial impairments.<sup>22</sup>

Physical function was evaluated by five questions from the Barthel Index,<sup>23</sup> a measure of physical independence, with these questions specifically asking about a person's ability to independently dress, ambulate 50 feet, climb stairs, bathe, and groom. Although originally constructed as a clinician-recorded outcome measure, using the Barthel Index for patients to describe their own level of functioning has been shown to correlate well with other validated tools assessing function, albeit not in the chronic GVHD

Self-care       - I am not in pain         - I have no problems dressing myself       - I am not in pain         - I have some problems dressing myself       - I sometimes or I always feel depressed or anxious         - I am unable to wash or dress myself       - I sometimes or I always feel depressed or anxious         - I can walk 50 feet       - I can walk 50 feet by myself         - I need someone to support me to walk 50 feet       - I can use a wheelchair to move 50 feet         - I can walk independently without a handrail       - I can walk independently without a handrail         - I need a handrail or a person to help me climb stairs       - I cannot climb stairs         - I cannot climb stairs       - I cannot climb stairs	Abbreviated version of the Barthel Index, as answered by patients (check box for which answer is appropriate)	Pain and depression/anxiety screen         Pain         – I am in some pain or I am in severe pain
<ul> <li>I can bathe independently or take a shower independently</li> <li>I cannot shower and need help to bathe Grooming         <ul> <li>I can brush my hair and teeth independently</li> <li>I need help brushing my hair or my teeth</li> </ul> </li> </ul>	<ul> <li>Self-care <ul> <li>I have no problems dressing myself</li> <li>I have some problems dressing myself</li> <li>I am unable to wash or dress myself</li> </ul> </li> <li>Ambulating 50 feet <ul> <li>I can walk 50 feet by myself</li> <li>I need someone to support me to walk 50 feet</li> <li>I can use a wheelchair to move 50 feet</li> <li>I cannot move 50 feet</li> </ul> </li> <li>Climbing stairs <ul> <li>I can walk independently without a handrail</li> <li>I need a handrail or a person to help me climb stairs</li> <li>I cannot climb stairs</li> </ul> </li> <li>I can bathe independently or take a shower independently</li> <li>I cannot shower and need help to bathe Grooming</li> <li>I can brush my hair and teeth independently</li> <li>I need help brushing my hair or my teeth</li> </ul>	<ul> <li>I am not in pain</li> <li>Depression/anxiety</li> <li>I sometimes or I always feel depressed or anxious</li> <li>I do not feel depressed or anxious</li> </ul>

Figure I Barthel Index items, and depression/pain questions.

population.<sup>24,25</sup> Furthermore, Ploughman et al found that the patient-reported Barthel Index compared favorably with other patient-reported functional measures, correlated with clinician-assessed outcome measures, and was relatively easy for patients to understand.<sup>26</sup> In these studies, the Index was used to evaluate non-stroke disabled populations. The entirety of the Barthel Index, which was designed for neurologic disorders and emphasizes functional independence, was not used due to the lack of relevance for all of the questions to the HSCT population; for example, the entire 10-point Barthel Index asks about neurogenic bowel and bladder, and these symptoms are not typically found in the HSCT population. The Barthel Index has been modified previously to better address needs within specific patient populations; this is the foundation for the Modified Barthel Index,<sup>27</sup> sometimes used in evaluating stroke patients, and it has been suggested that the tool may perform better when modified to evaluate problems specific to certain populations, and eliminating irrelevant items may improve validity.<sup>26</sup> Doing so would potentially make it easier for patients to accurately record their scores, without biasing the results. Point values were assigned to these items of this abbreviated Barthel Index, and a total score was calculated for each patient, with a higher score indicating a higher level of functional independence. Finally, patients were also asked

about how frequently they experience pain and depression/ anxiety (never, sometimes, always). Patients were told to ask questions to clarify any confusing questions, and there was no apparent difficulty in patients reporting depression/ anxiety and pain. The Barthel Index items, overall distress level, and pain and depression questions are presented in Figure 1.

The questions were combined into a single questionnaire given to patients upon admission to the Bone Marrow Transplantation Unit prior to initiating the transplant process. A printout of the questionnaire was provided to the patients upon arrival to the unit by a nurse, and later collected by a physiatrist. Age, sex, and hematologic malignancy were recorded for each patient. Later, chart review discerned length of stay (LOS) while admitted for the transplant. Data were then electronically recorded and entered into a password-protected secure Excel spreadsheet, and analysis was performed using SPSS (version 22) software (IBM Corporation, Armonk, NY, USA).

Patients aged 18 years or older admitted to undergo an allogeneic or autologous HSCT for the first time were included in the study. Patients too sick or cognitively impaired to fill out the form were excluded. The University of Michigan Institutional Review Board (No HUM00075059) approved the study prior to implementation.

#### Sample characteristics

Twenty-nine patients undergoing allogeneic and 51 undergoing autologous HSCT completed the questionnaire (Table 1). The average age was 56.6 years for the allogeneic group, 58.2 years for the autologous group, and 57.6 years when both transplant types were combined. The allogeneic group had 12 male and 17 female participants, and the autologous group had 35 male and 16 female participants, making a combined sample of 47 male and 33 female participants in the study. The pre-HSCT diagnoses for allogeneic patients were acute myeloid leukemia (AML; 15 patients), non-Hodgkin lymphoma (five), acute lymphoblastic leukemia (four), Hodgkin lymphoma (two), myelodysplastic syndrome (one), chronic myelogenous leukemia (one), and Waldenstrom macroglobulinemia (one). Pre-HSCT diagnoses for autologous patients were multiple myeloma (36 patients), non-Hodgkin lymphoma (eleven), Hodgkin lymphoma (two), AML (one), and yolk sac tumor (one). The difference in diagnoses in each cohort is due to the indication for each type of transplant, and was expected. For example, patients with multiple myeloma undergo autologous and not allogeneic transplants. Written consent was obtained from all patients.

## Statistical analysis

In the analysis, pain and a combined depression/anxiety rating were treated as binary (having the symptom or not) because responses were skewed to the left (very few patients indicated extreme pain or anxiety/depression), with few patients indicating extreme values of these variables. Distress was averaged, and the frequency of values >4 were calculated. Hierarchical multiple regression analysis was used to test the relationship of demographic and transplant type with outcomes of LOS and distress (transplant type was included due to differences in pretransplant diseases for the autologous and allogeneic transplants). Preliminary analyses were conducted to ensure no violation of the assumptions of normality, linearity, multicollinearity, and homoscedasticity. For LOS, pain, age, transplant type, and the abbreviated Barthel Index score were entered in the first step, and distress was entered in the second step. For distress, the same first step was entered, and depression/ anxiety was entered in the second step. Depression/anxiety was not used in the model for LOS due to a strong independent relationship with distress. Results were determined to be significant by having a *P*-value <0.05.

## Results

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Sixteen patients (eight allogeneic, eight autologous) indicated clinically relevant distress with a score of  $\geq 5$ . The range was

from 0 to 9, and no statistically significant difference was observed between the two transplantation types, suggesting that pretransplant diagnosis may not have an effect on pretransplant distress. More physical symptoms were indicated on the DT than the practical, family, emotional, and spiritual symptom domains combined (Table 2). Distress with regard to sleep was the most prevalent, with 31 out of 80 patients indicating a problem, followed by nausea (27), tingling (27), fatigue (24), and pain (24). Nervousness (23) was the most prevalent nonphysical symptom, followed by worry (21), insurance issues (17), and fears (15). Most patients had a high level of physical independence, and scores on the abbreviated Barthel Index ranged from 25 to 45 (perfect score), with an average of 42.13, and 43 out of 80 having a perfect score. Only seven patients scored <40.

Distress had a statistically significant independent relationship with depression/anxiety (P<0.001). When the impact of the independent variables Barthel score, presence of pain, presence of depression/anxiety, and type of transplant on distress was calculated, the *R*-square value was 0.257 (Table 3). Removing depression/anxiety from the regression analysis due to the two variables having a strong correlation, the *R*-square value dropped to 0.069 (6.9%), indicating that only 6.9% of distress was predicted by presence of pain, and physical function, age, and transplant type. Pain location was reported by patients on a drawing of a human body, and was not described by patients in either HSCT cohort as consistently being in the same location. Pain in shoulders, lower and upper back, neck, and lower extremity was described, and occasionally, patients reported more than one area of pain, again, without a distinct trend.

Γ	able	I	Patient	demogra	ohics
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Value	Autologous (n=51)	Allogeneic (n=29)
Mean age (range, SD) (years)	58.2 (30–71, 9.9)	56.6 (29–69, 10.0)
Sex	16 females,	17 females,
	35 males	12 males
Diagnosis		
Non-Hodgkin lymphoma	11	5
Multiple myeloma	36	0
Hodgkin lymphoma	2	2
Acute lymphoblastic leukemia	0	4
Acute myeloid leukemia	I	15
Chronic myelogenous	0	I
leukemia		
Myelodysplastic syndrome	0	I
Yolk sac tumor	I	0
Waldenstrom	0	I
macroglobulinemia		
LOS after transplant (average	17.4	22.7
in days)		

Abbreviations: SD, standard deviation; LOS, length of stay.

The impact of these variables on LOS was also calculated. Although LOS was found to have a bivariate significant correlation with Barthel score, presence of pain, and distress, this significance was lost after analysis was performed controlling for age and type of transplant. *R*-square value assessing the impact on LOS by these variables was 0.286. When distress was removed from the analysis, the *R*-square value dropped only to 0.271, showing that pretransplant distress has little impact on hospital LOS. Presence of depression/anxiety was not included in LOS analysis due to its strong correlation with distress. LOS was only correlated with the type of transplant received after all other factors were accounted for (*P*<0.001). Allogeneic transplant recipients had a longer LOS, which is consistent with known medical practice and is not novel information.

## Discussion

Distress was present in patients admitted to undergo first-time HSCT; however, the majority of patients did not experience clinically relevant distress, that is, a value >4. Patients more frequently selected physical symptoms as causing distress compared to psychosocial stressors; however, the prescence of depression and/or anxiety was strongly correlated with distress. The physical symptoms with which patients indicated most frequently that they have distress had to do with pain, fatigue, and similar symptoms. Physical symptoms felt by patients upon admission for a HSCT had less to do with physical function, that is, ability to carry out a task, than with what a patient is physically feeling, such as pain, as evidenced by patient-reported high functioning on the Barthel Index. The degree of distress upon admission for HSCT did not impact LOS, nor did the presence of pain, a person's age, or his/her physical function.

This is the first paper to evaluate distress in patients prior to undergoing HSCT, which is important for several reasons. For one, there is a growing emphasis on early detection of symptoms to potentially make treatment more effective and efficient. Second, having a baseline symptom assessment informs clinicians when there has been a change in the patient's status. For example, if a patient's distress level increases from a 2 out of 10 prior to HSCT to a 4 out of 10 at day 100 post-HSCT, a clinician should evaluate why a patient's distress level doubled, even if the overall distress level may not be considered high. Finally, distress itself is becoming a more widely recognized aspect of cancer symptom management screening, as it encompasses myriad symptoms across the psychosocial and physical spectrum, creating a comprehensive picture of what a patient is experiencing.

#### Table 2 Survey results (n=80)

Distress Thermometer, average	2.2
Average score of those with nonzero distress	3.4
Number of patients with distress values >4	16
Number of patients with zero distress	28
Abbreviated Barthel Index score, average	42.I
Respondents with some pain	34 (42.5%)
Respondents with some depression/anxiety	23 (28.8%)
Frequency of physical symptoms on Distress Thermometer	
Sleep	31
Nausea	27
Tingling	27
Fatigue	24
Pain	24
Dry skin	20
Constipation	16
Nasal congestion	15
Memory	12
Eating	10
Appearance	7
Diarrhea	7
Urination	6
Feeling swollen	6
Getting around	5
Indigestion	4
Sexual	4
Bathing	2
Breathing	2
Mouth sores	2
Fevers	I
Frequency of nonphysical symptoms on Distress Thermome	ter
Nervousness	21
Worry	21
Insurance	17
Fears	15
Sadness	10
Work/school	7
Housing	5
Transportation	5
Loss of interest	4
Close friend	2
Child care	I
Children	I
Partner	I
Spiritual	I
Pain	
l have no pain or discomfort	46
I have some pain or discomfort	31
l have extreme pain or discomfort	3
Anxiety/depression	
I am not anxious or depressed	57
I am moderately anxious or depressed	20
l am extremely anxious or depressed	3

This study has several weaknesses. The evaluation of physical functioning is limited, and nearly all patients were either completely independent or nearly independent in the physical functioning domains assessed by the questions taken from the Barthel Index. While it makes the potentially inter-

#### Table 3 Analyzing distress level and length of stay

Distress: relationship with age, transplant	type, presen	ce of pain, presence of c	lepression/an	xiety, and Barthel score	
Analysis	Age	Transplant type	Pain	Depression/anxiety	Barthel
Bivarate	0.288	0.204	0.043*	<0.001*	0.073
Pearson	0.064	0.094	0.194	0.404	-0.164
R-square			0.257		
Adjusted R-square			0.207		
R-square removing depression/anxiety		0.069			
LOS: relationship with age, transplant typ	e, presence o	of pain, distress level, an	d Barthel sco	re	
Analysis	Age	Transplant type	Pain	Distress	Barthel
Bivariate	0.259	<0.001*	0.064	0.219	0.489
Pearson	-0.073	0.510	-0.171	-0.088	-0.003
R-square			0.286		
Adjusted R-square			0.238		
R-square removing distress from the model			0.271		

Note: \*Statistical significance with a P-value <0.05.

Abbreviation: LOS, length of stay.

esting point that patients generally have high physical function prior to HSCT - which may not have been assumed given the chemotherapy and other treatments administered prior to transplant - it did not provide an assessment with much variability, thus not comprehensively allowing evaluation of distress vis-à-vis physical symptoms. Nevertheless, very few patients indicated distress related to "getting around" on the DT, suggesting that these Barthel Index questions painted an accurate picture of physical function in this population (Table S1). Given that only more physically robust patients undergo HSCT, the transplant process may select away from patients with physical compromise, and therefore, we cannot tell if poor function leads to distress. Future studies should look at pain and other physical symptoms more closely as they relate to distress prior to transplantation.

Next, the evaluation of pain and depression and/or anxiety was limited to a yes/no format, and did not quantify the degree of these symptoms other than a patient indicating if they had "some" or "extreme" pain or depression/anxiety. The fact that very few indicated extreme levels of those symptoms makes this less problematic; however, future studies should look more closely at patients with moderate symptoms, and how those interact with distress levels.

Finally, the sample data were skewed to have more autologous transplant recipients than allogeneic. There are different pre-HSCT disease processes for each transplant type, and it is unclear if there are significant differences between the two. For example, both AML and multiple myeloma patients are at a high risk of developing chemotherapy-induced peripheral neuropathy, but differences between these groups have not been evaluated. Nevertheless, all patients about to undergo a HSCT need to reach a certain threshold of physical and emotional capacity to tolerate a HSCT, so very low-functioning patients, such as those with severe pain and/or weakness, may be selected out of studies like this by virtue of not being able to undergo HSCT. Transplant type was, however, controlled for in our analysis, and it did not have an impact on distress. Severity and duration of pretransplant disease would be useful and should be looked at in the future. Future studies should also seek to enroll similar numbers of patients for each transplant, or focus only on one type of transplant since studying patients undergoing either alloHSCT or autoHSCT may allow for more in-depth analysis of the subgroups. Future studies should also consider enrolling a greater number of patients; a total of 80 subjects provides a sufficiently broad picture of patients undergoing HSCT, but larger numbers may help tease out subtle findings. Given the relatively high function and low overall distress in patients in this study, however, it is unclear if a larger study would find meaningful differences.

This study is important because it is distinct from previous studies evaluating distress during the outpatient phase prior to potential HSCT. Patients admitted to the hospital for the transplant understand that the transplant may help them - thus positively affecting distress level - but also may have increased distress related to several factors, including but not limited to concerns about the transplant itself, being in a hospital and not outpatient setting, and having had a presumably longer course of pre-HSCT treatment for their hematologic malignancy than those not yet cleared for HSCT (potentially leading to increased pain, fatigue, cognitive deficits, and more). Measuring distress at the time of admission prior to HSCT thus would create the optimal baseline from which to assess changes in distress level.

# Conclusion

Distress is present in patients about to undergo a HSCT, albeit often not at clinically relevant levels, and was correlated with the presence of pain and of depression/anxiety. Nevertheless, obtaining a baseline assessment of distress can help clinicians more easily identify changes, potentially leading to earlier intervention. Patients about to undergo HSCT had high physical functioning in terms of mobility and self-care but did report many physical symptoms, such as pain and fatigue, which contributed to distress. Future studies should focus on the change in distress over time, and contributing factors.

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# Disclosure

The authors report no conflicts of interest in this work.

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# Supplementary material

Table SI	Distress	Thermometer	and abbreviate	d Barthel	Index results
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		Yes	
	Emotional problems		
76	Depression	6	74
4	Fears	15	65
0	Nervousness	23	57
	Sadness	10	70
80	Worry	21	59
0	Loss of interest	4	76
0	Spiritual/religious concerns	I.	79
0	Physical problems		
	Appearance	7	73
45	Bathing/dressing	2	78
32	Breathing	2	78
3	Urination changes	6	74
	Constipation	16	64
77	Diarrhea	7	73
3	Eating	10	70
	Fatigue	24	56
78	Feeling swollen	6	74
2	Fevers	I	79
No	Getting around	5	75
	Indigestion	4	76
79	Memory/concentration	12	68
75	Mouth sores	2	78
63	Nausea	27	53
75	Nose dry/congested	15	65
73	Pain	24	56
75	Sexual	4	76
79	Dry skin	20	60
79	Sleep	31	49
70	Tingling in hands/feet	27	53
	76 4 0 80 0 0 0 45 32 3 77 3 78 2 <b>No</b> 79 75 63 75 73 79 79 79 79 79 78	T6Depression4Fears0NervousnessSadness80Worry0Loss of interest0Spiritual/religious concerns0Physical problemsAppearance45Bathing/dressing32Breathing3Urination changesConstipation77Diarrhea3Eating78Feeling swollen2FeversNoGetting around79Mouth sores75Nausea63Nose dry/congested75Pain73Sexual79Sleep79Tingling in hands/feet	Emotional problems76Depression64Fears150Nervousness23Sadness1080Worry210Loss of interest40Spiritual/religious concerns10Physical problems10Physical problems232Breathing233Urination changes6Constipation1677Diarrhea73Eating10Fatigue2478Feeling swollen62Fevers11MoGetting around51Indigestion479Mouth sores275Nausea2763Nose dry/congested1575Pain2479Sleep3179Tingling in hands/feet27

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