

How It Works

LipoLaser paddles containing laser diodes that emit specific wavelengths of light designed to target fat cells (630 to 680 nm) are placed on the patient's skin for 10 minutes per treatment area. Laser energy safely and painlessly penetrates several millimeters into the subcutaneous adipose or fat tissue layer.

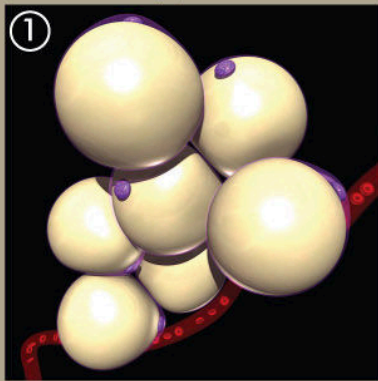
The adipose cell walls are made permeable for a temporary period allowing cell contents to spill out into the interstitial space. The fat (in the form of triglycerides) is converted to free fatty acids (FFA's), water and glycerol.

The FFA's are utilized in the body as energy or are reabsorbed by other cells, while water is utilized or excreted and glycerol is processed through natural metabolic functions including gluconeogenesis.

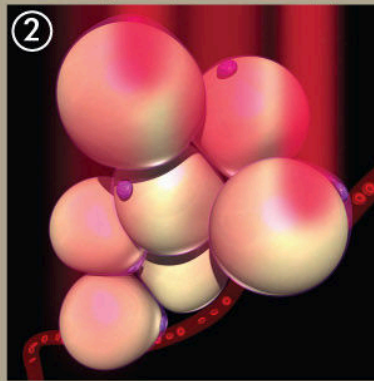
Fat cells are significantly reduced in size resulting in substantial body contour improvements.

During a standard treatment cycle, the body can easily process the amount of mobilized fat that is released. Cell debris is cleared by natural metabolic pathways while structures such as blood vessels and peripheral nerves remain intact.

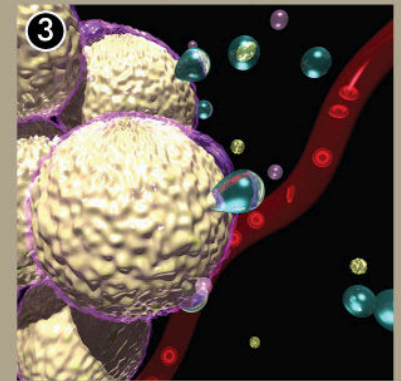
Adipocytes at rest



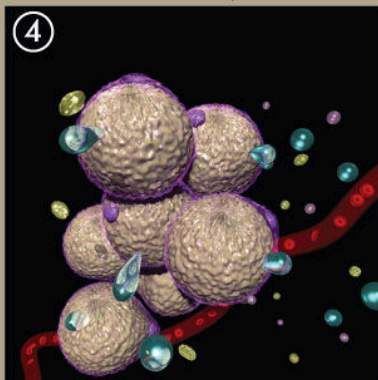
Laser energy from LipoLaser irradiates adipocytes



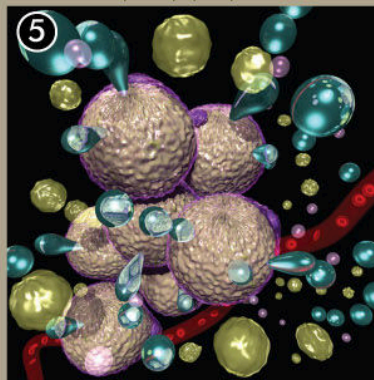
Pores have formed on the adipocytes allowing contents to spill out



Water, Glycerol and Free Fatty Acids move out into interstitial space



More Water (blue), Free Fatty Acids (green) and Glycerol (purple) spill out



Adipocytes significantly reduced in size while the blood vessel stays unaffected



SAFETY

Low level lasers have been used successfully in private practice for over 30 years and in numerous studies worldwide.

To date, there are no known reports of anyone being harmed by a low level laser, which is extremely safe when used correctly.

Clinical testing completed in the United States and overseas has shown the LipoLaser maintained an excellent margin of safety throughout multiple treatments on a wide range of patients over several months of testing.