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# **Psychometric Properties of the Arabic Version of the Functional Assessment of Chronic Illnesses Therapy-Fatigue (FACIT-F) in Arabic Cancer Patients**

## **Abstract:**

**Background:** The Functional Assessment of Chronic Illness Therapy (FACIT) is a measurement system that was developed to assess the health-related quality of life among patients with cancer and other chronic illnesses. The Functional Assessment of Chronic Illness Therapy- Fatigue (FACIT-F) is a 40-item questionnaire, and it is the one of most frequently used instrument to assess fatigue in cancer populations. The aim of the study is to evaluate the psychometric properties of the Arabic FACIT-F among patients diagnosed with cancer.

**Methods:** Following a translated and cross-cultural evaluation procedure, of the FACIT-F Arabic version. A cross-sectional and descriptive correlational design was conducted. A total of 369 patients with cancer completed the FACIT-F, which consists of the Functional Assessment of Cancer Therapy – general scale's (FACT-G) 27-items, and the 13-item Functional Assessment of Chronic Illness Therapy-Fatigue (FACIT-Fatigue). The scale was assessed in terms of acceptability, internal consistency and validity. Construct validity was explored through confirmatory factor analysis.

**Results:** The FACT-G had acceptable fit in the four factor model, whereas the FACIT-Fatigue was found to be acceptable for the one-factor model in Arabic patients diagnosed with cancer. The Cronbach's alpha coefficient for the Arabic FACIT-Fatigue was 0.92, whereas the total score for FACT-G was 0.92, which showed good reliability. There was evidence that discriminate validity analysis was generally very good for the FACIT-Fatigue and FACT-G Arabic versions.

**Conclusion:** The Arabic versions of the FACIT-Fatigue and FACT-G demonstrated good reliability and validity for assessing fatigue and quality of life in patients diagnosed with cancer.

**Key Words:** fatigue; FACIT-F; validity; Reliability; Arabic cancer patients

## **Introduction:**

The diagnosis of cancer is a major life stressor that can affect the physiological, psychological and physical state of the individual. Cancer Related Fatigue (CRF) prevalence ranges between 50% and 90%.<sup>1</sup> The majority of patients with cancer report fatigue as the most distressing symptom affecting their quality of life (QoL).<sup>2,3</sup>

Several instruments have been developed to measure CRF in English; one of the most widely used and validated is the Functional Assessment of Chronic Illnesses Therapy-F (FACIT-F).<sup>4,5</sup> This questionnaire consists of QoL questions and an additional scale for measuring fatigue.<sup>6</sup> The QoL is known as the Functional Assessment of Cancer Therapy – General (FACT-G). The FACT-G has four subscales: seven items for physical well-being (PWB); seven items for social/family well-being (SWB); six items for emotional well-being (EWB); and seven items for functional well-being (FWB).<sup>7</sup> The additional scale for measuring fatigue, containing 13 items, is known as the Functional Assessment of Chronic Illnesses Therapy – Fatigue (FACIT-Fatigue), and can be used as a stand-alone brief assessment of fatigue. Therefore, FACIT-F refers to the 40-item questionnaire with all five subscales (physical, social/family, emotional functional, well-being and fatigue); FACT-G relates only to the four QoL subscales; and FACIT-Fatigue relates only to the 13-item fatigue scale.

FACIT-F 40-items has been validated for use with a variety of cancer diagnoses and treatments; the original scale showed strong internal consistency (coefficient alpha 0.93-0.95) and good stability (test-retest,  $r = 0.87$ ).<sup>6</sup> Other studies using the instrument have translated it into Spanish,<sup>8</sup> French and Dutch<sup>9</sup>, Japanese,<sup>10</sup> Persian,<sup>11</sup> and Portuguese.<sup>12,13</sup> The internal consistency in the translated versions ranged from 0.79 to 0.94.

A lack of appropriate scales to measure CRF is one of the challenges to identifying fatigue symptom disorders among patients with cancer in Arabic populations. Twenty-seven countries in the Middle East and North Africa have Arabic as the official language, and it is the 6th most spoken language in the world.<sup>14</sup> However, the FACIT-F 40-items has not been validated in clinical samples in Arabic speaking countries.

Therefore, the aim of this study was to examine the validity and reliability of the Arabic FACIT-F 40-items, version 4, in a heterogeneous sample of cancer patients in Oman. Validation of the Arabic FACIT-F 40-items in an Arabic country will provide a suitable and acceptable cultural fit instrument for screening and assessing fatigue in clinical practice.

## **Methods:**

### **Participants:**

A cross-sectional survey (November 2018 and January 2019) was used with participants recruited from the National Oncology Centre outpatients' clinic in Oman. The inclusion criteria were: ability to speak and write in Arabic, patients over 18 years of age, no known psychiatric or neurological disorders, diagnoses of any type of cancer, completed surgical intervention, chemotherapy or/and radiotherapy treatment at least one month prior to recruitment.

The sample size was determined as 10 participants required per item.<sup>15,16</sup> For FACIT-Fatigue (13 items) 130 and FACT-G (27 items) 270 participants were required. Given the expectation of a non-responders, a sample size of 400 participants was chosen.

Ethical permission was sought and granted by Research and Ethical Review and Approval Committee in the Directorate General of Planning and Studies at the Ministry of Health, Oman. Participants gave informed consent prior to completion of the survey.

### **Instruments:**

Demographic information collected included age, gender, educational level, marital status, employment status, type of cancer, stage, type of treatment finished and time since diagnosis. Fatigue was measured using the FACIT-F.<sup>6</sup> Responses were scored on a 5-point scale which ranged from 0 to 4.

The FACIT-Fatigue 13 items provided scores that ranged from 0 to 52. Higher scores indicated no fatigue and the lowest score, the worst possible fatigue. The FACT-G was used to measure QoL, with the total score calculated by summing the 4 subscales. Possible scores ranged from 0 to 108, with higher scores indicative of a good level of QoL. Permission was given by the developers to use the Arabic version of the FACIT-F instrument.

### **Translation of FACIT-F:**

An Arabic version of the FACIT-F 40-items was available on the FACIT website (<http://www.facit.org/TransHome>)<sup>17</sup> and translated using the method described by Bonomi et al.

<sup>18</sup> However, the FACIT team recommend cross-language and cross-cultural evaluation to test the instrument. <sup>19</sup>

To ensure the applicability of the instrument for the current study population, the FACIT-F 40-items Arabic version was compared with the original English version by two independent bilingual translators. This ensured that the scales were translated into the Modern Standard Arabic language that is used for official purposes in all Arabic countries. The final version was compared with the original Arabic version proposed by the FACIT Group; it was evaluated by a team of three Arabic language experts, two translators and two oncology experts. To examine any difficulties in items comprehension of the FACIT-F, the scales were piloted with ten patients diagnosed with cancer. No changes for any words or phrases of the Arabic FACIT-F translation presented by the FACIT groups were necessary. [Online Supplement 1: FACIT-Fatigue 13-Items Arabic Version; Online Supplement 2: FACT-G 27-Items Arabic Version].

### **Statistical Analyses:**

The 27-item FACT-G and 13-item FACIT-Fatigue were analysed separately.

Construct validity of the FACT-G 27-items and FACT-F 13-items were examined using two separate Confirmatory Factor Analysis (CFA) conducted using AMOS 25 to test the hypothesis that the FACIT-Fatigue was unidimensional and the items in the FACT-G were best represented by a four-factor model. The following criteria were set to define acceptable model fit: Root Mean Square Error of Approximation (RMSEA) of less than or equal to 0.08; Comparative Fit Index (CFI) greater than 0.90; and Tucker-Lewis index (TLI) greater than 0.90. <sup>16</sup> <sup>20</sup> Montan et al. <sup>21</sup> previously used these model fit indices to examine the structure of the FACIT- Fatigue and FACT-G.

The internal consistency of the two scales were evaluated using Cronbach's alpha coefficient for each of the subscales and the overall scales. Cronbach coefficient of 0.70 or higher was considered acceptable. <sup>22</sup> The floor and ceiling effects were reported if more than 15% of the respondents achieved the lowest or highest possible scores <sup>23</sup>.<sup>22</sup>

Discriminant validity of the FACT-G and FACIT-Fatigue, determined by independent t-test and analysis of variance (ANOVA), is the ability of the scale to differentiate defined groups according to patient demographic and clinical characteristics. Statistical analyses were performed using the Statistical Package for the Social Sciences (SPSS) version 25.0. Significant levels of less than 0.05 were chosen, and all  $p$  were two-sided.

## **Results:**

Four hundred patients were eligible to participate; of these, 369 (92%) returned valid questionnaires. Eleven refused participation, seven submitted incomplete questionnaires, and thirteen did not return the questionnaire.

The majority of the participants were female 66.4% (n=245). 28% had completed a secondary level education, 27.4% (n=101) held a degree (college or higher); 20% of the participants had no formal education but they were able to read and write in Arabic (Table 1).

## **Psychometric Properties**

### **Confirmatory Factor Analysis**

The FACT-G had 34% respondents did not answer GS7, due to participants exercising the option to skip GS7 (I am satisfied with my sex life). Factor analysis is sensitive to missing values and given that data were not missing randomly, imputation methods were deemed inappropriate. Hence, GS7 was removed from further CFA results for the 26-item FACT-G. This indicated that a four factor model was not an adequate fit for the data ( $\lambda = 0.22$  to  $0.85$ ;  $\chi^2/df = 2.79$ , CFI= 0.88; RMSEA= 0.07; TLI = 0.87). Factor loadings for item GE2 (I am satisfied with how I am coping with my illness) were low ( $\lambda = 0.22$ ); this item was removed from the second order factor model, which revealed a better fit ( $\lambda = 0.44$  to  $0.88$ ;  $\chi^2/df = 2.729$ , CFI= 0.90; RMSEA= 0.07; TLI = 0.90). A correlated error was apparent between items GF1 (I am able to work (including work at home)) and GF2 (My work (including work at home) is fulfilling); this resulted in an acceptable model fit ( $\lambda = 0.44$  to  $0.88$ ;  $\chi^2/df = 2.448$ , CFI= 0.92; RMSEA= 0.06; TLI = 0.91), (Figure 1).

A one-factor model<sup>24</sup> was tested for the FACIT-Fatigue. Loadings for the 13 items ranged from  $\lambda = 0.37$  to  $0.89$ , showing a less than optimal fit for the data (CFI= 0.84; RMSEA= 0.15; TLI = 0.81).

Modification indices were examined and six items were found to have significant shared error variance: An3 (I have trouble starting things because I am tired); An4 (I have trouble finishing things because I am tired); An5 (I have energy); An7 (I am able to do my usual activities); An15 (I am frustrated by being too tired to do the things I want to do) and An16 (I have to limit my social activity because I am tired). Items An3, An4, An15 and An16 had similar content. Items An5 and An7 were the only items in the FACIT-Fatigue -13 that were positively phrased, the other items were negatively constructed. The refined model fit indices of the sample were CFI= 0.93; RMSEA= 0.10; TLI = 0.91, (Figure 2).

### **Reliability:**

Internal consistency for the FACT-G 27-item scale was 0.92. Subscale values were 0.91 for PWB; 0.71 for SWB; 0.81 for EWB; and 0.87 for FWB. Internal consistency for the FACT-G 25-item scale (after removal of GS7 and GE2) was 0.92. Subscale values were 0.92 for PWB; 0.73 for SWB-6; 0.84 for EWB-5; and 0.87 for FWB.

The alpha coefficient of the fatigue scale for the FACIT-Fatigue 13-items Arabic version was 0.94. These findings indicated acceptable/excellent internal consistency for all subscales and aggregated scores, which compares favourably with those of the original English instrument. Ceiling and floor effect for scales and subscales were less than 15%, other than SWB ceiling effect (17.6%), due to the deleted item, GS7 (Table 2).

### **Discriminant Validity:**

The mean scores of the FACIT-Fatigue, and the FACT-G and subscales showed discriminant validity between different patients' groups according to age, cancer site, stage of disease and comorbidities (Table 3). Fatigue scores were highest among patients with lung cancer compared to patients with other cancers. Cancer site was associated with significant differences in physical, emotional and functional well-being and total FACT-G score ( $p<0.05$ ). The mean score of the FACIT-Fatigue scale and FACT-G physical, social/family, emotional and functional well-being and total FACT-G score were able to discriminate between comorbidities versus no comorbidities ( $p<0.05$ ).

### **Discussion:**

To our knowledge, this is the first psychometric study of the FACIT-Fatigue scale that has specifically been examined in an Arabic cancer population. The present study has shown that the FACT-G and FACIT-Fatigue scales reached acceptable levels of reliability and construct validity.

The internal consistency reliability of the Arabic version of the FACIT-Fatigue was  $\alpha=0.94$ , which was higher than the original study of Yellen et al. <sup>6</sup> ( $\alpha=0.93$ ). The internal consistency of the FACIT-Fatigue in Spanish was 0.88 <sup>8</sup>, in Brazilian it was 0.79 <sup>13</sup>, among patients diagnosed with almost similar cancers. The FACT-G subscales, PWB, SWB-6, EWB-5 and FWB, also had good reliability estimates (0.73 to 0.92) with total internal consistency of  $\alpha=0.92$ ; this is in comparison with the result of the original version, which was  $\alpha=0.89$ .

Further, most of the FACIT-Fatigue and FACT-G scales and subscales did not have floor or ceiling effects: only SWB-6 presented with 17.5%, and this may be because of the removal of GS7. Therefore, items' analyses supports the content validity of the scale. <sup>23</sup>

Both the FACIT-Fatigue and FACT-G showed good to excellent evidence of construct validity; both scales appeared to be capable of discriminating between groups that differed in prognosis. The result of this study supports the discriminant validity of both scales. Previous research has established the discriminant validity of the FACT-G <sup>24</sup> and the FACIT-Fatigue <sup>6</sup>, and has shown similar results in the original validation. Moreover, the finding of the discriminant validity of the Arabic version is consistent with Persian <sup>11</sup> and English versions. <sup>25</sup>

Confirmatory factor analysis was conducted for the FACT-G and FACIT-Fatigue for all participants. The FACT-G had the highest rate of missing data; this was due to 125 (33.9%) participants not answering GS7. In Arabic culture, sex is considered a private issue that cannot be discussed. <sup>26</sup> This may explain the reluctance of participants to complete this item within the questionnaire. This is similar in different populations; for example Korean <sup>27</sup> Chinese <sup>28</sup> Spanish <sup>29</sup> and Western European <sup>18</sup>, however, all those studies recommended to keep the GS7 item.

Item GE2 (I am satisfied with how I am coping with my illness) presented a problem with regards to the psychometric sensitivity as the item ( $\lambda =0.22$ ), had a low factor loading. This may be explained as cross-culturally problematic, as the word 'coping' translated into Arabic terms is 'Takuble'. In Islamic culture, Muslims' religious beliefs dictate that the disease or illness is God's



will<sup>30</sup>; consequently, Muslims should cope with illness without regard to satisfaction. Another possible explanation was that GE2 is the only positively worded item among five items which were negatively worded. Previous studies have reported similar issues in Spanish<sup>29</sup> and English<sup>25</sup> version of FACT-G regarding the loading of GE2. This item may contribute to measurement error,<sup>16</sup> and lead to a low factor loading.

In the final model, the correlation of items GF1 (I am able to work (including work at home)) and GF2 (My work (including work at home) is fulfilling) may be due to the similarity of items' content. A similar correlation was found between items GF1 and GF2 in the CFA conducted on cancer patients in Brazil.<sup>31</sup> Although two items GE2 and GS7 were problematic to CFA, it recommended to keep the structure of FACT-G 27-items Arabic version the same as the original publication; also recommended by Dapuetto et al.<sup>32</sup>, Lee et al.<sup>27</sup> and Smith et al.<sup>33</sup>

The CFA of FACIT-Fatigue has been proposed as a unidimensional scale with the range of factor loadings being acceptable (0.39 to 0.89). The possible explanation for a high correlation between six items was that the participants had given similar answers: 59% for An3 and An4, 48% for An5 and An7, and 60% for An15 and An16. This may indicate that these items have similar content.

Another possible reason for correlation between these items is due to the translation. In the English-Arabic comparison, for item An5 (I have energy), 'energy' is translated into Arabic as 'Alhayawia'; furthermore, in item An15, 'I am frustrated' was translated into Arabic as 'Asheur Bialaihat'. These two words were translated into Modern Arabic and may have been misinterpreted by the participants. In this study, 44.4% of the participants had basic education or less; these participants may have had difficulty understanding these items.

In this study, CFA confirmed the one factor structure of FACIT-Fatigue. Cella et al.<sup>34</sup>, Coroiu et al.<sup>35</sup> and Montan et al.<sup>21</sup> all showed that the 13-item FACIT-Fatigue scale has acceptable fit in the unidimensional model. This study found that RMSEA = 0.10, which is below the set criterion (RMSEA=0.8) for an acceptable CFA model fit, however a similar result was reported by Cella et al.<sup>34</sup> and Montan et al.<sup>21</sup> It is recommended that the structure is kept and the content instrument remain the same as the original publication so as not to violate the psychometric conditions for the translated instrument.

A think aloud study would be recommended for FACIT-Fatigue and FACT-G Arabic versions in which the participant describes their thinking as they answer each item of the scales.<sup>36</sup> This method can provide content validity<sup>37</sup> and response processes<sup>38</sup> to each item of FACIT-Fatigue and FACT-G Arabic scales.

The current study has some limitations. The stability of the instrument was not reported using test-retest reliability; therefore, further assessment of test-retest reliability is needed.

### **Conclusion:**

This is the first study to validate the FACIT-F in a clinical sample in an Arabic speaking country. The Arabic versions of the FACIT-Fatigue and FACT-G, version four, have acceptable psychometric properties of internal consistency and discriminant validity. Therefore, the Arabic version of FACIT-F is a reliable and validated instrument to assess fatigue and QoL and can assess CRF in Arabic cancer populations. Further research on the Arabic versions should evaluate test-retest reliability with a longitudinal methodology.

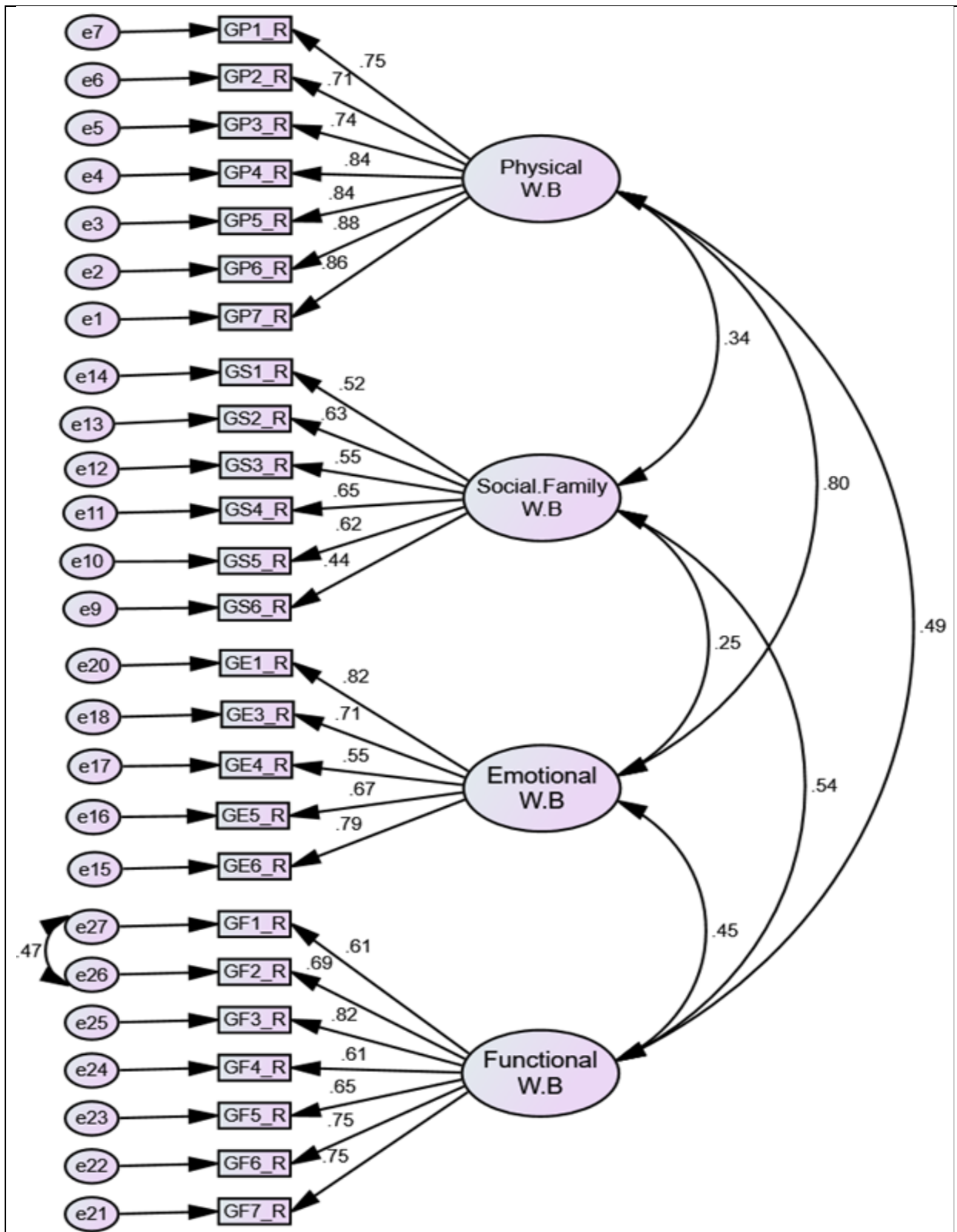
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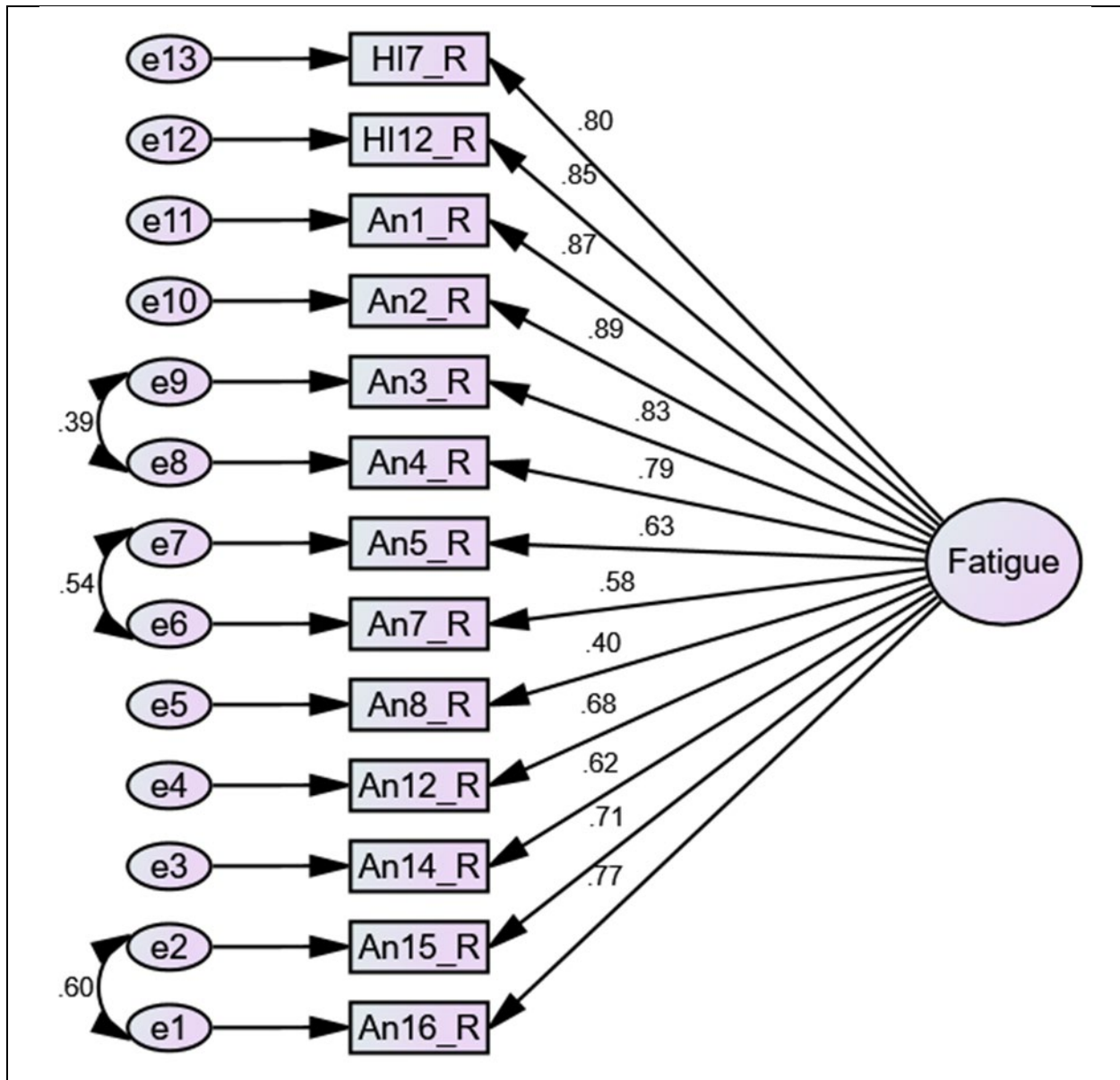
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**Figure 1:** Factors structure of the Functional Assessment of Cancer Therapy-General 25-items  $\lambda = .44$  to  $.88$ ;  $\chi^2/df = 2.448$ , Comparative Fit Index (CFI)=.92; Root mean Square Error of Approximation (RMSEA)= .06; Tucker-Lewis Index (TLI) = .91



**Figure 2:** Model 2 Functional Assessment of Cancer Therapy-Fatigue 13-items with Correlation,  $\lambda = .40$  to  $.89$ ;  $\chi^2/df = 5.106$ ; Comparative Fit Index (CFI)=.93; Root mean Square Error of Approximation (RMSEA)= .10; Tucker-Lewis Index (TLI) = .91

**Table 1: Demographic and Clinical Characteristic of Participants (N=369):**



Demographic Characteristic		
	n	%
<b>Gender</b>		
Male	124	33.6
Female	245	66.4
<b>Age</b>		
18-30	36	9.8
31-40	84	22.8
41-50	95	25.7
51-60	76	20.6
More than 60	78	21.1
<b>Marital Status</b>		
Married	273	74
Single	40	10.8
Divorced/ Separated /widowed	56	15.2
<b>Education Level</b>		
Non-Formal Education	75	20.3
Basic Education	89	24.1
Secondary Education	104	28.2
Degree	101	27.4
<b>Employment Stats</b>		
Employed	125	33.9
Retired	71	19.2
Unemployed	173	46.9

Clinical Characteristic		
	n	%
<b>Cancer Site</b>		
Breast	139	37.7
Colorectal	54	14.6
Stomach	18	4.9
Others	29	7.9
Lung	20	5.4
Gastrointestinal	19	5.1
Brain	19	5.1
lymphoma	20	5.4
Gynaecological	24	6.5
Urinary	27	7.3
<b>Stage</b>		
I	34	9.2
II	145	39.3
III	107	29
IV	72	19.5
Unspecified	11	3
<b>Month Since Diagnosis</b>		
< 12 months	157	42.5
12-24 months	127	34.4
25-36 months	52	14.1
> 36 months	33	8.9
<b>Type of Treatment Finished</b>		
Chemo and Radio	234	63.4
Chemotherapy	122	33.1
Radiotherapy	13	3.5
<b>Comorbidities</b>		
None	193	52.3
Asthma	8	2.2
Anaemia	13	3.5
Diabetes	21	5.7
Hypertensive/ Heart Failure	61	16.5
Diabetes/Heart diseases	60	16.3
Others	13	3.5

**Table 2: Internal Consistency Cronbach's  $\alpha$  and Ceiling-Floor Effect for FACIT-F Version 4 (N=369)**

subscales	Number of items (Score Range)	Scores		Ceiling effect (%)	Floor effect (%)	Cronbach's $\alpha$	Cronbach's $\alpha$ Original Version
		Mean	SD				
Physical Well-Being	7 (0-28)	12.13	8.33	2.4%	3.8%	.92	0.82 <sup>a</sup>
Social / Family Well-Being	6 <sup>c</sup> (0-24)	19.75	3.82	17.6%	.5%	.73	0.69 <sup>a</sup>
Emotional Well-Being	5 <sup>d</sup> (0-20)	12.14	5.35	8.4%	1.1%	.84	0.74 <sup>a</sup>
Functional Well-Being	7 (0-28)	19.28	5.79	7%	.5%	.87	0.80 <sup>a</sup>
FACT-G 25 items	25 (0-100)	63.3	17.71	0.3%	-	.92	0.89 <sup>a</sup>
FACT-Fatigue	13 (0-52)	22.70	12.00	0.3%	0.5%	.94	0.93 <sup>b</sup>
FACIT-F	38 (0-52)	86	29.15	-	-	.95	0.95 <sup>b</sup>

<sup>a</sup> Cella et al (1993), <sup>b</sup> Yellen et al, 1997

<sup>c</sup> GS7 was removed from analyses

<sup>d</sup> GE2 was removed from analyses

**Table 3: FACT-G and FACIT-Fatigue Scores According to the Patient Characteristics (Discriminant Validity):**

	FACIT-Fatigue		FACT-G		PWB		SWB		EWB		FWB	
	M(SD)	<i>P</i>	M(SD)	<i>P</i>	M(SD)	<i>P</i>	M(SD)	<i>P</i>	M(SD)	<i>P</i>	M(SD)	<i>P</i>
<b>Age</b>		< 0.001		< 0.001		0.001		<0 .001		0.007		< 0.001
18-30 (36)	25.3(12.9)		64.9(16.2)		13.4(7.9)		19.3(4.1)		11.9(5.4)		20.3(5.2)	
31-40 (84)	25.5(12.8)		69.3(17.5)		13.8(8.5)		20.9(3)		13.3(5.3)		21.2(5.0)	
41-50 (95)	25.3(12.9)		67.3(17.9)		13.3(8.5)		20.2(3.4)		13.1(5.5)		20.8(5.3)	
51-60 (76)	21.9(12)		60(16.1)		11.4(7.8)		19.6(4.1)		10.9(5.3)		18.1(5.3)	
> 60 (78)	16.1(12)		54.4(15.9)		9(7.8)		18.3(4.3)		11(4.9)		16.1(6.4)	
<b>Cancer Site</b>		< 0.001		<0 .001		< 0.001		0.102		<0 .001		< 0.001
Breast (139)	26.1(13.3)		68.2(17.4)		14.1(8.2)		20.4(3.4)		13.2(5.2)		20.5(5.1)	
Colorectal (54)	20.9(12.6)		61.3(16.9)		10.7(8)		20(3)		11.2(5.1)		19.5(5.6)	
Stomach (18)	23.8(11.8)		61.7(18.5)		13.1(9)		18.6(6.1)		12.6(5.9)		17.5(6.1)	
Others (29)	27.1(11.8)		69(15)		13.9(7.9)		20(4)		14.5(4.7)		20.6(5.2)	
Lung (20)	15(11.1)		50(13.7)		7.6(7.5)		17.7(5.4)		9.4(5)		15.3(7.8)	
Gastrointestinal (19)	17.2(12.3)		49.9(17.4)		7.4(8.6)		19.1(3.9)		9.8(4.5)		13.6(5)	
Brain (19)	15 (10.9)		53.3(18.4)		7.7(8)		19.3(3.2)		8.6(6)		17.7(5.2)	
Lymphoma (20)	20.3(13.2)		63.9(15.2)		13.7(8.5)		18.7(4.6)		11.5(4.9)		20.1(5.3)	
Gynaecological (24)	20.6(10.1)		61(14.6)		10.4(6.7)		19.5(3.8)		12(5.1)		19.1(5.3)	
Urinary (27)	21.8(13.4)		65.1(18)		12.8(8.3)		19.8(3.5)		12.4(5.8)		20.1(6.4)	
<b>Stage of Disease</b>		0.25		0.004		0.17		0.11		0.07		< 0.001
I (34)	25.1(13.1)		69.6(18.9)		14.1(8.1)		21.3(3.2)		13.4(5.8)		20.8(5.5)	
II (145)	23.6(11.9)		65.3(16.8)		12.8(8.4)		19.8(4.2)		12.7(5.2)		20(5.6)	
III (107)	22.7(13.7)		62.9(16.4)		12(8.1)		19.6(3.3)		12(5)		19.4(5.5)	
IV (72)	19.9(13.7)		57(19.3)		10.4(8.5)		19.2(3.7)		10.8(5.5)		16.6(6.2)	
Unspecified (11)	21.5(13.8)		62.5(17)		10.3(8.2)		19.6(5.1)		10.8(7)		21.8(3.5)	
<b>Comorbidities</b>		<0 .001		<0 .001		<0 .001		.04		<0 .001		<0 .001
No (193)	26.7(12.5)		68.6(16.8)		14.6(8.2)		22.9(4.5)		13.4(5.1)		20.6(5.6)	
Yes (176)	18.3(12.1)		57.5(16.8)		9.4(7.7)		21.9(4.5)		10.7(5.3)		17.9(5.6)	

