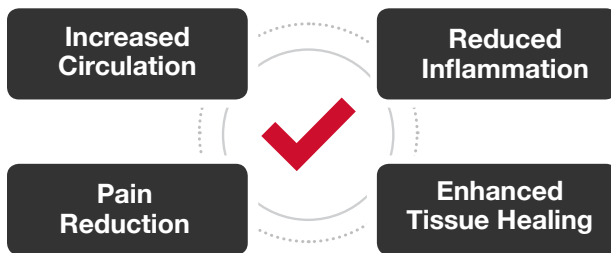


# LASER FUNDAMENTALS

The Platinum Series™ Class IV therapeutic lasers by K-Laser USA deliver specific red and near-infrared wavelengths of laser light to induce a photochemical reaction and therapeutic effect. Laser therapy has been used in Europe since the 1970s and K-Laser USA was cleared by the United States Food and Drug Administration (FDA) in 2005.

## Physiological Effects of Laser Therapy



## LASER THERAPEUTIC EFFECTS

During each painless treatment, laser energy increases circulation, drawing water, oxygen, and nutrients to the damaged area. This creates an optimal healing environment that reduces inflammation, swelling, muscle spasms, stiffness and pain. As the injured area returns to normal, function is restored and pain is relieved.

## CELLULAR EFFECTS

During laser therapy, infrared laser light interacts with tissues at the cellular level increasing metabolic activity within the cell. By improving the transport of nutrients across the cell membrane, the increased production of cellular energy (ATP) is stimulated. The cascade of beneficial effects that follows includes increased cellular function and tissue repair.