THE ROLE OF TOLVAPTAN IN SYNDROME OF INAPPROPRIATE ANTI DIURETIC HORMONE SECRETION: clinical outcomes and effect on length of stay

López Vázquez Y, Páramo Fernández C, Barragán Pérez M, Trigo Barros C, Martínez González Á, Lago Garma J
Complejo Hospitalario Universitario de Vigo (Spain).

OBJECTIVES

Hyponatremia is the most common electrolyte imbalance among hospitalized patients. Syndrome of inappropriate antidiuretic hormone secretion (SIADH) is considered the most frequent etiology on patients with euvolemic hyponatremia. Conventional treatment includes water restriction and salt tablets with limited efficacy and very slow onset of action in certain patients

METHODS

Systematic sampling of all SIADH patients treated with tolvaptan (group A, n = 12) in our service over the last two years was compared to 12 within the conservative treatment group (group B). The average age was similar in both groups (A: 71.8 years vs B: 71.6 years) with a clear male predominance in the whole sample. The average plasma sodium was also similar (A: 123.4 mmol/ L vs B: 123.8 mmol / L). SIADH etiology was mainly neurosurgical (A: 9 patients and B: 7 patients). The length of hospital stays was compared with the time span till natriemia normalization in both groups. The variables are expressed as mean ± standard deviation. The statistical analysis used was t-Student. P-value < 0.05 was considered significant.

RESULTS

The length of hospital stay from the beginning of the treatment was 11.1 ± 8.1 days in the tolvaptan-treated group and 16.7 ± 11.5 days in the conservative-treatment group (p = 0.18). The mean hospital stay was higher for those treated with conservative therapy. Normalization of natriemia took 2.7± 2.7 days in the tolvaptan-treated group and 11.3 ± 9.4 days in the conservative-treatment group. The speed of correction of the hyponatremia was statistically significant for those in the tolvaptan-treated group (p=0.04).

CONCLUSIONS

Tolvaptan treatment in SIADH patients shows a rapid normalization of natriemia, effectively reducing inpatient length of stay.

References
