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High Intensity Focused Ultrasound

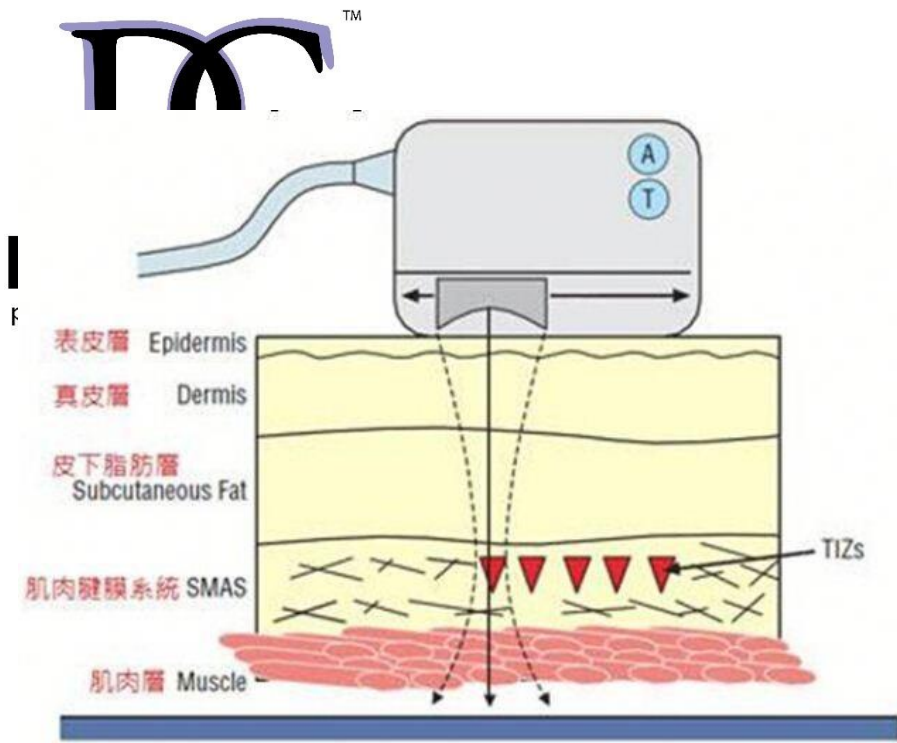
HIFU
System





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超声刀使用非侵入方式也能轻松达成，利用高强度聚焦式超声波装备，将超声波聚焦于单一个点以产生高能量作用筋膜层（SMAS），并且刺激胶原蛋白再生与重组，进而达到拉提，紧致，塑型的效果。因其安全，无创，效果显著，是世界上公认的最有效及无恢复期的美容术。



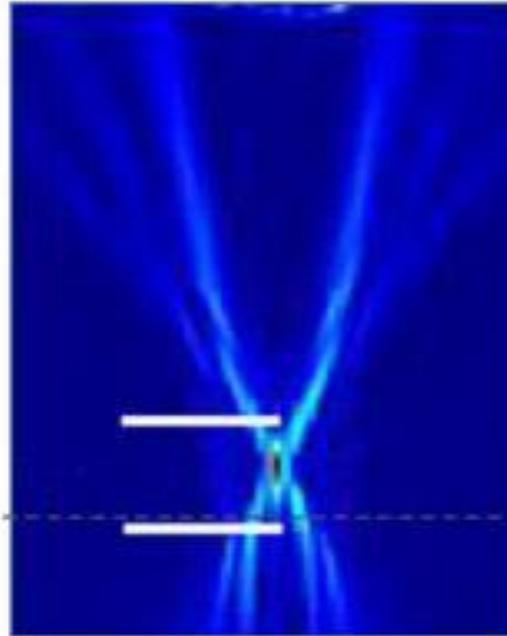
HIFU using non-invasive methods and gentle to use, the use of high-intensity focused ultrasonic equipment, the ultrasonic focus on a single point to produce high-energy action fascia (SMAS), and stimulate collagen regeneration and reorganization, to reach lift, tighten and body shape effect, is recognized as the most effective and non-recovery of cosmetic surgery in the world



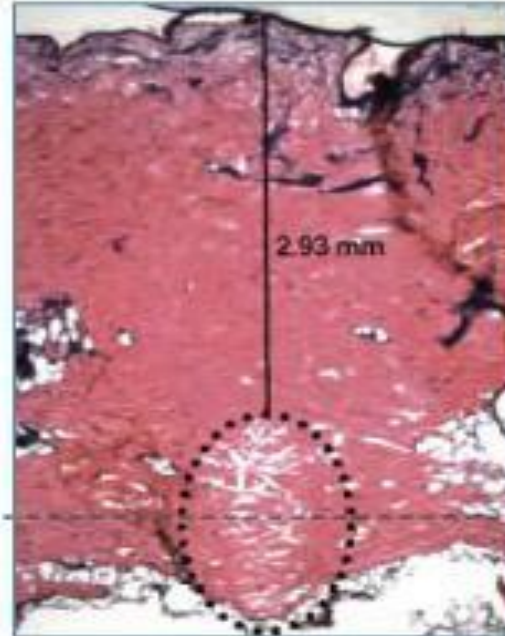
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WHY SAFE !

Focused heating at depth without affecting intervening tissue



Schlieren image of focused ultra-sound showing energy concentration at the focal point (White et al, 2008)



Histology of tissue coagulation created with the Ulthera System. Intervening tissue is unaffected. (Laubach et al, 2008)

2.9 mm

1.4 mm

皮膚老化的9大原因

內在因素

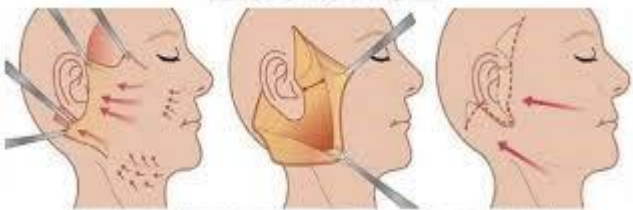
外在因素



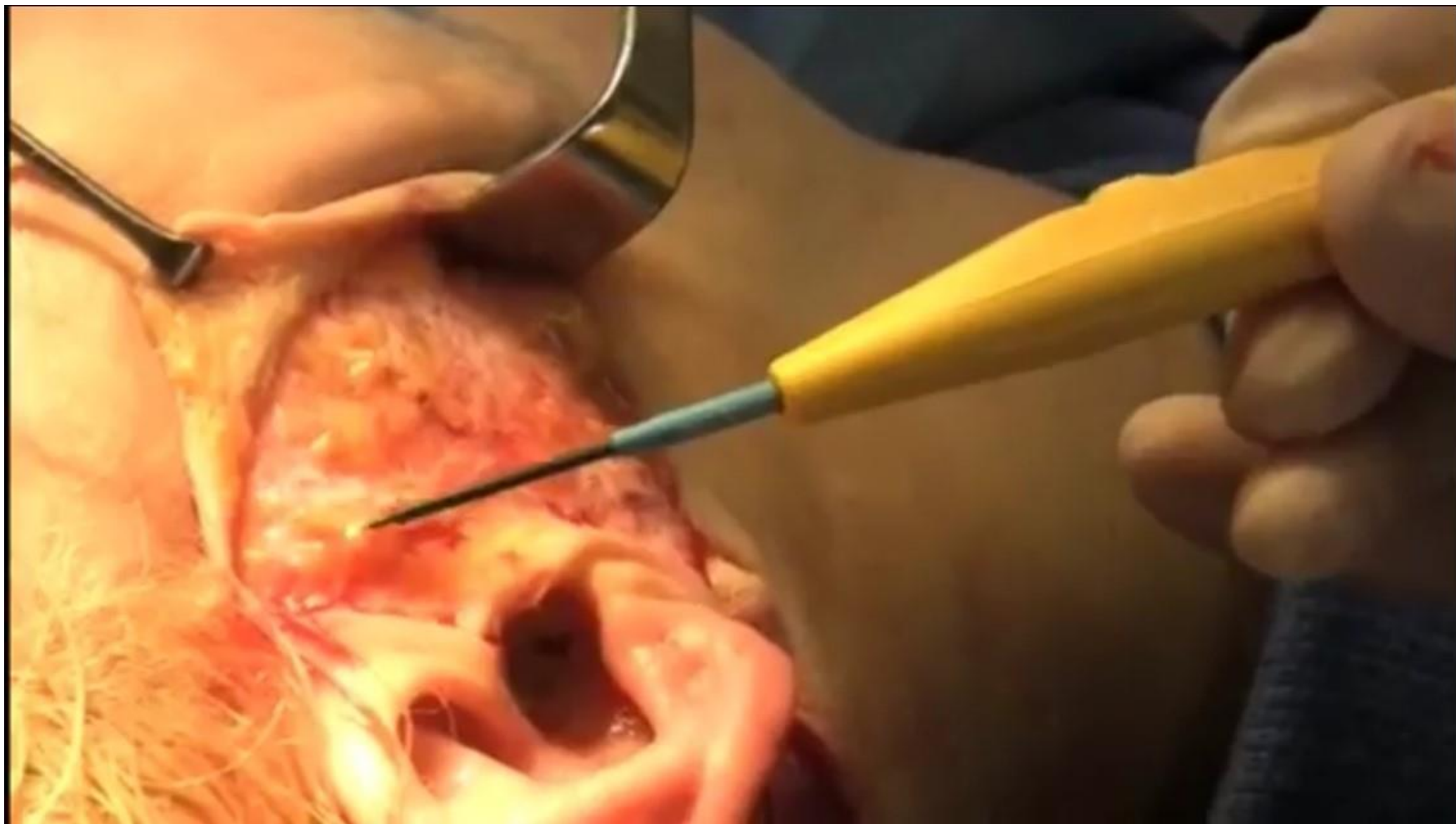
拉皮手术 Traditional Treatment

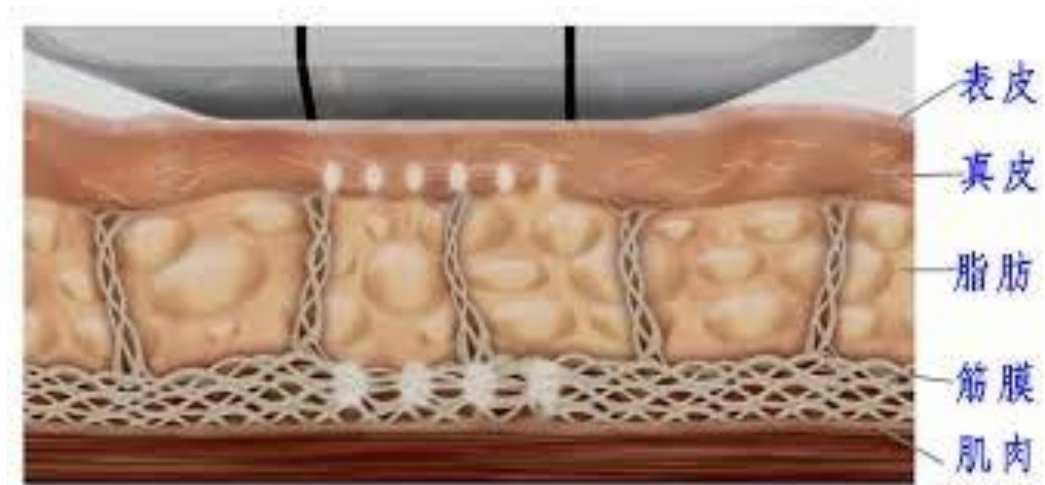


拉皮手术示意图



- 拉皮手术是圍繞著耳朵切開傷口，所以拉皮手術是一個有疤痕的手術
- 切開傷口後會找到皮膚下一層筋脈組織，最後藉由拉動此筋脈來提升贅肉，不過因整體拉提力到過於表淺，術後易有被拉平及緊繃的不自然感





什么是 S M A S 筋膜层 ？

医疗专家说衰老是人类生命进程中不可抗拒的自然规律，当面部皮肤松弛下垂，当皱纹爬上脸庞时，该怎么办？在人体的头骨外面有一层筋膜层，医学上称之为 S M A S 筋膜层。传统的拉皮除皱术仅仅是提起表皮层，肌肉层，虽然可以使下垂的皮肤得到有效提升，拉紧，但维持的时间比较短，而且使面部皮肤看起来像蜡人一样不太自然。

近几年，整形外科专家们通过大量拉皮除皱手术的临床实践发现，把骨膜上的筋膜层拉紧折叠后，再进行表皮，肌肉的提起，效果就不大一样。这样，面部在同样松弛的状态下，可以提升更多下垂



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的皮肤，而且通过对筋膜 S M A S 的提升折叠，从深层拉紧皮肤，使面部肌肉，皮肤看起来没有紧绷感，显得真实自然。面部浅表肌肉腱膜系统（简称 S M A S）的概念，只有将皮肤及 S M A S 一起提紧才能有效去除皱纹，开创了第二代除皱术。

超声刀的五大优势：

- 1) **最精确的深度** - 超声刀运用国际最新超声波技术，能把能量精确聚集在皮肤组织最深处筋膜层，真正解决世界抗衰老技术难题，对表面肌肤无影响，深层抗衰年轻化的效果。
- 2) **技术定位，精确可靠** - 超声刀采用目前最精确的专利性“定位指标线”，能够准确定位能量落点，且能量具有可控性，细腻准确，安全更有保障，作用更加全面。
- 3) **最佳保温保障** - 超声刀温度在 65-70 度左右，是最适合胶原蛋白有效变性的温度。采用聚焦式超音波，完全不用对皮肤加热，不会对皮肤造成损伤。



4) **安全无创，随做随走** - 超声刀在全球超十万人使用，一次治疗只需 60 分钟左右，治疗过程没有疼痛感，无恢复期，且效果具有立显性和渐进性。

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5) **多种治疗探头，多部位作用** - 超声刀根据不同部位和深度，选择不同的治疗探头，可用于面部，颈部，眼部，腹部，手臂等，均有很好的效果。

超声刀的原理：

超声刀高能量聚焦超声波是利用高度集中的超声波治疗技术，将高能量超声波聚焦于体内浅表肌肉腱膜，在目标位置进行密集式聚焦加热收紧，将焦点皮肤组织加热至摄氏60-70度，从而在不伤害周围组织下，令其焦点组织位置拉紧及提升，达到无创伤拉皮效果。

- 1) 1.5mm – 收紧毛孔/ 改善皮肤素质，紧实肌肤，均匀肤色，减淡细纹，抚平肌肤，拉紧及提升皮肤 (superficial Dermis)
- 2) 3mm – 提升眼眉，减淡皱纹，拉紧及提升皮肤



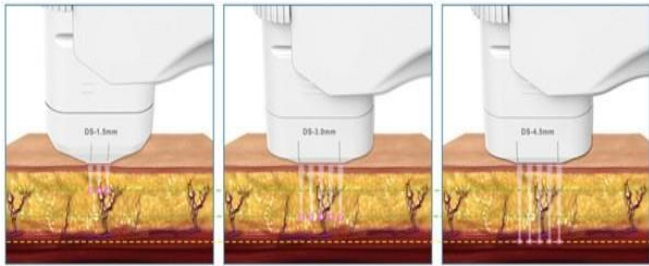


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超声刀治疗过程感觉

美容专家推荐 SMAS 拉皮超声刀是一种非侵入性（无创伤性）的肌肤护理，换句话说，它是一种体外的无创性手法。仪器共有三个探头，

Working sketch map:



第一个探头 (4.5mm)是高能超声波全头面部皮肤扫描，目的是准确地找出需要养护的位置。扫描移动时，肌肤有温热感，脸颊与下巴有微酸和轻微酸痛的感觉，到大牙附近时，感觉会强烈些。专家解释说，是因为那

个位置是神经丛，特别敏感，探头能量能直达筋膜层所致。

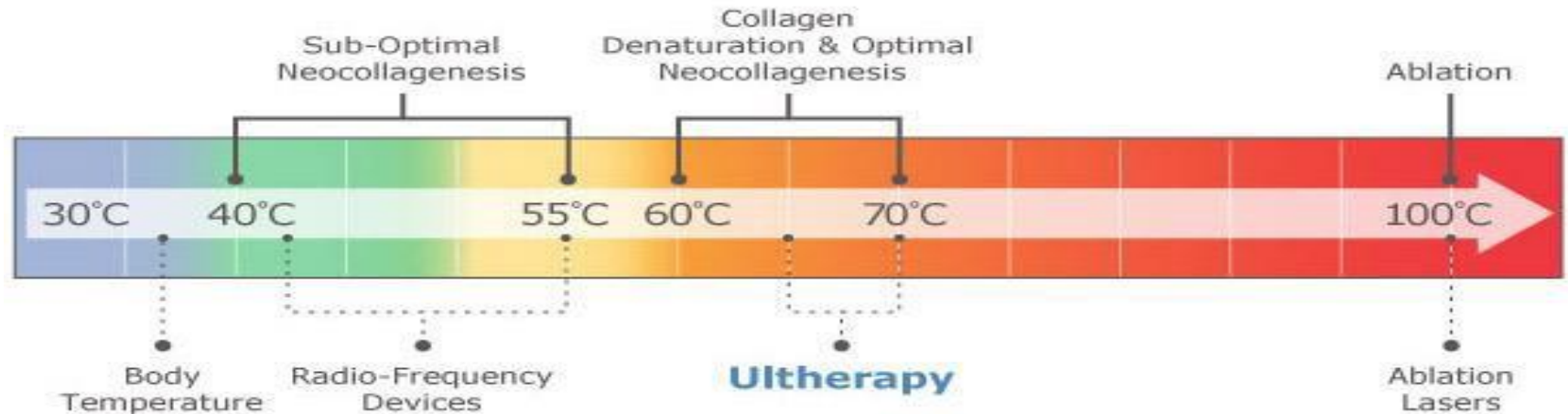
IGTM



第二个探头 (3mm)是针对眼角和颈部的筋膜肌肉层，所经之处同样有微微酸痛感觉。

第三个探头 (1.5mm)的扫描是针对真皮层，真皮层接受到热力后，已经老化的骨胶原蛋白受到刺激收缩，促使胶原增生和重组，从而恢复皮肤底层的弹力，达致深层紧肤的效果。这次扫描没有明显的酸痛感，只是感觉像雨点一样细密的温热能量轻轻在面部扫过，像做了一次温暖的面部 spa.

Effects of Temperature On Collagen





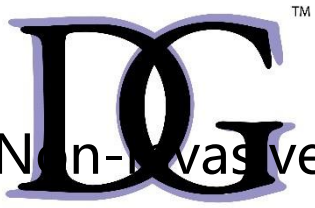
温热效应:

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人体组织对超声能量有非常大的吸收能力，因此当超声波在人体组织中传播过程，其能量不断地被组织吸收而变成热量，其结果是组织自己身体的温度升高。产热过程即是机械能在介质中转变成热能的能量，即内生热。超声温热效应可增加血液循环，加速代谢，改善局部组织营养，增强活力。(温度可达到 65-70 度)

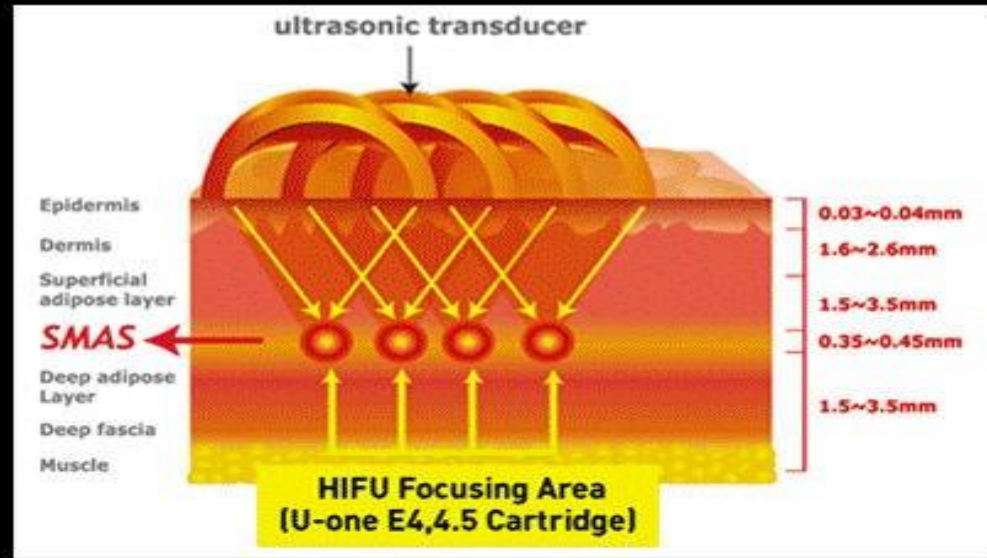
Thermal effects :

Human tissue face ultrasound energy has a very large absorption capacity, so when the ultrasonic propagation in human tissues, its energy is continuously absorbed by the tissue and into heat, as a result, the body's own tissue temperature. Heat process that is mechanical energy into heat energy in the medium transit, the heat is from inside out. Thermal effects of ultrasound to increase blood circulation, accelerate metabolism, improve the local tissue nutrition , and enhance the vitality. (Temperature up to 65-70 degrees)

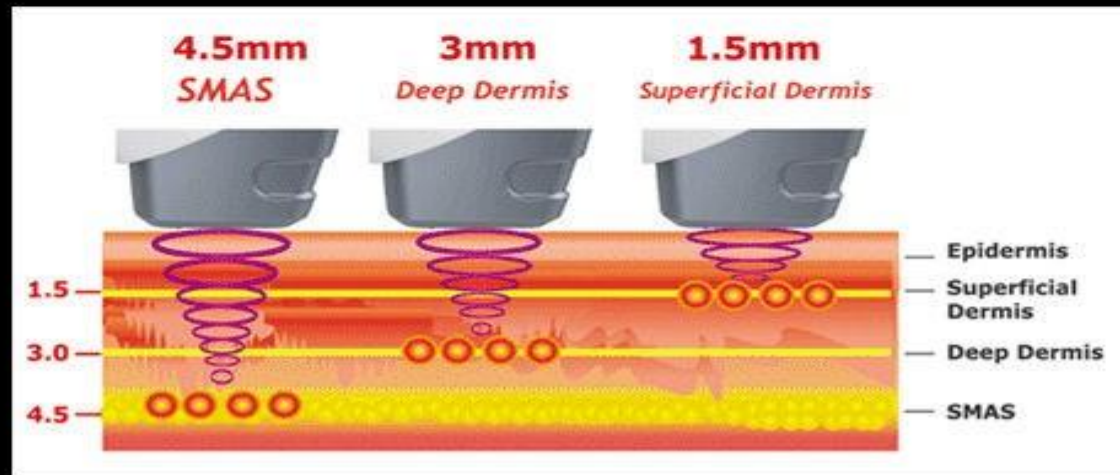


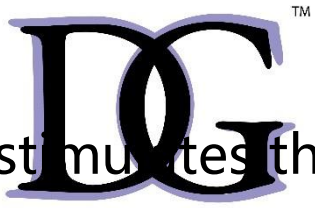
Non-invasive ultrasound energy ge

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Triple Layer(SMAS, Deep dermis, Superficial Dermis) Lifting





stimulates the cells for collagen production and tissue rejuvenation. With just one treatment,

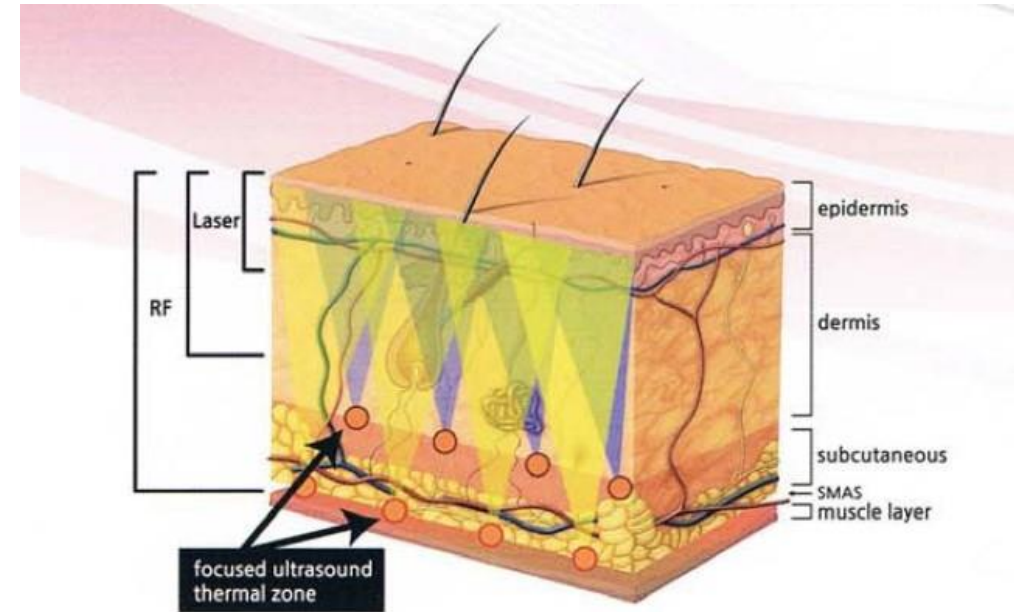
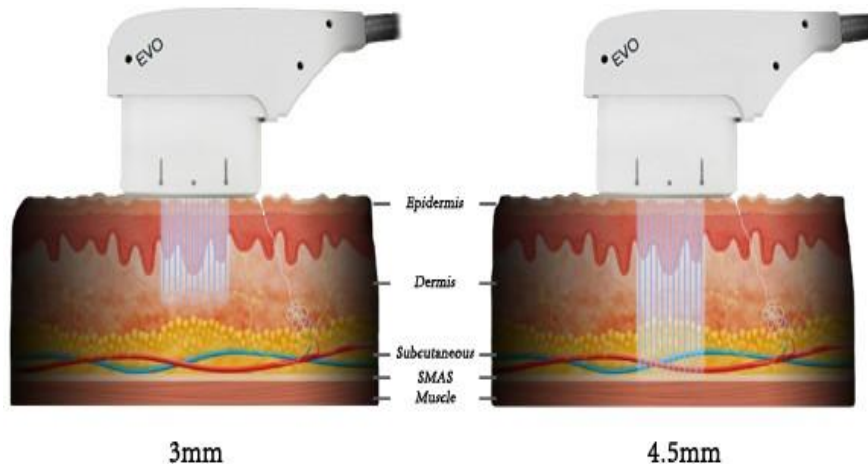
HIFU pushes mature skin to start working hard again.

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Results : smoother, firmer and brighter skin in the months after treatment.

HIFU Treatment

High Intensity Focused Ultrasound (HIFU) directly delivers heat energy to skin and renew the skin's collagen and thus and reducing sagging results of a facelift or surgery or injections,



consequently improving the texture of the skin. It literally achieves the a body lift without any invasive moreover, an added bonus of this



procedure is that there is no downtime. This technique can be applied to the face as well as the whole body, and also, it works equally well for people of all skin colors, in contrast to that of lasers and the intense pulse lights.

HIFU Procedure

HIFU skin tightening procedure is usually performed under oral analgesia. A smooth hand piece delivers highly focused ultrasound energy which safely heats up the subcutaneous layer at designated depth. The patient will be asked to feedback on the intensity of heat so that the procedure does not become uncomfortable or painful whilst achieving optimum results.

High Intensity Focused Ultrasound (HIFU)

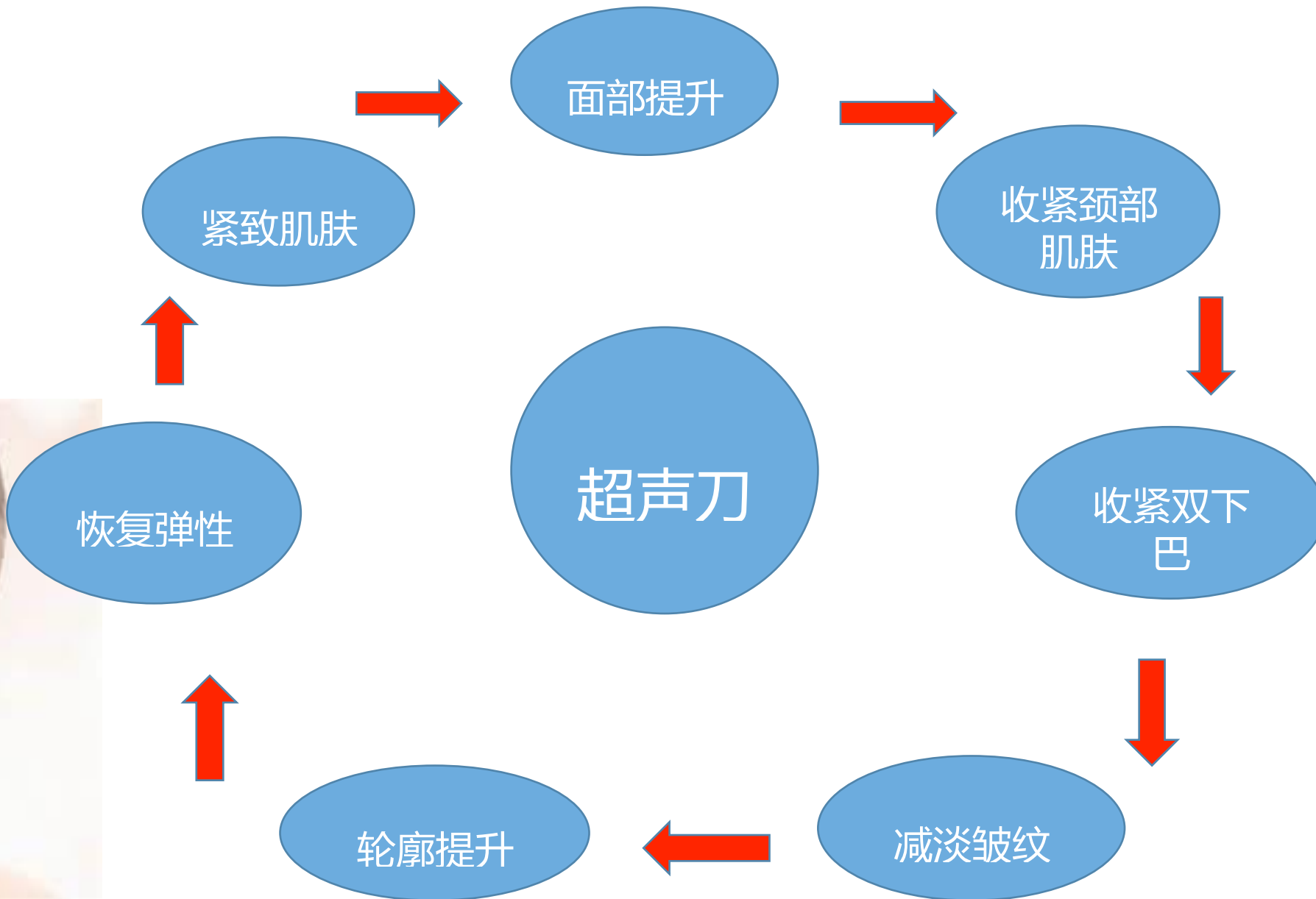
** Remove wrinkles around forehead, eyes and lip



- ** Lift and tighten the cheek
- ** Improve skin elasticity and the tightness of the outline
- ** Improve the chin outline, reduce Marionette lines
- ** Tighten the forehead skin, uplift the eyebrow line
- ** Improve skin, make it fine and smooth
- ** Removal wrinkle, prevent neck from aging

DGTM

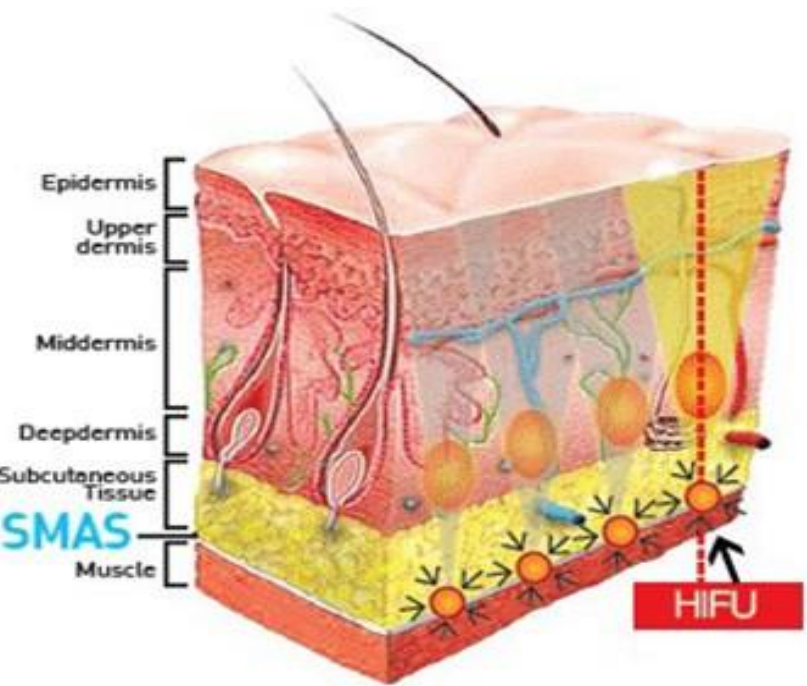
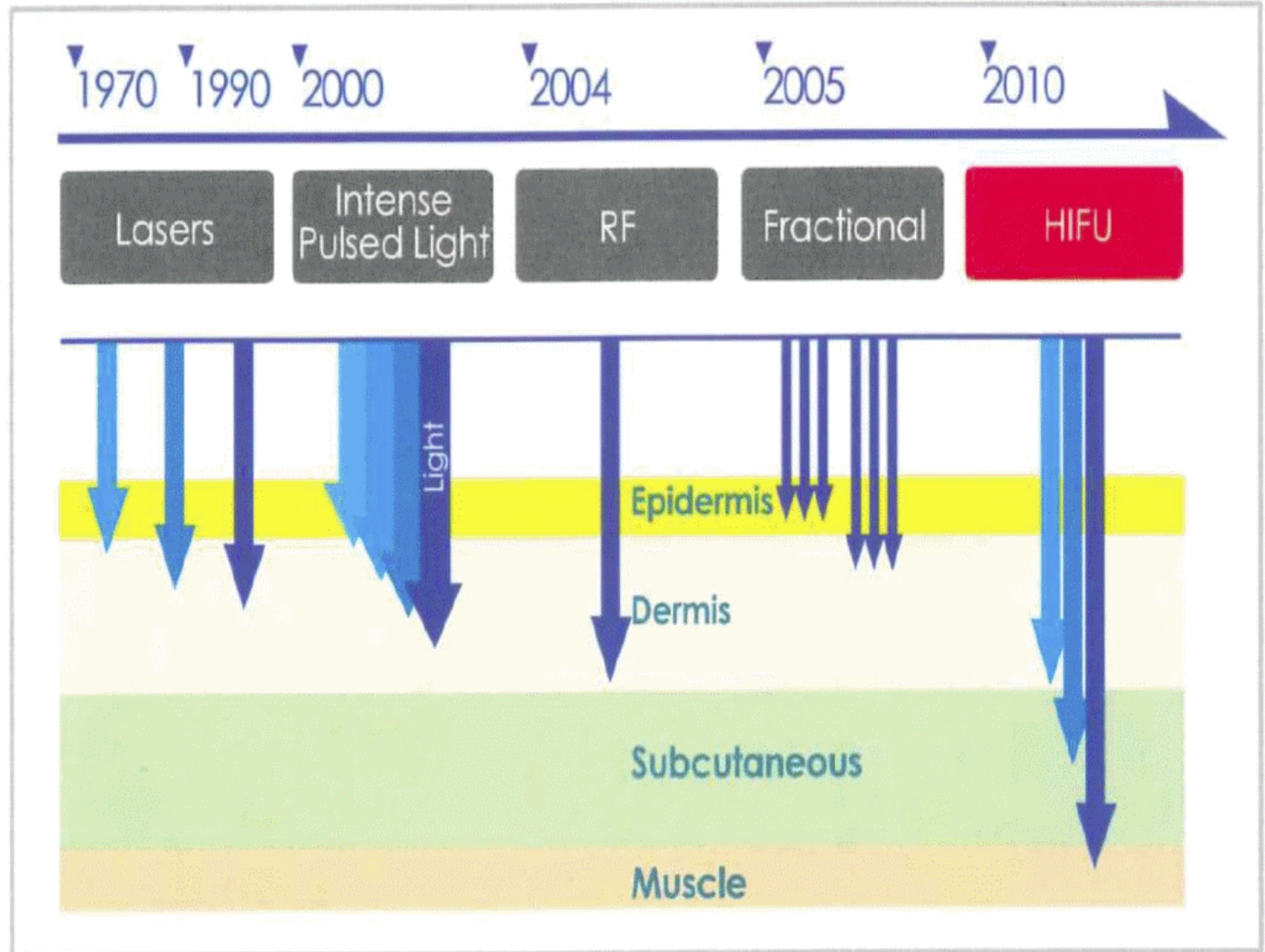
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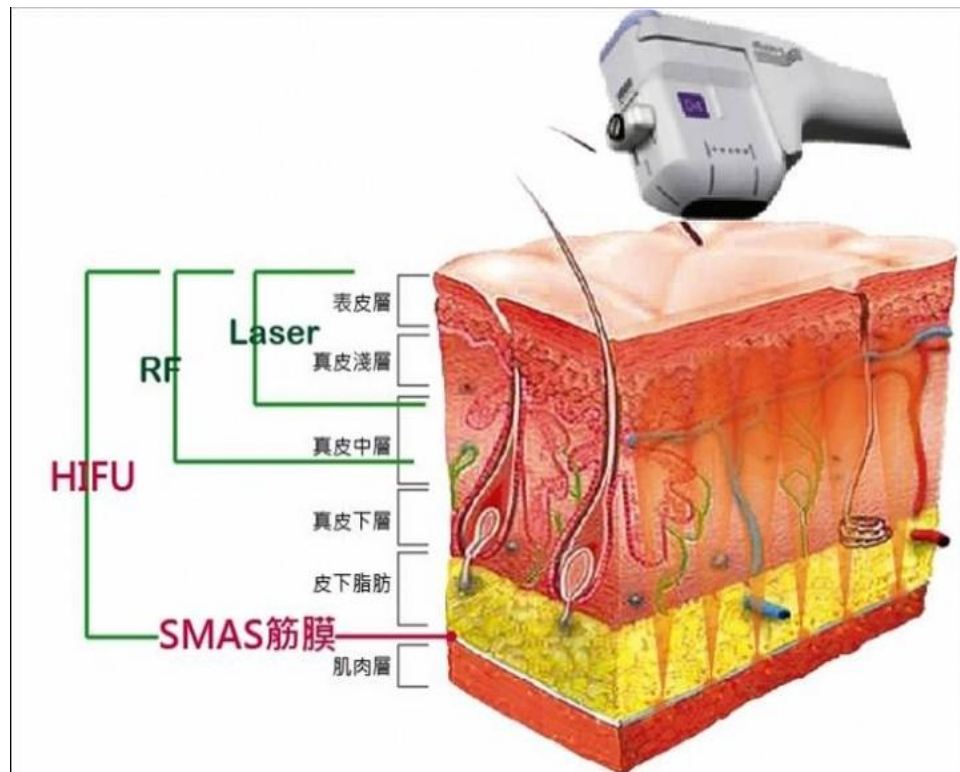
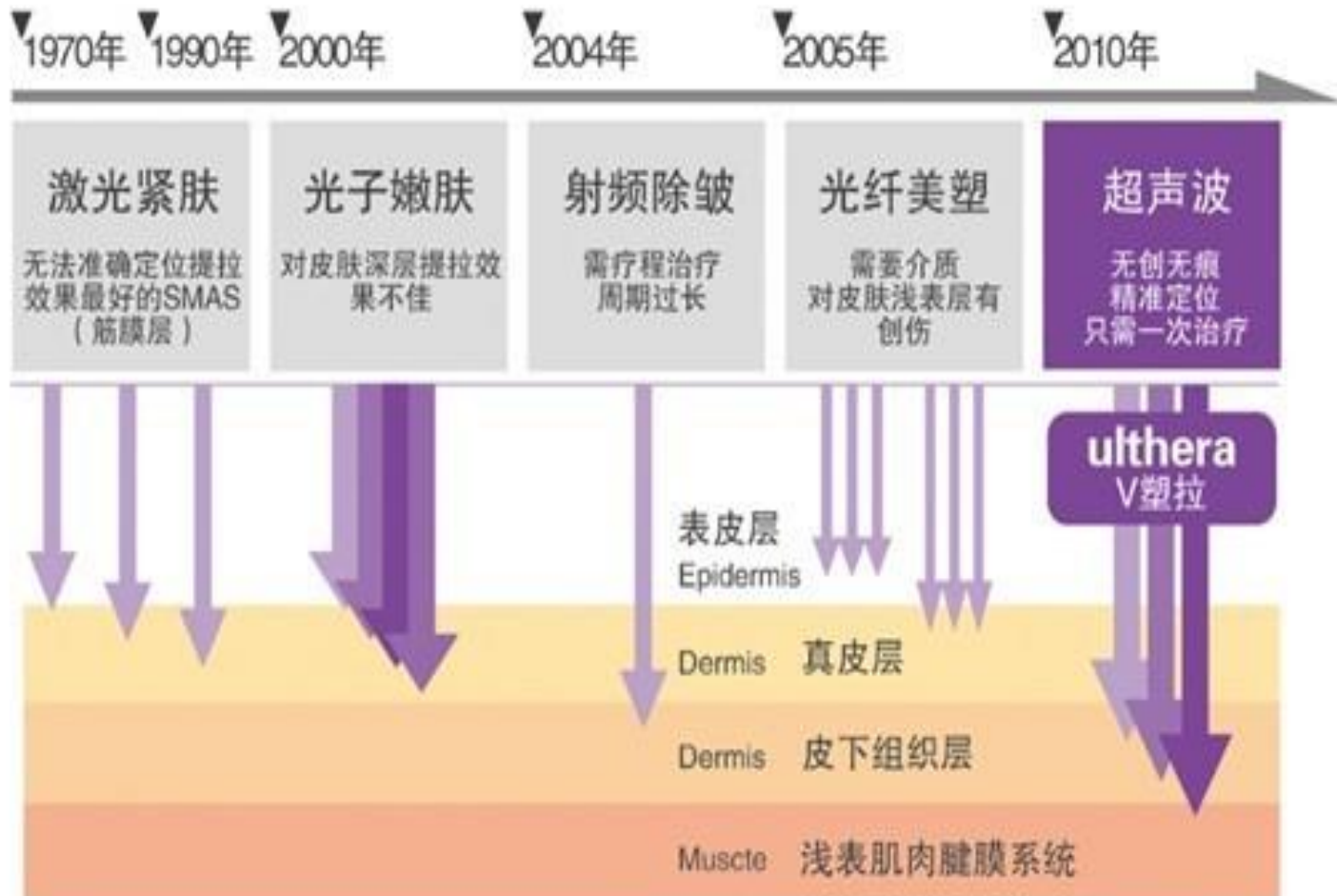


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HIFU treatment depth



超声刀 深度护理





TM

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Testimony

Seventeenth, before and after use







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The difference between HIFU and THERMAGE

HIFU	PK	THERMAGE
<p>*Non-invasive. Ultrasound is focused in one point to produce high energy, act on SMAS and make surrounded tissue shrink, resulting a lifted and tightened face</p>	<p>Working Principle</p>	<p>*Non-invasive. Using radio frequency to heat the skin and make collagen restructure</p>
<p>*Deep level of the skin is heated to 60-70C. Target tissues shrink immediately and collagen starts to restructure</p>	<p>Treatment Temperature</p>	<p>*Skin is heated to 40-50C, producing more collagen</p>
<p>*Depth of 1.5mm-4.5mm, fibrous septum and SMAS in deeper layer</p>	<p>Treatment Depth</p>	<p>*Only reach the fibrous septum</p>
<p>*3-8 years / 1 time a year</p>	<p>How much look younger / Sessions</p>	<p>* 1 year / 2-4 times a year</p>
<p>*Result can be seen at once and last for 12-24 months</p>	<p>Recovery Time</p>	<p>*Result will take 3-6 months to be visible and last for 6-12 months</p>

热玛吉和
 超声刀的
 差别

超声刀	PK	热玛吉
*非侵入性。超声聚焦在一个点，产生高能量，于浅肌肉腱膜系统和包围萎缩的细胞，导致提升和收紧效果	工作原理	*非侵入性。使用射频加热皮肤，使胶原蛋白重组
*进入皮肤深层致热度于60-70C	温度护理	*皮肤温度介于40-50C。制造更多骨胶原
*1.5mm-4.5mm.更深于纤维间隔和浅肌肉腱膜层	深度护理	*只是到达纤维间隔
*3-8年 / 一年一次	年轻年龄/ 时间	* 1年 / 一年2-4次
*一次见效及可持久12-24个月	持续时间	*效果需3-6个月，持久于6-12个月



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HIFU VS RF & Lasers

	Ultherapy	RF	Lasers
Temperature	60-70°C; Denaturation	<55°C; Sub-Optimal	100°C; Vaporization
Depth	4.5mm, 3mm & 1.5mm	<3mm; Variable	<1.5mm; Superficial
Precision	Precise & Fractional	Bulk Heating	Precise & Fractional
1.0 mm			
1.5 mm			
Dermis			
3.0 mm			
Fat/Connective Tissue			
SMAS			
4.5 mm			
Muscle			

HIFU VS RF & Lasers

Name Technology	HIFU High Intense Focus Light	Radio Frequency High Frequency Radio Wave	Surgery Incision or Excision
Treatment Zone	Accurate Focus on 3-4.5mm	Cover Dermis and Subcutaneous tissues	3.5-4.5mm SMAS
Pain	Painless	Terrible painful	Painful
Anesthesia	NO	Local anesthesia or Total anesthesia	Total anesthesia
Wound	NO	NO	YES
Blood Loss Volume	NO	NO	Yes with mass
Safety	High Safe	Medium Safe	Dangerous
Treatment Time	2-3mins	45-60mins	1-4hours
Cost Investment	Low	High	---

Specification

Power

800W

Treatment Size

7MHz(3mm&1.5mm),

4MHz(4.5mm)

Number of heads

3 heads(1.5mm, 3.0mm, 4.5mm)

Energy type

HIFU 4Mhz/7Mhz

Shot length

5mm-25mm (1mm step)

Cartridge





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Frequency
 Depth

I Superficial Probe

Type

DS7---3.0

DS7---1.5

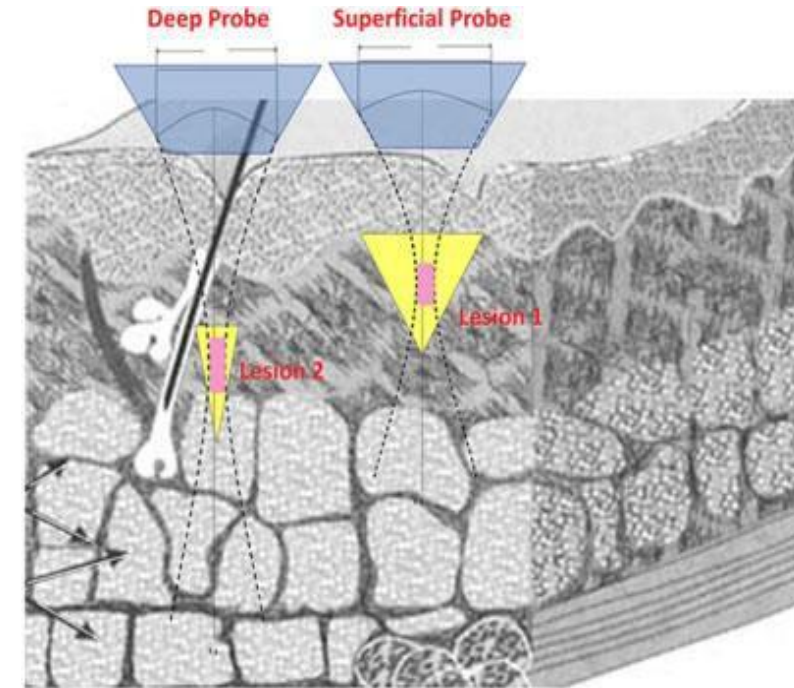
Treatment

7 MHz

3.0mm

7 MHz

1.5mm



II Deep Probe

Type

DS4---4.5

Frequency

4 MHz

Treatment

Depth

4.5mm





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Testimony



Before

After 30 Days



Pre-Treatment

120 Days Post Treatment I



Before

After



Pre-Treatment

Post-Treatment: 360 Days