

# UltraSculpt™

LOSE FAT. KEEP MUSCLE. TIGHTEN SKIN.



# RESULTS AFTER ONE TREATMENT

Clinically proven: 30 mins of *UltraSculpt™* yields  
3-7cm waistline reduction



Before

After

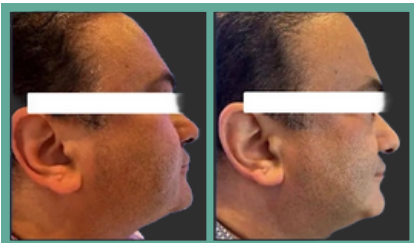
Before

After



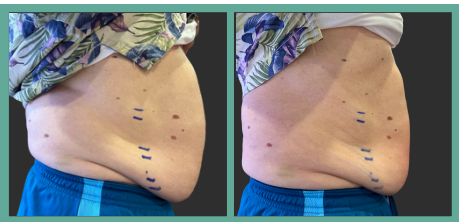
Before

After



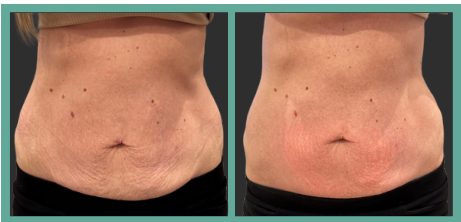
Before

After



Before

After



Before

After



Before

After

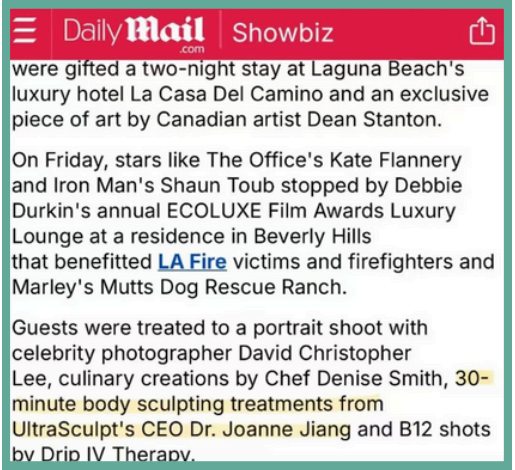
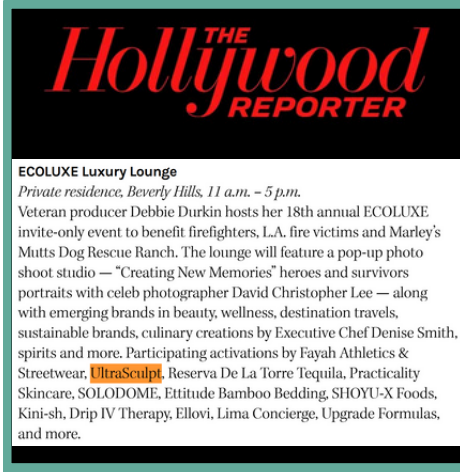
7 Days After

*UltraSculpt™*



# UltraSculpt™ IN THE MEDIA

UltraSculpt in the **Hollywood Reporter** & the **Daily Mail**:



UltraSculpt CEO Joanne Jiang with **Kate Flannery** & **Anthony Preston**



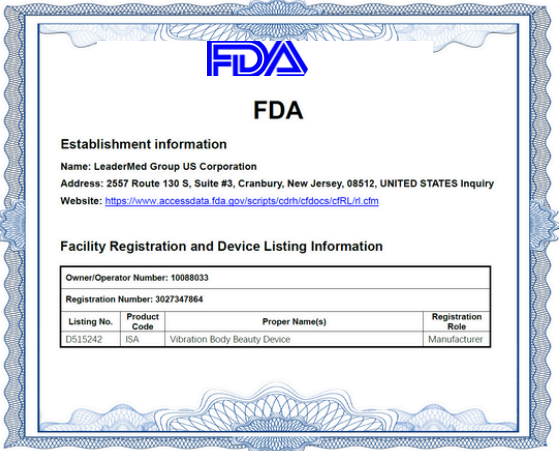
**Dr. Lewis & Dr. Goldfarb** present UltraSculpt at medical conferences:



**UltraSculpt™**

# PATENTED INNOVATION, CLINICALLY PROVEN WITH FDA CLEARANCE

UltraSculpt™ technology is  
patent-protected and  
FDA-cleared as a Class 1  
medical device



PATENT COOPERATION TREATY

From the RECEIVING OFFICE

To: HAO, Jianming  
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E:HAO@FOXROTHSCHILD.COM

PCT

NOTIFICATION OF THE INTERNATIONAL APPLICATION NUMBER AND OF THE INTERNATIONAL FILING DATE

(PCT Rule 20.2(c))

Date of mailing (day/month/year) 10 August 2022 (10.08.2022)  
Applicant's or agent's file reference 346882-09101

IMPORTANT NOTIFICATION

International application No. PCT/IB2022/057206 International filing date (day/month/year) 04 August 2022 (04.08.2022) Priority date (day/month/year) 06 August 2021 (06.08.2021)

Applicant: LEADERMED CHAMPION LIMITED

Title of the invention: mRNA-BASED COMPOSITIONS AND METHODS OF USE THEREOF

1. The applicant is hereby notified that the international application has been accorded the international application number and the international filing date indicated above.

2. The applicant is further notified that the record copy of the international application:

- ☒ was transmitted to the International Bureau on 10 August 2022 (10.08.2022);
- ☐ has not yet been transmitted to the International Bureau for the reasons indicated below and a copy of this notification has been sent to the International Bureau\*;
- ☐ because the necessary national security clearance has not yet been obtained.
- ☐ because (reason to be specified):

\* The International Bureau receives the transmittal of the record copy by the receiving Office and will notify the applicant (with Form PCT/IB/301) of its receipt. Should the record copy not have been received by the expiration of 14 months from the priority date, the International Bureau will notify the applicant (Rule 22.1(c)).

Name and mailing address of the receiving Office: The International Bureau of WIPO  
PCT World Trade  
34, Chemin des Colombettes,  
1211 Geneva 20, Switzerland

Authorized officer: PAK, Jin Woo  
Telephone No.: +41 22 338 70 72  
Email: rx30@wipo.int

Form PCT/IB/301 (July 2008)

FDA cleared to use on the following treatment areas:

Arms

Back

Flanks

Butt

Chin

Abs

Thighs

UltraSculpt™



# UltraSculpt™ PROMOTES LONGEVITY & ANTI-AGING

UltraSculpt employs unique patented low-frequency ultrasound (LFU), shown to stimulate the proliferative capacity of senescent cells, thereby **promoting tissue rejuvenation** and **addressing aging at the cellular level**

## Rejuvenation of Senescent Cells, In Vitro and In Vivo, by Low-Frequency Ultrasound

Sanjay K Kureel <sup>1</sup>, Rosario Maroto <sup>1</sup>, Maisha Aniqua <sup>1</sup>, Simon Powell <sup>1</sup>, Ektá Singh <sup>1</sup>, Felix Margadant <sup>2</sup>, Brandon Blair <sup>1</sup>, Blake B Rasmussen <sup>3,4</sup>, Michael P Sheetz <sup>1</sup>

### Abstract

The presence of senescent cells causes age-related pathologies since their removal by genetic or pharmacological means, as well as possibly by exercise, improves outcomes in animal models. An alternative to depleting such cells would be to rejuvenate them to promote their return to a replicative state. Here we report that treatment of non-growing senescent cells with low-frequency ultrasound (LFU) rejuvenates the cells for growth. Notably, there are 15 characteristics of senescent cells that are reversed by LFU, including senescence-associated secretory phenotype (SASP) plus decreased cell and organelle motility. There is also inhibition of  $\beta$ -galactosidase, p21, and p16 expression, telomere length is increased, while nuclear 5mC, H3K9me3,  $\gamma$ H2AX, nuclear p53, ROS, and mitoSox levels are all restored to normal levels. Mechanistically, LFU causes  $\text{Ca}^{2+}$  entry and increased actin dynamics that precede dramatic increases in autophagy and an inhibition of mTORC1 signaling plus movement of Sirtuin1 from the nucleus to the cytoplasm. Repeated LFU treatments enable the expansion of primary cells and stem cells beyond normal replicative limits without altering phenotype. The rejuvenation process is enhanced by co-treatment with cytochalasin D, rapamycin, or Rho kinase inhibition but is inhibited by blocking Sirtuin1 or Piezo1 activity. Optimized LFU treatment parameters increased mouse lifespan and healthspan. These results indicate that mechanically induced pressure waves alone can reverse senescence and aging effects at the cellular and organismal level, providing a non-pharmacological way to treat the effects of aging.

## Key Highlights:

LFU treatment enables the long-term expansion of both primary cells and stem cells beyond their normal replicative limits.

After LFU treatment for 30 mins, however, cells grew and motility increased.

The expanded cells maintain their normal phenotype and functional attributes with continued LFU treatment.

Repeated LFU treatments over several weeks led to improved physical performance, & long-term LFU treatment was associated with increased longevity.

# UltraSculpt™ TECHNOLOGY

UltraSculpt is a 3 step treatment system for instant & long-lasting fat reduction and skin tightening

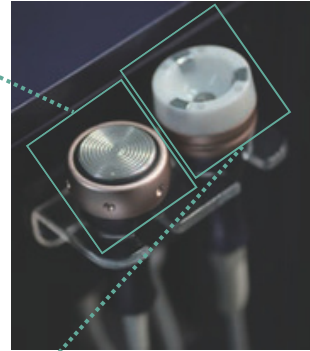
## 1 Collagen-Enhancing miRNA Infused Cream and Serum

Our patented microRNA cream and serum technology enhance collagen production for firmer skin, optimized by UltraSculpt's ultrasonic waves for deeper absorption into skin cells and lasting skin tightening.



## 2 Patented Ultrasonic Wave

Patented and unique ultrasonic waves disrupt fat cells to which are eventually cleared through the lymphatic system. These ultrasonic waves also realign collagen fibers to smooth cellulite and boost skin's collagen production for firmer, smoother results.



## 3 Advanced Negative Pressure Vacuum

Our advanced vacuum technology gently mobilizes disrupted fat for natural lymphatic elimination while powerfully stimulating collagen and elastin production. This dual action visibly tightens skin, reducing wrinkles and cellulite, and effectively sculpts the body.



# UltraSculpt™ EXPERT REVIEWS



"The UltraSculpt exceeded my expectations in terms of safety and effectiveness. I was impressed by the professional results and noticeable reduction in fat cells, leaving my clients with a more sculpted and contoured physique. I highly recommend it."

**-Richard Goldfarb, M.D., F.A.C.S.**

General, Vascular, and Cosmetic Surgeon, Co-Founder of American Society of Cosmetic Physicians and Surgeons, Owner of Melora and Lords & Ladies MedSpas



"Using UltraSculpt in our clinic has been a game-changer. Its remarkable efficiency in targeting fat, combined with unparalleled comfort for clients, has consistently delivered impressive results. This blend of effectiveness and ease makes UltraSculpt a top choice in our aesthetic treatments."

**-Amy B. Lewis, M.D.**

Clinical Associate Professor Yale University School of Medicine, Owner of Lewis Dermatology & Assoc., NYC



"I've been continually impressed not only by UltraSculpt's immediate impact but also by its enduring effectiveness. Our clients have been thrilled with the long-lasting results. The UltraSculpt's advanced technology not only reduces fat cells but also promotes a longer-term sculpted and contoured physique. I highly recommend it for its prolonged benefits, which have consistently exceeded both my clients' and my own expectations."

**-David Goldberg, M.D.**

Skin Laser & Surgery Specialists



"After using the UltraSculpt, I was truly amazed by the results. Not only did it provide a comfortable and painless treatment experience, but it also effectively targeted and eliminated stubborn fat deposits in my clients' problem areas. The sleek design and user-friendly interface of the machine makes it convenient to use at Med Spas."

**-Tina Lee, M.D.**

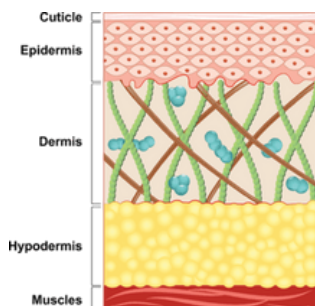
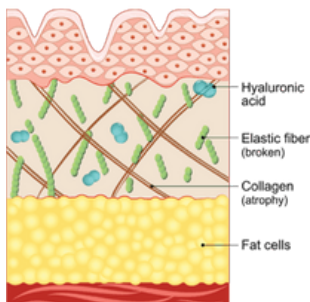
Family Medicine, Owner of Bell Well Medical

UltraSculpt™



# UltraSculpt™ AT THE CELLULAR LEVEL

## Skin Cell Rejuvenation



UltraSculpt patented **microRNA** is infused into UltraSculpt cream & serum. **MicroRNA Power** Our patented miRNA cream and serum, enhanced by ultrasonic waves for deeper absorption, deliver powerful microRNA directly to your skin's fibroblasts. These microRNA messengers signal your skin cells to dramatically boost collagen production.

### Ultrasonic Rejuvenation

Patented ultrasonic waves work to realign existing collagen and elastin fibers within the skin. This tightens skin, reduces wrinkles, and smooths away cellulite.

### UltraSculpt fibroblast studies show:

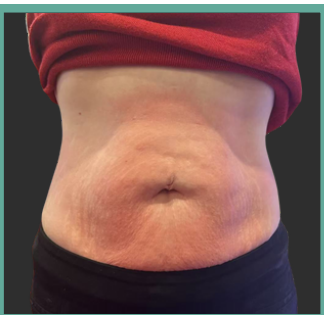
UltraSculpt patented microRNA acts as a “switch” to control type I and III collagen, the types most prevalent in skin.

UltraSculpt patented microRNA increases collagen protein expression by 33% when combined with UltraSculpt ultrasonic waves.

Before



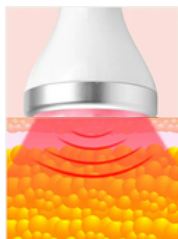
After



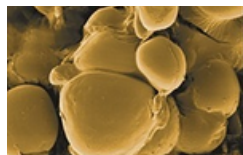
UltraSculpt™

# UltraSculpt™ AT THE CELLULAR LEVEL

## Fat Cell Reduction

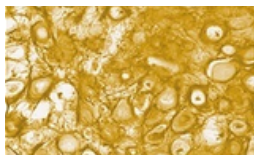


Patented ultrasonic waves target fat cells 6-20mm deep.



### Ultrasonic Disruption

Patented ultrasonic waves create a powerful shear force that gently disrupts the membranes of fat cells deep beneath the skin.



### Releasing the Fat

As the cell membranes are compromised, the liquid fat within is released, making it available for natural elimination.



### Lymphatic Clearance

Advanced UltraSculpt vacuum gently guides the released fat into the lymphatic system, where it will be naturally and safely cleared out of the body.

## UltraSculpt clinical studies show:

Instant 3-7cm circumference of fat reduction per treatment, plus 1-2cm additional reduction in just 1 week after treatment.

20% fat cell reduction per treatment.

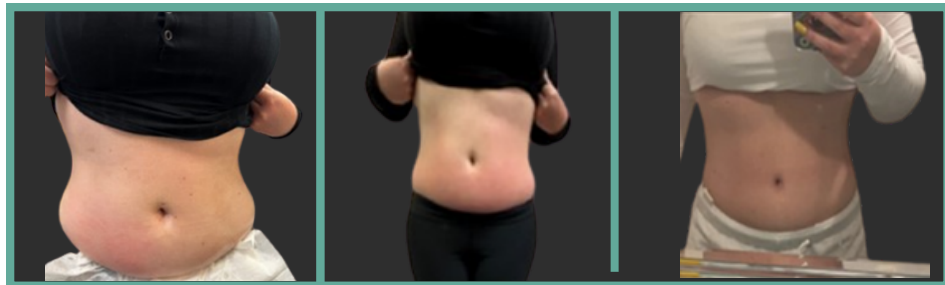
Fat cell apoptosis up to 10 days post-treatment.

1.5-2lb weight loss within 1 week post-treatment.

Before

After

7 Days After



UltraSculpt™

# UltraSculpt™ FOUNDING STORY

UltraSculpt is a division of LeaderMed, a global metabolic health and longevity company with roots in pharmaceutical innovation.



**LeaderMed**

LeaderMed's dual approach includes both **breakthrough pharmaceuticals**—like our GLP-1/GCGR dual agonist now in Phase 3 clinical trials—and **transformative medical devices** designed for fat reduction and skin tightening.

## Founder & CEO, Visionary Behind the Science: Joanne Jiang, PhD, MBA

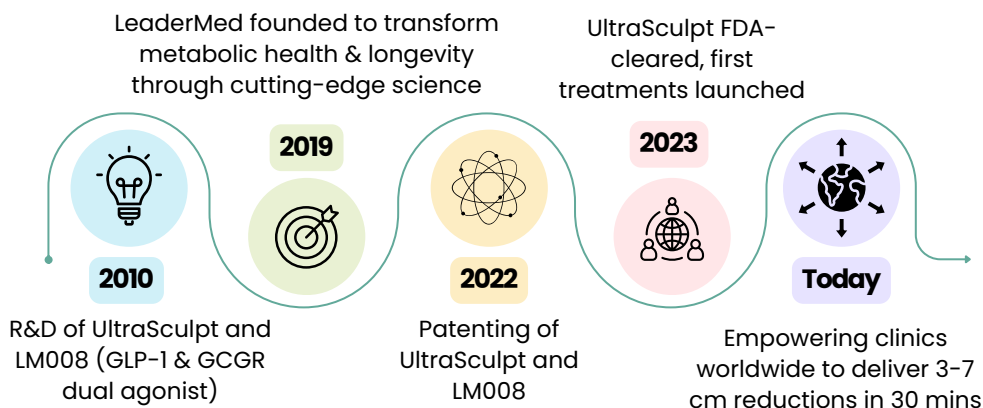


- Inventor of UltraSculpt, founder of LeaderMed.
- 25+ yrs in leading global diabetes & obesity drug development in big pharma.
- Delivered blockbuster metabolic drugs to market.
- Founded global CRO, scaled to 5,500 employees, exited successfully.

*"My lifelong mission is to revolutionize metabolic health and longevity. True transformation requires an integrated approach—combining internal therapeutics with external solutions that empower confidence."*

**- Joanne Jiang, Founder & CEO**

## The LeaderMed Evolution



**UltraSculpt™**



# TRANSFORM WITH **UltraSculpt™**

**2-in-1 treatment:** fat reduction plus skin tightening



Instantly visible results in 1 treatment



Non-invasive, no downtime, no pain



Lasting results from cellular change

## Meet our Leadership Team:



**Grace Chen, MBA**  
**Chief Commercial Officer**

Former private equity investor, Johns Hopkins Public Health trained, Stanford MBA



**Joanne, Jiang, PhD, MBA**  
**CEO, Founder, Inventor**

17 yrs diabetes & obesity research, successful commercialization of blockbuster pharmaceuticals, founded & exited global CRO



**Greg Holin, MPM, LSS**  
**VP, Operations**

US Navy (Ret.), 35 yrs experience in operations and logistics, Lean Six Sigma Certified

## SCHEDULE A DEMO:



**contact@UltraSculpt.org**



**UltraSculpt.org**



**UltraSculpt.LeaderMed**



**UltraSculpt™**



## SCHEDULE A DEMO:



[contact@ultrasculpt.org](mailto:contact@ultrasculpt.org)



[UltraSculpt.org](http://UltraSculpt.org)



[UltraSculpt.leadermed](https://www.instagram.com/UltraSculpt.leadermed)



**UltraSculpt™**