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Fluid balance concepts in medicine: Principles and practice

Maria-Eleni Roumelioti, Robert H Glew, Zeid J Khitan, <sup>3</sup> Helbert Rondon-Berrios, Christos P Argyropoulos, Deepak Malhotra, Dominic S Raj, Emmanuel I Agaba, Mark Rohrscheib, Glen H Murata, Joseph I Shapiro, Antonios H Tzamaloukas

## Abstract

The regulation of body fluid balance is a key concern in health and disease and comprises three concepts. The first concept pertains to the relationship between total body water and total effective solute and is expressed in terms of the tonicity of the body fluids. Disturbances in tonicity are the main factor responsible for changes in cell volume, which can critically affect brain cell function and survival. Solutes distributed

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Assessing hydration status and measuring fluid balance can ensure optimal hydration. Author Alison Shepherd is tutor in nursing, department of primary care and child health, Florence Nightingale School of Nursing and.

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