1676P. Nutritional assessment in the era of targeted therapies in advanced Non-Small Cell (aNSCLC) addicted Lung Cancer patients oncogene

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BACKGROUND

Pre-treatment nutritional status is an important prognostic factor in aNSCLC patients (pts). However, its value is not yet clarified in those receiving targeted including tyrosine therapies. kinase inhibitors (TKIs). The aim of present study was to define an algorithm for early identification treatment of and

METHODS

addicted.

malnourished pts with aNSCLC oncogene

In aNSCLC oncogene addicted pts (EGFR mutated or other) a nutritional screening performed before starting therapy. Body mass index (BMI;kg/m²), handgrip strength (kg), previous 6-months weight changes (%), albumin levels (g/dl) and Prognostic Nutritional Index-PNI (10 × serum albumin (g/dl) + 0.005 × total count (per mm^3) lymphocyte were collected. Correlations between the nutritional parameters and the clinicopathological characteristics were analysed using *t-Student test*.

(p=0.01).

49 pts 67 (35-Median 84) age (range) 12/37 male/fem ale EGFR/ 32/17 other BMI 18.5-32 24.9 (G1) BMI≥ 25 14 (G2)BMI≤ 3 18.5 (G3)

Table 1. Pts' characteristics

In Table 1, pts' characteristics. In G2 (Table 2), pts presented higher functional index (handgrip), higher 6-months weight gain, were less frequently EGFR mutated. Furthermore, they had lower albumin levels and PNI scores. Grouping pts according to tumor mutation (EGFR vs other), mean BMI was 22.3 (4.1) vs 25.4 (6.3) (p=0.04); mean 6-months weight change was -3.5 kg (9.5) vs +3.4 kg (10.2) (p=0.02). Pts with mutation other than EGFR presented more frequently BMI ≥25: 9/15 (60%) vs 5/31 (16.1%)

RESULTS

Table 2. Preliminary results according BMI				indexes, but with worst
	G1	G2	p-value	nutritional parameters, so that they may worth fully nutritional assessment and counselling to prevent or treat sarcopenic obesity. REFERENCES Morel H, Lung Cancer, p. 126:55–63, 2018 Zamboni M, Curr Opin Clin Nutr Metab Care, pp. Jan;22(1):13-19, 2019.
Handgrip strength (Kg) (mean)	22.8 (6.8)	28.2 (11.1)	p=0.05	
6-months	-4.1 Kg(6.5)	+7.2 Kg(12.1)	p<0.001	
weight	, J	3()	•	
change (mean)				
Albumin level (g/dl)	3.5 (0.5)	3.2 (0.4)	p=0.05	
(mean)				
PNI score (mean)	34.9 (5.3)	31.7 (3.6)	p=0.05	E-mail a.mariamorelli@gmail.com Morelli AM has no COI to declare

According to preliminary aNSCLC oncogene addicted pts BMI>25 presented with higher functional indexes, but with worst nutritional parameters. so that they may worth fully nutritional assessment

CONCLUSION

our

data.

with

REFERENCES

- Morel H, Lung Cancer, p. 126:55-63, 2018
- Zamboni M, Curr Opin Clin Nutr Metab Care, pp. Jan;22(1):13-19, 2019.