

CHANGE YOUR BODY, CHANGE YOUR LIFE

LTDIET[®]

LIGHT THERAPY DIET BELT



LUMIDIET[®]

THE WORLD'S FIRST AND MOST INNOVATIVE DIET BELT

LumiDiet is a personal wearable light-therapy diet belt. It introduces clinically proven LED light technology to break down your abdominal fat cells. Portable size and weight, great elasticity, and motor-powered vibration allows a perfect fit for users of all body types. Additionally, LumiDiet is easy-to-care product for its long-life battery, resistance to sweat and dust, and the simplest control.

This is LUMIDIET.

WHEN CAN I USE IT?

ANYWHERE AT ANY TIME!

LumiDiet is thin, light, portable, and appropriate for home, office and gym use. It only requires 1 or 2 sessions per day and 30 minutes per session for the proper result. You can maximize the fat reduction effect by combining with exercises.



LUMIDIET®



DESIGN & FUNCTIONS

LumiDiet is scientifically and beautifully designed to help people shed pounds more effectively and efficiently in a shorter period of time.

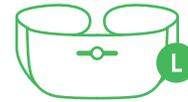
Under 500g



**SLIM. LIGHT.
FREE TO MOVE.**

LumiDiet is only 0.5 inches thick and under 500g. The LED lamps and vibration motors are designed thinly to make the belt as slim and lightweight as possible. LumiDiet also has good wearability designed for the active movement such as walking, jogging and outdoor activities. Carry LumiDiet anywhere at any time.

LUMIDIET®



35~45 Inches

**STRETCHABLE FOR
WAIST SIZE UP TO
45 INCHES**

We use polycarbonate that is well-known for its resilience to make the belt fit conveniently just by stretching both wings of the belt. Therefore, LumiDiet gives users great user experiences with a comfortable fit that is suitable for waist sizes up to 45 inches. It softly covers your waist and holds firmly at the same time, so you will be able to use it anywhere at any time in any position.

LumiDiet is available in 3 sizes; Small (under 25 inches) Medium (26~35 inches), and Large (36~45 inches).



3000 mAh

**EFFORTLESS WIRELESS
WITH HIGH-CAPACITY
BATTERY**

LumiDiet is powered with a long-life battery of 3000mAh - approximately 6 sessions after full-charge, which is safe and easy to charge with 5-pin charger (compatible with Android charger). Full-charged device will last up to 4 hours.

LUMIDIET®



**FEEL SOFT.
DUST & SWEAT RESISTANT.**

We use the most advanced silicon material so you will not feel any discomfort on bare skin even when sweating. Also, Lumidiet is resistant to dust and sweat as the LED lamps are covered with a thin layer of glass to protect any incoming liquid or dust.



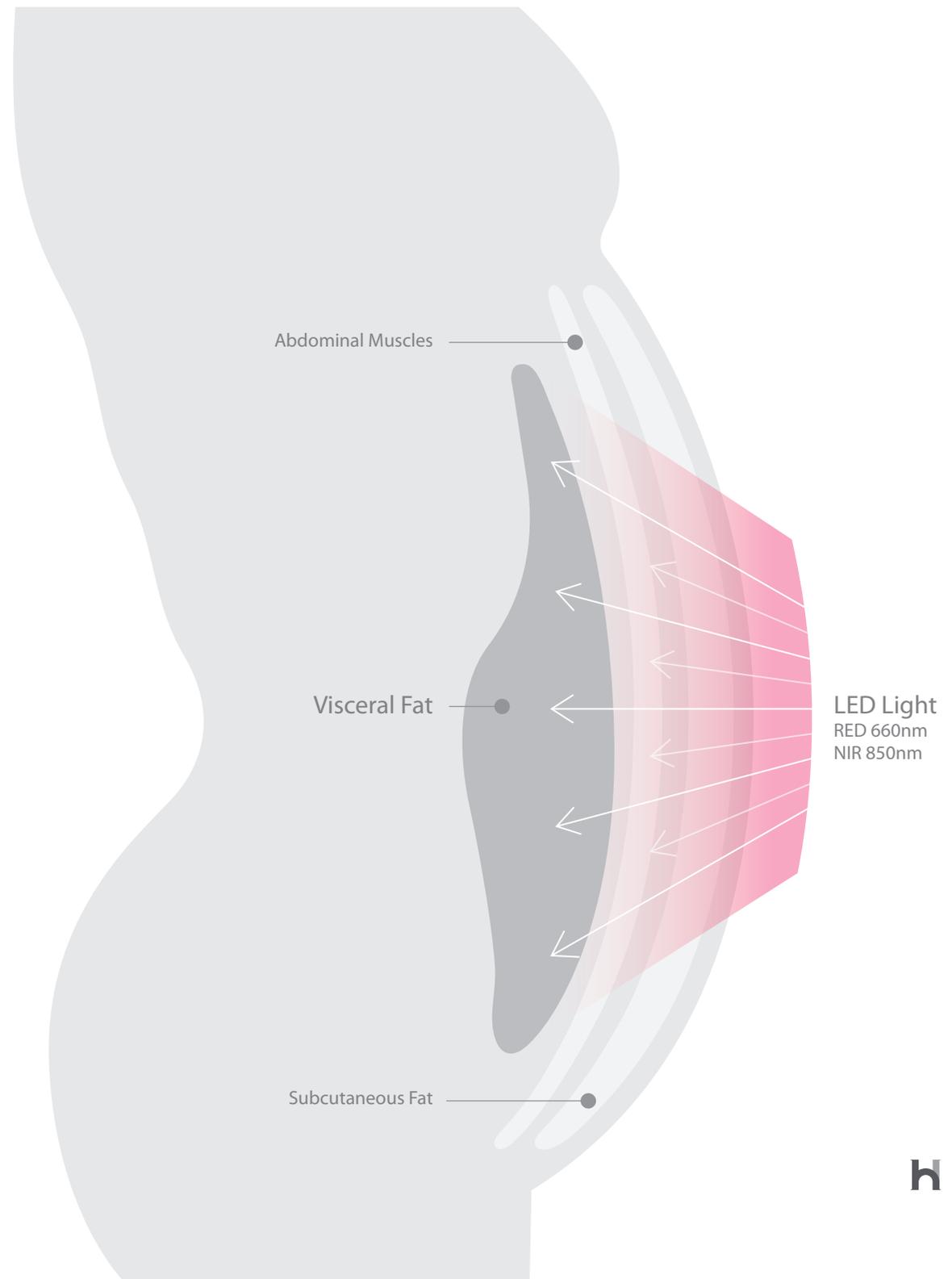
**EFFORTLESS CONTROL.
AMAZING RESULT.**

Lumidiet is designed with minimized buttons for simple and easy control of the device. A small time commitment, 1 or 2 session(s) per day (1 session=30 minutes), can create a big change. Experience amazing results in just a few weeks.



HOW IT WORKS

The combination of LFRT(Light Fat Reduction Technology) and vibration helps your body to burn the fat much easier and faster.



LumiDiet's Clinically Proven Technology

LFRT

Light Fat Reduction Technology

LFRT(Light Fat Reduction Technology) is a newly developed technology that exposes our body to artificial light that has particular wavelength and intensity to help to reduce fat. LumiDiet has developed and applied LFRT to maximize the result of burning abdominal fat. This technology includes differentiated recipes on selection of light source, intensity, radiation and frequency; consequently, we optimized these parameters in order for us to maximize the effect of fat reduction.

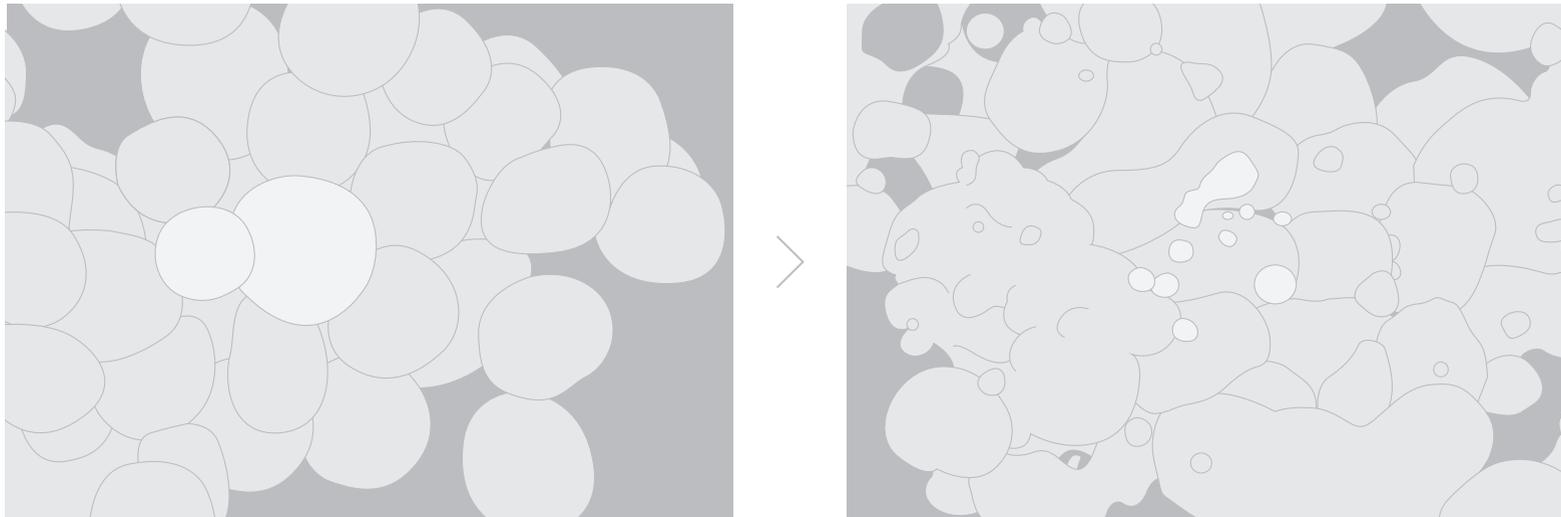


LFRT

Optimized Formula for the Effective Fat Reduction

LumiDiet's LFRT is an optimized combination of elements such as wavelength, power, energy, and vibration for the most effective fat reduction.

1. WAVELENGTH



Mitochondria in cells only absorb light of specific wavelength such as NIR and RED to break down triglycerides into fatty acid and glycerol, eventually discharging them through transient pores on cell wall.

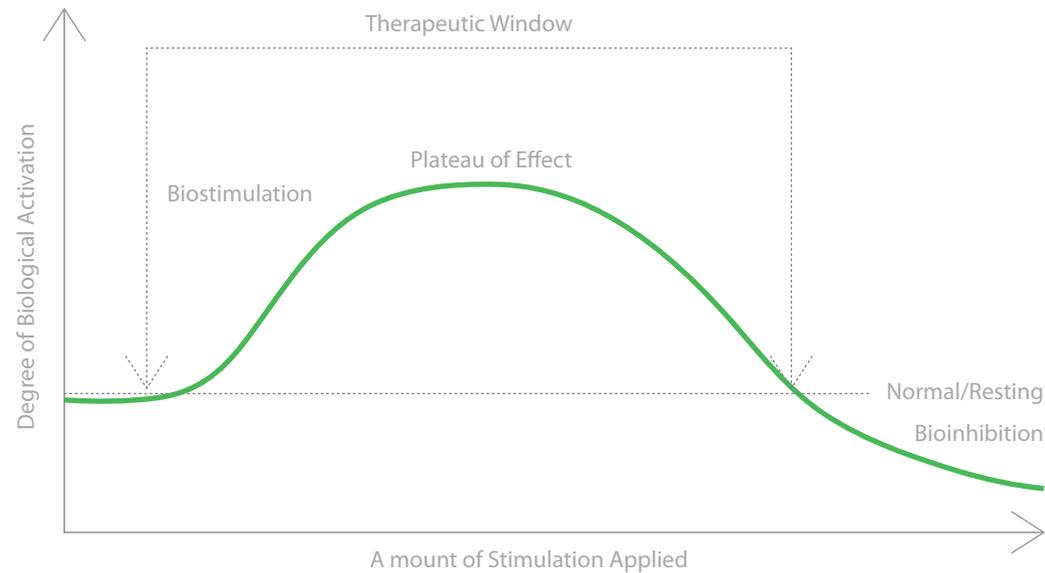
Released components flows into lymphatic system where they are broken down into smaller pieces.

These components then flow into circulatory system to be burnt for the body's metabolism.

2. POWER AND ENERGY

According to the Arndt-Schultz Law, there is a concept called “therapeutic window”, which is an optimized density range for fat reduction.

The optimal intensity formula is applied for LFRT.



Schematic representation of the Arndt-Schultz law

3. VIBRATION

Vibration therapy offers positive results by stimulating muscles and metabolism and improving the flow of blood and lymph. Especially when appropriate amount of exercise cannot be done, vibration therapy can be a great substitute for spot fat/cellulite reduction as it improves the circulation of applied area.

Source: A. Savoia et al, "Low-level laser therapy and vibration therapy for the treatment of localized adiposity and fibrous cellulite," Dermatology and Therapy, Vol. 3, 2013.)

PROVEN THEORY AND TECHNOLOGY FOR FAT REDUCTION

Low-Level Laser Therapy for Fat Layer Reduction: A Comprehensive Review

Pinar Avci, MD,^{1,2,3}
Theodore T. Nyame, MD,⁴
Gaurav K. Gupta, MD, PhD,^{1,2}
Magesh Sadasivam, MTeeth,¹
and Michael R. Hamblin, PhD^{1,2,5*}

¹ Wellman Center for Photomedicine, Massachusetts General Hospital, Boston, Massachusetts, 02114

² Department of Dermatology, Harvard Medical School, Boston, Massachusetts, 02114

³ Department of Dermatology, Dermatoooncology and Venerology, Semmelweis University School of Medicine, Budapest, 1085, Hungary

⁴ Division of Plastic and Reconstructive Surgery, Harvard Medical School, Boston, Massachusetts, 02115

⁵ Harvard-MIT Division of Health Sciences and Technology, Cambridge, Massachusetts

After 6-7 treatment for 2 weeks, the mean circumferential reduction from 689 participants is 1.14 inches.

Application of Low-Level Laser Therapy for Noninvasive Body Contouring

Robert F. Jackson, MD,¹
Fredric A. Stern, MD,²
Rodrigo Neira, MD,³
Clara L. Ortiz-Neira, MD, MEd,⁴
Dr. Jillian Maloney, MD.^{5*}

¹ Private Practice Physician, Marion, Indiana 46952

² Private Practice Physician, Bellevue, Washington 98004

³ Clinical Assistant Professor, Alberta Children's Hospital, University of Calgary, Canada

⁴ Radiology Department Red Deer, Alberta, Canada

⁵ Mayo Clinic, Phoenix, 1172 E. Buffalo St., Gilbert, Arizona 85295

We provided empirical evidence that LLLT-635nm produces statistically significant circumferential changes in 2 weeks without inducing an adverse event.

Efficacy of Low-Level Laser Therapy for Body Contouring and Spot Fat Reduction

Mary K. Caruso-Davis
Thomas S. Guillot
Vinod K. Podichetty
Nazar Mashtalir
Nikhil V. Dhurandhar
Olga Dubuisson
Ying Yu
Frank L. Greenway

The studies as of today suggest that LFRT has a potential to be used in fat and cellulite reduction as well as in improvement of blood lipid profile without any significant side effects.

MELTING DOWN THE FAT BY LED LIGHT

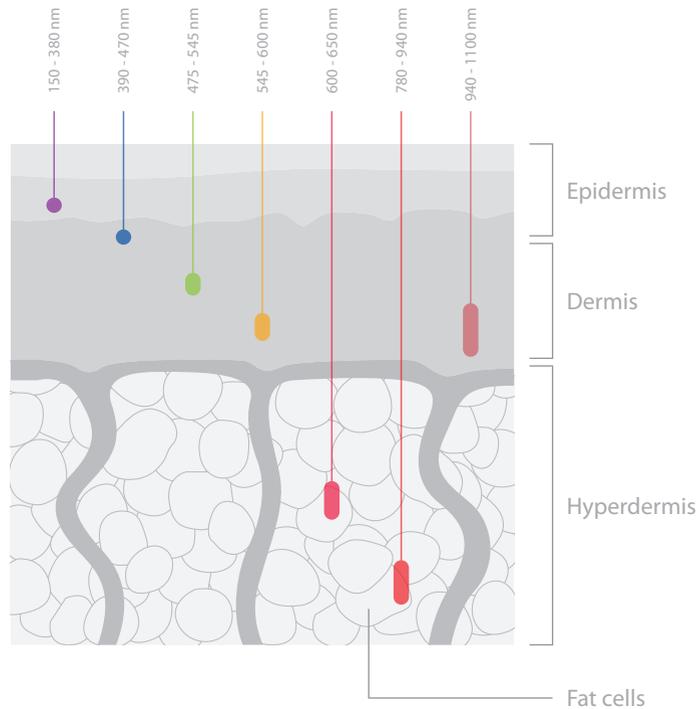
FAT LOSS PROCEDURE 1

The NIR(4~5cm) & red LED (1cm) light safely penetrates the skin targeting the fat cells in the subcutaneous layer.

"...Visible red light (660 nm) is readily absorbed by blood and skin surface components thereby limiting its tissue penetration to < 10 mm.

NIR laser 810 nm is not readily absorbed and has a much larger depth of tissue penetration of 30–40 mm or greater..."

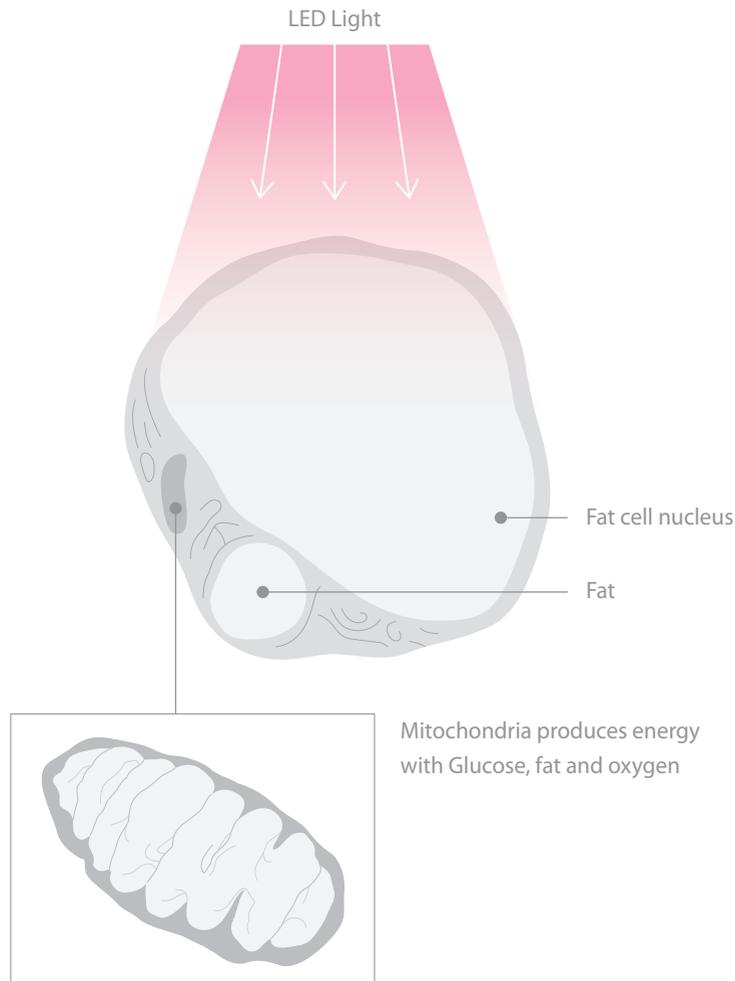
Source: Asheesh Gupta et al., Effect of red and near infrared wavelengths on low-level laser (light) therapy induced healing of partial-thickness dermal abrasion in mice.



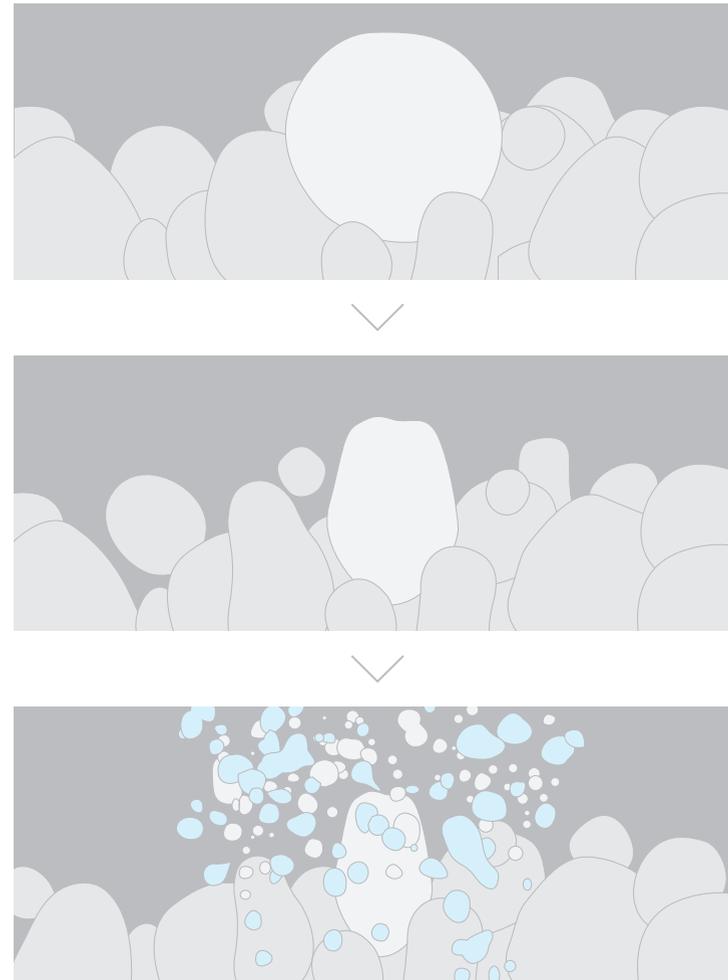
Wavelength (nm)	Color Range	Penetration (cm)
600 - 650	Red	1.0~2.0
650 - 950	Deep Red-NIR	2~3 or greater

Source: Pinar Avci. MD et al., Low-Level Laser (Light) Therapy (LLLT) in Skin: Stimulating, Healing, Restoring

FAT LOSS PROCEDURE 2

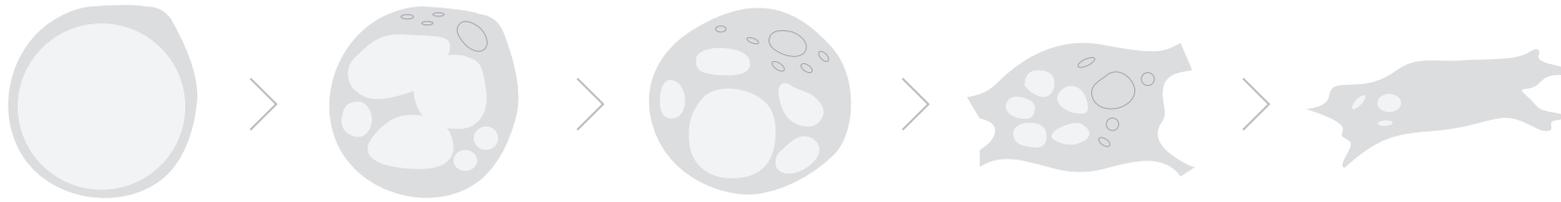


The red LED stimulates mitochondria in cells to produce energy that breaks down fat.



The alteration of the cell chemistry triggers the release of an enzyme (lipase), which can break the triglyceride molecules down into fatty acids and glycerol molecules.

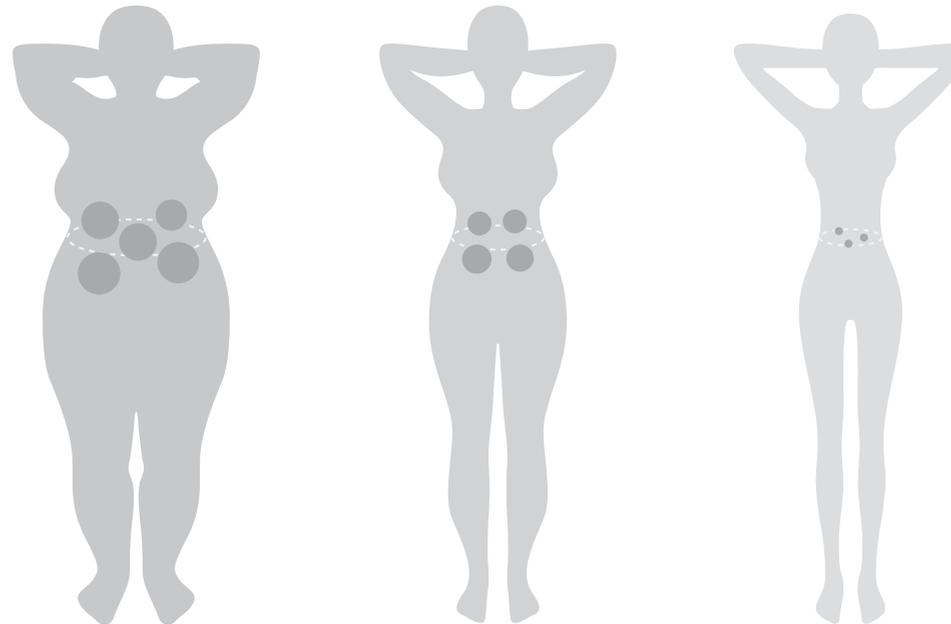
FAT LOSS PROCEDURE 3



The small substances are discharged through the pores of the cell wall, then travels around the lymphatic system in the body, which are eventually reduced naturally or burnt through exercises.



The vibration during or after light treatment helps our body to burn the mobilized fat more easily if you are not able to take the proper exercise. It also causes increased local circulation to targeted areas, giving the visible cellulite area a smoother look.



The fat cells are then smaller, leaving you with inch loss, fat loss, and reduction of the appearance of cellulite!

Real Results

EFFICACY TESTS

*The solid research and clinical tests
behind our diet solutions.*



PROCESS

- 4 weeks of experiments
- Participants maintain same diet and exercise habits for the tests
- Participants use Lumidiet belt for 30 minutes prior to their exercise

TEST 1 RESULT



Before



After 4 Weeks

WEIGHT

- 1.65 kg

WAIST SIZE

- 3.03 cm

BMI

- 0.55

WEIGHT (kg)



WAIST SIZE (cm)



TEST 2 RESULT



Before



After 4 Weeks



CT Scan Before vs After (Jan. 2015)

WEIGHT

- 2.90 kg

WAIST SIZE

- 5.5 cm

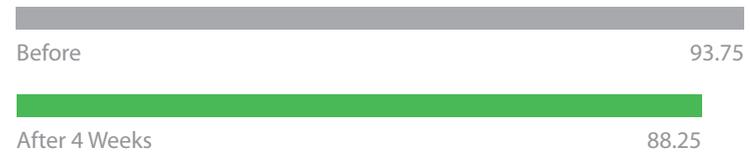
BMI

- 0.96

WEIGHT (kg)



WAIST SIZE (cm)



TEST 3 RESULT (IRB Approved)



Before



Before



After 4 Weeks



After 4 Weeks

Waist circumference reduction of test and control group by reduction

Grade	Over 3 cm	2 ~ 2.9 cm	0.5 ~ 1.9 cm
Laser-treated group (Number of participants)	4	5	11
Control group (Number of participants)	0	3	17

*Test group and control group both maintained their diet and exercise habit, and only test group wore LumiDiet during the experiment.

LUMIDIET®

LUMIDIET S PATENT

Title of the Invention:

*"A wearable device using LED lights
to reduce body fat and its method"*



