HYPONATREMIA IN PATIENTS HOSPITALISED IN A MEDICAL ONCOLOGY UNIT: SOMETHING NOT TO UNDERVALUE

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INTRODUCTION & OBJECTIVES

Introduction:

Hyponatremia (plasmatic sodium lower than 135 mEq/L) is the most frequent electrolytic alteration in patients with malignancies¹.

According to NCI-CTCAE (version 4.03)² classification it can be divided into three degrees:

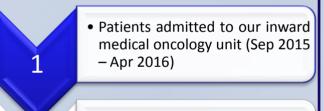
- I grade: 135 130 mEq/L,
 III grade: 130 120 mEq/L,
- IV grade: < 120 mEq/L (potentially fatal).

Objectives:

We wanted to analyse the incidence of hyponatremia in hospitalised patients and their clinical characteristics.

METHODS

We analysed patients hospitalised between September 2015 and April 2016 in our Medical Oncology Unit (Hospital S. Chiara, Pisa, Italy). The determination of natremia was made at the admission and analysed in the same laboratory.



Evaluation of sodium serum levels at admission

 Descriptive analysis of patients with hyponatremia (cancer type, stage, treatment...)

Method of our analysis

RESULTS

We analysed 178 patients for a total of 276 blood samples (several patients underwent different hospitalisations).

We found 59 patients (33.15%) with hyponatremia. Seven patients experienced different episodes of hyponatremia, leading to 69 samples positive for hyponatremia.

More precisely, 55 patients in 58 (84.06%) samples had grade-1, 8 patients in 8 (11.59%) samples grade-3, and 2 patients in 3 samples (4.35%) grade-4 hyponatremia.

The most frequently associated malignancies were head-and-neck (22.03%), colorectal (15.25%), NSCLC (11.86%), and SCLC (1.69%). The majority of patients were on best supportive care (40.68%), while patients on treatment had

care (40.68%), while patients on treatment had often received cisplatin (22.03%) or carboplatin (10.17%).

Clinical Chacteristics in hyponatremic pts	Number of patients (%)
Type of tumour •Head and Neck •Colorectal •NSCLC •SCLC	13 (22.03%) 9 (15.25%) 7 (11.86%) 1 (1.69%)
Received treatments •Supportive care •Cisplatin •Carboplatin	24 (40.68%) 13 (22.03%) 6 (10.17%)

Clinical characteristics of pts with hyponatremia

CONCLUSIONS

Our study confirms the high frequency of hyponatremia in oncological patients.

This alteration, though being more frequent in some settings (such as, patients with head-and-neck and lung cancers, patients receiving platinum compounds), can be found in patients affected by any kind of tumour, in any stage, receiving any treatments.

This high frequency underlines the importance of the surveillance of the electrolytes, whose alterations might have important consequences that might be avoided with a correct and early management of these patients.

REFERENCES

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