



Magnetization of Water and its Biological Effect

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Introduction

The interaction of magnetic energy with water has stimulated spreading research interests which maybe essential for widening the use of magnetized water in various areas as well as understanding the fundamental physics of such interaction. The importance of magnetized water has been arisen from its versatile use in industry, Agriculture, irrigation, medicine, and possibly in low-power pulsed plasma discharges which require gas-water interfaces. So far, the effect of magnetic field on water has been recognized as nonlinear problem and proposed the mechanism of magnetization of water according to the structure and distribution of its molecules.

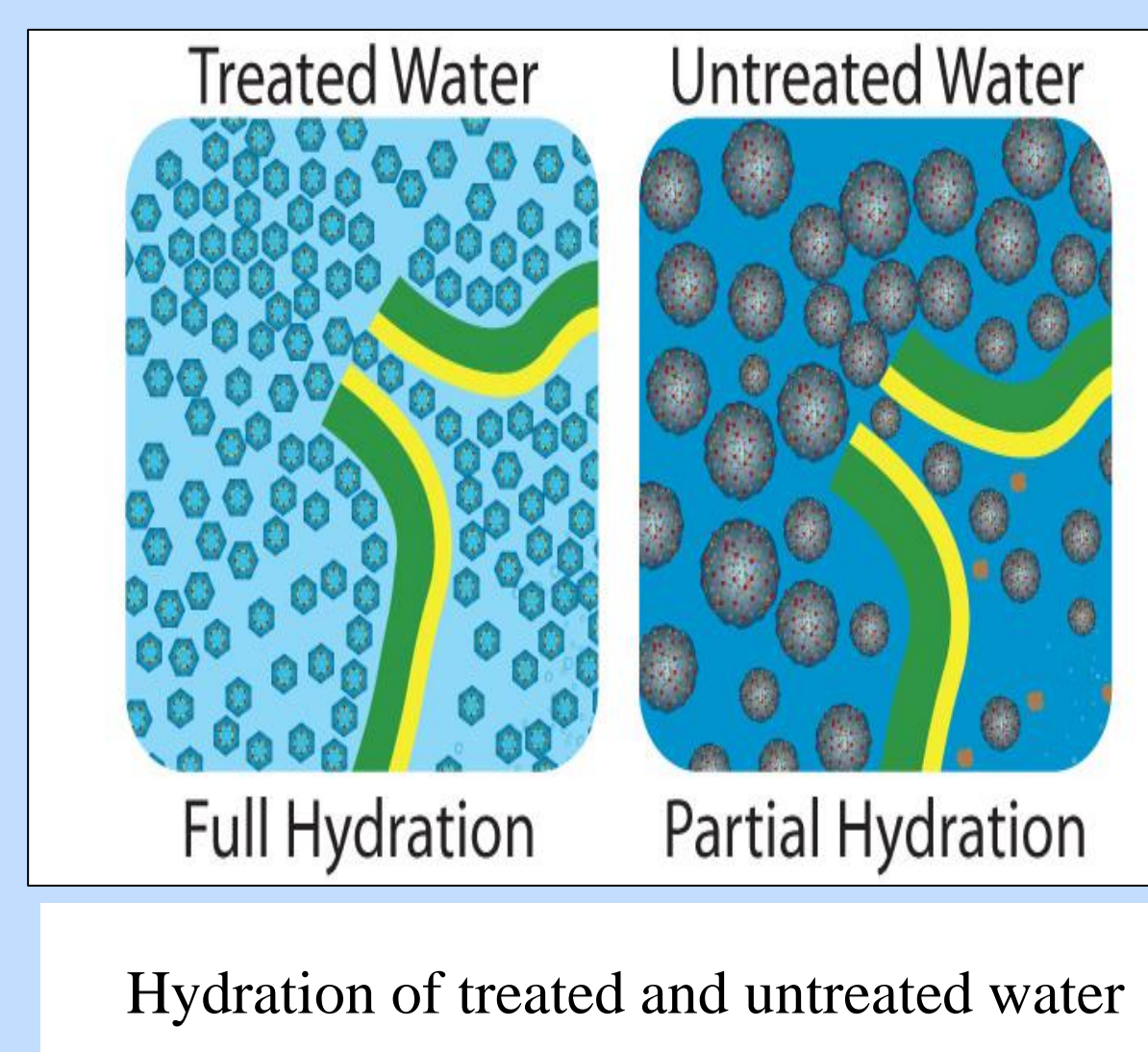
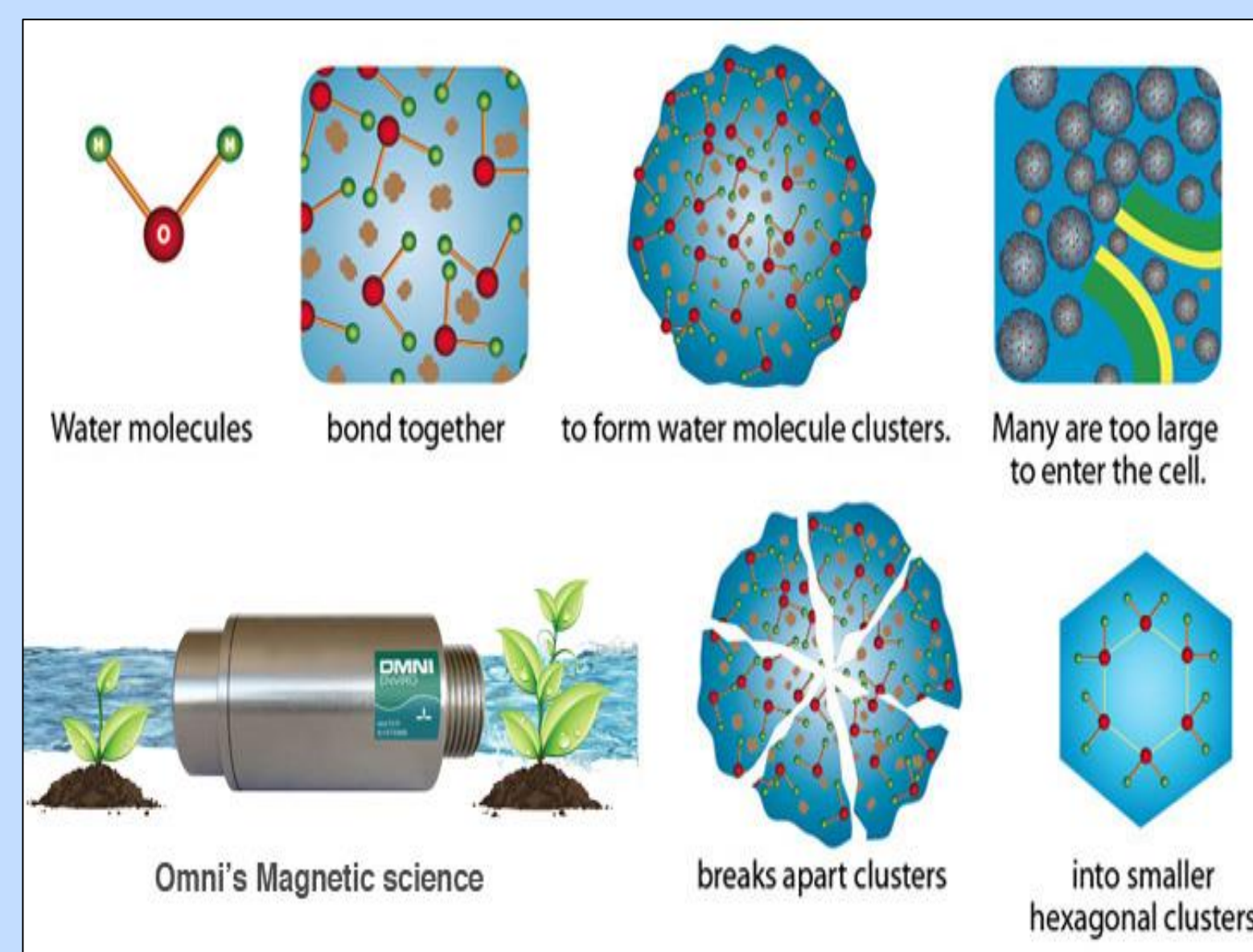
The magnetized water changes the arrangement of water molecules without a help of salts or other minerals to form and concentrate the clusters, which activates the cell structures inside the body to promote the metabolism.

What is water magnet?

Magnetized water is hexagonal water obtained by passing water through specially manufactured permanent magnet that can activate and ionize water molecules to change its structure hexagonal, like water in our body.

A water molecule consists of one oxygen and two hydrogens. Thus: H₂O. Simply put, the oxygen act as a negative, while each hydrogen acts as a positive. Water molecules do not travel alone. They form clusters with other water molecules by the attraction of a positive hydrogen of one molecule to the negative oxygen of another. Water molecule clusters come in many sizes, depending on the number of water molecules involved.

Magnetic field, when applied to normal water, restructures the water molecules into very small water molecule clusters, each made up of six symmetrically organized molecules. This miniscule cluster is recognized by the cell as "bio-friendly" due to its hexagonal structure and because the toxins cannot travel within the cluster, and easily enters the passageways in plant and animal cell membranes. The result provides maximum, healthy hydration with less water.



Hydration of treated and untreated water

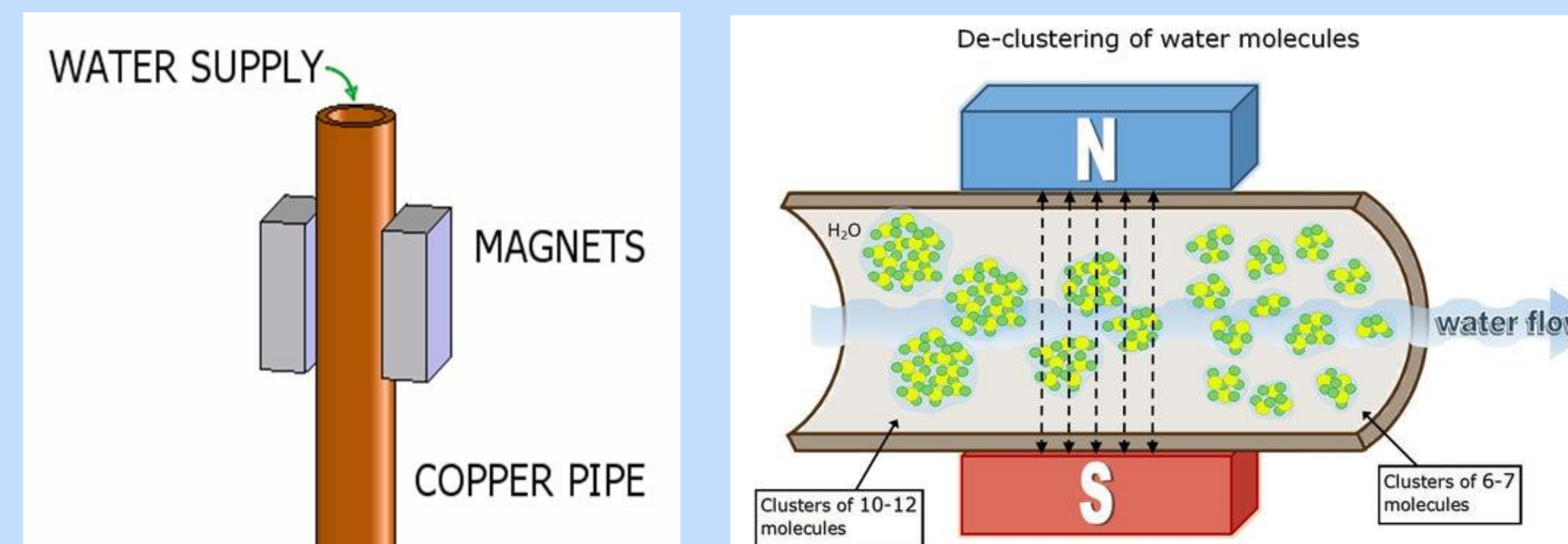
Methods of Making Magnetized water

Two main ways of making Magnetized water have been reported. The first is passing water through a Magnetic field and the other is using a static magnet near a certain volume of water. The Magnetic field strength and the time of magnetization have a great impact on the properties of Magnetized water.

Water (H₂O) is made up of hydrogen and oxygen. These elements bond together. Typical H₂O groups together in *clusters* of 10-12 molecules. These clusters are held together by surface tension. Magnets will affect this surface tension and the angle that hydrogen and oxygen stick together, causing them to group together in smaller *clusters*, about 6-7 molecules. Essentially breaking up larger clusters of molecules into smaller clusters.

The degree of magnetization depends on three things:

The quantity of liquid put on the magnet, the power of the magnet used for the purpose and the duration of the contact of the liquid container with the magnet.



Characteristics of Magnetized Water

- Oxygen radical with free electrons is decreased in the magnetized water. This does not mean high oxygen concentration but rather reduced oxygen concentration.
- The magnetized water has higher activation to reinforce the resistance of the body.
- The magnetized water maintains long viscosity. (Not evaporated).
- The molecular structure of the magnetized water is concentrated for slow freezing and fast melting.
- Viscosity increases, Solubility increases and Conductivity increases.

Discussion

Most of the literatures studied the effects of magnetic water on organs of a certain animal, but few of them, which studied the beneficial effects of magnetic water on different organs in animals,

and human. Also, to our knowledge, the evidence reporting the effect of magnetic water on human and animals is hardly found. So, the present review aimed to investigate the beneficial effects of magnetized water for human and animals. Experience has shown that magnetized water contributes and helps in the treatment of many diseases. It is especially beneficial in treating digestive, nervous and urinary disorders. Generally speaking, water magnetized by the North Pole stops the growth of bacteria and works as antibiotics. Water magnetized by the South Pole takes care of pain, swelling and weakness. Water magnetized by both North and South Pole enhance overall general health. Although we can measure the power of a magnet, we have no method of measuring the degree of magnetization of water. In the absence of any definite measure, only experience can guide us. A simple way to magnetize water is to keep two-liter jugs of water on the two poles of encased disc magnets of about 3000 gauss, normally for twelve to twenty-four hours.

Conclusion

It can be concluded that magnetic water treatment improved blood picture, biochemical parameters, semen quality, and antioxidant status in human and animals. Magnetic water very effective in breaking up kidney and gall bladder stones, and prevent further formation of stones in the kidneys and gallbladder. It alleviates arthritis pain and reducing blood pressure, prevention and treatment of atherosclerosis, help unplug the arteries and veins of deposits of cholesterol and salts and normalize the circulatory system, helpful in weight control. Also, it mitigates environmental impact in livestock, increase in milk yields and its component in dairy cows and ewes, mutton, and wool in sheep and improves blood picture and antioxidant status, more weight gain in geese and egg production and hatchability in turkey. So, magnetic water must be used to mitigate the harmful effects of drugs, toxins, and environmental pollutant on human and animals.

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