

Figure 1 demonstrated the number of not achieving PSG related to low FACT-G total score (r = -0.20, p = 0.03). In multivariate linear regression, the number of symptoms not achieving was independently associated with low FACT-G total scores (Table 3). Table 4 showed younger patients and patients with higher symptom intensity of depression had more symptoms not achieving PSG concurrently. Not achieving PSG of pain, tiredness, lack of appetite and shortness of breath had significant negative impact on FACT-G total score (Table 5).

and the number of symptoms not achieving PSG with adjustment for ECOG-PS

Variable	Coefficient	Standard Error	р
Number of symptoms not achieving PSG	- 0.24	0.66	< 0.01
ECOG-PS	- 0.29	1.40	< 0.01

Table 1	Patients characteri	Table 2. FACT-G total score by the number of							ber of	2	Table 4. Multivariate linear regression analysis: Associat					
Variables $(n = 140)$ $n(\%)$		Number of			JIIIS II	s not achieving PSC			FACT-G total							
	Lung	30 (21.4)	S	symptoms not achieving PSG 0 1			n (%)			score Mean (SD)		Variable			Coefficient	2
Tumor site	Gastrointestinal*1	29 (20.7)	ac			ſ						、 Age	-0.20			
	Head and Neck	22 (15.7)					23 (16.4)	(65.9 (1	16.1))	Gender (M	ale / Female)		0.01	
	Hepatobiliary system	20 (14.3)					18 (12.9)		64.8 (17.3)	ECOC DS			0.06	
	Breast	18 (12.9)	2 3 4		2		21 (15.0)			59.0 (15.3)	ECC	JQ-P3		0.00	
	Urinary system	12 (8.6)				24 (17.1) 19 (13.6)			61.0 (11.2)	Symptom intens	sity of anxiety sity of depression		0.25		
	Other	9 (6.4)							62.8 (15.9)	Symptom intens			0.14		
Ongoing an	ticancer treatment*2	71 (50.7)	5			22 (15.7)		57.1 (10.6)						
MEDD (mg) Median (IQR)		45 (30–100)	6			13 (9.3)			51.5 (12.3)	Table 5 FSAS P	SG and PS	and PSG achieven		G to	
ECOCID	0	14 (10.0)	Μ	Median (IOR) $3(1-4.75)$						achieving and not achieving PSG						
	s 1	53 (37.9)	Figure	1. Relationship betw and the number of			between FACT-G total score		ore							
ECOO-F	2	47 (33.6)	Inguit				er of sy	of symptoms not achieving			ing PSG	Symptom	Median	Median Median	Achievement -	Ach
	3	26 (18.6)		90 -	2 1				C		(IQR)		(IQR)	of PSG	N	
	Total	60.9 (14.6)		80	т	т						Pain	3 (1 - 6)	2(0-3)	36.4 %	64.
EACT	PWB	15.9 (5.9)	ore	80 -			Ţ	T	ł			Tiredness	3(2-5)	2(0-3)	35.7 %	65.
TACI-C	SWB	14.9 (5.3)	l sc	70 -						Ŧ		Drowsiness	3(1-5)	2(0-3)	45.0 %	61.
Mean(SL	EWB	14.6 (5.3)	-G tota	(0)		+				Т	Т	Nausea	0(0-1)	$\frac{1}{0}(0-1)$	80.0%	61
	FWB	14.5 (6.2)		00 -			•	† 1		+		Lack of annetite	2(0-5)	1(0-3)	58.6%	63
painDETE	CT Mean (SD)	7.7 (6.1)	VCT	50 -		l		1			+	Shortness of breath	$2(0 \ 3)$ 1(0 4)	$1(0 \ 3)$ $1(0 \ 2)$	50.0 <i>%</i>	63
EWB, emotional well-being; FWB, functional well-being; MEDD, calculation of morphine equivalent daily dose; PWB physical well-being: SWB social/family well-being				40 -			1			-		Depression	1(0-4) 2(0-4)	1(0-2)	01.4 /0	05.
												Anxiety	2(1-5)			
*/ Colon, rectum, esophagus, and stomach.				30 -	 	1	 2	2		5	6	Well being	4(3-6)			
*2 Radiotherap	y, chemotherapy and horm			Numh	er of	svmp	toms n	- ot ach	ievinø	PSG		. (5 0)				
							ур				Conclusi	on				

Poor quality of symptom management negatively influences on patient's HRQOL !!

The results revealed:

- 1) Increased the number of symptoms not achieving PSG makes HRQOL worse in cancer patients.
- 2) Patients with younger age and higher symptom intensity of depression have potential risk to experience more symptoms concurrently.
- 3) Poor management of pain, tiredness, lack of appetite and shortness of breath have negative influences on patients` HRQOL significantly.
 - Patients with advancer cancer are easy to experiences multiple concurrent symptoms ³).
 - Healthcare providers should be screening and manage any concurrent symptoms for improving patient's HRQOL.

Present study had several limitations;

- Single center study
- The potent difficulty of concept as "comfortable with this symptom" for Japanese patients.
- PSG for depression, anxiety and well-being were excluded from the analysis.

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Variable	Coefficient	Standard Error	р
、Age (/year)	-0.20	0.01	0.02
Gender (Male / Female)	0.01		0.91
ECOG-PS	0.06		0.50
symptom intensity of anxiety	0.25	0.06	< 0.01
symptom intensity of depression	0.14		0.31

otal score between patients

I. Relationship between FACT-G total score						otal sc	ore		ESAS	PSG	Achievement	FACT-G total score			
and the number of symptoms not achieving PSG				Symptom	Median	Median	of DSG	Achieving PSG N	Achieving PSG Not achieving PSG						
90	ר								(IQR)	(IQR)	01150	Mean (SD)	Mean (SD)	р	
80	Ιτ	т						Pain	3 (1 - 6)	2 (0 – 3)	36.4 %	64.6 ± 15.5	58.9 ± 13.8	0.04	
00								Tiredness	3 (2 – 5)	2(0-3)	35.7 %	65.0 ± 15.2	58.6 ± 13.8	0.02	
70	┨ ↓					т		Drowsiness	3(1-5)	2(0-3)	45.0 %	61.8 ± 16.1	60.0 ± 13.2	0.50	
60	-	Ī	ļ	+	+		Ţ	Nausea	0(0-1)	0(0-1)	80.0~%	61.7 ± 14.7	57.3 ± 13.8	0.22	
50						Ī	↓ _	Lack of appetite	2(0-5)	1(0-3)	58.6 %	63.4 ± 15.3	57.1 ± 12.8	0.02	
50	1 -	I		-	T	T		Shortness of breath	1(0-4)	1(0-2)	61.4 %	63.0 ± 15.3	57.5 ± 12.9	0.04	
40	-						l	Depression	2(0-4)						
30	<u> </u>							Anxiety	2(1-5)						
50	0	1	2	3	4	5	6	Well being	4(3-6)						
	Number of symptoms not achieving PSG														
							Conclusi	on							

3) Omran S, et al. Asian Pac J Cancer Prev 2017.

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