



How does the Photizo® Sport assist in alleviating sport injuries?

Acute injuries

Photizo® Sport stimulates the energy production (ATP) inside the cell, up to 250X, thereby stimulating the cells to function at optimum levels. It further stimulates and regulates the DNA and RNA synthesis (the programmes inside the cell) to follow the correct healing process, and it regulates scar tissue formation. This speeds up the natural healing process by up to 40%, and reduces the likelihood of excess scar tissue formation and complications.

Photizo® Sport stimulates endorphin and serotonin secretion. This is the body's own pain and relaxing 'medication'. It effectively reduces the inflammatory process that is caused by damage, injury or overuse and reduces muscle spasms and trigger points.

It assists in reducing swelling by increasing the blood vessel and lymph diameter to clear excess waste products from the injured or inflamed area. This reduces the pressure and irritation on nerve endings that causes more pain, and increases blood flow into the area, ensuring that the tissues can absorb more nutrients and oxygen.

Photizo® Sport stimulates optimum cell condition (bone, nerve, capsule, cartilage and muscle tissue) to maintain healthy tissue. This may help to prevent degeneration of tissues, like nerves, bone/joints and blood vessels.



Photon Therapy Systems



Overuse injuries

The healing of tissue occurs in three phases: inflammation, proliferation and organisation. Chronic injuries or overuse inflammations occur when the tissue does not complete this cycle. The tissue stays in the inflammatory phase and does not progress into the proliferation (actual healing of cells and tissues) or organisation phase.

For these injuries to heal, the body needs stimulation of the cell's programmes (DNA and RNA), for example, finalise the inflammation phase and move onto the real healing phase. When the inflammation process organises into scar tissue formation, it causes adhesions that inhibit the normal 'gliding' of muscle and tissue fibres, thereby causing irritation and further inflammation, in a vicious cycle.

Photizo®Sport relieves muscle spasms, reduces the inflammatory processes and relieves pain, thereby breaking the cycle, giving the tissue the opportunity to start the healing process if possible, or in chronic conditions to maintain pain-free periods.

Please note that treatment with the Photizo®Sport will not break down the adhesions, but it will control the inflammatory processes and discomfort, as well as reduce the risk of more scar tissue formation. It is important to begin treatment as soon as the problem starts, as this will help to prevent chronic problems. Chronic muscle spasms and trigger points are usually the result of longstanding overuse of the muscle groups, preventing the clearing of waste products, and the inflow of nutrients and oxygen. Most often, muscle spasms are found in the shoulder, neck and upper and lower back areas.

- o Wavelengths : 633 nm red, 850 nm infrared
- o Coverage : 4.7 cm²
- o Power output : 1 300 mW



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