



ULTRAFORMER MPT

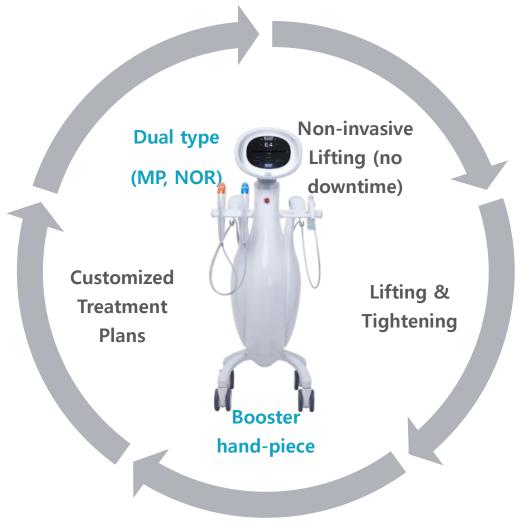
CLINICAL Training

Academic Clinical Team

Part 1

About ULTRAFORMER MPT





New paradigm of HIFU treatment



CLINICAL MECHANISM & SCIENTIFIC EVIDENCS

Part 2 Clinical Mechanism & Scientific Evidence: Aging Process



- ① Skin (Dermis) thinning, reduced elasticity
- ② Fascia/retaining ligament/SMAS weakening

U L T R A F O R M E R

- ③ Fat pad reabsorption
- (4) **Muscle** weakening
- **5 Bone** resorption

Functions & Skin Structures

5 Main layers of the skin

Epidermis (0.4 - 1.5mm) Most outer layer that is a barrier to infections (Keratin, Melanin)

Dermis (0.5 - 3.0mm) Middle layer that contains nerves, hair roots, sweat and oil glands and blood vessels (Collagen and elastin fiber)

Subcutaneous layer (Hypodermis)

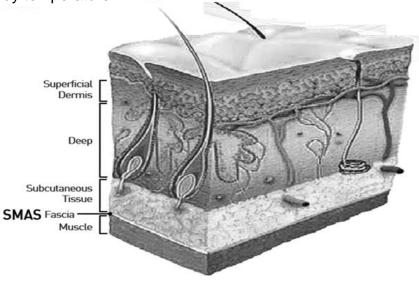
Fat, blood vessels and connective tissue that helps maintain body temperature

SMAS

Superficial Musculo Aponeurotic System Tightly attached between the subcutaneous layer and muscle

Muscle

Flexible organ made of fiber that makes body to move

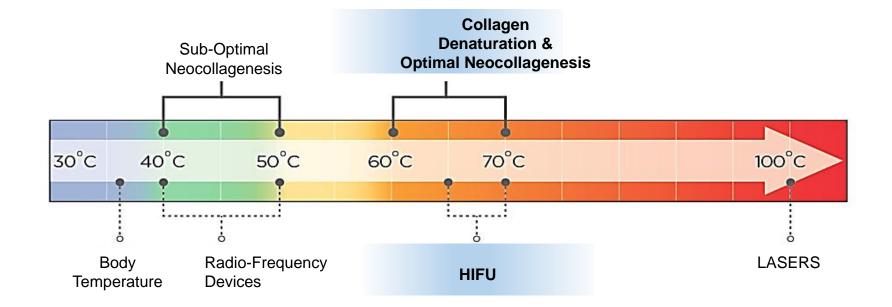


Part 2 Clinical Mechanism & Scientific Evidence

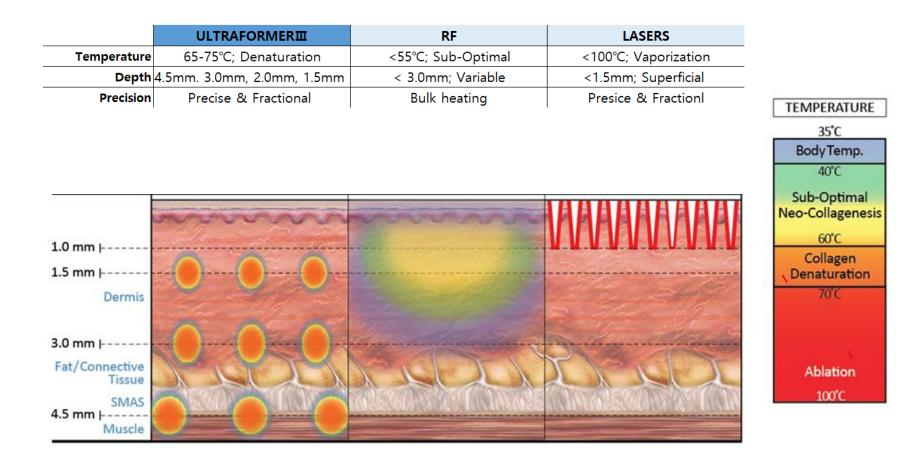


During a treatment, high-intensity ultrasound energy is focused on a specific depth.

The transducer creates $65 \sim 75$ C° of thermal coagulation point by molecular vibration without any damage on surrounded tissue.



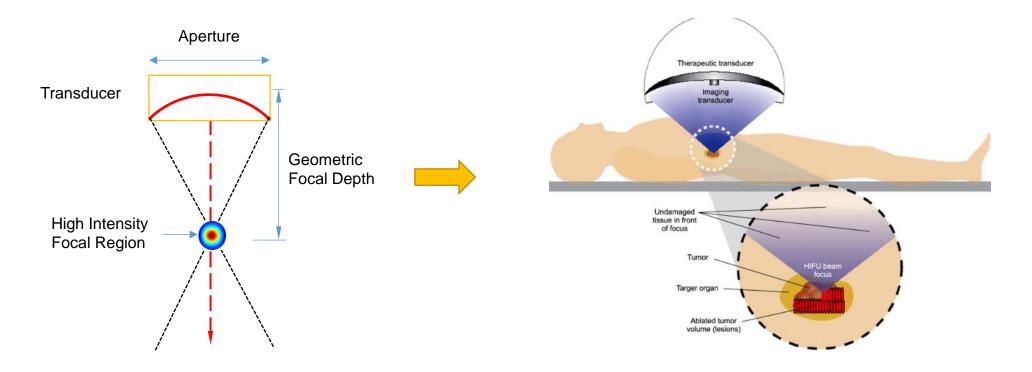
Trend & New Paradigm



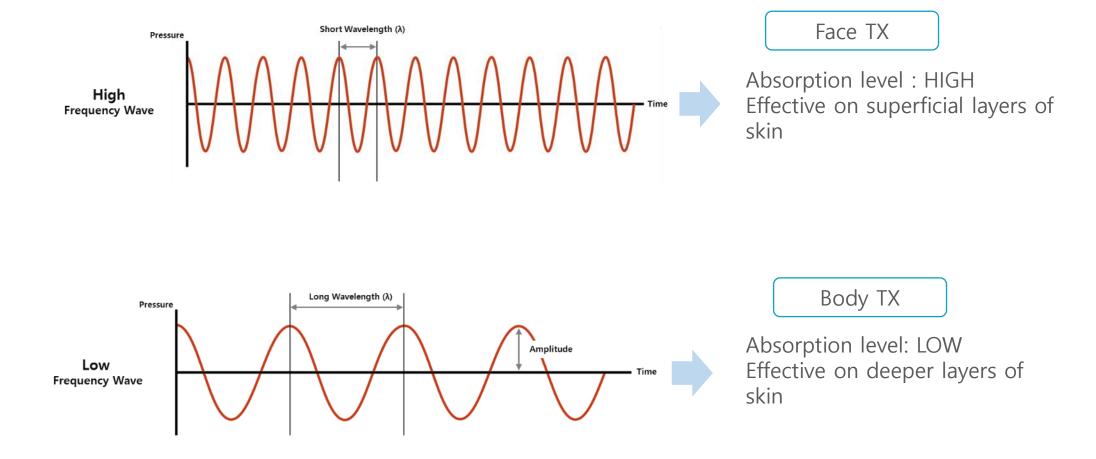


HIFU is the focused by high intensity sound waves to create heat at a specific point.

HIFU technology has been initially developed for treating various cancer. This technology was comparably currently shifted to aesthetic device purposed to have lifted face.



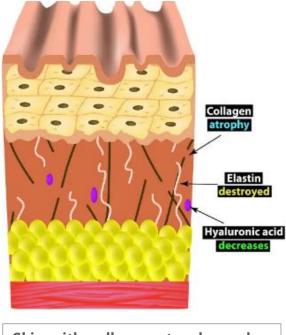
Clinical Mechanism & Scientific Evidence: Frequency and Absorption



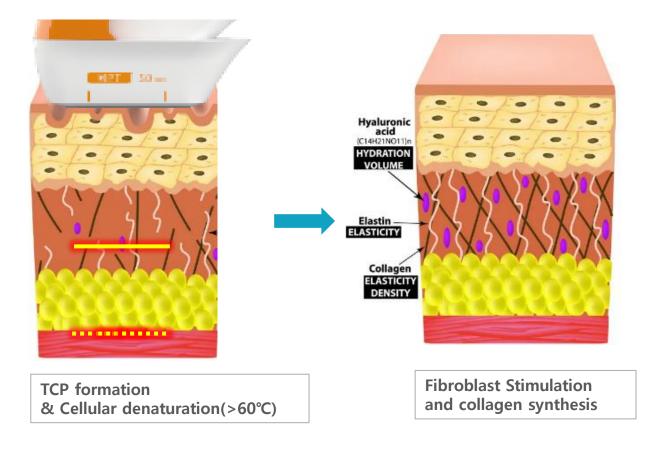
Part 2 Clinical Mechanism & Scientific Evidence



Clinical effects resulted from TCP formation



Skin with collagen atrophy and HA, elastin decreased





UF3	UF MPT		
Macro-Focused	Macro-Focused	Macro-Focused MP Mode	MP Mode
Micro-Focused	Micro-Focused	Macro-Focused Normal Mode	Normal Mode

MP (micro-pulsed) mode:

TCP formation: with one shot in the treatment length of 25mm, more than 400 TCP (thermal coagulative points) **Clinical Benefits**: such a wider energy emission causes the wider treatment areas \rightarrow effective fat ablation **Pain Level:** MP modes 2.5 times faster than normal mode \rightarrow less pain with maximizing the effectiveness of the treatment.

About ULTRAFORMER MPT: Dual Mode

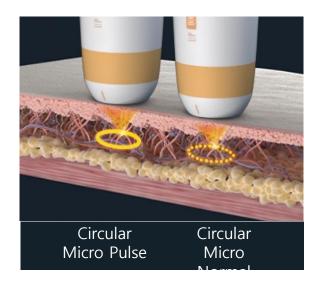




Part 1

Macro-Focused

Micro-Focused



Macro-Focused MP Mode

Macro-Focused Normal Mode



MP Mode

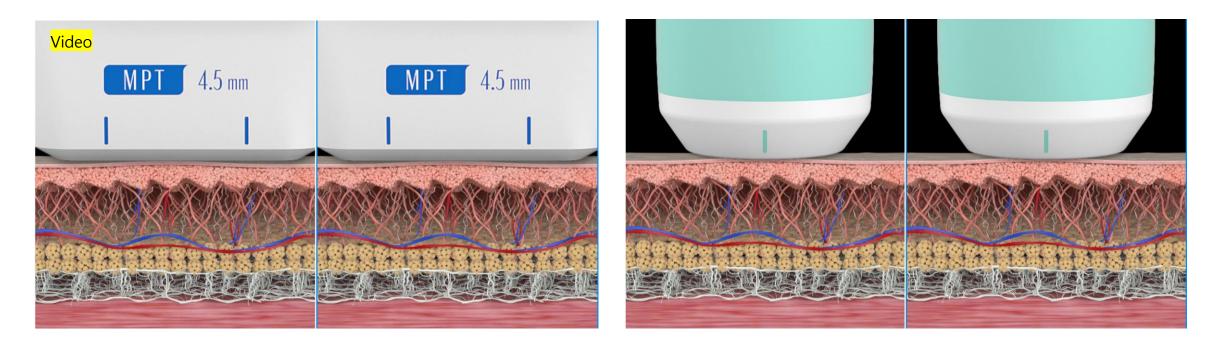


Normal Mode



Part 1 About ULTRAFORMER MPT





ULTRA F



Wide and bulk thermal effects- effective for fat ablation

NOR Precise TCP formation- lifting and tightening

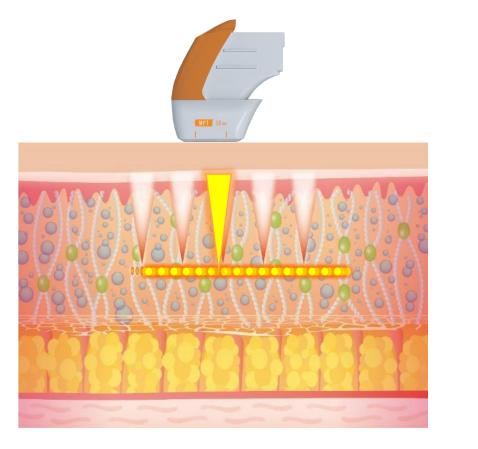
ULTRA BOOSTER



Sensitive and delicate skin – anti-aging and skin brightening effects



I. Dual Mode – MP/Nor(Dot)



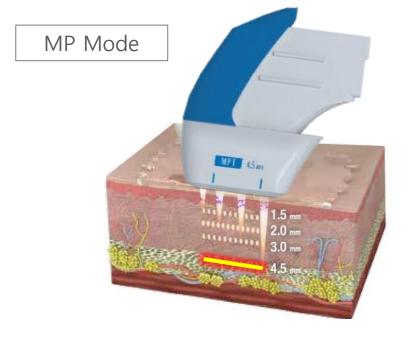
- ✓ MP (Micro-Pulsed Mode) : Fast and dense TCP as liner type
- $\checkmark\,$ Effective for face contouring & fat ablation
- ✓ Successive accumulation of thermal energy relieves the patient's pain with quick treatment time

Part 1

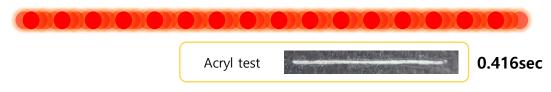
About ULTRAFORMER MPT: MP Mode vs Normal Mode

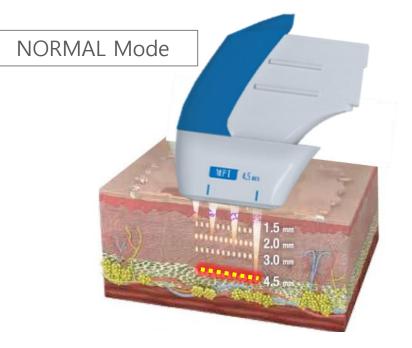


II. Fast Speed



Wide or bulk Heating: more effective fat melting effects





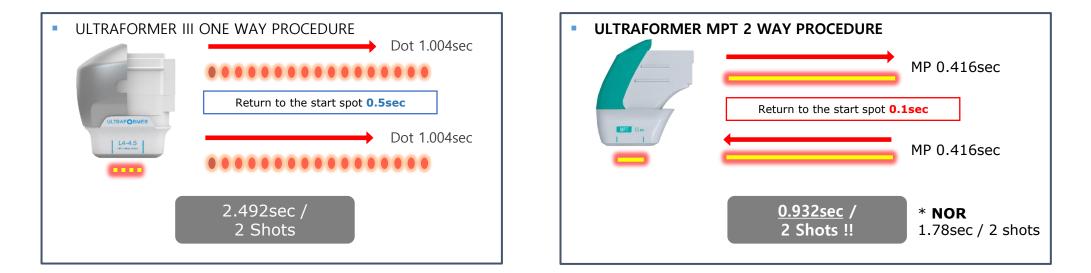
Precise TCP: more lifting and tightening effect



About ULTRAFORMER MPT

Part 1





TREATMENT SPEED 2.5 TIMES FASTER (MP MODE ON)

Part 1 About ULTRAFORMER MPT



10 Cartridges





UF MPT TREATMENT

Part 3 Indications of each cartridge



Cartridge	Ultra Face Cartridge		
Focal Depth / Frequency	MP Mode	Normal Mode	
1.5 mm / 7 MHz	Pore TighteningFirming Up	Forehead WrinkleGlabella Wrinkle	
2.0 mm / 5.5 MHz	Eye Bags / Bulging Fat	Fine Wrinkle, Eyebrow LiftingCrow's Feet, Perioral, Neck	
3.0 mm / 7 MHz	Mid-Face Contouring	Mid-Face Tightening	
4.5 mm / 4.0 MHz	 Jawline Contouring Lower Face Contouring Striate Mark 	Lower-Face Tightening	
6.0 mm / 2.0 MHz	 Double Chin Contouring Arm & Bra Fat Reduction 	Arm Tightening	
9.0 mm / 2.0 MHz	Thigh Contouring & Cellulite	Thigh Tightening	
13.0 mm / 2.0 MHz	Abdomen Contouring	Abdomen Tightening	





Ideal Candidate for ULTRAFORMER 3



Normal Mode

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Normal Mode

MP Mode

Ultra Booster Hand-piece with DSB ampoules



DSB ULTRABOOSTER Treatment

Treatment area from epidermis to SMAS Synergy Effect with an exclusive DSB ampoule



Treatment Techniques

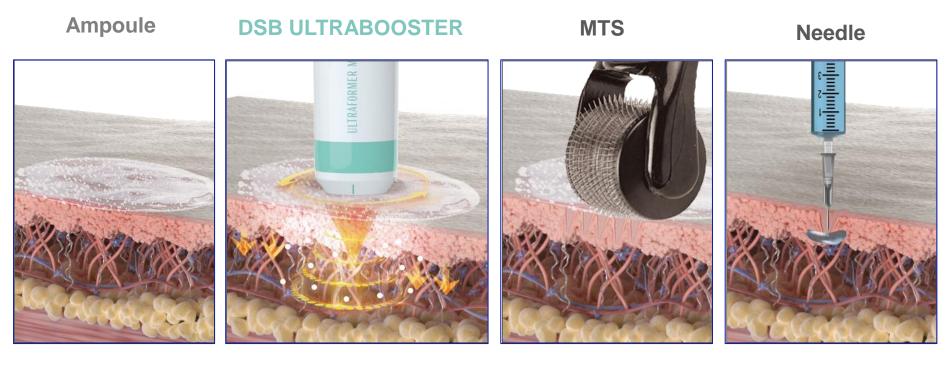






Treatment Effect with DSB: Various Drug Delivery Methods





Minimal penetration

Effective penetration with skin restoration effect

Effective penetration with bleeding and inflammation risks Effective penetration with bleeding and bruising risks



Treatment Effect with DSB

Part 3



DSB Ampoule Effects with 38 Active Ingredients





Treatment Effect with DSB

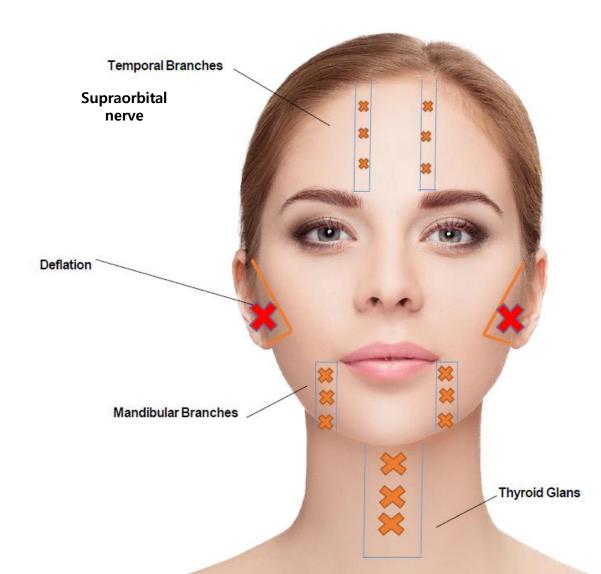




Part 3

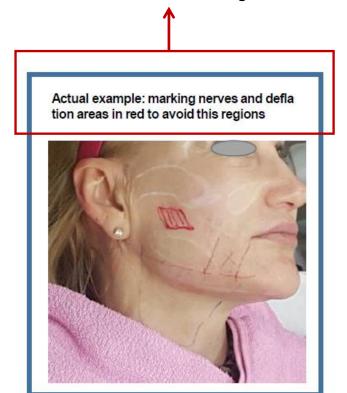
Part 3 Clinical Consideration: Nerve Marking





Actual Marking for Face

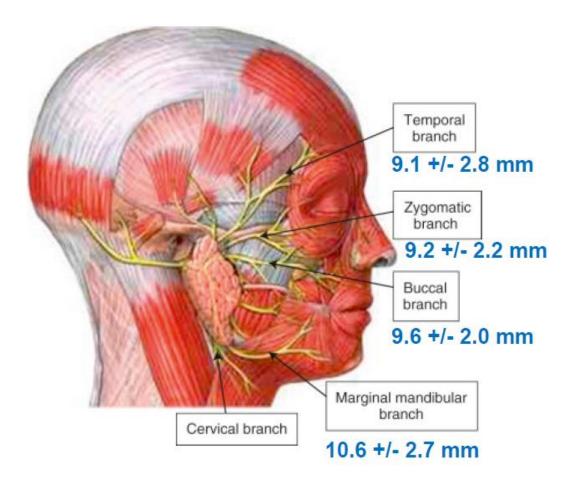
Actual Example: marking nerves and deflation areas in red to avoid those regions





Part 3 Clinical Consideration: Nerve Depth





Clinical Study:

Result of facial nerve depth on average in 12 cadaver face after face lift dissections

https://www.sciencedirect.com/topics/neuroscience/posterior-auricular-nerve



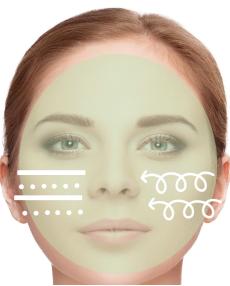
Part 3
Treatment Programs



Full Face Skin Care

Rejuv	venation	Glo	Glowing		Toning	
MPT 1.5mm	NORMAL = MP	BOOSER 1.5 mm	NORMAL < MP		BOOSER 1.5 mm	NORMAL < MP
BOOSER 1.5 mm	NORMAL = MP					











Contraindication	Precautions
 Pregnancy or when breastfeeding Open wounds or lesions on the treatment area 	Determine whether treatment is appropriate for patients with the following conditions:
 Open wounds or lesions on the treatment area Severe or cystic acne on the treatment area 	 Anticoagulant therapy Skin conditions caused by autoimmune diseases, skin cancer, and herpes
 Metal stents/electrical implants in the treatment area 	simplex
Bio-absorbable mechanical implants	Diabetes or epilepsy
Skin infections of any type	Severe skin diseases
Hemorrhagic disorders or dysfunctions	Decortication or heart disease
	Hypersensitiveness or hypertrophic scars
	Hemostatic dysfunctions

Part 3

Side Effects and its management



Symptoms	Causes	Post Treatment Care
Erythema (Redness)	The treated area may exhibit erythema immediately following treat ment	This typically resolves within a few hours of treatment
Edema (Swelling)	• The treated area may exhibit mild edema following treatment	This typically resolves within 3 to 72 hours of treatment
Bruising	 When the HIFU energy is delivered to soft tissue blood vessels cau sing damage Using inappropriate or too strong power (Joule), especially for pati ents with relatively thin skin Patients on anticoagulant-drug or history of taking anticoagulants 	 It typically resolves within 2 days to 2 weeks of treatment Check the Patient's medical history prior to the treatment Apply a cold compress for 2~3dyas and followed by a hot pack LED light therapy on the bruising area Massage the busing area by using the 3~10MHz ultrasound
Burns/Scarring	 Cartridge and skin surface are not fully contacted especially be mindful when using relatively shallow cartridges (1.5mm& 3mm) Ultrasound gel is not sufficient in the treatment areas 	 Cooling Pack within 48 hours post-procedure Avoid UV light Follow-up for the further assessment
Temporary Nerve Injury	 Using inappropriate or too strong power (Joule) 3.0mm or 4.5mm are used on the marginal mandibular nerve ca using temporary nerve injury (extremely rare) 	 It naturally dissipates within 6 months in general. There is no su ch permanent nerve damage reported so far Mark the facial danger zone especially 2cm~2.5 cm away from t he lip to avoid marginal mandibular nerve



- Patients are advised not to exercise, to avoid hot baths, and not to massage the area for 5–7 days post-treatment.
- It is important not to use sunbeds or sunbathe during the healing process (up to 4 weeks).
- Patients should be advised to use moisturizer if the skin gets dry, and to apply SPF 50 daily.
- Patients are also advised to not consume alcohol 24 hours before and after treatment
- Patients are also advised to maintain healthy diet and life style to maximize clinical outcomes