



Molecular Hydrogen Inhalation and Water Machine

The smallest, purest, "smart" antioxidant
on earth.

2026 PRODUCT & THERAPY DETAILS



INTRODUCTION

A Powerful but Often Overlooked Natural Therapy

If you are looking to reduce oxidative stress, boost your energy levels, control inflammation, and improve gut health, there's a powerful but often overlooked natural compound therapy to consider: Molecular Hydrogen (hydrogen gas) inhalation and drinking Hydrogen Water.

THINK OF IT LIKE BAKING A CAKE

Oxidation of your body should be natural and healthy over your entire lifespan. Oxidative stress is the harmful part of oxidation within your body. Think of your body lifespan like baking a cake. Cake baking is simply oxidation of the cake batter.

The new cake batter is light, smooth and liquid. If you put the batter in an oven and turn up the heat too high, you will ruin and burn the cake, making it unusable, as it will turn dark, ugly, crumbly and hard. That is what happens to our body as we age unless we try to prevent too much and too fast oxidation in our body.

THE SCIENCE

Free Radicals and the Body's Natural Defenses

The human body generates free radicals (oxygen molecules with an uneven number of electrons) during various physiological processes, such as respiration and inflammation. Free radicals, which include reactive oxygen species (ROS) and reactive nitrogen species (RNS), have important roles in various physiological functions.

Free radicals are unstable molecules with unpaired electrons that seek to stabilize themselves by stealing electrons from other molecules, causing damage to our healthy cells and tissues. When these levels become excessive, they can lead to oxidative stress-related diseases and disorders of the cardiovascular, gastrointestinal, metabolic, neurodegenerative, liver, and respiratory systems.

The body has a natural defense system against free radicals that includes both enzymatic and non-enzymatic antioxidants.

ENZYMATIC

Superoxide dismutase (SOD), catalase (CAT), and glutathione peroxidase (GPX)

NON-ENZYMATIC

Glutathione and thioredoxin

However, during inflammation and illness, these endogenous antioxidant defense systems may become overwhelmed and unable to effectively neutralize the excessive free radicals. In such cases, the use of external antioxidants becomes necessary to restore balance.

WHY HYDROGEN

Oxidative Stress and the Hydrogen Advantage

Persistent oxidative stress is one of the major causes of most lifestyle-related diseases, inflammation, metabolic dysfunction, neurological dysfunction, cancer and the aging process. Acute oxidative stress directly causes serious damage to cell tissues. Despite the clinical importance of oxidative damage, oral antioxidant supplements have been of limited therapeutic success.

Inhaling Molecular Hydrogen exerts biological effects on nearly all organs. It has anti-oxidative, anti-inflammatory, and anti-aging effects and contributes to the regulation of autophagy and cell death.

ADVANTAGES AS A POTENTIAL ANTIOXIDANT

Hydrogen rapidly diffuses into tissues and cells, and it is mild enough neither to disturb metabolic redox reactions nor to affect reactive oxygen species (ROS) that function in cell signaling. Thereby, there should be little adverse effects of consuming hydrogen.

An increasing number of studies have revealed that hydrogen may protect the lungs from diverse diseases, including acute lung injury, chronic obstructive pulmonary disease (COPD), asthma, lung cancer, pulmonary arterial hypertension, and pulmonary fibrosis.

CLINICAL EVIDENCE

What the Trials Show

RANDOMIZED CONTROLLED TRIAL

People experiencing persistent symptoms following a COVID-19 infection reported improved physical function (6-minute walking test) and lung function (forced vital capacity and forced expiratory volume) with inhaled hydrogen gas compared to a placebo. Hydrogen gas (100% hydrogen) was inhaled for 1 hour twice a day for 14 days.^[2]

OPEN-LABEL, MULTICENTER TRIAL

In hospitalized patients with COVID-19, inhaled hydrogen gas (66.7% hydrogen and 33.3% oxygen) led to reduced disease severity, reduced chest pain, and a faster improvement in shortness of breath and cough compared to participants receiving oxygen gas alone.

There is accumulating evidence of the broad biological effects of hydrogen. It regulates oxidative stress, inflammation, autophagy, programmed cell death, and the aging process. Animal experiments and clinical trials have clearly demonstrated the protective effects of hydrogen on many organs and systems.

BENEFITS

Hydrogen Inhaler Benefits

Activating the body's
internal antioxidant system

Optimizing cognitive
function

Supporting gut health and
function

Brain health

Lower fatigue

Lung health

Heart health

Aging

And much, much more.

About 500 mL/min

Our inhaler produces a flow of 1/3 oxygen and 2/3 pure hydrogen.



FIVE REASONS

Why Molecular Hydrogen Stands Apart

01

The smallest and purest antioxidant, penetrating the cell mitochondria and the blood-brain barrier

Hydrogen is far smaller than any other antioxidant, allowing it to easily enter deeper into our cells than all other antioxidants. In fact, it is even small enough to penetrate the mitochondria of cells (the cell's energy center), meaning hydrogen provides antioxidant protection at the source of harmful free radical production. Unlike other antioxidants, hydrogen is also small enough to pass through the blood-brain barrier to provide protection against free radicals.

02

The "smart" antioxidant that distinguishes necessary and harmful free radicals

Hydrogen protects the cell's DNA, RNA, protein, lipids and more from oxidative stress better than any other antioxidant. Most oral antioxidants have limited effectiveness for two reasons:

1. They can only protect against some free radicals but not others, meaning many different types of antioxidants are needed for the wide variety of free radicals.
2. They cannot distinguish between necessary and harmful free radicals. Some free radicals are beneficial to our cells, such as hydrogen peroxide.

Molecular hydrogen solves both problems. Hydrogen selectively targets only the toxic oxygen radicals and also neutralizes every type of harmful free radical in our cells. For instance, hydrogen selectively neutralizes the most harmful free radical, hydroxyl (OH), by turning it into water.

FIVE REASONS

Why Molecular Hydrogen Stands Apart

03

100% natural and completely safe

Hydrogen is safe because it is perfectly natural to the body. It requires no energy consumption to break down, has no known toxic effect at even high doses, and simply turns into water after providing its antioxidant benefit.

This is another major advantage of hydrogen over other types of antioxidants. We can't take an unlimited amount of other antioxidants, like vitamin C for example, since our bodies have to process them to break them down. Other antioxidants have a toxic effect at high concentrations, but not hydrogen.

04

Improves the body's natural antioxidant systems already there

Hydrogen triggers an activation of our body's existing cyto-protective proteins and antioxidant enzymes, such as catalase, superoxide dismutase, and glutathione. Each one of these enzymes protects against different free radicals in the body.

05

Anti-obesity, anti-inflammatory and anti-allergy effects

Molecular hydrogen provides anti-obesity effects, anti-inflammatory effects and anti-allergy effects. Hydrogen does this through supporting cell metabolism, cell signaling, and gene expression.

Visit the [Molecular Hydrogen Foundation website](#) for more scientific information on the wonders of molecular hydrogen.



Repair Poor Health, Don't Just Manage It

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