

HIGH PREVALENCE OF MALNUTRITION AND NUTRITION IMPACT SYMPTOMS IN OLDER PATIENTS WITH CANCER: RESULTS OF A BRAZILIAN MULTICENTER STUDY

MON-PO38

N. B. de Pinho^{1,2,4}, R. B. Martucci^{2,3,4}, V. D. Rodrigues^{1,4}, C. A. D'Almeida¹, L. C. S. Thuler¹, C. Saunders², H. Jager-Wittenaar^{5,6}, W. A. F. Peres^{2,4} ¹National Cancer Institute José Alencar Gomes da Silva,Brazil (INCA), ²Federal University of Rio de Janeiro, ³State University of Rio de Janeiro (UERJ), Brazil, ⁴Brazilian Society of Oncology Nutrition, Brazil, ⁵Hanze University of Applied Sciences, Groningen, The Netherlands, ⁶University Medical Center Groningen, Groningen, The Netherlands. Corresponding author: Nivaldo Barroso de Pinho. npinho@inca.gov.br.

BACKGROUND

Malnutrition in cancer is an independent factor associated with negative clinical outcomes. We aimed to evaluate the prevalence of malnutrition across different age groups in patients with cancer in Brazil, and to identify associations with nutrition impact symptoms (NIS). Methods: In this observational, cross-sectional, multicenter study we evaluated 4.783 patients with cancer aged \geq 20 years admitted to 45 public hospitals in Brazil. Nutritional status, nutritional risk, and nutrition impact symptoms were evaluated using the Patient-Generated Subjective Global Assessment (PG-SGA). Results: 25.5% of all participants were \geq 65 years. In subjects aged \geq 65 years, the prevalence of moderate/suspected and severe malnutrition was 55%, 45.4% in those aged 51 to 64 years, and 36.1% in those aged \leq 50 years. Among the NIS with higher risk of occurrence in the subjects aged \geq 65 years: no appetite (OR 1.90, 95% Cl 1.62-2.22, p<0.05) and dry mouth (OR 1.40, 95% Cl 1.18-1.67 p<0.05); in the range between 51 to 64 years, compared to individuals aged \leq 50 years: no appetite (OR 1.45, 95% Cl 1.23-1.69 p<0.05), dry mouth (OR 1.22 95% Cl, 1.02-1.45 p<0.05), and problems of swallowing(OR 1.56, IC 95% 1.25-1.96 p<0.05).Conclusions: The prevalence of malnutrition and occurrence of NIS is high in Brazilian hospitalized cancer patients aged \geq 65 years. The occurrence of the NIS was higher in the population aged >50 years than in those aged \leq 50 years. Nutritional screening and assessment should be performed immediately after hospitalization, in order to enable early diagnosis and multi-or interdisciplinary intervention(s).

Clinical and nutritional outcomes	51-64 years vs. \leq 50 years OR (95% CI)	\geq 65 years vs. \leq 50 years OR (95% CI)	
At least one nutrition impact symptom	1.13 (0.98 to 1.30)	*1.36 (1.18 to 1.57)	
No appetite	*1.45 (1.23 to 1.69)	*1.90 (1.62 to 2.22)	
Problems swallowing	*1.56 (1.25 to 1.96)	*1.43 (1.13 to 1.81)	
Feel full quickly	0.85 (0.70 to 1.02)	*0.78 (0.64 to 0.95)	
Dry mouth	*1.22 (1.02 to 1.45)	*1.40 (1.18 to 1.67)	
Severely malnourished (PG-SGA Stage = C)	*1.55 (1.23 to 1.94)	*1.84 (1.47 to 2.31)	

Table 1. Odds ratio and the confidence interval for the clinical and nutritional outcomes in hospitalized adults and older adult cancer patients.

Malnourished (PG-SGA Stage B + C)	*1.47 (1.28 to 1.69)	*2.16 (1.87 to 2.50)	
Weight and activity/function			
Weight loss	*1.21 (1.05 to1.39)	*1.35 (1.17 to 1.56)	
Decreased activity/ function	*1.42 (1.15 to 1.76)	*1.58 (1.28 to 1.96)	
Decreased activity/ function *p < 0.05; 95% CI = confidence interval; OR = odds ratio			ec

Table 2. Prevalence of nutrition impact symptoms according to the type of tumor.

Global Assessment

Nutrition impact Symptoms	Total N %	Intestine N %	Gynecological N %	Upper digestive N %	Head/neck N %	Lung N %	Lymphoma N %	Leukemia N %	Other N %	Breast N %
	(n = 4783)	(n = 760)	(n = 580)	(n = 375)	(n = 353)	(n = 193)	(n = 168)	(n = 168)	(n = 1512)	(n = 674)
No appetite	1374 28.7	245 32.2	203 35.0	137 36.5	81 22.9	86 44.6	68 40.5	58 34.5	349 23.1	147 21.8
Nausea	949 19.8	191 25.1	177 30.5	114 30.4	41 11.6	52 26.9	38 22.6	32 19.0	189 12.5	115 17.1
Vomiting	590 12.3	115 15.1	118 20.3	95 25.3	32 9.1	36 18.7	21 12.5	10 6.0	96 6.3	67 9.9
Diarrhea	223 4.7	83 10.9	30 5.2	21 5.6	7 2.0	9 4.7	12 7.1	6 3.6	33 2.2	22 3.3
Mouth sores	208 4.3	26 3.4	16 2.8	13 3.5	63 17.8	5 2.6	14 8.3	14 8.3	34 2.2	23 3.4

Things taste funny or have no taste	687	14.4	146	19.2	123	21.2	60	16.0	27	7.6	38	19.7	35	20.8	26	15.5	141	9.3	91	13.5
Smells bother me	720	15.1	165	21.7	139	24.0	67	17.9	23	6.5	46	23.8	36	21.4	32	19.0	137	9.1	75	11.1
Problems swallowing	531	11.1	42	5.5	39	6.7	116	30.9	142	40.2	37	19.2	12	7.1	8	4.8	98	6.5	37	5.5
Feel full quickly	722	15.1	136	17.9	123	21.2	94	25.1	18	5.1	37	19.2	32	19.0	32	19.0	169	11.2	81	12.0
Dry mouth	975	20.4	187	24.6	143	24.7	102	27.2	69	19.5	47	24.4	44	26.2	42	25.0	219	14.5	122	18.1

Projeto Gráfico: Área de Edição e Produção de Materiais Técnico-Científicos / INCA

