

INFORMATION NEEDS REGARDING NUTRITIONAL SUPPORT FOR PATIENTS WITH ADVANCED CANCER

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BACKGROUND

Patients with advanced cancer are at risk for malnutrition and the development of anorexia-cachexia syndrome, which is often under-treated. The objective of our study is to investigate the information needs of patients with advanced cancer regarding nutritional support such as hydration, parenteral nutrition and tube feeding.

METHODS

One hundred patients with cancer were prospectively enrolled to complete 2 questionnaires. We collected patient demographics, cancer diagnosis, weight history and height. The questionnaires administered evaluated patients' perception of information needs regarding nutritional support and interventions. Descriptive statistics and comparisons were made using the chi-squared test. A *p*-value<0.05 was considered significant.

RESULTS

Table 1. 165 Patients with cancer were approached 100 (61%) completed the prospective survey. Average (SD) age was 61.6 years old (11.5) Majority were Female Gender (52%), Caucasian (75%), Married (80%) Most common cancers - Gastrointestinal (22%) & Genitourinary (21%).

•In the nutrition questionnaire, 46 patients (46%) responded "yes" to the question "Would you like to receive nutritional support at this stage?". Table 2 notes specific information needs of "yes" responders. No statistical difference in preference for nutritional support (no cachexia 51% vs cachexia 42%, p=0.4) was noted.

•The responses to the question "Best time in your opinion to receive nutritional support?" were 51% "At time of cancer diagnosis" and 37% "When anorexia, weight loss, and muscle weakness become apparent". When asked preferences of who in the medical staff to provide information, 51% preferred a nutritional support team and 33% a dietitian.

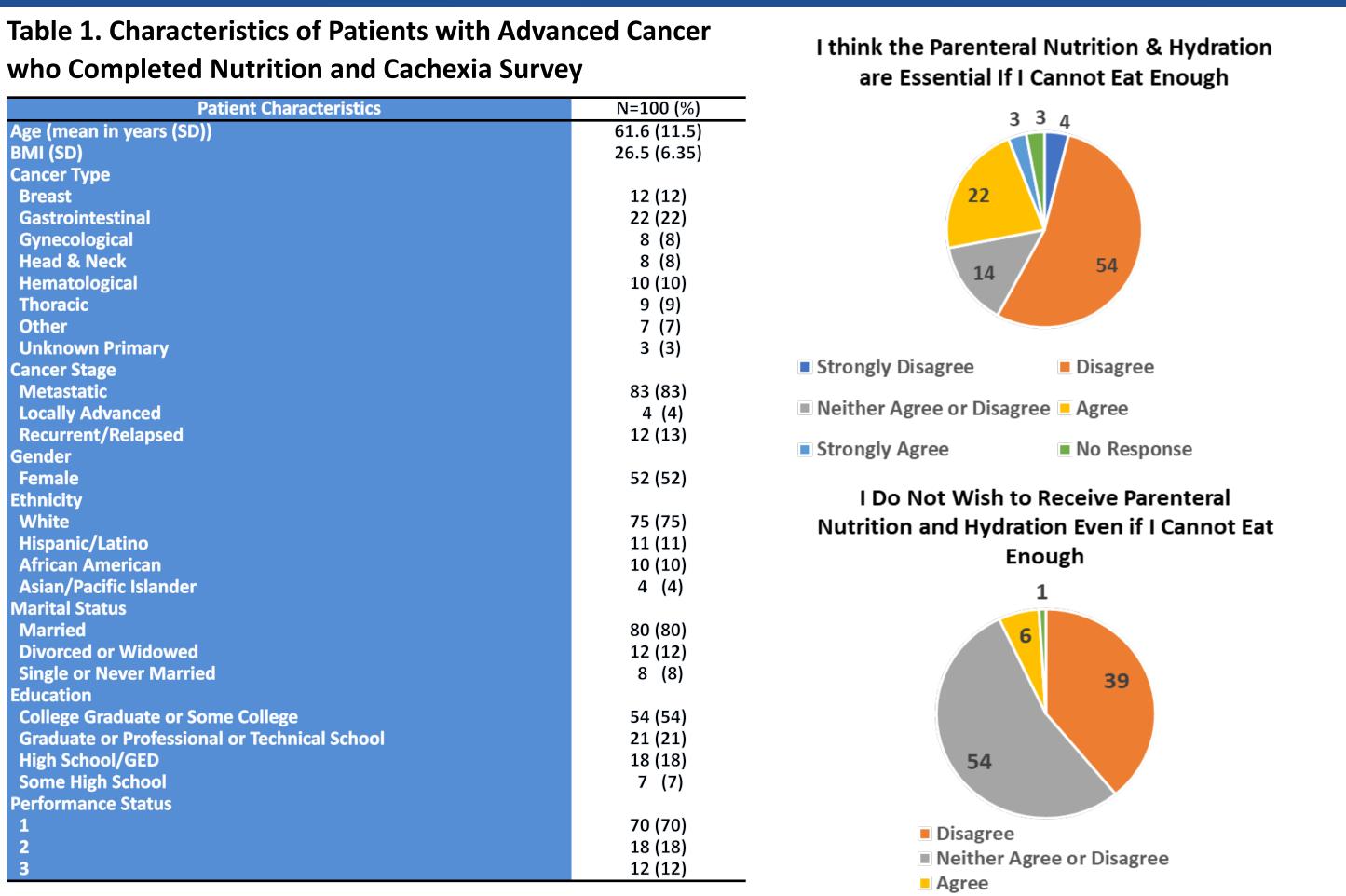
•The preferences for nutritional information and treatments varied widely among patients as presented in Table 3. Regarding decision-making preferences for nutritional support, 23% of patients preferred autonomy, 26% family centered, and 22% attending physician to decide.

Age (mean in years (SD)) BMI (SD) **Cancer Type** Breast Gastrointestinal Gynecological Head & Neck Hematological Thoracic Other **Unknown Primary** Cancer Stage Metastatic **Locally Advanced Recurrent/Relapsed** ender Female Ethnicity White Hispanic/Latino African American Asian/Pacific Islander Marital Status Married **Divorced or Widowed Single or Never Married** lucation **College Graduate or Some College Graduate or Professional or Technical School** High School/GED Some High School

advanced cancer.

Nutritional Interventions N=46 **Nutritional Cour Ideas to improve** intake **Parenteral nutri** and hydration

Tube Feeding



RESULTS

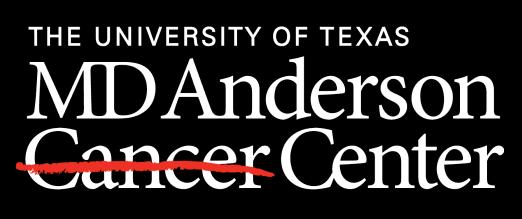
 Table 2. Information needs regarding
nutritional support in patients with

Table 4 Perceptions regarding nutritional support

No Response

Questions	N (%, 95% CI)
N=100	
The best time to receive nutritional support	
At the time of cancer diagnosis	51 (51, 41-61)
When anorexia, weight loss, and muscle weakness become apparent	36 (36, 27-45)
At the time of the first diagnosis of metastasis or recurrence of cancer	4 (4, 0-8)
At the time of the decision to receive no anti-cancer treatment or its cessation	1 (1, 0-3)
Not sure	7 (7, 2-12)
The best medical staff to provide nutritional support	
Nutritional support team	58 (58, 48-68)
A Dietitian	33 (33, 24-42)
Attending physician	3 (3, 0-6)
Nurse	2 (2, 0-5)
Other (Education Handout, Physician Assistant, Family Member)	4 (4, 2-8)

	"Yes" or "Yes, if necessary" N (%, 95% CI)
nseling	38 (83, 72-94)
e food	37 (80, 69-92)
ition	28 (61, 47-75)
	18 (39, 25-53)



Making Cancer History®

RESULTS

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Questions Regarding Nutritional S	upport	"Strongly agree" or "Agree" <i>n</i> (%, 95% CI)
Patient Preference for Nutritional Support	I do not wish to receive tube feeding	12 (12, 6-19)
	even if I cannot eat enough. (n=98)	
	I do not wish to receive parenteral	6 (6, 1-14) 25 (26, 17-34)
	nutrition and hydration even if I	
	cannot eat enough. (n=97)	
	I think that parenteral nutrition and	
	enough. (n=97)	
	I think that parenteral hydration is	24 (25, 16-33)
	essential at least if I cannot eat	
	enough. $(n=97)$	14(14.7.21)
	I think that medical staff need to	
	provide appropriate nutritional	14 (14, 7-21)
	treatment. (n=99)	
Decision Making Preferences	I would like to leave the decision	21(22, 12, 20)
	about nutritional treatment to my $(n=0.7)$	21 (22, 13-30)
	attending physician. (n=97) I would like to decide on nutritional	
	treatment myself.	23 (23, 15-32)
	I think that my family members'	
	opinions about nutritional treatment	30 (30, 21-39)
	are very important. (n=98)	50(50, 21-57)
	I would like to leave the decision	
	about nutritional treatment to my	26 (26, 18-35)
	family members. (n=99)	20 (20, 10 00)
	I think that my family members and I	
	disagree about nutritional treatment.	11 (11, 5-17)
	(n=100)	

CONCLUSION

- **Patients with Advanced Cancer have Diverse Preferences for Parenteral** Nutrition or Hydration
- **Information needs vary regarding the need for nutritional support including** hydration and tube feeding from the perspective of patients with advanced cancer.
- Most patients preferred information provided from a nutritional support team and early in the disease trajectory.

