

EXPORT ONLY



SCIZER

Reduce Your Size

[scizersonic.com](http://scizersonic.com)

 **CLASSSYS**  
Technology for better life



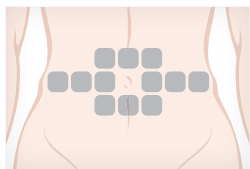
# SCIZER

Scientific Solution for Size Reduction

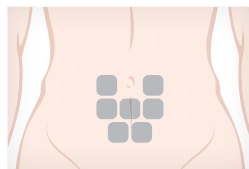
## NON-INVASIVE BODY CONTOURING

The SCIZER provides the solution for getting rid of stubborn fat bulges in multiple areas of the body which exercising and dieting alone can't achieve. A treatment procedure that guarantees convenience, comfort, and effective results for maximum patient satisfaction.

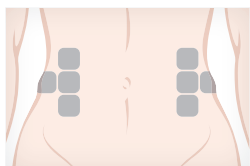
Abdomen



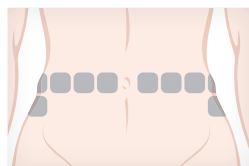
Lower Abdomen



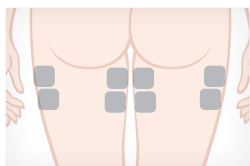
Flanks



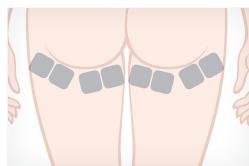
Love Handles



Inner / Outer Thighs



Below Buttocks



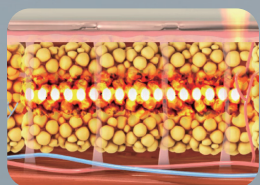
## CUSTOMIZED TREATMENTS

Multi-depth cartridges allow you to customize treatments for the most challenging of patients' needs.



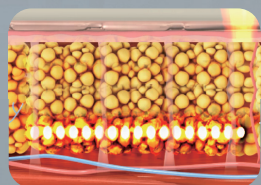
### D9

2MHz 9.0mm



### D13

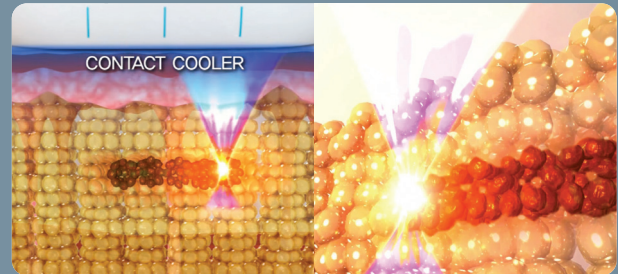
2MHz 13.0mm



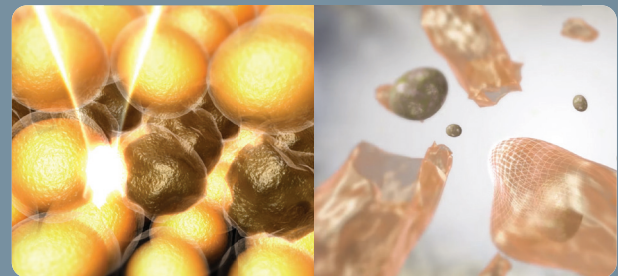
# Tried & Tested Science

High intensity ultrasound energy is precisely delivered to the subcutaneous fat layer at controlled depths, inducing permanent fat tissue destruction. The body's natural metabolism process is then able to consume and process the fat cell debris and safely and naturally remove it from the body.

## Inflammation Phase



## Remodeling Phase

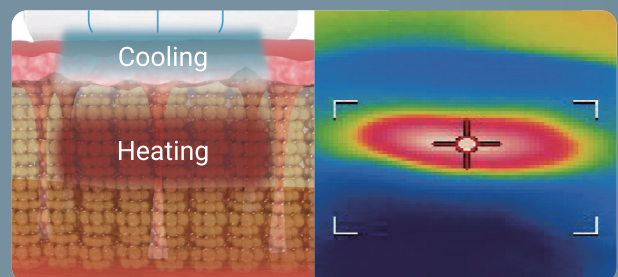


# Double-Edged Treatment

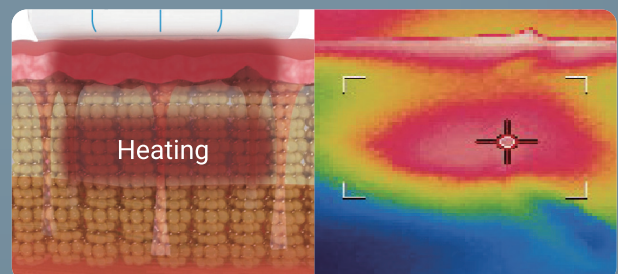
◆◆  
**Contact cooling technology is built-in to each cartridge to provide an aesthetic effect and further protect the skin.**

The heating effect of the HIFU energy utilized by the Scizer yields a two-fold effect on the treated area. Not only is there permanent destruction of fat cells, the heating effect could stimulate the production of new collagen, thus giving a tightening effect.

## Cooling On



## Cooling Off



# Proven Efficacy Through Clinical Studies

## Improved methods for evaluating pre-clinical and histological effects of subcutaneous fat reduction using high-intensity focused ultrasound in a porcine model

B.J. Kim et al. *Skin Research and Technology* 2016; 0: 1–8

### Research Abstract

To pre-clinically and histologically evaluate the efficacy, safety and mechanism of action of the SCIZER™ (Classys Inc.) for subcutaneous fat reduction.

We used the SCIZER™, which was designed to apply non-invasive therapeutic focused ultrasound to achieve a thermal effect on adipocytes in the subcutaneous fat layer.

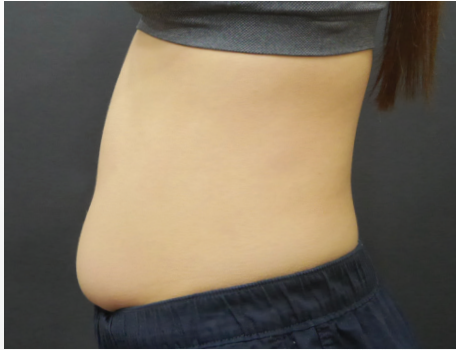
On ultrasonography, we found that HIFU treatments were performed accurately at the target site and there was effective subcutaneous fat reduction.

In this study, we demonstrate that PPAR- $\delta$  expression largely increased 30 days after HIFU treatment, which may reduce subcutaneous fat tissue rapidly and easily (Fig. 6).

Through laboratory tests, we revealed that fat reduction in the focal area did not affect the lipid profile and hepatic function.



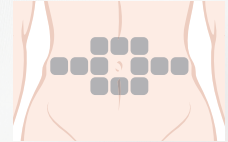
<p><b>Improved histological effect of high-intensity focused ultrasound</b></p> <p>T.-K. Kwon<sup>1,2</sup>, S. Im<sup>1,2*</sup></p> <p><sup>1</sup>Department of Dermatology, Seoul National University Hospital, Seoul, Korea; <sup>2</sup>Research Center for Skin Regeneration, Seoul National University, Seoul, Korea</p> <p>*Correspondence: tkwon@plaza.snu.ac.kr</p> <p>Received 12 October 2015; accepted 12 February 2016</p>	<p><b>Fig. 1.</b> Anatomohistological distribution of dermal papillae in the subcutaneous fat layer. (a) 0 day after treatment, and (b) immediately after HIFU treatment. A hematoxylin–eosin stain was used to visualize the dermal papillae (blue). Scale bar = 200 <math>\mu</math>m.</p>	<p><b>Abstract</b></p> <p><b>Objective:</b> To evaluate the efficacy, safety, and mechanism of action of the SCIZER™ (Classys Inc.) for subcutaneous fat reduction in a porcine model.</p> <p><b>Methods:</b> We performed a visual inspection and evaluated instrument evaluation after SCIZER™ (1.3 MHz, 13 mm) treatment of abdominal in a porcine model. We found no fat injury or heat injury on the skin of HIFU treatment site. On ultrasonography, focal heat HIFU treatments were performed accurately at the target site and there was no fat reduction. At day 30, we extracted the whole skin layer at the treated site and the surrounding area, and measured the subcutaneous fat thickness by following the procedure site, thickness was reduced to 2.3–3.0 mm compared to control. There was no skin contraction and thickening of the dermal layer. The subcutaneous fat layer, close to the focal area, PPAR-<math>\delta</math> expression was decreased by immunohistochemistry staining were overexpressed in control. There is an increase in PPAR-<math>\delta</math> expression pattern was confirmed over time was hypothesized that the rapid reduction subcutaneous fat would affect the receptor pathway and lipid metabolism. Cell nuclei stained by local energy absorption, will lead to physical disruption of elevations.</p> <p><b>Conclusion:</b> HIFU works in part by maintaining a high temperature over a 10 min period and leads to coagulative necrosis killing cells. As tissue temperature rises increases over 70°C, with HIFU treatment, tissue is destroyed through effective coagulation necrosis despite the short exposure time (10 s). In addition, the fibrous layer contracts through thermal denaturation. When macrophages recruited around the injured tissue, chemokine signaling and tissue damage cause an inflammatory response. Through the lymphatic system, macrophages digest free lipids and debris in the liver (12). The temperature difference between the target tissue area and the surrounding area is considerable, and a difference of energy between the site of treatment and the surrounding normal tissue can be found usually biological examination (13). In this study, we evaluated the efficacy and safety of a HIFU device for the reduction in subcutaneous fat using therapeutic-focused ultrasound to achieve thermal effect on adipocytes in the subcutaneous fat layer in order to reduce and improve the thickness of localized fat deposits.</p> <p>The objective of this study was to pre-clinically and histologically evaluate the efficacy, safety, and mechanism of action of a HIFU device for subcutaneous fat reduction.</p>	<p><b>Key words:</b> HIFU, subcutaneous fat reduction, SCIZER™, PPAR-<math>\delta</math></p> <p><b>Introduction</b></p> <p>Subcutaneous fat reduction is a cosmetic procedure that has been used for many years. Various methods have been used for subcutaneous fat reduction, including liposuction, laser-assisted lipolysis, and cryolipolysis (1). However, these methods are invasive and have associated risks, such as pain, bruising, and infection (2). Recently, non-invasive fat reduction methods have been developed, including radiofrequency (RF), laser, and ultrasound (3). High-intensity focused ultrasound (HIFU) is a non-invasive method that uses focused ultrasound waves to heat and destroy subcutaneous fat cells (4). HIFU has been used for the treatment of prostate cancer (5), neurological disorders (6), and cancer (7). It has also been used as a method for the selective destruction of tissue (8). There is an increase in PPAR-<math>\delta</math> expression pattern was confirmed over time was hypothesized that the rapid reduction subcutaneous fat would affect the receptor pathway and lipid metabolism. Cell nuclei stained by local energy absorption, will lead to physical disruption of elevations.</p>
<p><b>Background:</b> HIFU works in part by maintaining a high temperature over a 10 min period and leads to coagulative necrosis killing cells. As tissue temperature rises increases over 70°C, with HIFU treatment, tissue is destroyed through effective coagulation necrosis despite the short exposure time (10 s). In addition, the fibrous layer contracts through thermal denaturation. When macrophages recruited around the injured tissue, chemokine signaling and tissue damage cause an inflammatory response. Through the lymphatic system, macrophages digest free lipids and debris in the liver (12). The temperature difference between the target tissue area and the surrounding area is considerable, and a difference of energy between the site of treatment and the surrounding normal tissue can be found usually biological examination (13). In this study, we evaluated the efficacy and safety of a HIFU device for the reduction in subcutaneous fat using therapeutic-focused ultrasound to achieve thermal effect on adipocytes in the subcutaneous fat layer in order to reduce and improve the thickness of localized fat deposits.</p>	<p><b>Fig. 4.</b> After of HIFU treatment on carbon tracing in a porcine model. Macroscopic activity after HIFU treatment was identified by injection of India ink. The activity target was set extended on day 0 after treatment. (a) &gt; 700 <math>\mu</math>m, (b) 60 and (c) 30 <math>\mu</math>m HIFU treatment. (d) Subcutaneous fat thickness measurement on post-treatment on day 30. (e) Histology on a daily individual HIFU, high-intensity focused ultrasound.</p>	<p><b>Methods for fat reduction by HIFU</b></p> <p><b>Results</b></p> <p>Subcutaneous fat reduction effects should be a predictable focal distance as HIFU accurately treats the target. In order to confirm the efficacy of HIFU, the focal distance and thermal injury area (TIA) of the HIFU treatment were examined. The focal distance was expressed by a digital camera with digital image processing software. The focal distance and the fat area volume of the target point were then measured from the skin surface downward to the dermis. After five independent focal distance measurements using digital measurement, the value was <math>13.02 \pm 0.2128</math> (Fig. 1b).</p> <p>Next, we performed HIFU on the <math>30 \times 30</math> mm square field prepared on the porcine abdominal skin (Fig. 1a). The power was 13 W, 13 mm focal length, and 1.3 MHz frequency. HIFU delivered heat to the subcutaneous layer of the focal area such that it only affected fat cells in the focal area.</p>	<p><b>Fig. 6.</b> Measurement of changes in PPAR-<math>\delta</math> expression. (a) At thickness reduction of the target fat site found from these micrographs on day 30 after HIFU treatment. (b) Immunohistochemistry for PPAR-<math>\delta</math> expression and on day 1, 15, 30, 60 and 90 with HIFU treatment. (c) Subcutaneous fat thickness measurement on post-treatment on day 30. (d) Histology on a daily individual HIFU, high-intensity focused ultrasound.</p>



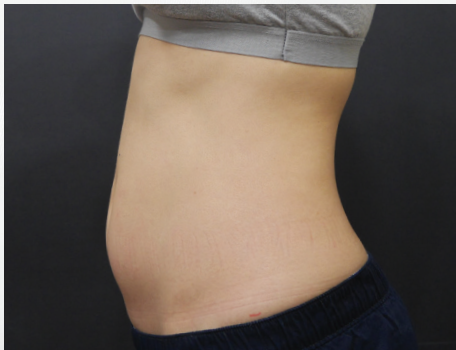
Baseline



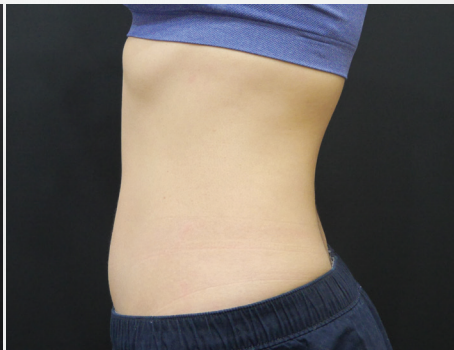
Post 1 Session



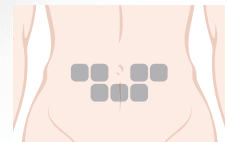
Abdomen



Baseline



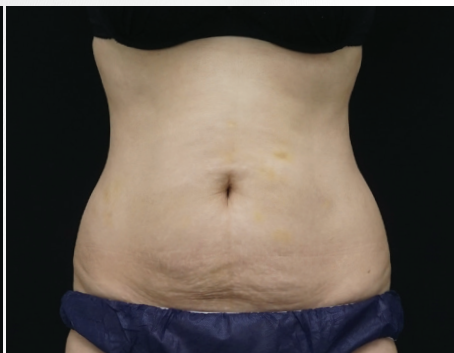
Post 1 Session



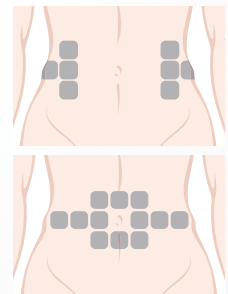
Abdomen



Baseline



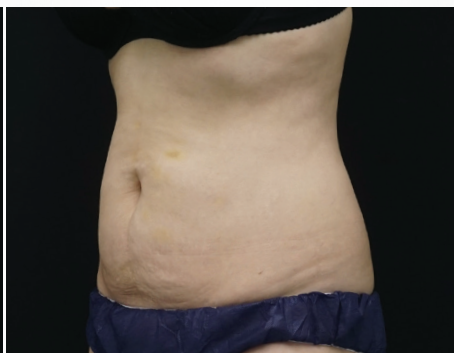
Post 2 Sessions



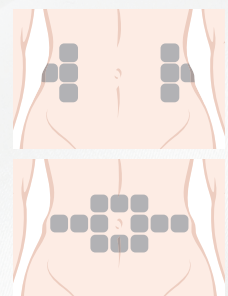
Abdomen



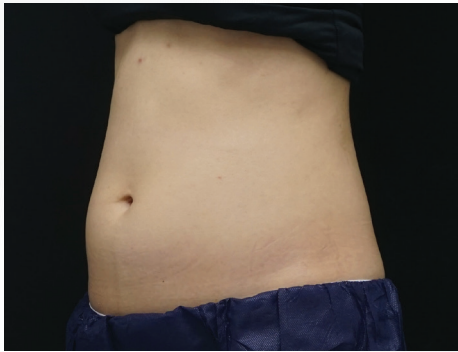
Baseline



Post 2 Sessions



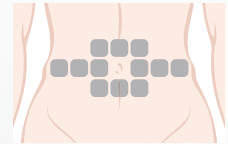
Abdomen



Baseline



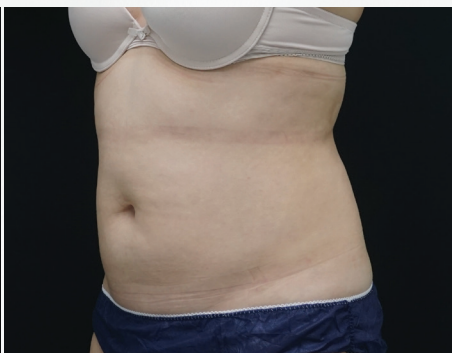
Post 1 Session



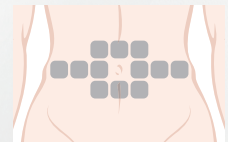
Abdomen



Baseline



Post 1 Session



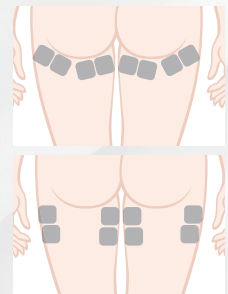
Abdomen



Baseline



Post 1 Session



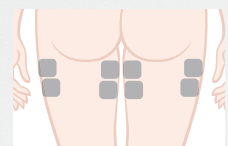
Thighs



Baseline



Post 1 Session



Thighs

EXPORT ONLY



scizersonic.com



**Dr. Klaus Fritz**  
MD / Germany

The SCIZER is a unique technology with macro focused ultrasound that allows fat reduction and tightening of body tissue. The new technology allows painless treatment with high efficacy with none or minimal side effects. I do a lot of aesthetic treatment and body contouring and my patients and I are really happy.



**Dr. Bertrand Pusel**  
MD / France

The treatment indication is for fat burning. Stubborn fat at different levels such as in the abdomen, flanks, and love handles, with one session, can yield improved results. This device requires no preparation, no anesthetic, or incisions, which makes the SCIZER an effective device for fat reduction.



**Dr. Adrian Lim**  
Dermatologist / Australia

I've been in the body contouring sphere for some time and I'd really like to recommend the new SCIZER machine. It's a new HIFU device that's best in its class. It's well tolerated, patients love it, it delivers results, and I recommend that you try it.



**Dr. Bong-chul Kim**  
MD / South Korea

I am very impressed with the SCIZER as the results far outweigh the pain factor per each procedure. My patients are also impressed and they say that this treatment yields minimal pain because of the cooling effect of the cartridges when applied onto the skin surface.



**Dr. Nobuhiro Suetake**  
MD / Japan

The SCIZER really is an innovative addition to HIFU treatments for body contouring. With multiple cartridges, you are able to customize treatments based on the patient's body shape and fat layer. The SCIZER is so precise and brings immediate and gradual results. It's very impressive.



**Dr. Chew Khek Kah**  
MD / Singapore

I especially like the SCIZER for its contact cooling which enhances patient comfort. In addition the flexibility of two different hand pieces of 9mm and 13mm enables me to have greater contouring capabilities. My patients have liked the results.



T +82-2-517-2114 | [classys.com](http://classys.com) | [info@classys.com](mailto:info@classys.com)

Images and texts are intellectual property of classys. Copying of this material can be subject to charges of both civil and criminal law of legal justice. Copyright to Classsys © all rights reserved. Export only.

Download the Official App



Get social with us!



[classysHQ](https://www.classysHQ.com)

SCDB01EN2019



☎ 09-7760300 | 🌐 [ami.co.il](http://ami.co.il) | ✉ [amiweb@ami.co.il](mailto:amiweb@ami.co.il)



פישו אותנו ב: | משוק בלעדית ע"י אמי טכנולוגיות