

# HOW CAN HYDROGEN WATER HELP CANCER PATIENTS ?

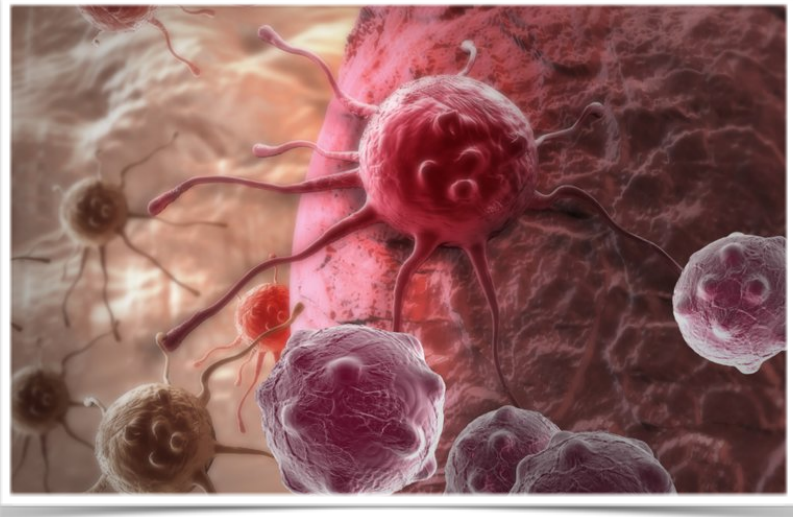
KYK Hydrogen Water | 1,500 PPB of DH | KYK Co., Ltd. (South Korea)

## How can hydrogenated water treat ROS ?

Molecular hydrogen (H<sub>2</sub>) reacts with strong oxidants in cells, and its potential for preventive and therapeutic applications has been proposed. Hydrogen has a number of advantages that demonstrate extensive effects, and it can rapidly diffuse into tissues and cells, and it does not disturb metabolic reactions or affect signalling ROS.

## ROS (Reactive Hydrogen Species)

Most radiation - induced symptoms are believed to be associated with increased oxidative stress and inflammation, due to the generation of reactive oxygen species (ROS) during radiotherapy, and may significantly affect the patient's quality of life (QOL)



**Radiotherapy and chemotherapy** are major treatment types for cancer. Radiation therapy uses high-energy rays (or particles) to kill cancer cells. It may not be a good option for some patients. Receiving these therapies patients may often experience fatigue, nausea and vomiting. Many side effects are believed to be associated during radiotherapy.

Hydrogen can be administered as a therapeutic medical gas and has antioxidant properties and reduces inflammation. H<sub>2</sub> diffuses rapidly to reduce inflammation in tissues. **H<sub>2</sub> water** has been shown to improve the quality of life (QOL) of patients during chemotherapy via its antioxidant properties. Hydrogen fights free radicals in your body and protects your cells from the effects of oxidative stress. Daily consumption of hydrogen-rich water improves QOL after radiation exposure. Consumption of hydrogen-rich water reduces reaction to radiation without compromising anti-tumour effects.

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