



UNIVERSITÀ  
POLITECNICA  
DELLE MARCHE

## RESEARCH AREA: HEALTH - EPIDEMIOLOGY

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**TITLE:** Epidemiology and prognostic value of hyponatremia in hospitalized patients with COVID-19 (EpiSodiCO Study)

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**UNIVPM Research Group:** Clinica di Endocrinologia e Malattie del Metabolismo group.

**Research activity description:** Background. Hyponatremia represents a serious health problem with significant associate morbidity and mortality. The prevalence of hyponatremia is significant in patients hospitalized for pneumonia and is associated with worse outcomes, higher rates of intensive care unit (ICU) admission, mechanical ventilation and hospital lengths of stay.

Aim. To assess the prevalence of hyponatremia in a cohort of patients with COVID admitted to the hospital, to verify the clinical course of sodium disorders during hospitalization and to confirm the impact of hyponatremia on outcome, length of hospital stay and in-hospital mortality.

Design and methods. Retrospective observational study. Data on all COVID patients admitted to AOU Ospedali Riuniti di Ancona, a teaching hospital, between February and April 2020 with had at least one sodium measurement during hospitalization were retrospectively obtained.

Expected results. Hyponatremia is a frequent electrolyte disorder in hospitalized COVID patients and is associated with a more severe outcome and resource utilization. The active diagnosis and treatment is important because its presence may also independently contribute to morbidity and mortality in COVID patients.

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