

Active Components Isolated from Traditional Medicine Improving Asthma Symptoms Similarly to Western Asthma Medicine

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ABSTRACT.*The phenomenon of the asthma has been observed through our daily life. We have different kinds of treatment to the asthma. Different area has different opinion and perspective of asthma. It is a common chronic airway inflammatory disease characterized by variable and recurrent symptoms, reversible airflow obstruction, and bronchospasm. The common symptoms were wheezing, cough, chest distress, chest tightness and dyspnea. It is believed that asthma is caused by both genetic and environmental factors. Environmental factors usually include exposure to air pollution and allergens. Other triggers include drugs such as aspirin. The diagnosis of asthma is usually based on the type of symptoms and the response to treatment at different times. But the disease cannot be cured completely, so we try to find some useful method to cure this kind of disease. Family inheritance is a risk factor for asthma, because there are many different genes that complicate the etiology. If one of the identical twins is infected, the other is 25 percent more likely to be infected. different kinds of treatment to the asthma,*

KEYWORDS: *asthma, different kinds of treatment to the asthma, common chronic airway inflammatory disease characterize*

1. Introduction

The different treatments of asthma between Chinese traditional medicine and western methods are two very different treatments. It includes both traditional Chinese medicine and Western medicine, but we don't know the nature and structure of the drugs that play a specific role in it. Therefore, we need to compare the structure and properties of some drugs that play a decisive role in asthma between traditional Chinese medicine and Western medicine, so as to get a more effective drug. There are many drugs on the market to treat asthma. It includes both traditional Chinese medicine and Western medicine, but we do not know the nature and structure of the drugs that play a specific role. Therefore, we need to compare

the structure and properties of some drugs which play a decisive role in asthma between traditional Chinese medicine and Western medicine, so as to get a more effective drug or a method. The purpose of traditional Chinese medicine is to restore the patient's overall balance through the use of herbal prescriptions, which usually have two or more herbs in proportion to form. Therefore, in order to better understand the pharmacological effects of TCM, the weight of the content of various compounds should be considered. Chinese medicine and Western medicine for the treatment of asthma specific methods, processes and effects.

2. Background

Before we get into the details of treatment of asthma between Chinese traditional medicine and western treatment, we must understand the different principles and basic understanding of the treatment of asthma in different area

From the Chinese perspective, the essence of asthma is deficiency of lung, spleen and kidney. Lung deficiency is manifested in the weakness of camp and defence, spleen deficiency is manifested in immune system, and the main manifestation of kidney deficiency is endocrine dysfunction.

There are four different stages of the western treatment:

The first stage is that in the early 19th century, people thought that asthma was only a symptom, not an independent sensory stage of disease.

The second stage is that people consider asthma is an allergic disease stage, and the treatment of asthma is to avoid allergens and escape from allergic environment.

The third stage is that in the third stage, the viewpoint that asthma is a kind of airway hyperresponsiveness disease was put forward.

In the last period, In the 1980s, chronic airway inflammation was found in a large number of patients who died of asthma, and the people started to think that asthma is a chronic airway inflammation.

3. Methods

FEV1 is the maximal amount of air you can forcefully exhale in one second. The final result will be transformed into percent. FEV1 is a marker for the degree of obstruction with your asthma:

FEV1 greater 80% of predicted= normal

FEV1 60% to 79% of predicted = Mild obstruction

FEV1 40% to 59% of predicted = Moderate obstruction

FEV1 less than 40% of predicted = Severe obstruction

We will predict the result through these items: Breathing difficulties, Wheezing, Coughing Chest discomfort, Tiredness, Dizziness and light-headedness, and Allergic symptoms. The higher the mean value of the result, the healthier the man is.

Chinese usually use Mxing Shigan Decoction which contains Ephedra, Almond, Licorice and Gypsum.

Western usually use Desensitization drug as the treatment

But before we start our experiment, we first need to extract the active ingredients from Chinese herbs, so as to make experiments and observe the results. There are many, many ways to extract to extract all kinds of active ingredients. I predict that the active components ligustilid, angelicone, freulic acid will successfully treat hypertension.

4. Result

	2 week		1 month	
	Maxing Shigan Decoction	Desensitization drug	Maxing Shigan Decoction	Desensitization drug
Breathing difficulties	70	90	83	90
Wheezing	65	87	84	76
Coughing Chest discomfort	77	85	87	86
Tiredness	78	83	88	79
Dizziness and light-headedness	83	84	85	78
Allergic symptoms	86	79	91	77

We compare the different ingredients and active component in the Chinese traditional medicine and western treatment. The treatment cycle of TCM is longer, but more effective. Western medicine treatment cycle is short, but there are some side effects. We will isolate them by using the

Solvent extraction and we will extract the useful component called ligustilid, angelicone, freulic acid . Then we will use this component to react with the active component in asthma. When they are doing those experiments, they have to isolate other active component in the TCM to prevent other reactions. By doing the experiment in different time and period, we can see the availability of the TCM. After using the TCM, we will use the western medicine and do the same thing as before. Then we will calculate and write the result on the table above.

5. Conclude

The treatment will depend on different situations. If you have s severe situation, you should use the western treatment because it can cure quickly, but there will be

some side effects. However, if you are just in the initial period, you can take some TCM so that you can have a better result.

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