



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.

Please add local contact details here:



BIOPTRON Pro1



BIOPTRON 2



BIOPTRON Compact III

What is acne?

Acne is a common facial rash that occurs in teenagers and young people: up to 80% of young people have some signs of acne. It is more common in young men than young women.

Acne is characterised by the appearance of spots on the face, upper chest and upper back. The spots (called *whiteheads*, *blackheads* and *pustules*) are caused by blockage and infection of the oil glands in the skin (called *sebaceous glands*).

If the infection is severe, a pustule forms, which may cause the skin to scar during healing. Some cases of acne can be extremely severe and cause major disfigurement.

Who gets acne?

Any young person can develop acne but it is far more common in young men. The spots gradually resolve over time but some cases can persist long into adulthood.

Adults rarely suffer from acne unless they have been exposed to certain drugs (such as corticosteroids) or chemicals (such as hydrocarbons in the oil industry).

What are the common symptoms of acne?

Acne presents as a rash of spots on the face, chest and/or back. The affected skin is often greasy and may be inflamed.

Damage to inflamed areas of skin can result in deeper infection and scarring.

In addition to the physical problems, acne can also cause psychological problems. Puberty and adolescence are often difficult times for young people, and having severe facial acne can result in loss of confidence and depression.



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

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ACNE (spots)

information for patients

What causes acne?

An acne spot forms once the sebaceous gland becomes blocked by a 'plug' of sebum. Sebum is normally white-yellow in colour, so the first spots to appear under the skin appear white ('whiteheads'). If the 'plug' of sebum is pushed up onto the skin surface, it comes into contact with air and changes colour to become dark black-brown, forming a black spot ('blackhead').

The blockage allows skin bacteria to collect and multiply in the sebaceous gland, causing an infection to develop. The infection causes the surrounding tissue to become inflamed, making the skin red and sore. If these inflamed areas rupture, the bacteria can get deeper into the skin and cause more severe infection which is likely to result in skin scarring.



Before After

What treatment is available?

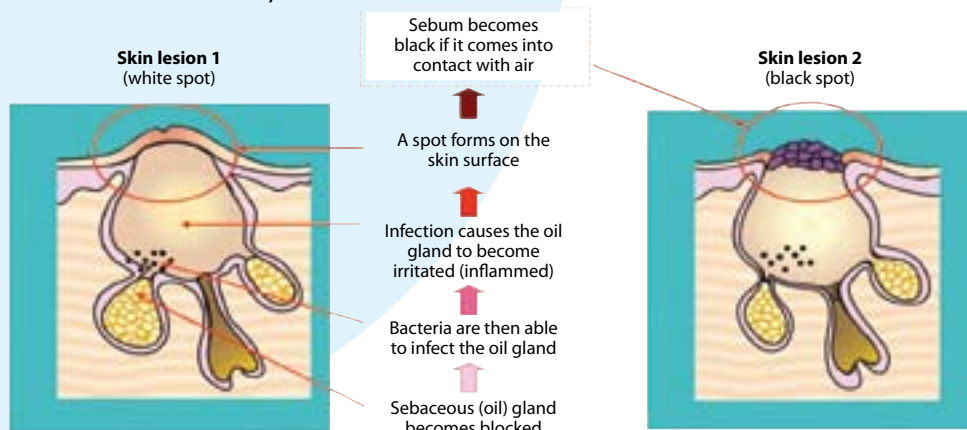
Conventional medical treatment for acne attempts to prevent skin scarring by decreasing any infection and reducing skin irritation. Treatment must continue for at least 2 to 3 months before any improvement is seen.

General advice includes regular washing with special acne soaps to remove excess oil from the skin, and not squeezing the blackheads or pustules (as this makes them worse).

Most patients have mild to moderate cases and treatment applied directly to the skin (topical therapy) is usually sufficient. Topical therapy consists of creams or ointments containing antibiotics (to fight the bacterial infection), agents to reduce blackhead formation, and vitamin-A derivatives (to promote skin healing).

More severe cases require antibiotic tablets and/or phototherapy with ultraviolet light.

Very severe cases need to be treated in hospital with powerful vitamin-A derivatives (such as isotretinoin or acitretin); however, these drugs have potentially serious side effects and the patient must be monitored carefully.



BIOPTRON LIGHT THERAPY is a new and effective treatment for relieving the symptoms of Acne.

BIOPTRON Light Therapy in Acne

BIOPTRON Light Therapy may help to treat acne by relieving pain and inflammation, by promoting a healing response in the skin and by stimulating the immune system to fight off any skin infection.

How do I use BIOPTRON Light Therapy if I have Acne?

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 any areas where acne is present (head, face, upper back, upper chest). Treatment should be applied to each affected area for 4 to 10 minutes per session and for 1 to 2 sessions per day for as long as is required.

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 (Figure: Wavelengths). 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's 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.

