

New Water : The source of life Physiological aspects and medical applications

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Abstract

Water is the source of life. Indeed, everything that is alive requires water and all organisms are chemical systems in aqueous phase. In medicine, water is the main determinant of the hydroelectrolyte and acid-base balance which concerns the relationships between the different electrolytes (sodium, potassium, chlorine, calcium, magnesium, phosphorus, etc.) and the water contained in the body. Thus, numerous pathological or therapeutic situations can disrupt this balance (intake deficit, excess loss, renal, pulmonary, cardiac insufficiency, contamination of drinking water, medications, etc.). In health establishments, water which is an essential element for their operation (water for food use, water for standard care, specific treated water, sterile water, technical water, etc.), can constitute a source of serious infections, in cases of contamination, particularly for the most fragile patients, hence the need to control water quality and implement a global risk management approach. In medical biology, water is the most used reagent in clinical laboratories. It is used at all levels of chemical, biological and physical analyses. It is crucial to know the type of water used because several analyzes can be affected by its quality.



Recent Publications)

1. Rochdi, C.; Allai, L.; Bellajdel, I.; Taheri, H.; Saadi, H.; Mimouni, A.; Choukri, M, *Journal of Reproduction and Infertility*. Volume 25, Issue no. 1, Jan-Mar 2024.
2. Nour Elhouda Daoudi; Soufiane El Assri; Mohammed Aziz; Mohammed Choukri and all. *Journal of Ethnopharmacology*. Volume 328, 28 June 2024.
3. Rochdi C; Ouadrhiri M; Allai L; Bellajdel I; Mamri S; Taheri H; Saadi H; Mimouni A; Choukri M., *Clinical and experimental reproductive medicine*, Published online: March 25, 2023.
4. Oussama Grari, Amina Himri, Nisma Douzi, Soufiane Beyyoudh, Imad-Eddine Elkhamlichi, Kaoutar Benaissa, Dounia Elmoujtahide, El-Houcine Sebbar, Mohammed Choukri., *Journal of Medical Biochemistry*. 43: 1 –5, 2024

Biography



Author is a professor of higher education in chemistry-biochemistry at the Faculty of Medicine and Pharmacy of Oujda and head of the central laboratory service at the Mohammed VI University Hospital of Oujda. He is also responsible for the IVF laboratory of the medically assisted reproduction unit. He is a member of several national commissions at the Ministry of Health and the Ministry of Higher Education. Professor Mohammed Choukri is an active member of several learned societies and holder of more than 90 international publications. Her H-index is 8 on Scopus.

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