



LipoSonix, Inc.

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www.LipoSonix.com

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The Concept

LipoSonix, Inc. is a Seattle-based medical device company developing innovative products for non-invasive body sculpting. The technology works by focusing high-intensity ultrasound through the skin into the treatment zone within subcutaneous adipose tissue. The ultrasound energy permanently disrupts the adipocytes without damaging the epidermis, dermis, or underlying tissues and organs. Treated tissue is resorbed via normal inflammatory mechanisms. The LipoSonix® product has the potential to be a powerful non-invasive body sculpting tool for aesthetic applications.

The Mission

Our mission is to be the leader in non-invasive body sculpting, by providing safe and effective technology.

LipoSonix® Technology

LipoSonix has taken a rigorous, science-based approach to technology development. The company has spent eight years and over \$50 million in research and development leading to the realization of the LipoSonix® System. During this time, the company has conducted over 100 controlled pre-clinical and clinical studies to demonstrate safety, clearly document mechanism of action and biologic response, and to provide quantitative evidence of the aesthetic benefits of our device.

The LipoSonix® System achieves targeted reduction of adipose tissue volume by focusing high intensity ultrasound energy to cause thermo-coagulation of adipocytes. A custom designed ultrasound transducer delivers energy across the skin surface at a relatively low intensity, but brings the high intensity energy to a sharp focus in the subcutaneous fat. At the skin surface, the intensity of the ultrasound energy is low enough so that no damage occurs. The focusing of the ultrasound beam at specific depths beneath the epidermis, combined with proprietary application techniques, results in the intended adipocyte disruption.

Once the adipocytes have been disrupted, chemotactic signals activate the body's inflammatory response mechanisms.

Macrophage cells are attracted to the treated area to engulf and

transport the lipids and cellular debris. This results in an overall reduction in local adipose tissue volume. The results of the clinical studies substantiate that the procedure results in effective non-invasive body sculpting.

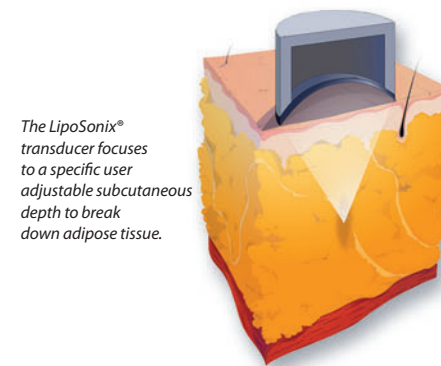
Specific advantages of LipoSonix® technology include:

- Highly mobile system
- Non-invasive energy delivery
- Adjustable energy and depth settings
- Pattern generator technology for efficiency and ease of use
- 30–60 minutes treatment time for a full abdomen

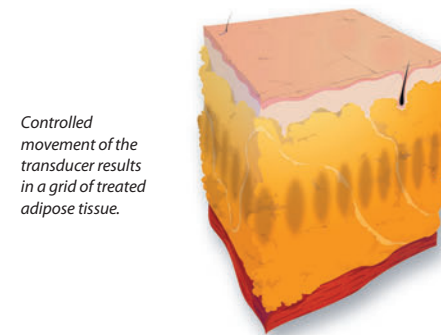
LipoSonix has over twenty US patents issued or pending, with corresponding filings worldwide. The company is committed to continuing to expand and strengthen this portfolio.



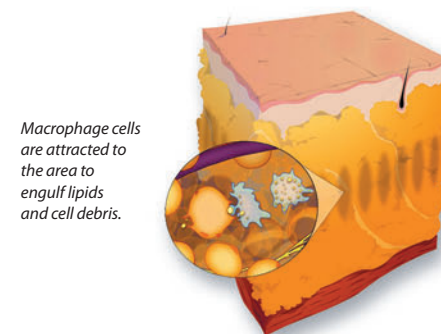
LIPOSONIX® PROCEDURE



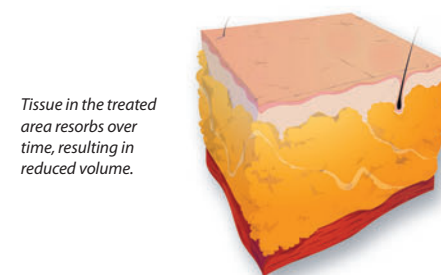
The LipoSonix® transducer focuses to a specific user adjustable subcutaneous depth to break down adipose tissue.



Controlled movement of the transducer results in a grid of treated adipose tissue.



Macrophage cells are attracted to the area to engulf lipids and cell debris.



Tissue in the treated area resorbs over time, resulting in reduced volume.

LipoSonix® Use Model

The LipoSonix® procedure is designed to be simple and straightforward: an operator moves the treatment head across a grid pattern on the patient's skin, treating one site at a time. Product development has been focused on maintaining simplicity and ease of use, while maximizing patient safety and comfort.

Clinical Studies and Safety

The initial efforts of LipoSonix involved extensive pre-clinical *in vitro* and *in vivo* testing to demonstrate proof of principle and refine specific treatment protocols. Initial human feasibility studies were performed on patients undergoing abdominoplasty surgery, allowing for detailed evaluation of the patho-physiological process. The safety of these trials was assessed through evaluation of blood panels, gross pathology, histological analysis, and non-invasive imaging (including computed tomography (CT), magnetic resonance imaging (MRI), and ultrasound.)¹

Clinical results to date demonstrate patient safety and efficacy of the LipoSonix® procedure. The blood work demonstrates no evidence of any adverse local or systemic effects from the procedure. CT, MRI, and gross pathology have confirmed that treatment zones are confined to subcutaneous adipose tissue, with no damage to intervening or underlying tissues. Some patients may experience temporary erythema, mild edema, and ecchymosis. Early efficacy, as documented on physical examination and standardized clinical photography, is very promising, exceeding initial expectations.



LipoSonix® Benefits

- Completely non-invasive
- No need for infusion of wetting solutions
- Low associated costs
- 30–60 minutes treatment time for a full abdomen
- No patient downtime
- Low demand on physician time
- No anesthesia required

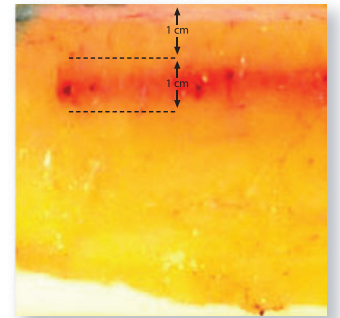
The Company

LipoSonix, Inc. is a wholly-owned subsidiary of Mediscs focused on developing innovative products for non-invasive body sculpting.

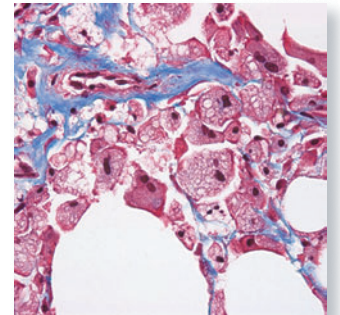
Reference:

1. Murray, E., et. al. Evaluation of the Acute and Chronic Systemic and Metabolic Effects from the Use of High Intensity Focused Ultrasound for Adipose Tissue Removal and Non-Invasive Body Sculpting. (Abstract) ASPS Meeting, Chicago, Illinois, September 2005. Study sponsored by LipoSonix.

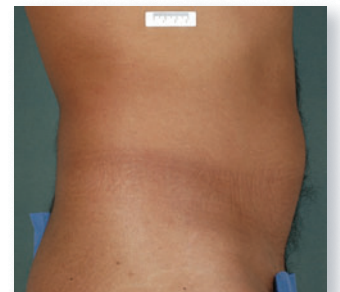
Technical brochure intended for healthcare professionals only.



Gross pathology from an abdominoplasty specimen reveals a discrete treatment zone within the adipose tissue and control over ultrasound energy.



One-month histology, 400x, demonstrates macrophages in the HIFU treatment zone which are filled with released lipid droplets.



Before LipoSonix® procedure.



After LipoSonix® procedure. 3 months post, single treatment. Individual results may vary.



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