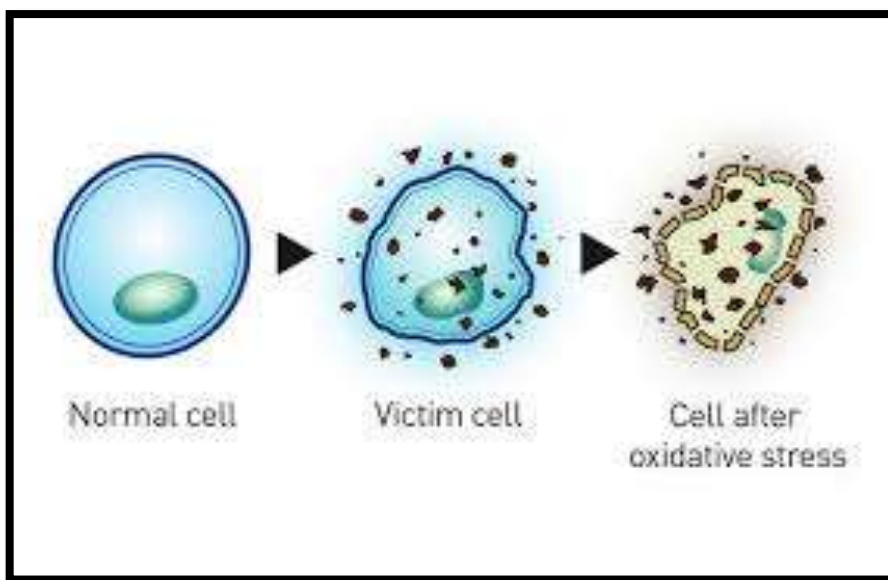


# Molecular hydrogen in the treatment of acute and chronic neurological conditions

Neurological disorders are diseases of the central and peripheral nervous system, in other words, the brain, spinal cord, cranial nerves, peripheral nerves, nerve roots, autonomic nervous system, neuromuscular junction, and muscles. These disorders include epilepsy, Alzheimer disease and other dementias, cerebrovascular diseases including stroke, migraine and other headache disorders, multiple sclerosis, Parkinson's disease, neuroinfections, brain tumors, traumatic disorders of the nervous system due to head trauma, and neurological disorders as a result of malnutrition.



Oxidative stress caused by reactive oxygen species (ROS) is a major mediator of tissue and cellular injuries in various neuronal conditions, including neurological emergencies and neurodegenerative diseases. Control of oxidative stress is a major therapeutic strategy for various neuronal

conditions. Oxidative damage plays a pivotal role in neuron loss and progression to dementia.  $\beta$ -amyloid, a toxic peptide often found present in AD patients' brain, is produced by free radical action.

Molecular hydrogen ( $H_2$ ) provides a safe and effective disease treatment mechanism.  $H_2$  can act as an antioxidant to prevent

and treat neurological disorders. Recently, the beneficial effect of  $H_2$  has been reported in many other organs, including the brain, and other biological mechanisms of  $H_2$  (anti-inflammatory, anti-apoptosis, anti-cytokine, DNA expression, and energy



metabolism) have been proposed. The first major therapeutic effect of  $H_2$  was that of an antioxidant, combining with hydroxyl ions to produce water.  $H_2$  acts as a scavenger of harmful free radicals which is the major cause of neurological diseases. Hydrogen treatment is very effective and comparatively cheaper and hence used in many countries.

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