

Infrasonic Treatment of Asthma

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Fifty cases of child bronchial asthma were treated with the Infrasonic QGM and routine drugs. T lymphocyte subpopulation (CD2 , CD4, CD8, and CD4/CD8) of peripheral blood was measured to evaluate this treatment's clinical effectiveness on raising immunity. The control group of 15 cases was treated with routine drugs only.

Treatment Method: Based on the features of child bronchial asthma and a dialectical therapeutics of traditional Chinese medicine, the following four points were treated for 5-10 minutes each morning for 5 days:

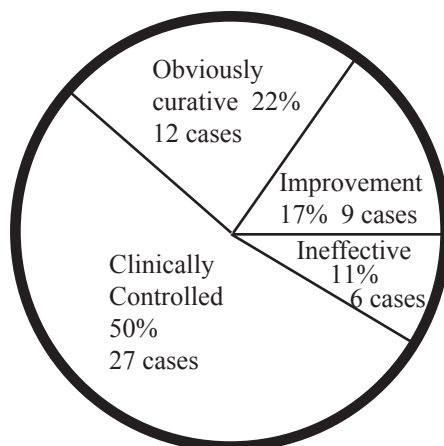
Dingchuan (located on the back, 0.5 cun lateral to the lower border of the spinous process of the 7th cervical vertebra). Indications: Facilitating the flow of the lung-qi to relieve asthma. *Feishu* (Located on 1.5 cun lateral to the lower border of the spinous process of the 3rd thoracic vertebra). Indications: Facilitating the flow of the lung-qi to resolve cough. *Tiantu* (located on the neck, on the anterior midline, in the center of the suprasternal fossa). Indications: Cough, asthma, chest pain and so on. *Danzhong* (located on the chest, on the anterior midline, on the level of the 4th intercostal space, on the midpoint of the line connecting the two nipples). Indications: Checking upward adverse flow of the lung or the stomach-qi).

Observation criteria-four grades:

- (1) Clinically controlled: Remission from symptoms. Occasional mild asthma attacks are remitted without taking any medicine.
- (2) Obviously curative effect: Asthma attack is relieved within a short time.
- (3) Improvement: Some abatement.
- (4) Inefficacy: Symptoms, signs and reproduction rate of T lymphocyte subpopulation are unimproved or exacerbated.

Therapeutic Results:

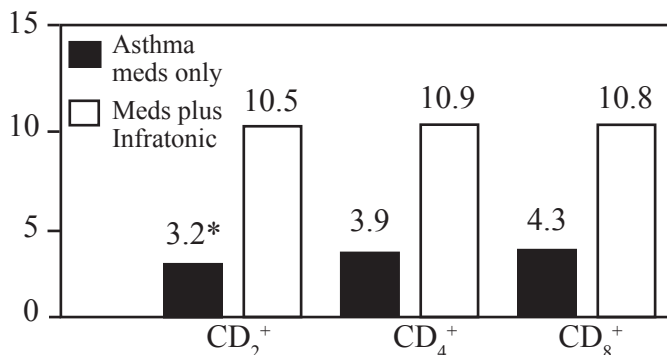
94% of the experimental group showed improvement (as shown to the right). In the control group 80% showed improvement as follows: Clinically controlled - 6 cases; obviously curative - 3 cases, improvement - 3 cases, inefficacy - 3 cases. χ^2 determination indicates that there is a more obvious therapeutic effect in the treatment group than that in the control group ($P < 0.01$).



Laboratory Results:

T Lymphocyte subpopulation showed a significantly greater increase in the experimental group than in the control group treated by routine drugs alone as shown below:

T lymphocytes in Control vs Experimental Groups



*Notes: Comparison before/after treatment
 $P < 0.01$ unless noted:
* = $P > 0.05$*

In this study, clinical symptoms of wheezing, coughing and asthma caused by infection of the upper respiratory tract are obviously relieved using the Infratonic device. Testing of peripheral blood showed that the reproduction rate of T lymphocytes subpopulation in treatment group is greater than those receiving routine treatment, indicating increased level of immunologic function of human cells. The Infratonic QGM reduces the course of treatment without discomfort or side-effect. Its biological mechanism of action should be explored in the future.