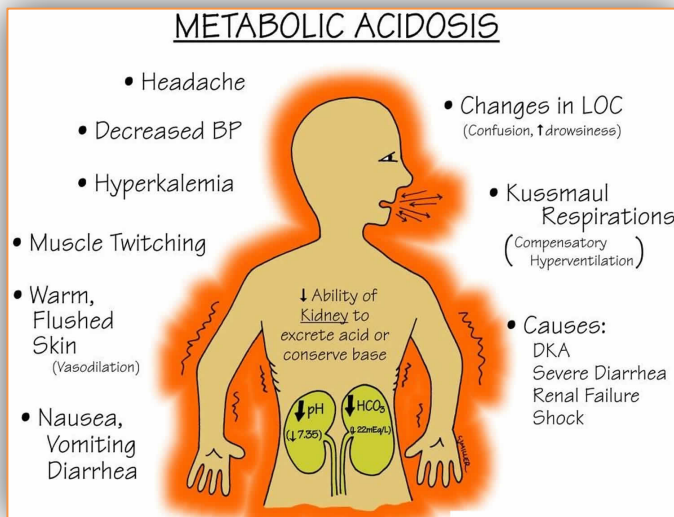


# Effects of Hydrogen-rich water on Acidosis?

KYK Hydrogen Water | 1,500 PPB of DH | KYK Co., Ltd. (South Korea)



## -How Hydrogen works on Acidosis?

Hydrogen functions as an important physiologic regulatory factor with antioxidant, anti-inflammatory, and anti-apoptotic protective effects on cells and organs and the ability to mitigate a variety of diseases. Oral intake of liquid that contains hydrogen represents a novel, easily translatable, and safe method of delivering hydrogen to humans, with hydrogen-rich water (HRW) exhibiting high pH, low dissolved oxygen, high dissolved hydrogen, and significant negative redox potential values. Although the production of HRW by electrolysis, reaction of water with hydrogen-producing minerals, or direct contact with hydrogen gas is an elemental and well-established process, its use in human nutrition is rather new, with HRW being marketed as a nutritional aid for humans accompanied by claims of acidity-lowering, antioxidant, and anti-aging effects. Specifically, because of its pH and significant negative redox potential values, oral use of HRW as an alkalizing agent in the treatment of metabolic acidosis could be of particular interest to humans experiencing an increase in plasma acidity. Daily oral administration of 2 L of HRW for 7 days can affect baseline arterial pH and the rate of acidosis induced by exercise in young healthy men. Drinking HRW empty stomach can give therapeutic effects in the human body.

## -What is Acidosis?

Metabolic acidosis is a clinical disturbance characterized by low pH in body tissues and blood and a variety of neuromuscular and cardiorespiratory responses.

Besides treating the initial disorder, the main goal for patients with acidosis is to increase the systemic pH with alkalizing agents, such as bicarbonates; however, adverse reactions linked to the administration of sodium bicarbonate (eg, metabolic alkalosis, edema due to sodium overload, and congestive heart failure) could limit its use in the treatment of metabolic acidosis.

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