The American Society of Liposuction Surgery presents...

WORLD CONGRESS on Liposuction Surgery

October 13-15, 2000
The Ritz-Carlton Dearborn
Dearborn, Michigan

This study was performed using the Erchonia "Healing Light" 635 nm laser

American Academy of Cosmetic Surgery

ADVANCED LIPOSUCTION TECHNIQUE/MECHANICAL DEVICES
Saturday, October 14

Applications of the Low Level Laser Assistant Therapy Liposculpture (L.A.L.): Descriptions of a New Technique--Rodrigo Neira, MD

250 Patients are presented that have been through a liposculpture procedure using a low-level energy laser beam, electric diode beam, 6 of which were randomly selected to take alleartory samples.

The patients' fat was studied through transmission electron microscopy and scanning electron microscopy with the following finding:

-With the tumescent technique and laser beam exposure for 4 minutes, there is partial destruction of the adipocytes, with some cells preserved without destruction of the cell membrane. The adipocyte lost their round shape and there is fat coming out to the interstium space.

-With the tumescent technique and beam exposure for 6 minutes, there is complete destruction of the adipocyte cell with the fat completely out of the cell and coming into the interstitial space. There is also destruction of the connective tissue, but the capillaries and the rest of the interstitium is preserved.

-Without tumescent technique and invitro laser beam exposure of the addipose tissue of 4 minutes and 6 minutes, it is observed that the laser power through the addipose tissue is diminished without the tumescent solution. The findings at scanning and transmission electron microscopy with 6-minute exposure corresponds to those observed at 4 minutes with the same laser energy of 10 joules per centimeter square.