

Investigation of Temperature, pH, and Electrical Conductivity of Normal Saline under Taheri Consciousness Field 2 Treatment

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Abstract

In the studies conducted by other researchers, it has been established that the solvation of solutes into water leads to changes in its physical properties, including the boiling and freezing points, indicating the influence of solutes on the physicochemical properties of pure water. In studies on the effects of T-Consciousness Fields on water, it is important to investigate the structure of the water solution since we seek to determine the degree and duration of its influence. On the other hand, one of the well-known and globally recognized medicinal solutions involving water, with valuable biological properties, readily available in pharmaceutical standards, and the most abundant form of water on Earth, is normal saline. In this research, the influence of T-Consciousness Field 2 (TCF2), as the applied field with a specific mission, on the properties of normal saline, e.g., a decrease in electrical conductivity has been studied. According to the results obtained from this research, the trend of temperature changes in normal saline in the control and sample is similar to the temperature of pure water under the influence of TCF2. However, the changes in their pH values vary with time, showing oscillations in both the sample and control of normal saline. Furthermore, the electrical conductivity in the control and sample decreases, but with a steeper slope, reaching approximately a 33% reduction in the sample, according to the mission of T-Consciousness Fields applied in this study. The investigation of other physical properties of normal saline under the treatment of T-Consciousness Field 2 is on the authors' agenda.

Keywords: Normal Saline, Pure Water, Physical Properties, Taheri Consciousness Fields

Introduction

Continuing from previous studies on the effects of T-Consciousness Fields on pure water, in this research, we turned our attention to a well-known, standardized, and globally accessible solution with a significant biological value called "normal saline" and studied the physical properties of the aqueous solution. Fluid therapy is an essential component of the clinical management of patients, which is administered in colloidal and crystalloid forms (1). The most commonly used colloid worldwide is normal saline, which is used in the management and treatment of conditions such as hypovolemia (e.g., shock), metabolic alkalosis, fluid loss, and mild sodium depletion (2). A 0.9% concentration of isotonic sodium chloride is the preferred choice for intravenous replacement of body electrolytes. According to the United States Pharmacopeia (USP) standard, in every 100 milliliters of a 0.9% sodium chloride solution, there are 15.4 milliequivalents of sodium ions and 15.4 milliequivalents of chloride ions. Furthermore, its osmolarity is 308 mOsmol/liter, and its pH range is between 4.5 to 7 (3). Previous studies have explored the properties of pure water in the vicinity of T-Consciousness Fields (4). The current research aimed to

investigate the influence of T-Consciousness Fields on water in the presence of other solutes and assess the extent and direction of changes compared to pure water.

Method

In all experiments, the laboratory temperature was set at 22.7 degrees Celsius, and humidity was maintained at 21%. Furthermore, all measurements avoided any agitation (shaking) of the sample and control before testing, and sampling was done from the intermediate layers of the containers. In this study, we have three controls and three samples (under the influence of T-Consciousness Field 2). The values related to the mentioned properties were recorded during five measurements at the following time intervals within 48 hours, under constant and identical conditions: *Time Zero*: Before starting treatment. *Time One*: 4 hours after treatment. *Time Two*: 8 hours after treatment. *Time Three*: 24 hours after treatment. *Time Four*: 48 hours after treatment.

Results and Discussion

The changes in the physical properties of normal saline (impure water) are shown in Figures 1

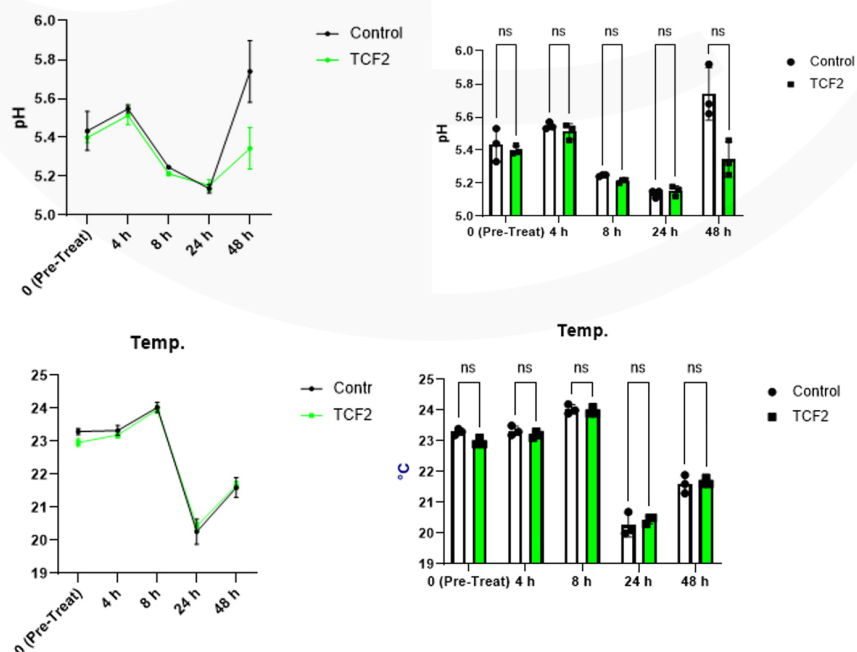


Figure 1. Changes in pH and temperature in the sample and control normal saline at different times in this study.

The temperature changes in impure water control and sample follow a similar pattern to the temperature of control and sample of pure water. On the other hand, the trend of pH changes in the impure water sample and control is different and fluctuates. The pH increases until 4 hours, then decreases at 24 hours, and increases again at 48 hours. However, the enhancement of pH

in the control was not statistically significant compared to the TCF2-treated samples. The difference in pH between the control and sample at this hour is not statistically significant.

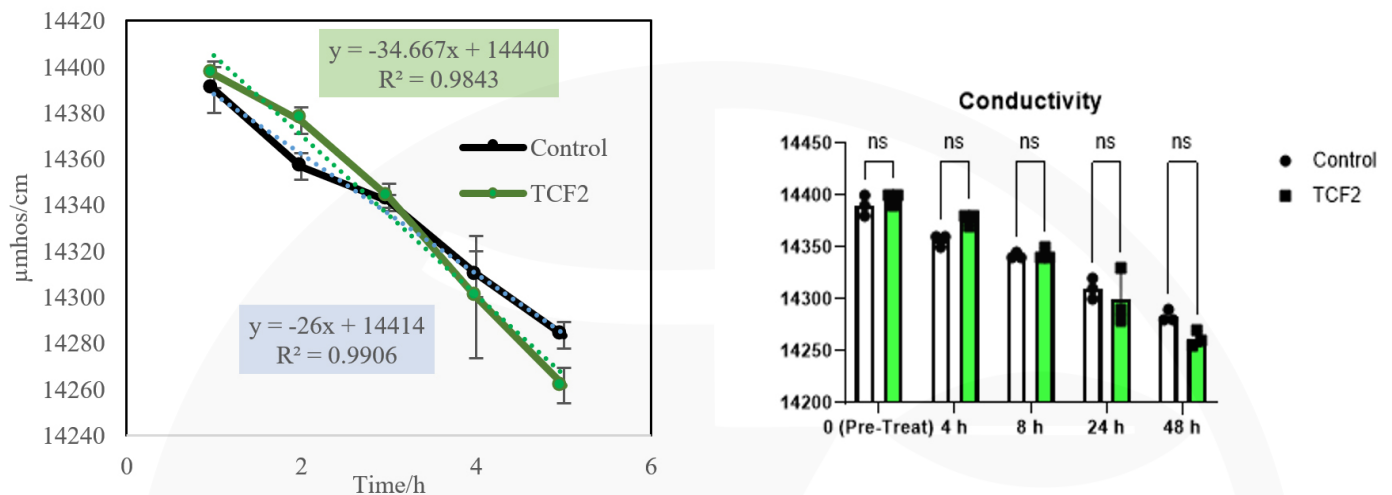


Figure 2. Changes in electrical conductivity of the control and sample of normal saline in this study.

As seen in Figure 2, electrical conductivity decreases in the control and sample but with a steeper slope of approximately 33% in the sample, following the mission of the T-Consciousness Field2. The increase in pH, as shown in Figure 1 in the control and sample, can be attributed to a potential decrease in the amount of dissolved carbon dioxide in the water, which is in line with the overall trend of decreasing electrical conductivity in the control and sample. Considering the increase in entropy due to the dissolution of the solute in pure water, the reduction in ion concentration and electrical conductivity in the sample compared to the control is indicative of the decrease in entropy in the impure water sample under the influence of T-Consciousness Field2.

of sample hardness, examination of changes in chloride ion concentration, and changes in oxygen and carbon dioxide gases, along with other properties, will significantly aid in understanding and analyzing the obtained results and are on the agenda of the authors.

The observed changes in the sample, compared to the control, will not be possible without providing the necessary energy in the study system, indicating its supply through T-Consciousness Fields. The measurement

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