



LipoLife

Liposuction, Skin Tightening
& Fat Grafting

Innovative, integrated technologies for
optimal clinical results

Reduced treatment time - with simultaneous
lasing and suction

High fat vitality for successful on-the-spot grafting

Compact, portable, all-in-one system

Enhanced skin tightening

High ROI, out-patient solution

Alma
Lasers™ | Surgical

The Complete Solution
For Liposuction, Skin
Tightening & Fat Grafting

Maximum Performance, Maximum Possibilities

LipoLife is Alma Laser's groundbreaking liposuction and fat grafting solution, offering combined applications, maximum safety and proven clinical success.

LipoLife streamlines the surgical process by offering a complete, all-in-one solution covering all stages of liposuction, skin tightening and fat grafting procedures. It is the first integrated solution of its kind combining multiple modalities in a compact, portable and neatly organized system.

Simultaneous lasing and suctioning simplifies the procedure and significantly reduces treatment time. **Thermal energy** and a unique **radial emission fiber** allows for effective, homogenous skin tightening. And the collection of **high vitality fat** permits successful, immediate fat grafting with years of longevity potential.

LipoLife's quiet operation and minimal floor-space design allows you to perform liposuction procedures in outpatient clinics under local anesthesia, offering increased procedure safety and greater patient appeal. Fully equipped fat grafting kits allow you to immediately transfer readily-available fat to areas where tissue augmentation is needed, without the costs of dermal fillers.

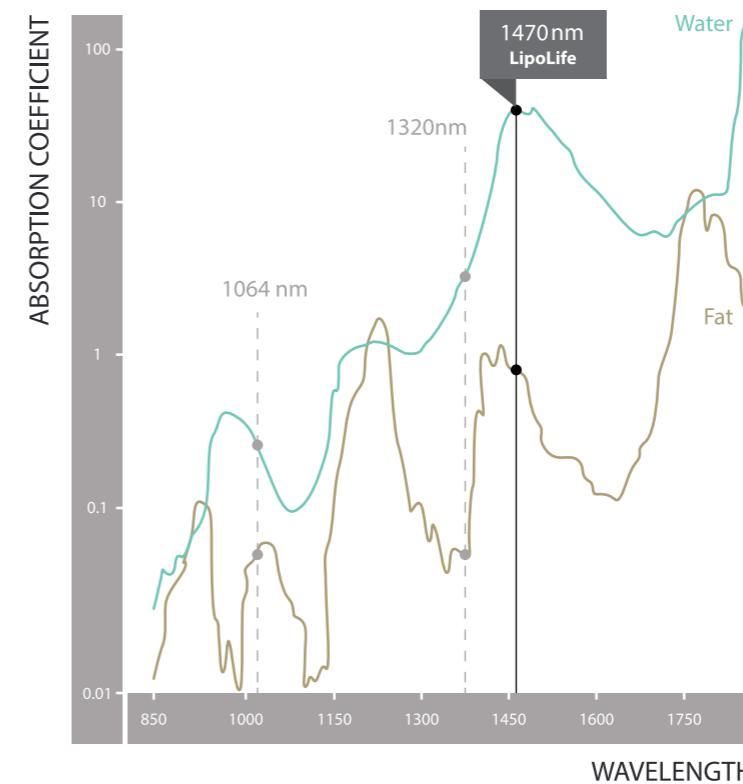
The Complete Solution for Liposuction, Skin Tightening & Fat Grafting



State-of-the-Art Technologies

LipoLife, powered by the 1470 nm diode device and recent innovations by Alma Lasers, brings the cutting-edge in tumescent liposuction including targeted fat removal with minimal bleeding and bruising, high fat viability, less physician exertion and shorter patient recovery time.

The system features a 1470 nm wavelength; combined infiltration and suction; an integrated cannula and fiber interface for simultaneous lasing and suction; and the unique Angel™ radial emitting fiber for wider and even heat emission and distribution, homogenous treatment and preservation of fat viability. LipoLife achieves safe and effective fat removal, improved skin tightening and successful fat grafting - all within a single procedure.



"The next generation LipoLife system by Alma has been a breakthrough for my clinic's liposuction routine. Simultaneous lasing and suction significantly cuts treatment time and makes performing procedures far less physically demanding. The system is compact while offering all of equipment and accessories we need, saving us space without sacrificing convenience."

*Dr. Alex Levenberg, Plastic Surgeon
Sourasky Medical Center*

Optimal Wavelength

LipoLife uses the 1470 nm wavelength which specifically targets water in soft tissue and features a higher absorption rate than all other competing devices. This allows for optimal fat removal with minimal tissue damage. Laser energy is delivered at a low power density for maximum safety, minimizing the risk of burns.

Infiltration and Suction

The ultra-quiet, powerful aspiration system features three pumps for high powered operation: a peristaltic pump for infiltration of tumescent anesthetic mixtures and two aspiration pumps for fat suctioning.

Simultaneous Lasing and Suction

LipoLife features an integrated cannula and fiber interface which allows for simultaneous lasing and suction. This unique interface allows physicians to pass through the tissue more easily and remove fat cells more quickly and efficiently.

As laser energy is delivered to the tissue, the laser cauterizes blood vessels rather than causing them to rupture as with mechanical liposuction. This minimizes bleeding, swelling and body trauma such as hematomas, edema and bruising as well as minimizing post-operative pain.

Simultaneous lasing and suction creates a **one-step process** which significantly reduces the amount of physical effort required to perform liposuction procedures, especially in areas with fibrous tissue such as Gynecomastia. The mechanism simplifies the procedure, reduces total treatment time compared to other energy-based techniques, prevents operator fatigue allowing more treatments to be performed per day and achieves optimal clinical results with reduced patient downtime.

Skin-Safe Unique Angel™ Emitting Fiber

LipoLife features the unique Angel™ radial emission fiber integrated into a Mercedes perforated-tip cannula which emits energy in a 360° pattern. Radial emission lasing is a low-power density approach with multiple benefits including minimizing the risk of burns, distributing energy evenly throughout the treatment area, removing fat cells more quickly and covering greater tissue area, allowing for faster treatment. The fiber's radial emission pattern allows for safe, homogenous and more efficient skin tightening during the procedure.



Laser



Mechanical

Courtesy of Dr. Alex Levenberg, Plastic Surgeon, Sourasky Medical Center



On-the-Spot Fat Grafting with High Fat Viability

Autologous fat transfer for soft tissue contouring has become increasingly popular in recent years, setting a trend in the industry. Fat has taken on a greater role in body sculpting, particularly for breast and buttock augmentation and as a natural filler for facial rejuvenation. The immediate availability of patient's own fat, its natural integration into host tissues and its long lasting correction potential makes it a highly favorable application.

LipoLife achieves a **fat vitality rate greater than 95%¹**. The procedure is quick and convenient with a fully equipped kit, allowing you to easily restore patient tissue volume.

With LipoLife's unique lasing technology, fat cells gently undergo lysis to a semi-liquid state, generating two distinct phases: a significant adipose phase with highly viable, small uniform fat cells and a negligible blood phase, with no oil phase present as with mechanical liposuction. Fat cells are harvested with higher purity and higher viability for better absorption by the body. The preservation of fat cells with high vitality combined with a filtering mesh allows for quality fat grafting and successful autologous fat injection, with longer-term results. Vitality combined with a filtering mesh allows for quality fat grafting and successful autologous fat injection, with longer-term results.

The effects of fat injection can last up to two years or more, and in some cases, indefinitely. Autologous fat transfer may be particularly beneficial for patients who are allergic or sensitive to fillers such as collagen or Hylaform. With LipoLife, autologous fat transfer is simple, safe, inexpensive and effective.

"LipoLife allows us to obtain high quality, viable fat cells quickly and easily for immediate grafting. Its seamless integration with liposuction procedures makes it a convenient and highly effective solution for successful total body contouring."

*Dr. Gerhard Sattler, Dermatologist
Rosenpark Klinik, Darmstadt, Germany*

¹ Source: Levenberg, A., Scheinowitz, M., Sharabani-Yosef, O. "Higher cell viability and enhanced sample quality following laser-assisted liposuction versus mechanical liposuction". Journal of Cosmetics, Dermatological Sciences and Applications, 2015, 5.

Higher Cell Viability and Enhanced Sample Quality Following Laser-Assisted Liposuction versus Mechanical Liposuction

Alexander Levenberg¹, Mickey Scheinowitz², Orna Sharabani-Yosef²

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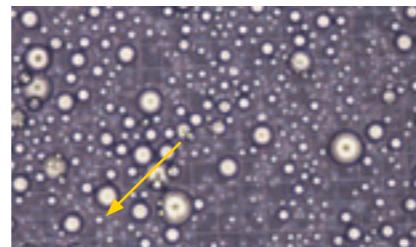
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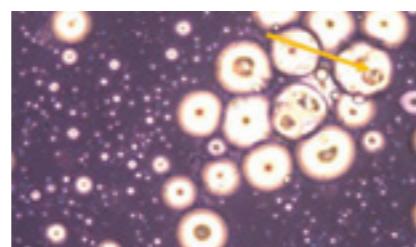
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Microscopic Analysis of Adipose Phase

Adipocytes harvested via laser-assisted liposuction are smaller and of higher quality whereas mechanically harvested cells are larger in diameter, with lower viability.



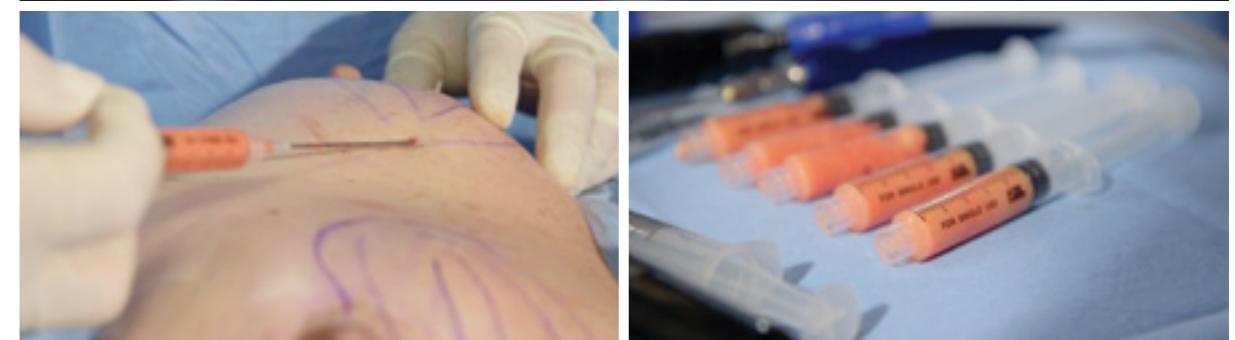
Laser Liposuction
Lipid Droplets diameter size: 10-30 um.
(Magnification x100)



Mechanical Liposuction
Lipid Droplets diameter size: 20-100 um.
(Magnification x100)

"Laser-assisted liposuction proved more effective in preserving preadipocyte viability, while ensuring fewer blood and connective tissue contaminations in the collected adipose tissue."²

²Source: Levenberg, A., Scheinowitz, M., Sharabani-Yosef, O. "Higher cell viability and enhanced sample quality following laser-assisted liposuction versus mechanical liposuction". Journal of Cosmetics, Dermatological Sciences and Applications, 2015, 5.



Dr. Avraham Levy, Plastic Surgeon

Extended Offerings

LipoSense™ Temperature Control

LipoLife features a closed loop, temperature-sensing cannula that continuously monitors subdermal temperatures during laser-assisted lipolysis, body contouring and small area procedures. Laser energy is delivered to the tissue until the target temperature is reached, achieving precise, uniform treatment.

Intuitive software allows you to define a maximum temperature limit for the procedure. If subdermal temperature exceeds the limit, the system will automatically stop, preventing thermal tissue damage.

LipoSense™ temperature control enables you to perform precise body contouring with greater efficiency and safer results.

LipoVibe™ Vibrating Device

The LipoVibe device provides vibrational assistance during the liposuction procedure for even further ease and efficiency. LipoVibe uses controlled vibrations to facilitate the movement of the cannula, helping break up fatty tissue so that it can be easily suctioned and removed from the body. Small, precise oscillations allow physicians to target specific areas safely without damaging surrounding tissue. This technique is especially useful for treating areas with dense and fibrous adipose tissue.



LipoVibe, combined with simultaneous lasing and suction, allows physicians to remove fat more quickly and easily with much less manual force, resulting in less bruising and shorter patient recovery time and a more comfortable experience for both physician and patient.

Face Tightening LipoTight™ Cannula

In addition to the skin tightening benefits of LipoLife's laser-assisted liposuction procedure, LipoLife also offers a dedicated tightening cannula with a flat multi-use laser fiber, designed exclusively for skin tightening of the face and neck. Laser energy is delivered directly underneath the skin above the hypodermis to treat areas of skin laxity such as nasolabial folds, jowls and neck. The skin tightening cannula may also be used for post-facelift touchups including addressing any asymmetry or loose skin.



Skin Tightening Benefits

In addition to achieving effective lipolysis, the thermal energy generated by the 1470 nm diode laser contracts existing collagen and elastin fibers and stimulates the formation of new collagen for firmer, tighter-looking skin. This is particularly important for delicate areas such as the face and neck as well as for areas of cellulite.

In effect, LipoLife targets cellulite precisely at its source within the underlying structural tissue. Laser energy is directed beneath the skin, separating the skin from adipose tissue, effectively breaking up pockets of cellulite and restructuring the skin for a smoother appearance.

A Complete, all-in-one Solution

LipoLife's compact, multi-modal system delivers the flexibility and responsiveness physicians need for liposuction, skin tightening and fat grafting procedures of any scope, for use in both private clinics as well as hospital settings. All of the required tools and equipment as well as a complete set of accessories are conveniently organized in a **quiet, portable plug-and-play unit**.

Infiltration and Suctioning Modality: peristaltic pump for infiltration, aspiration pump for suctioning, and suction cannulas for face and body. Also provides all required accessories including a re-usable canister for waste fluid collection and a full kit including all required sterile tubing and disposable waste bags.

Simultaneous Lasing, Vibration and Suction: 1470 nm diode device, Angel™ radial emission lasing fibers in various diameters, autoclavable LipoVibe™ vibrating device and cable, LipoSense™ temperature control cannula and multi-use LipoTight fiber, including stripping and cleaving set.

Sterile Fat Grafting Kit: micro-cannulas, precision needles in various diameters, anaerobic transfer, sterile canister for viable fat collection, and multiple syringe stand.

Areas of Treatment

All areas of the body can be effectively treated with LipoLife. These include areas that are not easily accessible using conventional liposuction such as the chin, face and neck as well as larger areas with extensive fat deposits. In addition, LipoLife simplifies specialized treatments such as fibrous Gynecomastia.

"The integration of Alma's laser fiber into the liposuction procedure has opened a new range of treatment possibilities for my practice. The unique 360 degree design gives me greater control and precision as well as a greater field of interaction with the tissue, allowing for maximal fat removal as well as simultaneous skin contraction."

*Dr. Shapira, Plastic Surgeon
Assaf Harofeh Medical Center*

Benefits



Complete, all-in-one solution



Suitable for both hospital settings and private outpatient clinics



Compact, portable, neatly-organized unit



Ultra-quiet operation



Short treatment time and reduced operator fatigue



Maximum patient safety- with low power density lasing and local anesthesia



Fully-equipped liposuction and fat grafting kits



High ROI - multiple treatment options, outpatient procedures and short treatment time, for maximum returns



High fat viability for immediate grafting with no need for fillers



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Alma Surgical is the new standard in pioneering, smart laser solutions, and the bridge to highly specialized outpatient medical care. From gynecology, urology and phlebology to plastic surgery and dermatology, the company's minimally invasive laser solutions provide superior results and reduced treatment time for safer and more efficient practice and patient care. Alma Surgical is a division of Alma Lasers, a global innovator of laser, light-based, radiofrequency and ultrasound solutions for the medical aesthetic and surgical markets.

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