

TOLVAPTAN OFF-LABEL USE IN HYPONATREMIA DUE TO HEART FAILURE. A CASE SERIES.

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Background

The vasopressin receptor 2 antagonist **tolvaptan** is an **aquaretic** agent that promotes **water elimination** to resolve **hyponatremia** secondary to the syndrome of inappropriate antidiuretic hormone secretion (SIADH). There are ongoing studies researching its capacity of being effective also in hyponatremia secondary to **heart failure**, in which patients have a body water excess that dilutes sodium.



Material and methods

Observational retrospective study carried out in a tertiary care hospital. We conducted a searching to find all the patients treated with tolvaptan. The next step was to identify the off-label use in heart failure. Once the patients were identified, we extracted their demographic data, laboratory tests, and tolvaptan treatment duration and dosages. The data was inserted in an Excel[®] chart to make a descriptive analysis.

Results

28 patients were found, but only 6 met off-label use criteria. There were 2 women and 4 men. One of them passed away 72 hours after his admission and was excluded. The median age was 70 years old

(range 54-80). Only two patients (Patients 1 and 2) had a sodium charge with hypertonic saline fluid before tolvaptan treatment, but their sodium level didn't increase. Neither of them had NaCl oral therapy. During tolvaptan treatment, 3 patients were on furosemide (Patients 3, 4 and 5), one on furosemide + hydrochlorothiazide (Patient 1) and one on furosemide + chlorthalidone + spironolactone (Patient 2).

CONCLUSIONS







 Based on our data, it seems that tolvaptan is an effective option to increase natremia in heart failure patients.

 However, due to our small population, we cannot conclude it categorically.



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