

Chemotherapy and Magnetic Water in Anti-Cancer Treatment

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Abstract

Cancer is a malignant disease causing a lot of human mortality (12% all human death). Chemotherapy plays decisive roles for disease treatment and management. Due to high toxicity of anticancer drugs, cancer treatment is currently unsatisfactory and high mortality.

Magnetic water and field has been found to some favorable biological efficacy and assistance for various disease treatments, like cardiovascular diseases, central nerve system diseases, viral infection and others. It has long history in China and rest of world. In order to promote cancer treatment, its activity is discussed in the article.

It might be possible to utilize magnetic water or fields in many disease treatments, like cancer or other diseases in the clinic. New researches may be helpful for fostering new knowledge and technology in this respect worldwide.

This article outlines its activity in cancer biology and chemotherapy by models of animals and humans. New initial activities should be pursued for accumulating therapeutic knowledge and technology for better cancer treatments.

Keywords: Chemotherapy; Anticancer Drugs; Magnetic Water; Drug Toxicity; Cancer Biology

Introduction

Cancer is a malignant disease causing a lot of human mortality (12% all human death). Chemotherapy plays decisive roles for disease treatment and management [1-3]. However, many therapeutic drugs do not show satisfactory outcomes due to the toxicity of drugs. Certain types of supportive measures are designed to overcome such shortcoming and dilemma.

Magnetic water and field has been found to some favorable biological efficacy and assistance for various diseases, like cardiovascular diseases, central nerve system diseases, viral infection and others. It has long history in China and rest of world. In order to promote cancer treatment, its activity is discussed in this article.

Methods

Magnetic water (50-100 times passage through strong magnetic field freshly) can support drug treatment in mice and in patients (increasing mice survivals and reducing toxicities) [4]. Though it is mostly in the animals, its potentiality and wide-range is beyond doubts. In addition, other work supports this outcomes and pathway of drug treatment study and application [4-6].

Results

It was shown that magnetic water or fields can help patients to endure drug toxicity and enhance therapeutic outcomes (drug responses) in mice and humans [4-6]. It provides a new vision for promoting cancer treatments and patient's survivals. Such work can be useful routes for therapeutic study and clinical application due to easy handling and less costs.

Future trends and applications

It might be possible to utilize magnetic water or fields in many disease treatments, like cancer or other diseases in the clinic [7]. In addition, magnetic water can help crop growth and soil condition in recent study [8,9]. Their mechanisms of action might be change the water condition (physiochemical property), like N, Pi absorption in plant roots [9] and help living bodies (animals and human beings) to better grow and detoxication by changing the number of leukocytes or lymphocytes [4].

New researches may be helpful for fostering new knowledge and technology in this respect worldwide, like magnetic treatment equipment, methods and instrument, different treatment schedule comparisons. This will be very important for their wide-utility and therapeutic improvements.

Conclusion

It is shown that magnetic water and field can be useful way for cancer treatments and life-savior. New initial activities should be pursued for accumulating therapeutic knowledge and technology for better cancer treatments.

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