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Predisposing factors for serum sodium disturbance in patients with severe traumatic brain injury (SBI)

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Abstract: Disturbances in the plasma sodium level in patients with severe brain injury (SBI) is not a rare phenomenon and may cause adverse effects on prognosis and treatment outcomes. The knowledge of the prevalence of risk factors helps in early detection and good management of the serum sodium level disturbance.

Materials and methods: This is a prospective clinical trial double blind study. The target population included patients with SBI who had disturbances in their plasma sodium level and were admitted at the ICU of Kashani Hospital, Isfahan, Iran, between January and October 2006. The patients with renal insufficiency, diuretic therapy, massive transfusion, brain death, and spinal cord injury were excluded. Gender, age, the prevalence of hypo- and hypernatremia,

having tracheal tube or tracheostomy,