

Hyponatremia as a Prognostic Factor in Advanced Stage Ovarian Cancer Patients

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Abstract

Background: hyponatremia represents one of the most commonly encountered conditions in hospitalized patients, multiple mechanisms being cited so far, neoplastic syndromes being an important cause. The aim of the current paper is to analyse the presence and influence of the short- and long-term outcomes of hyponatremia on ovarian cancer patients submitted to surgery for advanced stage ovarian cancer.

Method: 57 patients diagnosed with advanced stage ovarian cancer were submitted to surgery between 2014-2020. The patients were further classified according to the preoperative value of sodium into two groups.

Results: there were 21 cases with preoperative normal values of sodium and respectively 36 cases with hyponatremia. Patients with preoperative hyponatremia associated a significantly higher rate of early postoperative complications and a significantly poorer long-term outcome. Therefore, cases with hyponatremia reported a mean disease-free survival of 10.8 months and respectively a mean overall survival of 18.5 months while cases with normal sodium levels reported a mean disease-free

survival of 31.4 months and respectively a mean overall survival of 49.7 months ($p=0.0001$ and $p<0.001$).

Conclusions: patients with lower preoperative values of sodium have a higher risk of developing postoperative complications and a significantly poorer outcome when compared to cases presenting normal levels of sodium preoperatively.

Key words: hyponatremia, ovarian cancer, morbidity, long term outcomes