Scarlet S

Minimal Invaziv Fraksiyonel RF

Mikroiğne Electrot Sistemi

“Dünya çapında, Sayısız Doktor Scarlet S'i seçti ”

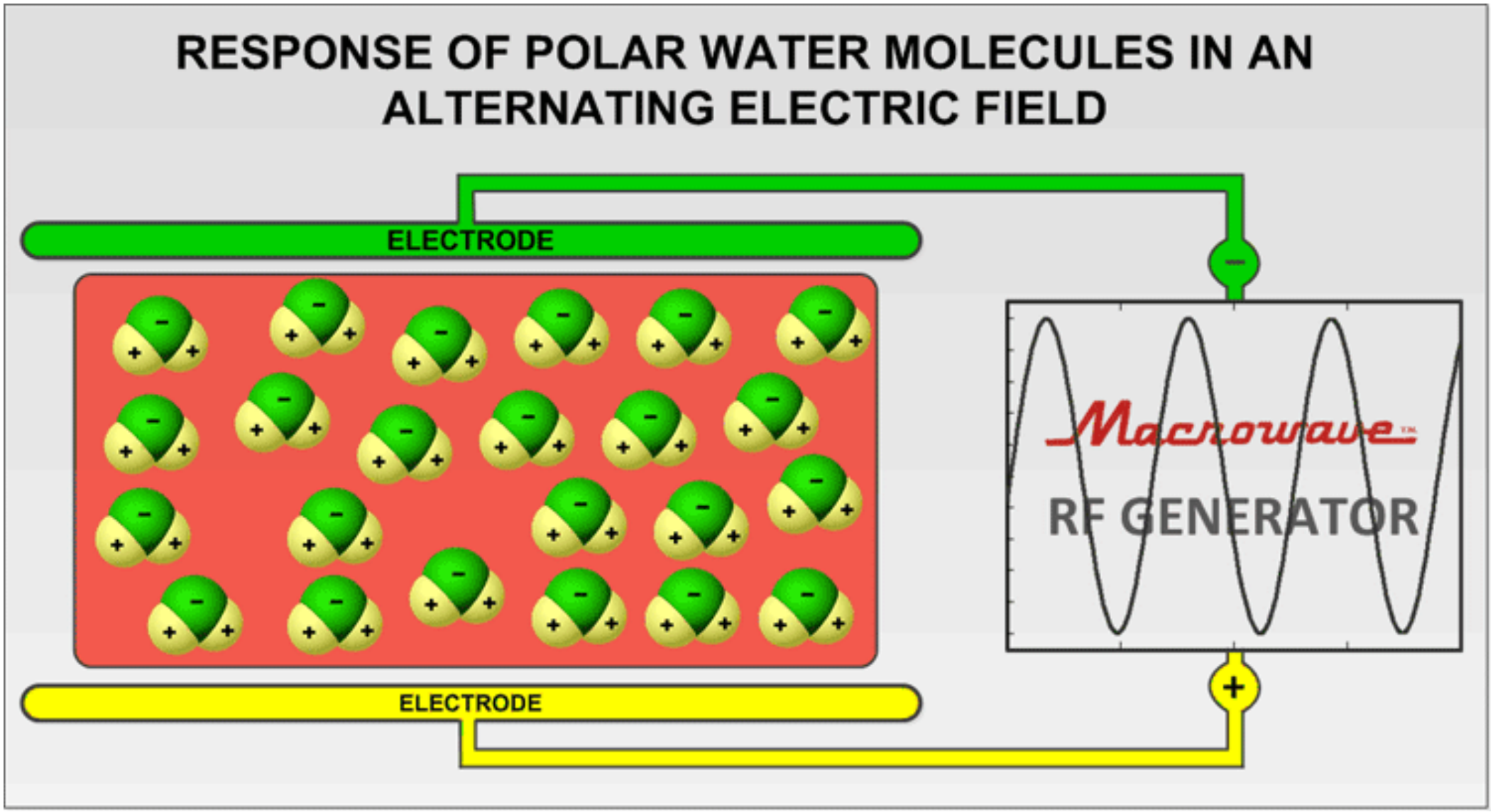
Mikroiğneli Elektrot Sistemi Kullanan Minimal İnvaziv Fraksiyonel RF

▶Doğrudan dermise koagülasyon

▶ 0,5 mm'den 3,5 mm'ye kadar hassas derinlik kontrolü.

▶Daha az ağrı ve kanama olmaksızın hemen gözlemlenebilen ve uzun süreli sonuçlar

▶ Tüm cilt tipleri için uygundur.



Dermal koagülasyon mekanizması

►Gelişmiş teknolojiye sahip, tüm dermal tabakalara etkili enerji dağıtımı.

01
Before Treatment

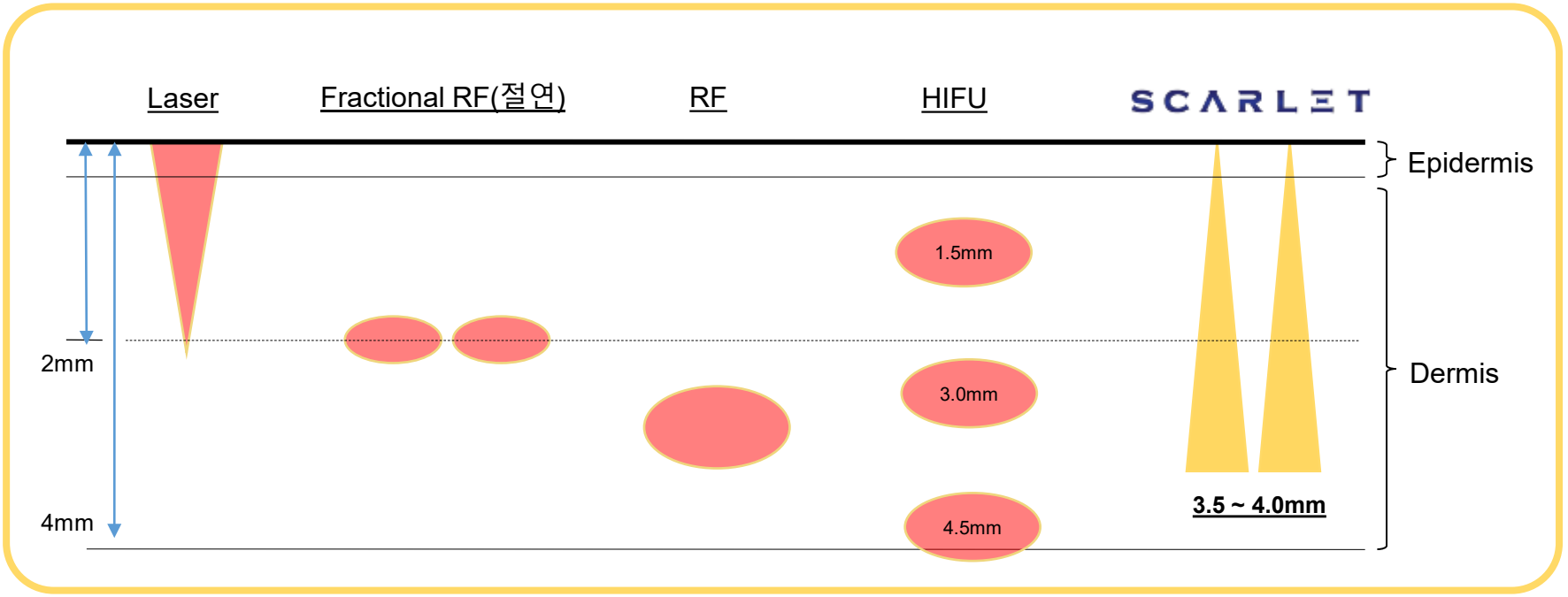
02
Electrode inserted at depth 3.5mm

03
Duty off 0.1sec

04
RF Shooting

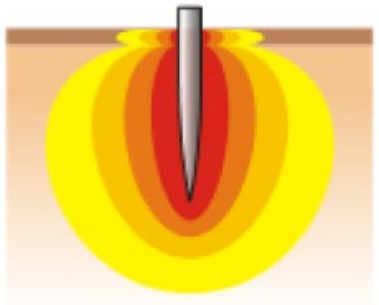
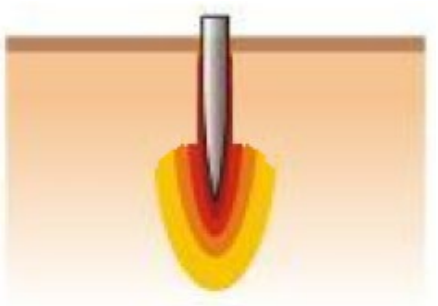
05
Energy is delivered to the most targeted dermal tissue at Prescribed depths

Koagülasyon alanı



Non-izole ve İzole arasındaki farklar

İzolasyonlu olmayan SCARLET-S Mikro iğnesi, tüm RF enerjisini ve güvenli bir şekilde dermise ve epidermise ulaştırır.

	Scarlet	İzole RF Cihazı
Hedeflenen etki		
Hedeflenen alan	Tüm deri (epidermis ve demis)	dermis
RF Bölgesi	Geniş	Dar
Etki	Max.	Min.

SCARLETS

Neden SCARLET S ?

Continuous type needle RF

SCIENTIFIC REPORTS

[Globally patented “Na effect”]
Na effects was published Scientific Reports on November 5th, 2015

SCARLET S

Scarlet-S Nedir?

İlk Gerçek Fraksiyonel Mikroiğneli RF

NA EFFECT

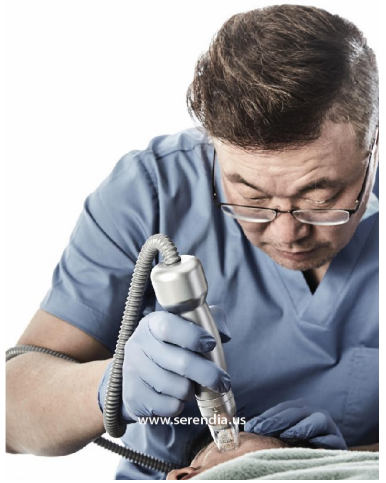
The phenomenon as independent electro thermal tissue coagulation around each electrode of bipolar radio frequency

▶ Dünya çapında kanıtlanmış Scarlet’in teknolojisi [Dünya çapında patentli “Na etkisi”]
Na etkileri 5 Kasım 2015 tarihinde Bilimsel Raporlarda yayınlandı.

▶ Saç Derisi İçin Optimize Edilmiş Protokol
Yüz germe tedavisi saçlı deriye yapılan uygulama ile kombinlendiğinde daha başarılı hale gelmiştir. Yeni geliştirilen protokol sayesinde, sadece göz ve ağız bölgesine değil, aynı zamanda kafa derisi de gerginleştirilebilmektedir. Cildinizden önce, saç derisine uygulama yapın ve sonra mükemmel yüz germe sonuçlarını deneyimleyin!

▶ “SCARLET S” ile sadece tek bir tedavide iyi sonuç alın (Tedaviden hemen sonra gözlemlenebilen sonuçlar)

SCARLET S, tüm cilt tiplerine uygundur; daha az ağrılıdır ve kanama olmaksızın gözle görülür sonuçlar sunar.



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OPEN

Electromagnetic Initiation and Propagation of Bipolar Radiofrequency Tissue Reactions via Invasive Non-Insulated Microneedle Electrodes

Received: 26 June 2015
Accepted: 19 October 2015
Published: 13 November 2015

Jongju Na[1], Zhenlong Zheng[2,1], Christopher Dannaker[3], Sang Eun Lee[3], Jin-Soo Kang[4] & Sung Bin Cho[2,5]

SCIENTIFIC REPORTS

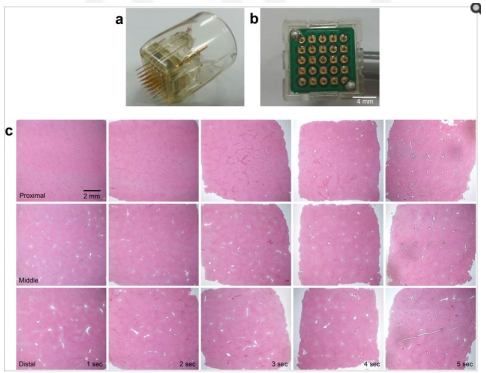
[Globally patented “Na effect”]

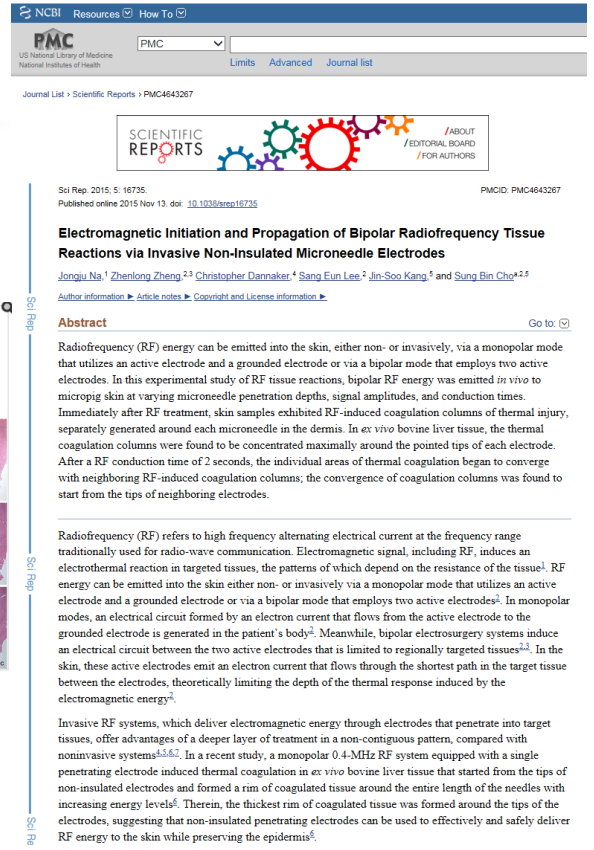
Na effects was published Scientific Reports on November 5th, 2015

SCARLETS

Na etkisi teknolojisi nedir?

Na etkisi, 5 Kasım 2015 tarihinde, çok çeşitli akademik alanların kapsamı için ayrılan “Bilimsel Raporlar”, Nature journal Group'ta yayınlandı.





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Journal List › Scientific Reports › PMC4643267

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Sci Rep. 2015; 5: 16735. PMCID: PMC4643267

Published online 2015 Nov 13. doi: 10.1038/srep16735

Electromagnetic Initiation and Propagation of Bipolar Radiofrequency Tissue Reactions via Invasive Non-Insulated Microneedle Electrodes

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Abstract Go to:

Radiofrequency (RF) energy can be emitted into the skin, either non- or invasively, via a monopolar mode that utilizes an active electrode and a grounded electrode or via a bipolar mode that employs two active electrodes. In this experimental study of RF tissue reactions, bipolar RF energy was emitted *in vivo* to micropig skin at varying microneedle penetration depths, signal amplitudes, and conduction times. Immediately after RF treatment, skin samples exhibited RF-induced coagulation columns of thermal injury, separately generated around each microneedle in the dermis. In *ex vivo* bovine liver tissue, the thermal coagulation columns were found to be concentrated maximally around the pointed tips of each electrode. After a RF conduction time of 2 seconds, the individual areas of thermal coagulation began to converge with neighboring RF-induced coagulation columns; the convergence of coagulation columns was found to start from the tips of neighboring electrodes.

Radiofrequency (RF) refers to high frequency alternating electrical current at the frequency range traditionally used for radio-wave communication. Electromagnetic signal, including RF, induces an electrothermal reaction in targeted tissues, the patterns of which depend on the resistance of the tissue[1]. RF energy can be emitted into the skin either non- or invasively via a monopolar mode that utilizes an active electrode and a grounded electrode or via a bipolar mode that employs two active electrodes[2]. In monopolar modes, an electrical circuit formed by an electron current that flows from the active electrode to the grounded electrode is generated in the patient's body[2]. Meanwhile, bipolar electrosurgery systems induce an electrical circuit between the two active electrodes that is limited to regionally targeted tissues[2,3]. In the skin, these active electrodes emit an electron current that flows through the shortest path in the target tissue between the electrodes, theoretically limiting the depth of the thermal response induced by the electromagnetic energy[2].

Invasive RF systems, which deliver electromagnetic energy through electrodes that penetrate into target tissues, offer advantages of a deeper layer of treatment in a non-contiguous pattern, compared with noninvasive systems[4,5,6,7]. In a recent study, a monopolar 0.4-MHz RF system equipped with a single penetrating electrode induced thermal coagulation in *ex vivo* bovine liver tissue that started from the tips of non-insulated electrodes and formed a rim of coagulated tissue around the entire length of the needles with increasing energy levels[6]. Therein, the thickest rim of coagulated tissue was formed around the tips of the electrodes, suggesting that non-insulated penetrating electrodes can be used to effectively and safely deliver RF energy to the skin while preserving the epidermis[6].

URL
http://www.nature.com/articles/srep16735

Na Etkisi

Yüksek-Hızlı Sinematograf

- Yüksek hızlı dijital video kamera: Phantom v710 (Vision Research Inc., Wayne, NJ, USA)
- 1.000 kare / sn yakalama oranı
- 7 saniyelik maksimum iletim süresi
- 50V bir sinyal genişliği

Cho SB et al. Sci Rep 2015;5:16735.

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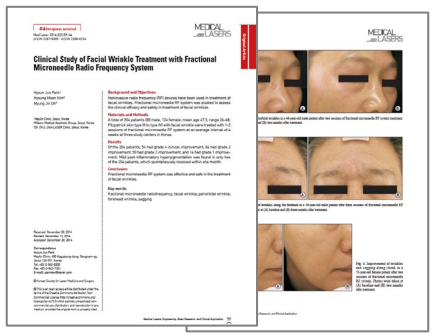
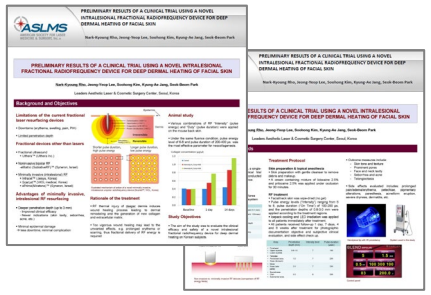


KSLMS / Medical LASERS tarafından yayınlanan;

Park HJ, Kim HM, Oh MJ. Et al. Fraksiyonel Microneedle Radyo Frekans Sistemi ile Yüz Kırışıklık Tedavisi Klinik Çalışması
Med. LAZER., 2014; 3 (2): 59-64

KSLMS / Medical LASERS tarafından yayınlanan;

Ganesh S. Pai, Mouhamad Kashmar, Kim YK, Na J. ve diğ. Akne Vulgaris ve Akne Skar için Non-İzole Penetran Mikroiğne ile Bipolar Radyofrekans Tedavisinin Etkinliği ve Güvenliği
Med. LAZER., 2015; 4 (1), 10-15.



ASAS / Amerikan Derneği LASER Tıp & cerrahi tarafından yayınlanan;

Rho NK, Lee JY, Kim SH, Jang KA, Park SB. ve diğ. Yüz Derisinin Derin Dermal Isıtılması İçin Yeni Bir İntraregional Fraksiyonel Radyofrekans Cihazı Kullanılarak Bir Klinik Denemenin Ön Sonuçları

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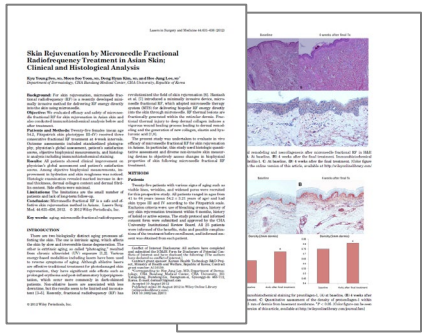
SCARLETS

Yayımlayan Dermatolojik Cerrahi

Lee SJ, Goo JW, Shin JY, Chung WS, Kang JM, Kim YK, Cho SB. Et al. 18 Koreli Hastada İnflamatuvar Akne Vulgarisinin Tedavisinde Fraksiyone Mikro Düzeyli Radyofrekans Kullanımı

Yonsei Üniversitesi Tıp Fakültesi Dermatoloji ve Kutanöz Biyoloji Araştırma Enstitüsü Bölümleri tarafından yayınlanmıştır.

Park JH, Shin JU, Cho SH, Lee JH. ve diğ. Kırışıklık azaltma ve cilt sıkılaştırmada mikroiğneli fraksiyonel radyofrekans sisteminin kullanımı



Lasers Surgery and Medicine tarafından yayınlandı

Seo KY, Yoon MS, Kim DH Lee HJ. ve diğ. Asya Derisinde Mikroneedle Fraksiyonel Radyofrekans Tedavisi ile Cilt Gençleştirme; Klinik ve Histolojik Analiz
Cerrahi ve Tıpta Lazerler 44: 631-636 (2012)

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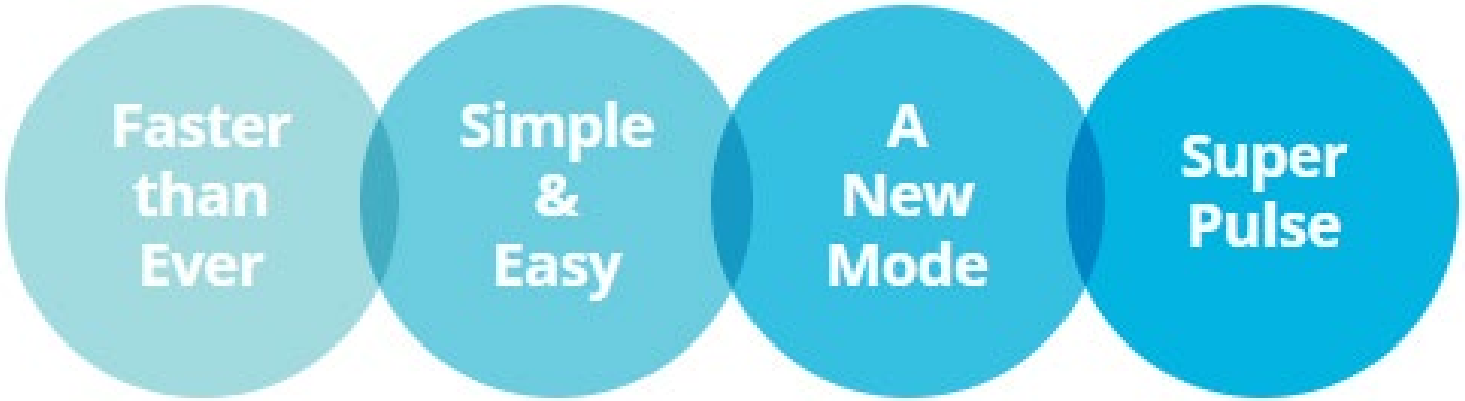
Yeni avantajlar nelerdir?

Continuous type needle RF

Yenilikler



* High-tech RF board designed and manufactured in US Silicon Valley.

High-tech RF board designed and manufactured

in Silicon Valley, US.

Numerous Doctors have chosen

SCARLET AUTHENTIC

Evrimin Ötesi, Scarlet S

- Faster than Ever
- Simple & Easy
- A New Mode
- Super Pulse

01

Enhanced Features : Faster than Ever

LESS TREATMENT DURATION, MORE PATIENTS

- Thanks to the technology evolution with motor speed & pressure upgrade
- Simple Full Facial Treatment in 7 minutes!!

Shot Speed (unit: minute)

SHOT	Slow	Middle	Fast
300	11	8	7
500	18	14	11
1000	35	29	23

Source: Measured at SCARLET RF Test Lab, 2014

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02

Enhanced Features : Simple & Easy

SIMPLE FUNCTION, CONVENIENT OPERATION

- New Scarlet-S with Ergonomic hand piece
- Easier treatment with Simple touch
- Thousands of clinical tests & data base enable

Simplified & Precise Treatment Modes for various indications.

Evrimin Ötesi, Scarlet S

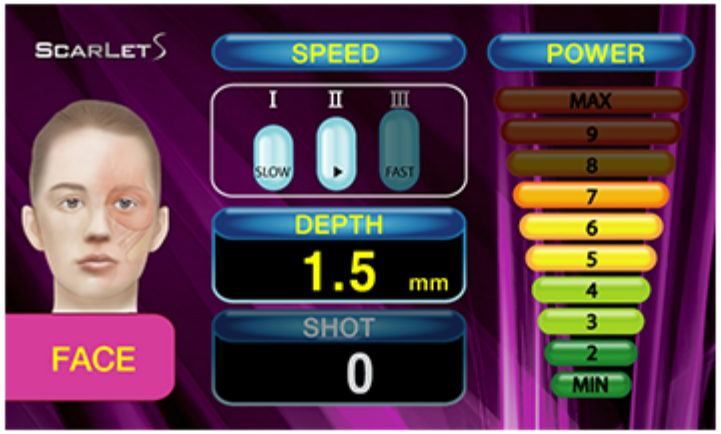
- Faster than Ever
- Simple & Easy
- A New Mode
- Super Pulse

03

Enhanced Features : A New Mode

ADDED ONE SINGLE FUNCTION, MORE INDICATIONS

- A new mode added
- Specially dedicated RF mode for Scar, Prominent Pore & Stretch Mark



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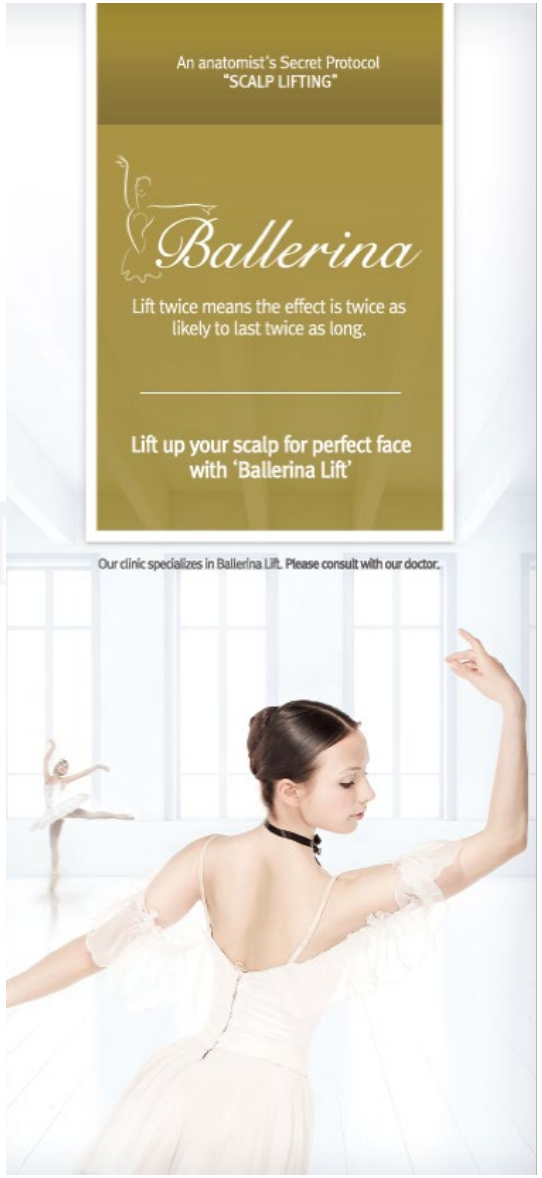
SCARLETS

Ballerina lift nedir?

Yüzün ve saçlı derinin, yeni cerrahi olmayan minimal invaziv lifting tedavisidir.

Ballerina

Lift up your scalp for perfect face with ‘Ballerina Lift’



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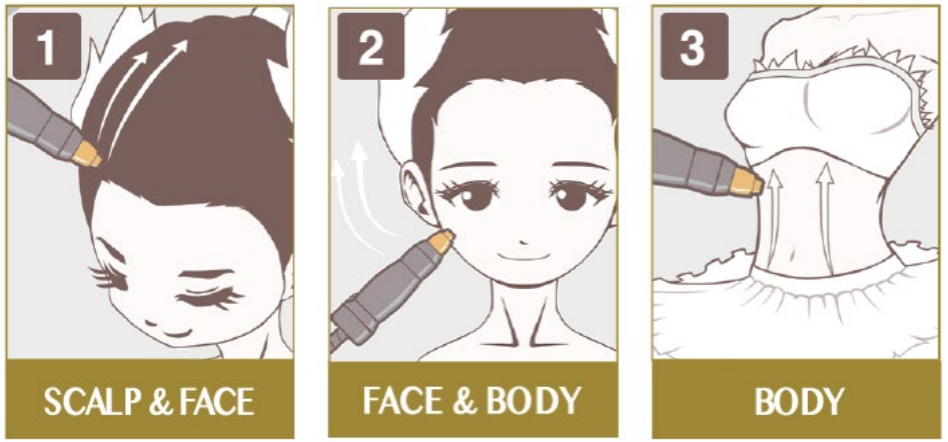
Yeni protokol: SAÇLI DERİ LIFTING

Yeni endikasyon protokolleri sürekli geliştirilmektedir, klinik raporlar ve araştırmalar yoluyla doğrulanmaktadır.



+

VOLUMETRIC TIGHTENING & LIFT
ACNE & ACNE SCAR / PROMINENT PORES

=

NEW

SCARLETS

High-tech RF board designed and manufactured

in Silicon Valley, US.

Numerous Doctors have chosen

SCARLET AUTHENTIC

Evrimin Ötesi, Scarlet S

- Faster than Ever
- Simple & Easy
- A New Mode
- Super Pulse

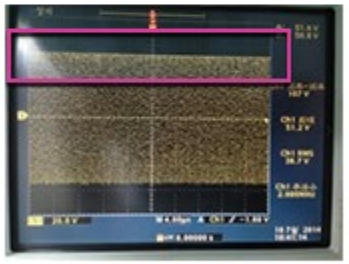
04

Enhanced Features : Super Pulse

MORE STABLE & POWERFUL ENERGY, BETTER RESULT

- Authentic high-tech RF board enables perfectly stable energy to reach deeper into dermis than ever.

Comparison of Energy Stability by Shot



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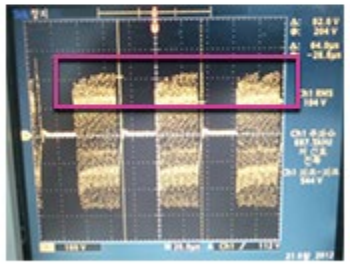
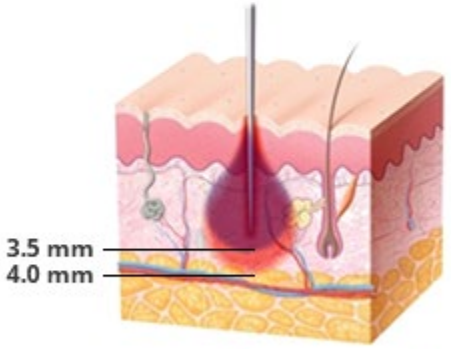


<Competitor>

Source: Measured at SCARLET RF Test Lab, 2014



SCARLET S SCARLET

High-tech RF board designed and manufactured

in Silicon Valley, US.

Numerous Doctors have chosen

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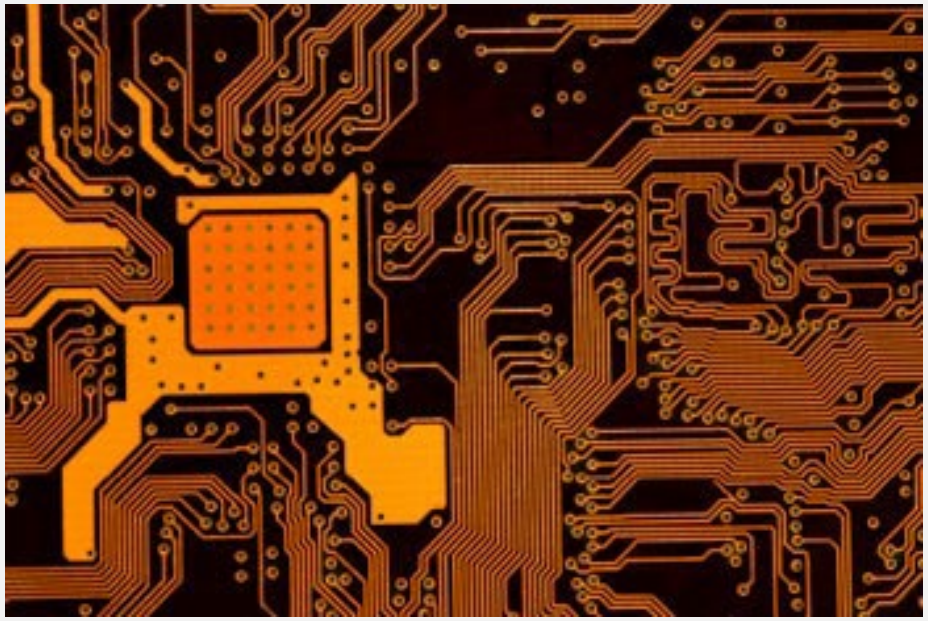
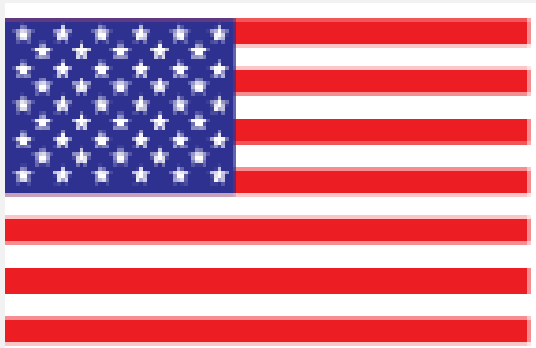
RF jeneratör ve güç kaynağı
Silikon Vadisi, ABD'de tasarlanmış ve üretilmiştir





Made in USA

QUALITY SYSTEM CERTIFICATION
ISO 9001:2008
DNV

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Öncesi & Sonrası

Continuous type needle RF

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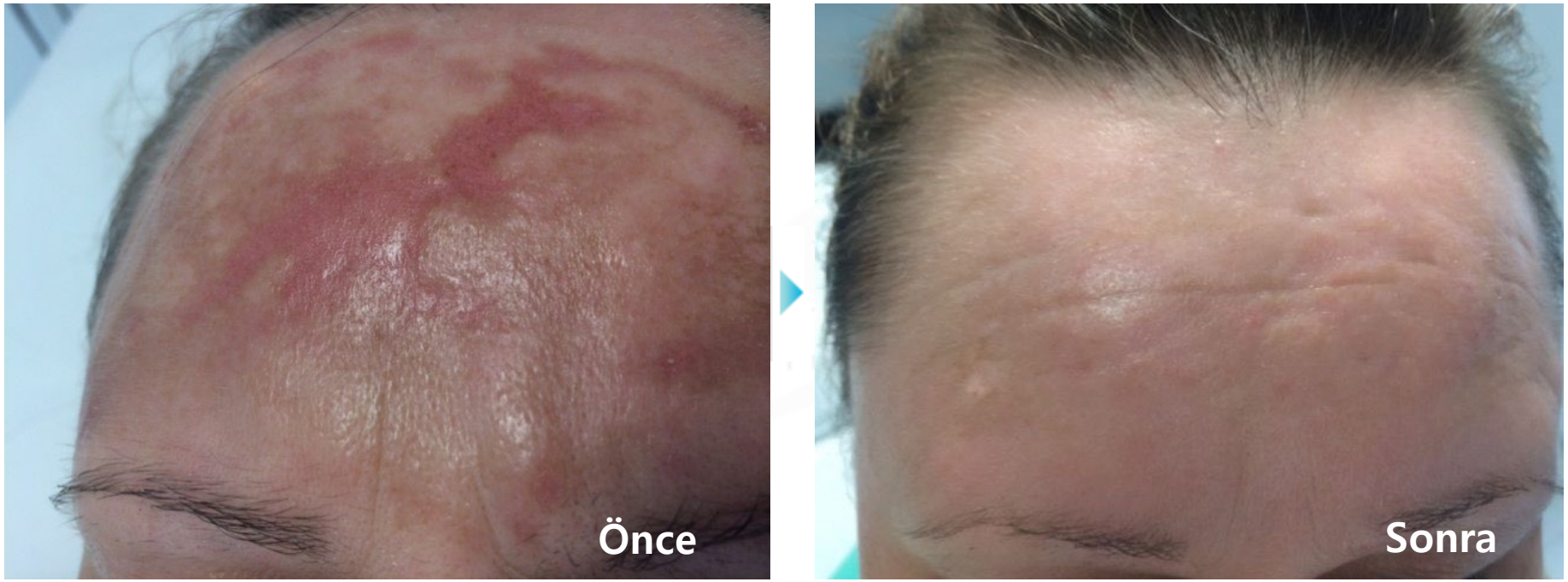
Klinik Sonuçlar



Yanık Skarı

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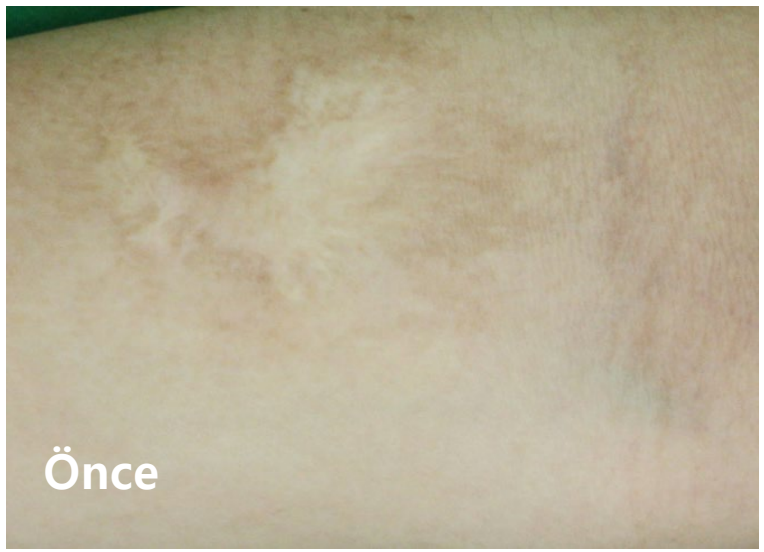
Klinik Sonuçlar



Kol Yanık Skarı

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Klinik Sonuçlar

Skar

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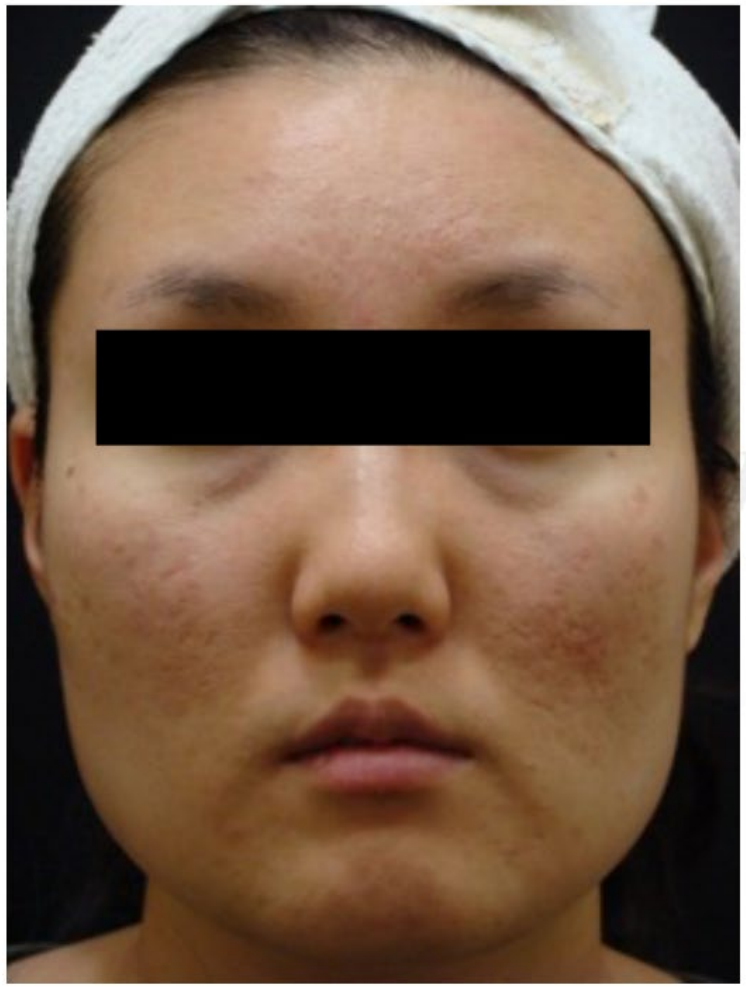
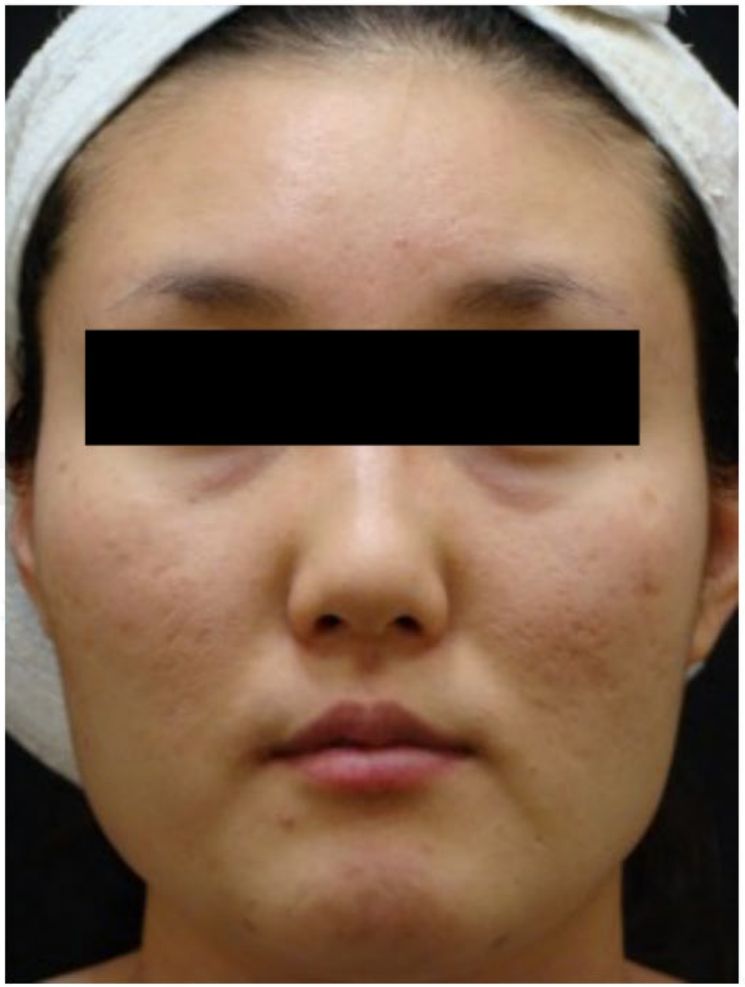
Klinik Sonuçlar





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Klinik Sonuçlar

Akne Skarı

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Sonuçlar

Aktif Akne

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Klinik Sonuçlar

Boyun Germe

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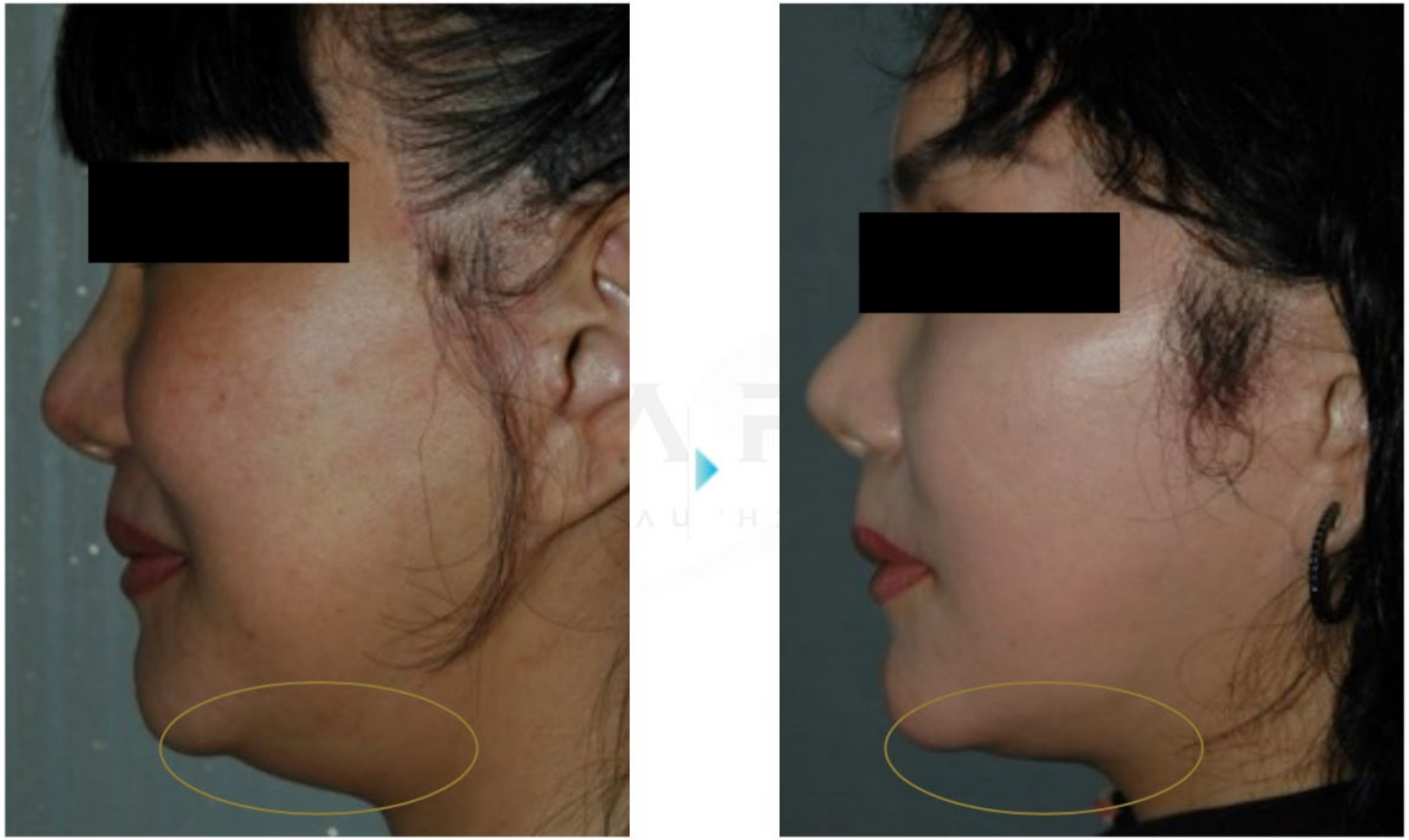
Klinik Sonuçlar



<Double Chin>

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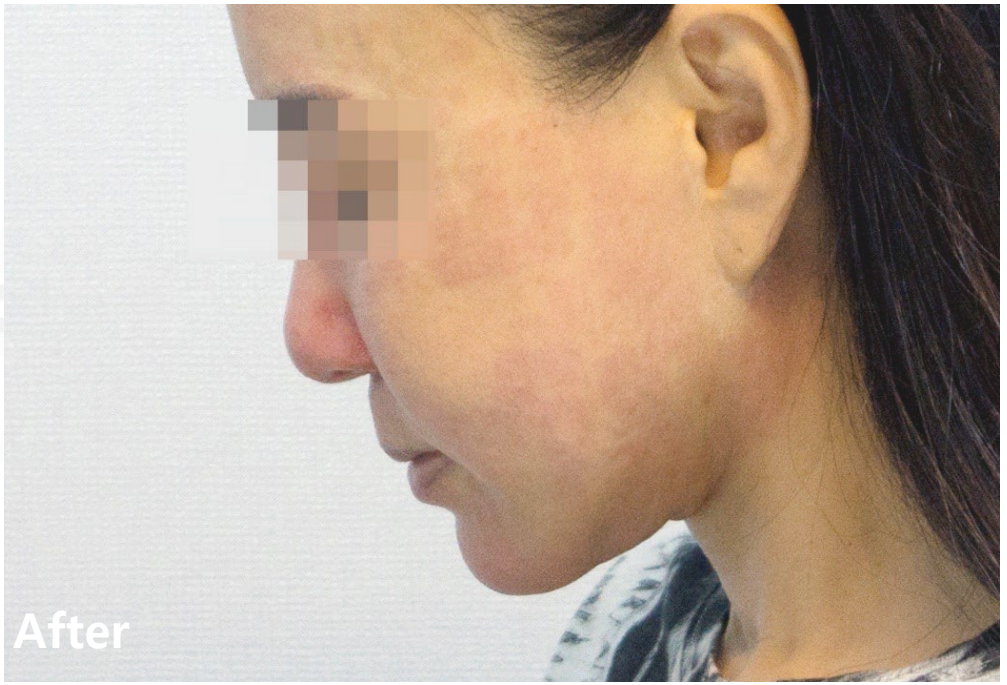
Klinik Sonuçlar



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Klinik Sonuçlar

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Klinik Sonuçlar

Göz kapağı gençleştirme

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Klinik Sonuçlar

Volümetrik cilt germe ve lifting

Klinik Sonuçlar

STRETCH MARK – Erken dönem

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Klinik Sonuçlar

STRETCH MARK – Geç dönem

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STRETCH MARK – Geç dönem

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Klinik Sonuçlar

STRETCH MARK – Geç dönem

Teşekkürler…