BIOPTRON LIGHT THERAPY SYSTEM By Zepter Group

CLINICALLY TESTED

Is BIOPTRON Light Therapy the same as laser therapy?

No, light therapy is *not the same* as laser therapy. Light emitted by a BLT device differs from laser light in several ways.

- **BLT** contains light from a *wide range* of wavelengths (vs. the narrow bandwidth of laser light).
- **BLT** emits light that is of *low-energy* so there is only a minimal heating effect, making the treatment *safer* (vs. the high-energy beam from a laser that may generate a great deal of heat).
- **BLT** devices emit light with a *wide beam* to allow exposure of *larger treatment area* (vs. the usually much narrower beam from a laser).

Is BIOPTRON Light Therapy expensive?

BLT is cost-effective - *ADD COST INFORMATION HERE.*

Is BIOPTRON Light Therapy safe?

Yes, light therapy with BLT is safe. To date, there are no known adverse effects associated with BLT.

BIOPTRON Pro1

BIOPTRON 2

BIOPTRON Compact III

Please add local contact details here:

BIOPTRON LIGHT THERAPY SYSTEM By Zepter Group

zepter INTERNATIONAL MEDICAL
www.zepter-medical.com

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Upper airways infections & allergic conditions in children

information for patients

What are the common symptoms of upper airways infections?

Infection of the upper airways in children is usually caused by viruses. Younger children are particularly prone to these and may have around 8 episodes of infection per year. This can result in significant loss of time from school in some children, and adversely effect academic achievement. BIOPTRON Light Therapy may help to treat these conditions by stimulating the immune system and promoting a healing response. Infections of the upper airways include the following.

Common cold

This illness affects everyone at some time and is caused by infection with a virus (called the *rhinovirus*). This virus exists in many different forms, which is why we get so many colds in our lifetime. Symptoms develop within hours to days of infection and include feeling tired and generally unwell, development of a mild fever and sore throat, sneezing and excess mucus in the nose.
The symptoms usually last for approximately 5 to 7 days before the sufferer starts to recover. The common cold cannot be 'cured' but the symptoms can be treated, largely by drinking plenty of fluids and resting.

Sinus infection

Sinuses are air spaces found in the bones of the face. Sinus infection is commonly caused by bacteria. Symptoms include headache (in the front of the head and face area), facial pain and excessive mucus in the nose.
Treatment with antibiotic tablets is usual.

Tonsillitis

Tonsillitis is caused by infection of the tonsils, which are located at the back of the throat.
The condition is far more common in children than adults and localized 'epidemics' of tonsillitis can occur in schools. Around half of all cases of tonsillitis are caused by viral infection (caused by *adenovirus*). Symptoms consist mainly of a severe sore throat. The symptoms are treated by drinking plenty of fluids and resting: antibiotics may be required for severe, persistent tonsillitis. Surgical removal of the tonsils may be required in a minority of cases.

What is allergic asthma?

An *allergy* is when the body's immune system 'over-reacts' to a certain substance (called an allergen). Common allergens include pollen grains, dust mites, bacteria, fungal spores, pet hair, etc. Allergies play a major role in causing asthma; more than 90% of asthmatic children and around 50% of asthmatic adults have allergies. When an asthmatic person inhales an allergen an 'allergic reaction' is triggered in the airways, which causes them to become

swollen and narrowed, resulting in an asthma attack. Asthma is characterized by the reversible narrowing of the smaller airways in the lungs. The main symptoms of asthma include cough, wheeze, chest tightness and shortness of breath.

In Western countries, asthma can affect up to 15% of the population and is particularly common in children. The number of people suffering from asthma is now increasing in many countries, particularly in younger people and children. Children with asthma often improve as they get older but the disease can return in adult life.

Apply for 2-3 mins. 2 times a day.

Treatment of asthma begins with avoidance of any causal factors, such as animal hair, moulds, cigarette smoke, etc.

Drug therapy involves aerosols or powders delivered into the lungs via an inhaler device. Types of drug used to treat asthma include airway dilators (to widen the airways), anti-inflammatory agents and steroids (to reduce airway swelling and irritation), and anti-allergy agents (to prevent the allergic reaction occurring).

What is allergic rhinitis?

Rhinitis is swelling and irritation of the lining of the nose and is characterized by persistent sneezing, nasal discharge (mucus) and a 'blocked' nose. Most cases of rhinitis are caused by allergy.

Seasonal rhinitis, or *'hay fever'*, occurs mostly during the summer months. It is the most common of all allergies, occurring in up to 1 in 5 people worldwide. Other symptoms include itching of the eyes and irritation in the back of the throat, and up to 20% of sufferers also have seasonal asthma attacks. Causal allergens include pollen from trees and grasses and mould spores.

Perennial allergic rhinitis occurs most of the time. Sufferers are commonly allergic to dust mites and animal 'dander'. Dust mites are minuscule creatures (less than 0.5mm long) that feed on human skin flakes. Animal 'dander' refers to skin, hair or feathers and particles from dried saliva or urine from cats, dogs, rodents, birds, etc.

Treatment involves avoidance of allergens, such as animal hair, pollen and dust mites. Drug therapy includes antihistamines (to reduce the allergic reaction) and sprays or drops containing decongestant (to reduce swelling in the nasal passages) and/or steroid (to reduce swelling and irritation of the nose).

BIOPTRON® LIGHT THERAPY SYSTEM By Zepter Group

BIOPTRON LIGHT THERAPY *is a new and effective treatment for relieving the symptoms of upper airway infections in children.*

BIOPTRON Light Therapy in upper airway infections in children

BIOPTRON Light Therapy may help to treat upper airway infections in children by relieving any pain and inflammation, by promoting a healing response and by stimulating the immune system.

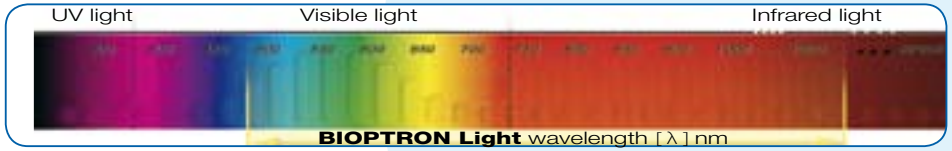
- Studies carried out in various hospitals and clinics found that BIOPTRON Light Therapy was effective, safe and simple to use in children.
- Because BIOPTRON Light Therapy is quiet and painless, children were not afraid of it.
- Parents were happy with BIOPTRON Light Therapy and with the results obtained.

How do I use BIOPTRON Light Therapy if my child has an upper airway infection?

It is so simple! BIOPTRON Light Therapy is completely safe and easy to use. The BIOPTRON Light Therapy device can easily be positioned so the healing light shines on the head and the chest area. Treatment should be applied for 4 to 6 minutes per session and for 2 sessions per day for 5 to 6 days. Children with allergic asthma may require 2 to 3 treatment courses per year.

What is BIOPTRON Light Therapy?

Light is a form of energy and has 'wave-like' properties; the difference between the various colours of light is determined by their *wavelength*. Light has been used as a healing tool since ancient times. Scientists now have a better understanding of which components of natural light are useful in the stimulation of healing. This has led to the development of optical devices to produce various types of 'medically useful' light, such as the *BIOPTRON Light Therapy* (BLT) *System*.



What effect does BIOPTRON Light Therapy have on the body?

BIOPTRON Light Therapy devices emit light containing a range of wavelengths that correspond to visible light plus infrared radiation, both of which have been reported to stimulate biological reactions. Importantly, *no harmful ultraviolet* (UV) *radiation* is present in BLT. When the BLT device is held over the skin surface, energy from the emitted light penetrates the underlying tissues. This produces a biological response, called *photo-biostimulation*, causing various reactions within these tissues that may result in the reduction of pain and promotion of healing.