



**ON Technology**

Global Aesthetic Solutions



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# Understanding of Laser

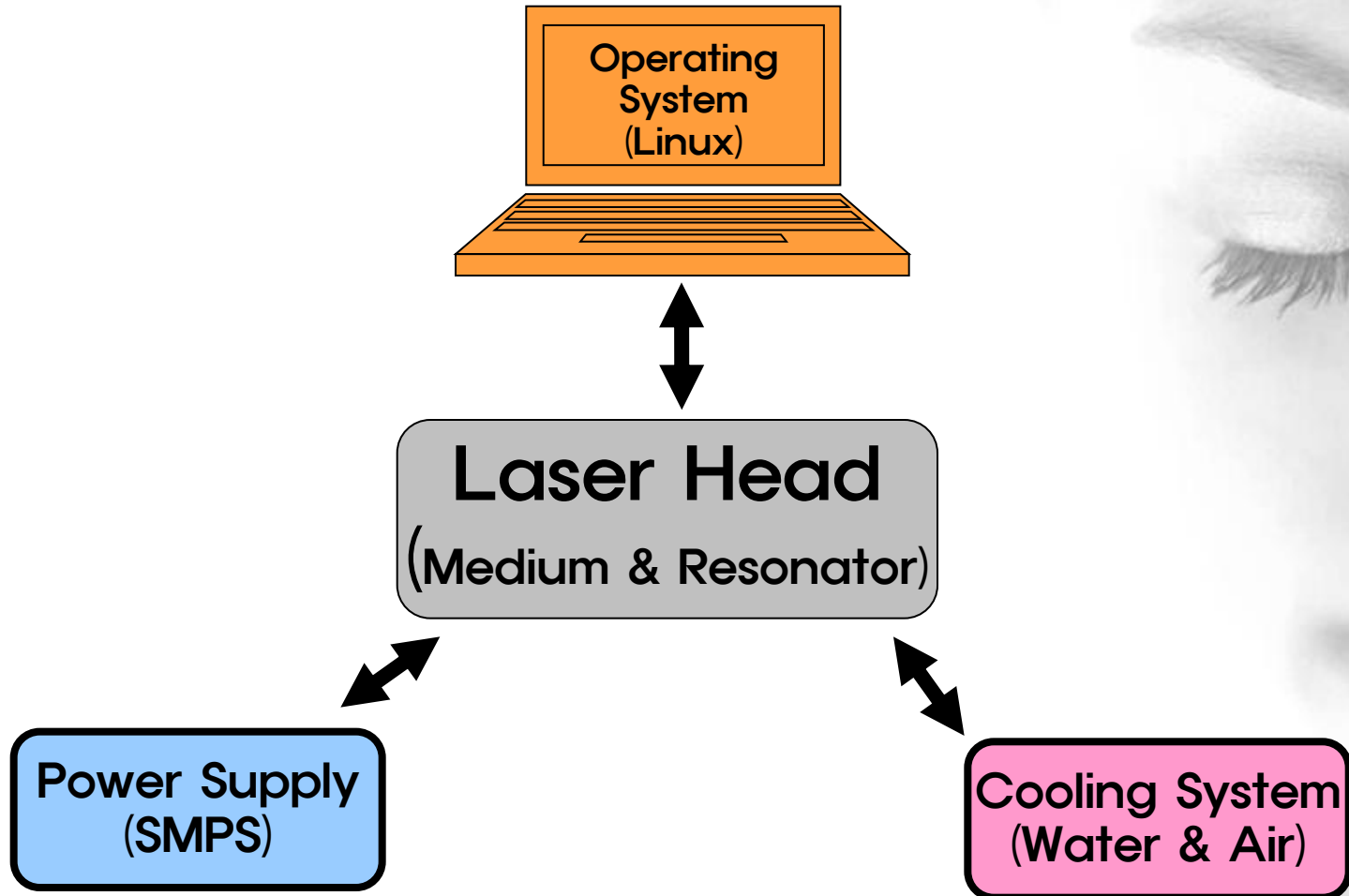
## - Characteristics

### Light Amplification by Stimulated Emission of Radiation

- Monochromatic
- Direct
- Coherent
- Brightness



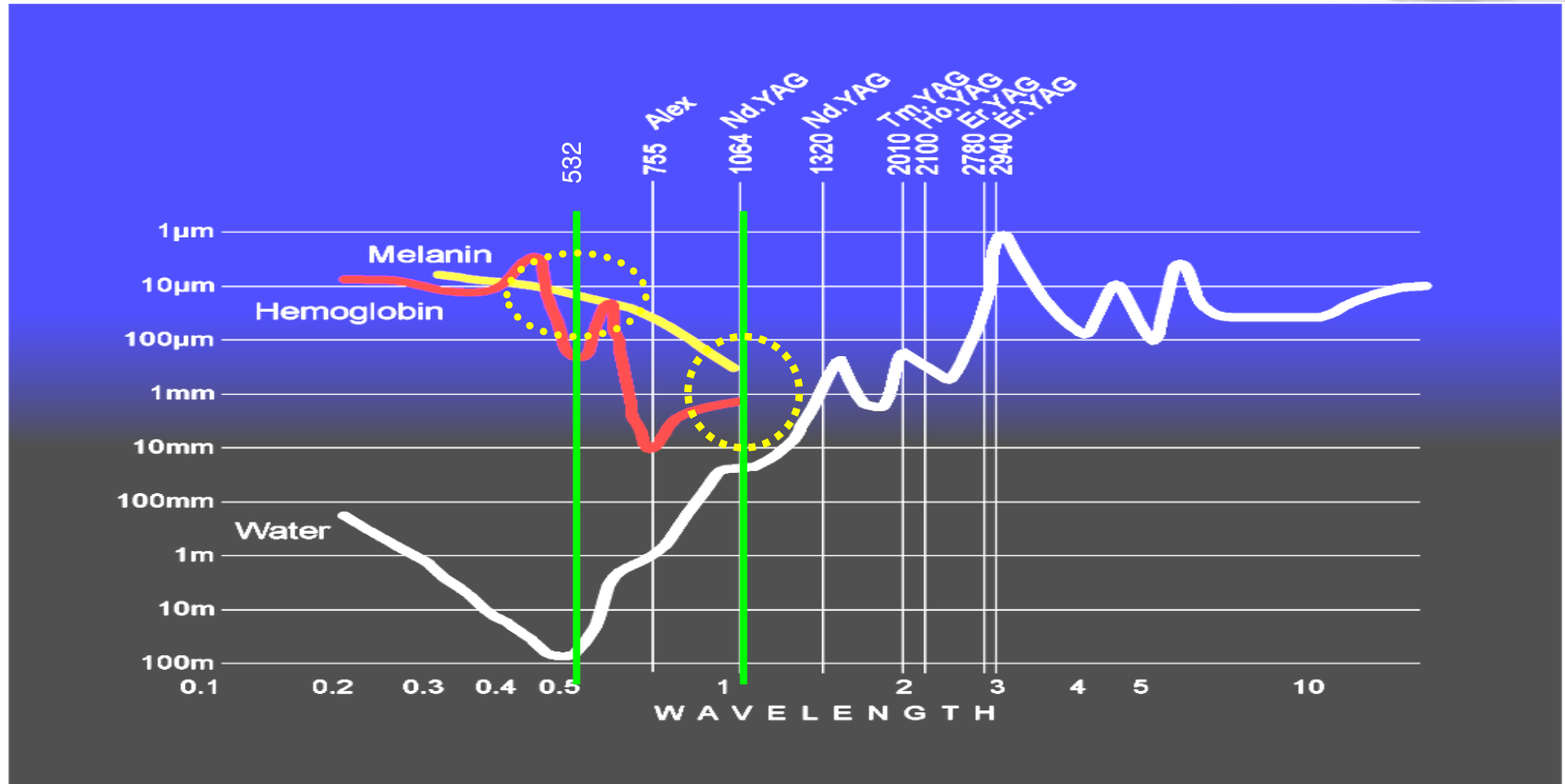
# Understanding of Laser



**Components of WON-COSJET ATR**  
(Q/SW Nd:YAG LASER)

# Understanding of laser

## - Factors that Affect Laser



■ Wavelength

■ Chromophore

■ Pulse Duration

# WON-COSJET ATR

## - Specifications



- **Irradiation Type**  
Flash Lamp-excited: Q-Switched Nd:YAG
- **Wavelength**  
1064nm & 532nm
- **Pulse Duration**  
6ns(Q-SW) & 300 $\mu$ s(FR MODE)
- **Repetition Rate** :single, 1-10Hz
- **Spot Size** : 2-10mm(1mm step)
- **Maximum Energy**  
532nm : 500mJ  
1064nm : 1000mJ  
FR Mode : 1800mJ
- **Weight** : 40kg without arm
- **Dimension (mm):** 490x220x750

## WON-COSJET ATR

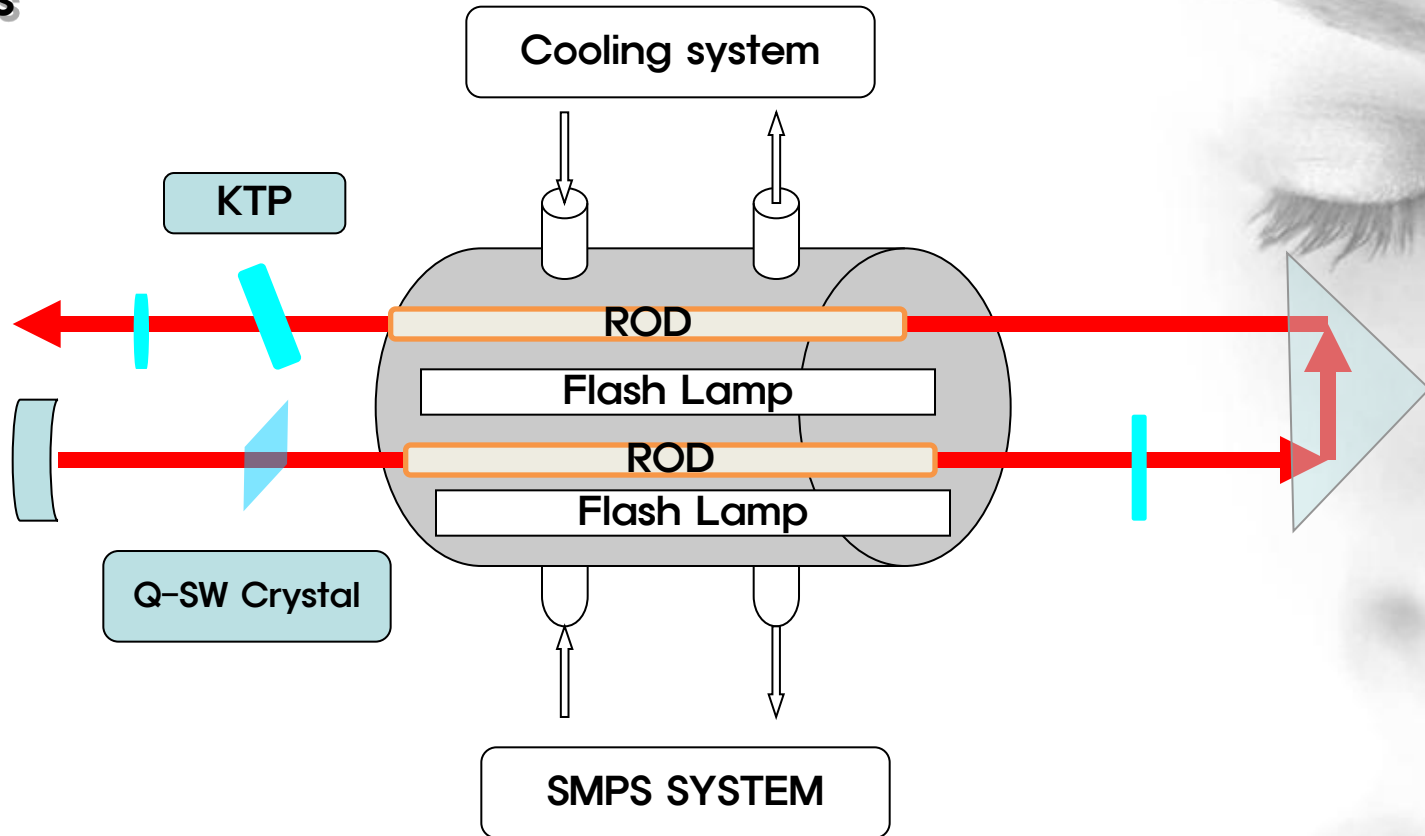
### - Advantages

- The smallest and lightest size in Q/S Nd:YAG
- Top-Hat mode
- Stable output with superior SMPS
- User friendly interface (Color LCD)
- GENESIS MODE for Non-ablative skin rejuvenation



# WON-COSJET ATR

## - Optics



Q-SW Nd:YAG LASER OPTIC



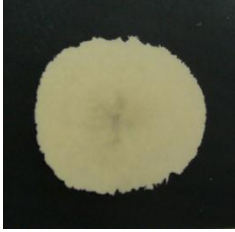



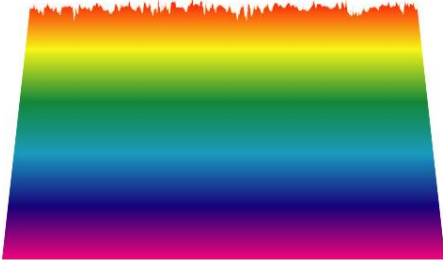
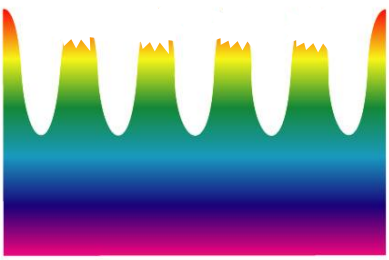
# WON-COSJET ATR

Fluence : 2.5J/cm<sup>2</sup>

Energy : 708mJ

Spot : 6mm

## - Multi Mode

Condition	WON-COSJET TR	Competitor
Without Hand Piece On Alignment Paper (Shot on the front side)		
With Hand Piece On Alignment Paper (Shot on the back side)		
3D Beam Profile		

## WON-COSJET ATR

### - Power Supply

- Designed by KAIST Research Institute
- SMPS (Switching Mode Power Supply)
- Semi-permanent Lifespan
- Stable Output



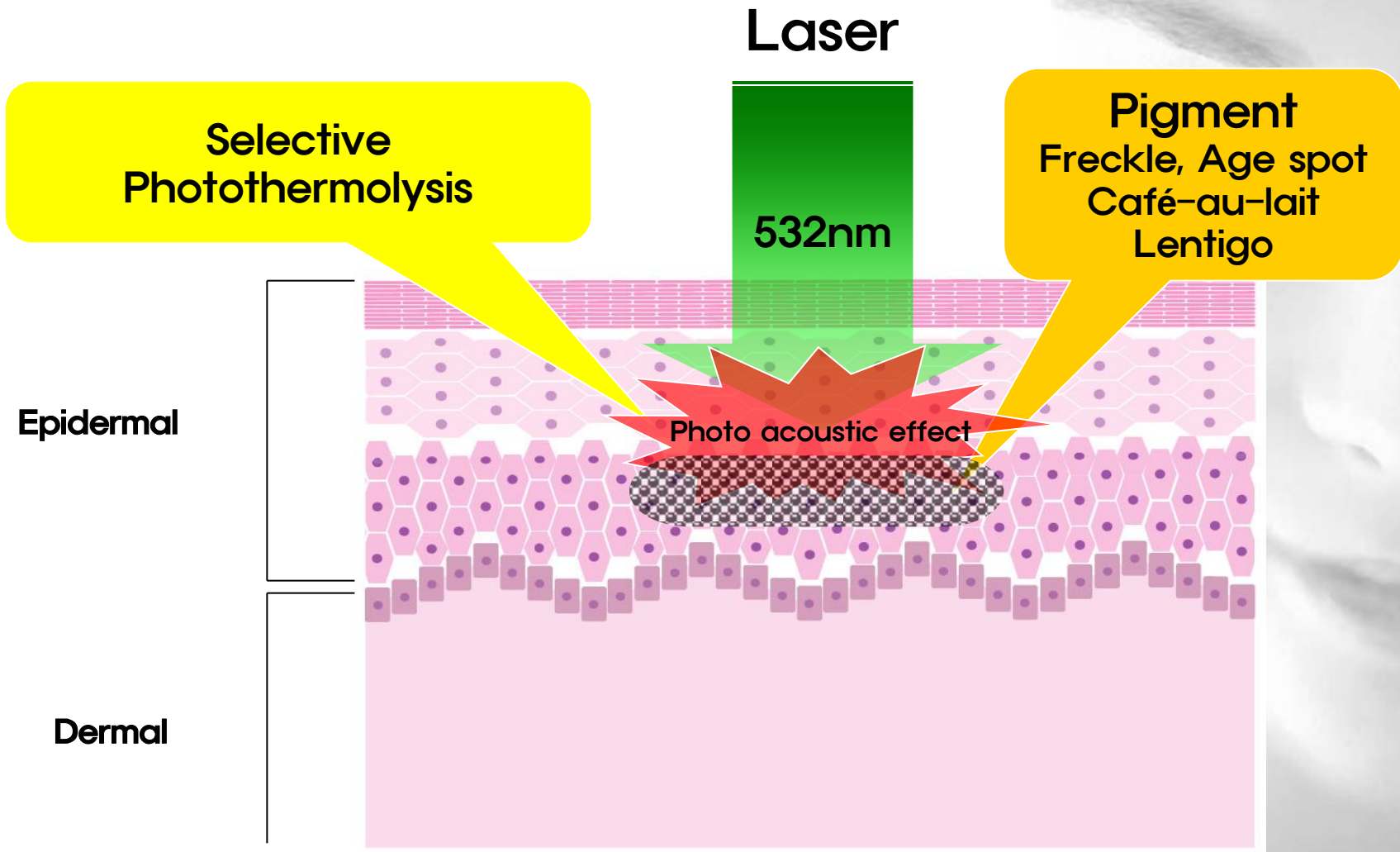
## WON-COSJET ATR

### - Principal of Epidermal Lesion

- With deep skin penetration depth, 1064nm treats pigment lesion in dermal layer  
(Nevus Ota of, ABNOM, Tattoo, Melasma)
- With high melanin absorption, 532nm treats pigment lesion in epidermal layer  
(Melasma, Freckle, Age spot, Lentigo)
- Aging improvement using Genesis Technique (FR MODE)  
(Wrinkle, Pore size, Whitening)



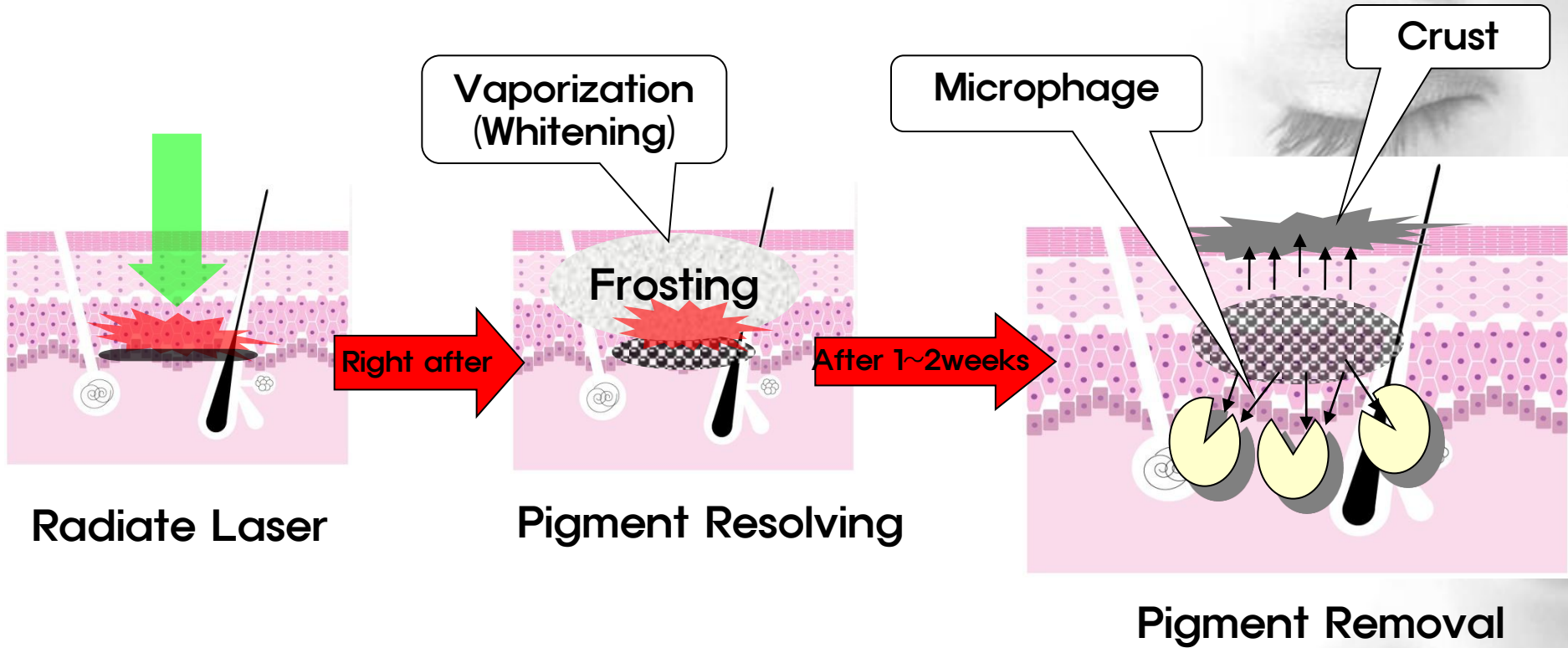
# WON-COSJET ATR



Treatment Process of Epidermal Lesion

# WON-COSJET ATR

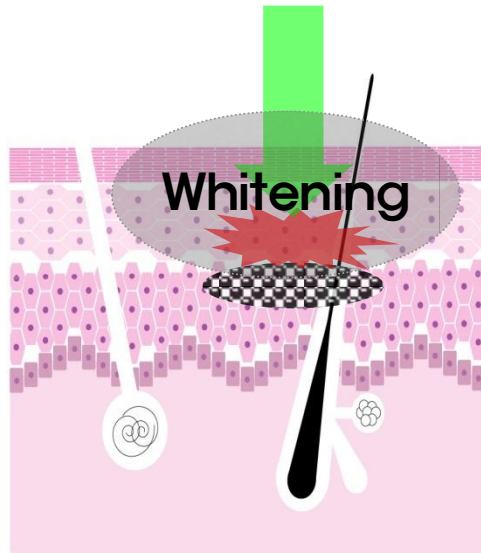
## - Treatment Process of Pigment Lesion



Pigment Lesion in Epidermal (532nm)

# WON-COSJET ATR

## - Whitening (Frosting)



Vaporization from  
Pigment

## Normal Whitening



### ■ Ideal Whitening Response

- Shallow whitening is observed right after treatment.
- Erythema is observed around pigment but the pigment point remains same as before.



# WON-COSJET ATR



Cosjet ATR  
532nm / 0.9J  
Freckle



Right after Whitening

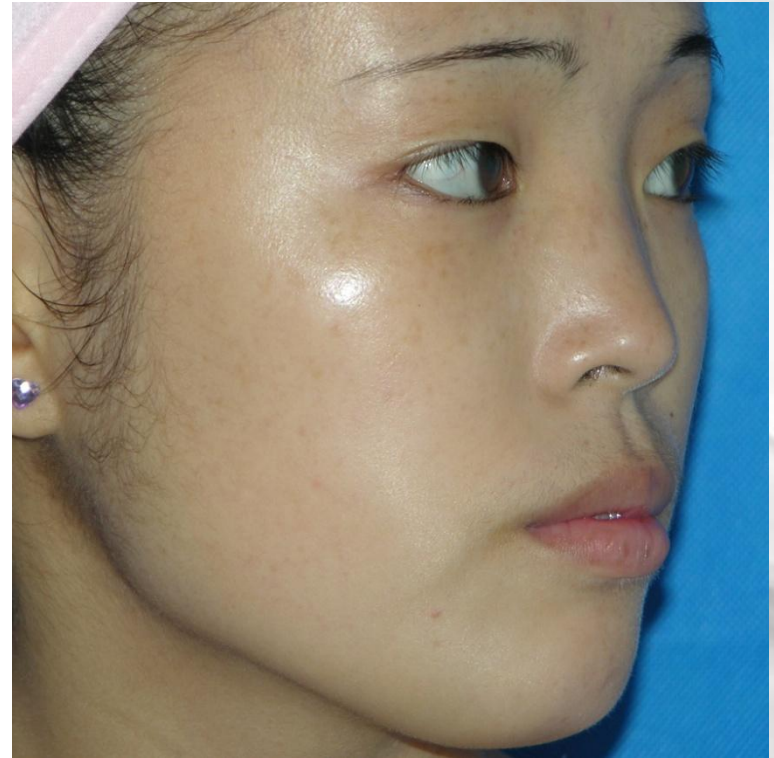


1 week after Treatment

## WON-COSJET ATR



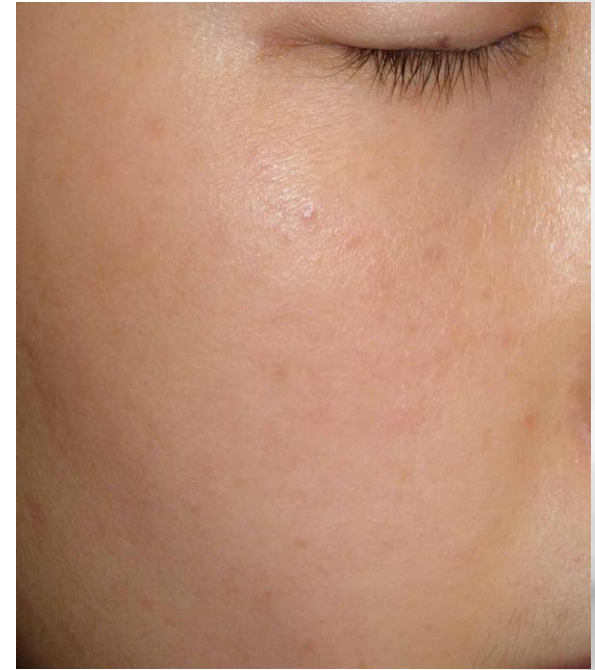
Cosjet ATR  
532nm/O.9J  
Freckles



2 weeks after Treatment  
(1 time)



# WON-COSJET ATR

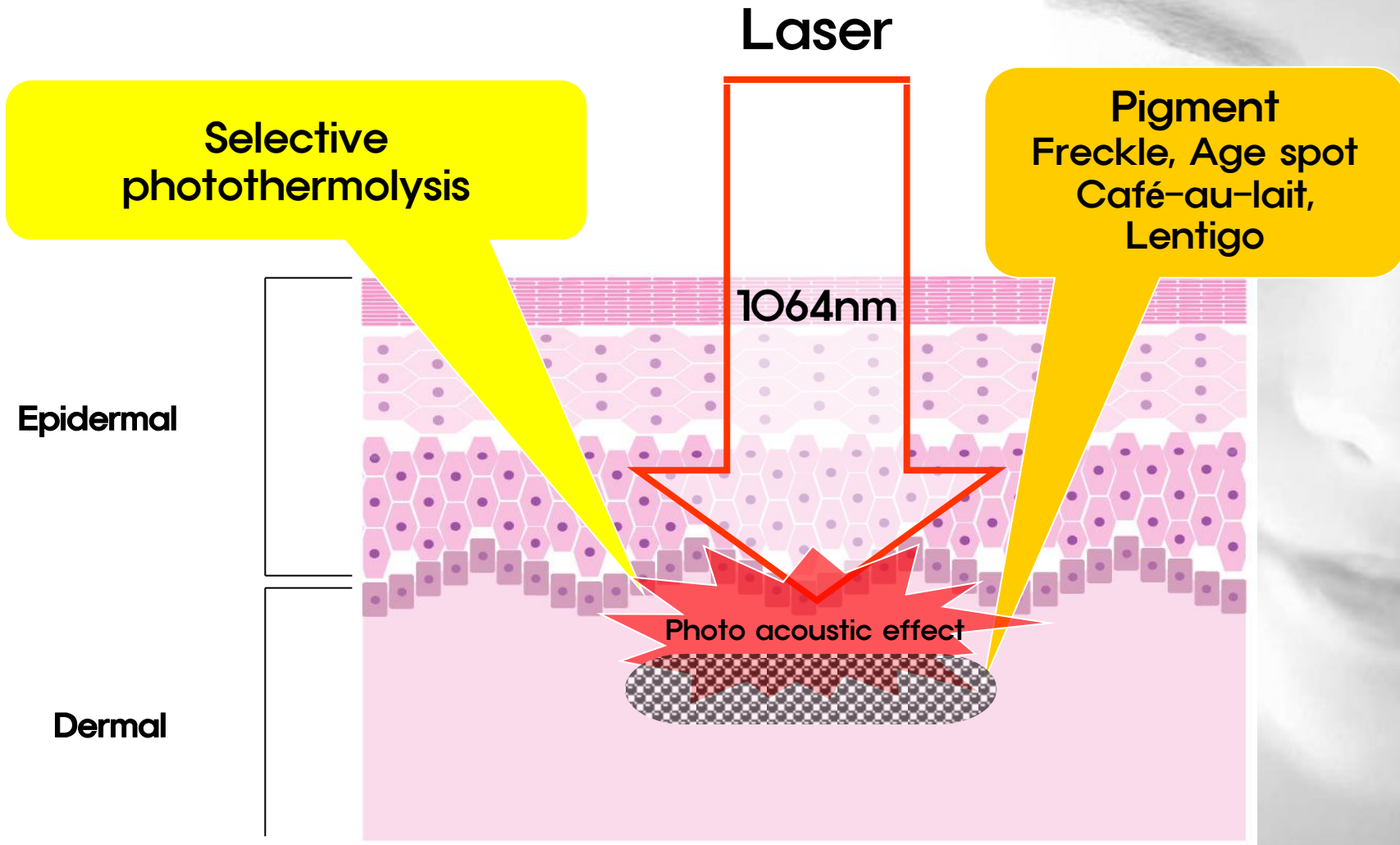


Before treatment

2 weeks after IPL treatment

Cosjet ATR  
532nm/O.9J  
Freckles

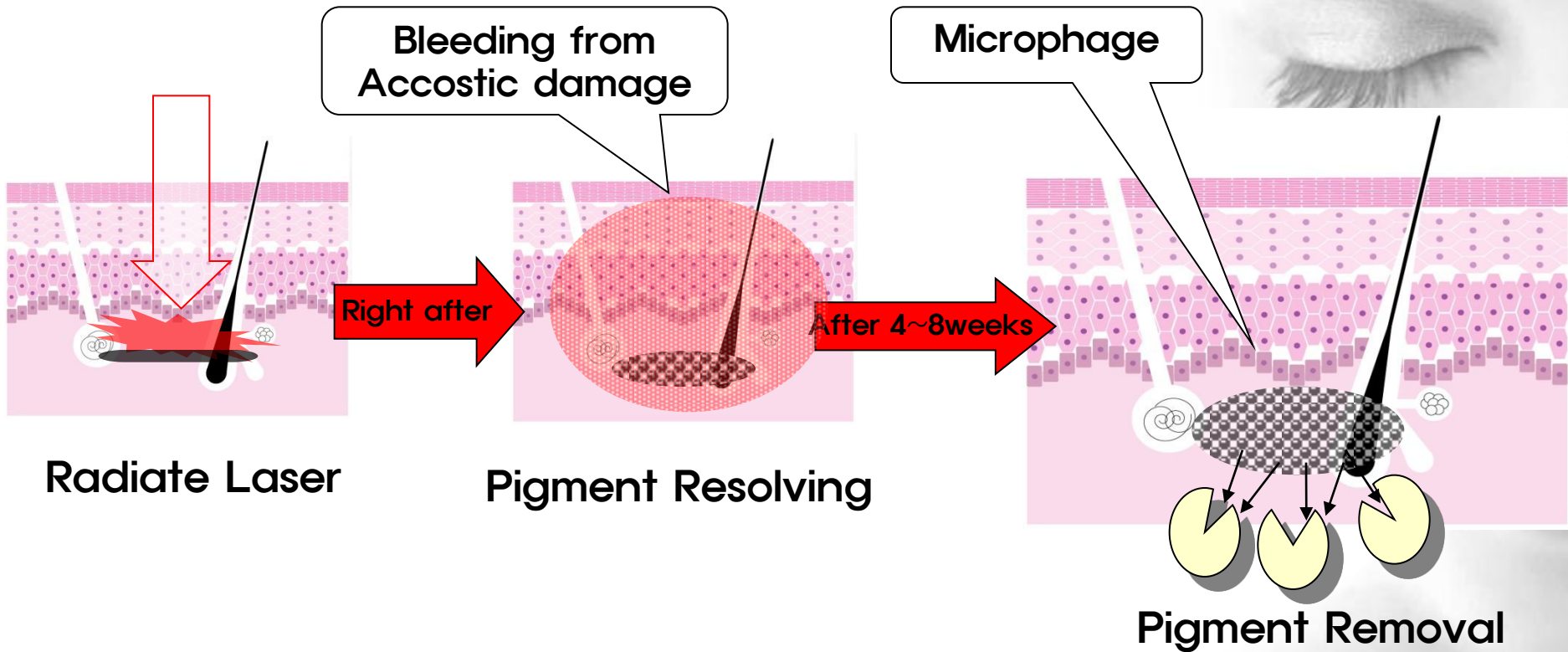
# WON-COSJET ATR



**Treatment Process of Dermal Lesion**

# WON-COSJET ATR

## - Treatment Process of Pigment Lesion



Pigment Lesion in Dermal (1064nm)



# WON-COSJET ATR



Cosjet ATR  
1064nm/4.5J  
Tattoo



2 weeks after Treatment  
(1 time)

## WON-COSJET ATR



Cosjet ATR  
1064nm/7.5J  
Nevus of Ota



6 weeks after Treatment  
(1 time)

## WON-COSJET ATR



Cosjet ATR  
1064nm/6.OJ  
Amateur Tattoo



6 weeks after Treatment  
(1 time)



## WON-COSJET ATR

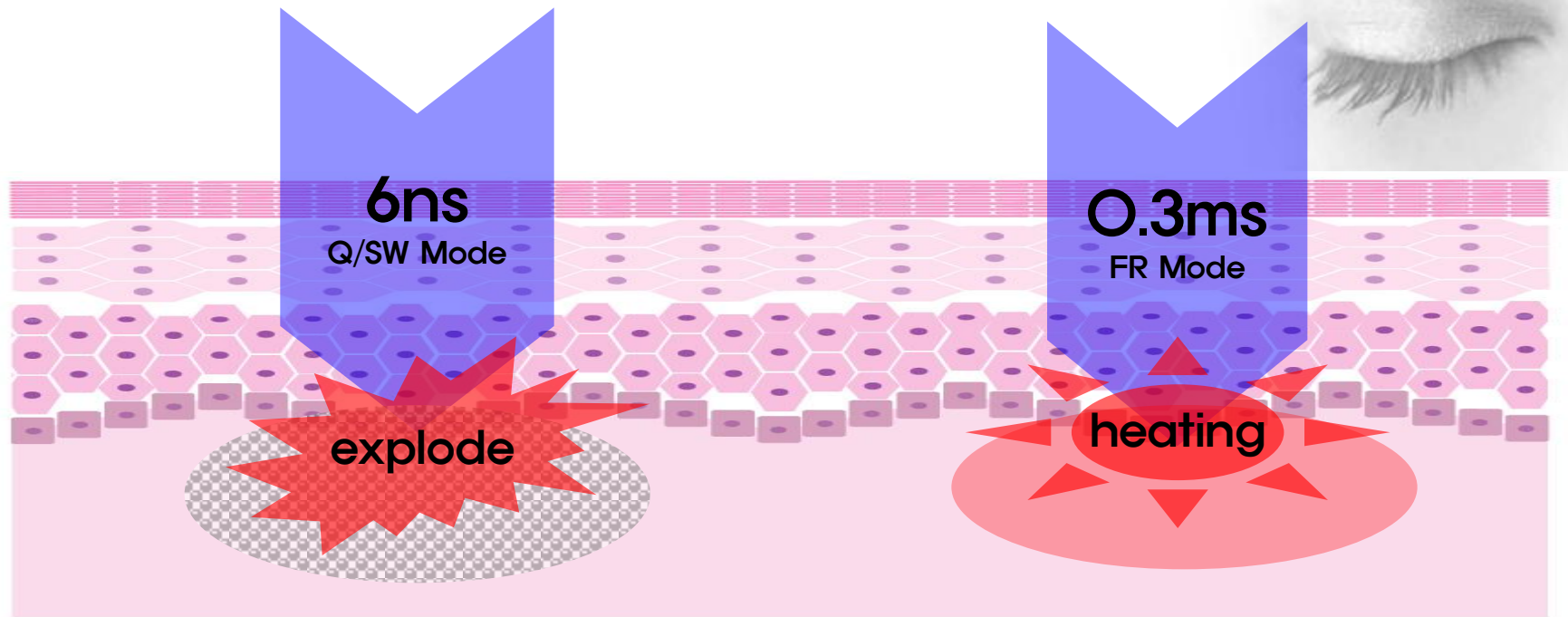
### - PIH

- Concept of PIH (Post Inflammatory Hyper-pigmentation)
  - Hyper pigmentation against external energy
- Prevention and Treatment of PIH
  - Use appropriate Energy
  - Maintain notice after treatment
  - Apply whitening cream (hydroquinone)
  - Pigment treatment using Cosjet Laser Toning
  - Low down time using Cosjet laser Toning



# WON-COSJET ATR

- Q/SW Mode & Genesis Mode



The purpose of  
chromophore  
breakdown

Pigment lesion

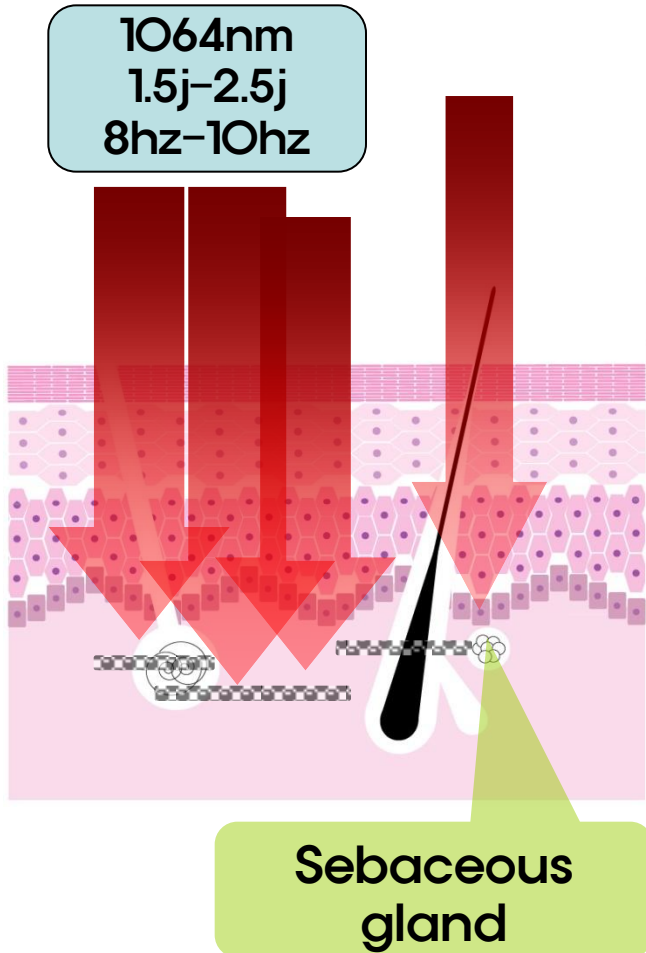
The purpose of  
increasing chromophore  
temperature

Skin Rejuvenation

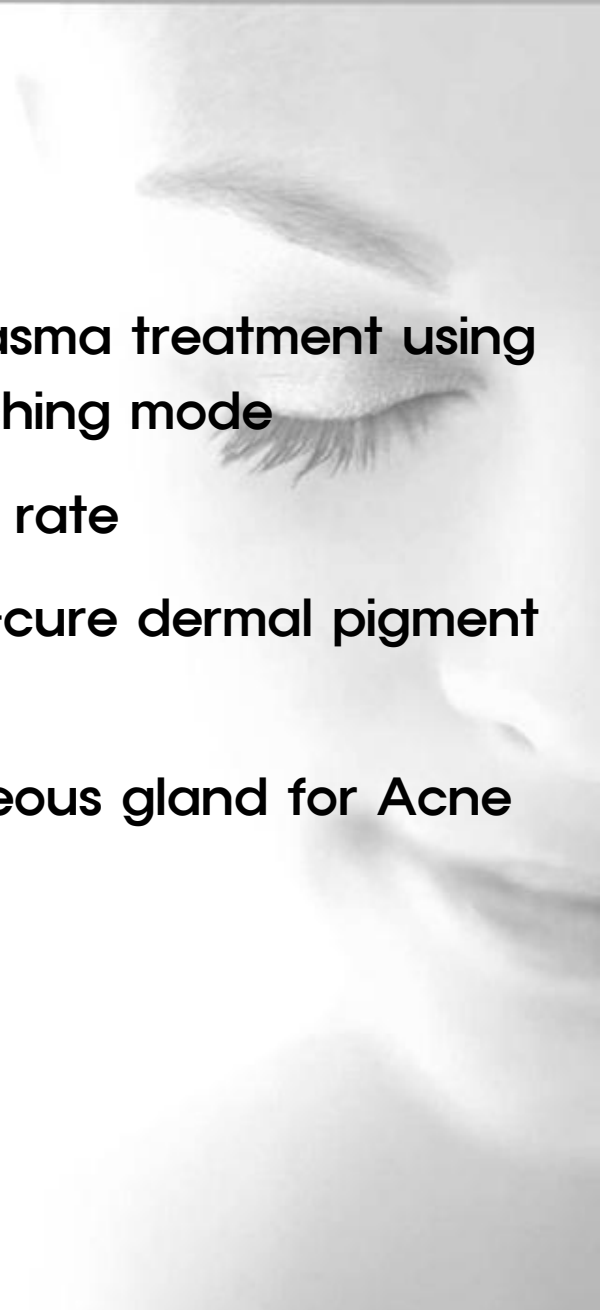


# Cosjet Laser Toning

## - What is Cosjet Laser Toning?



- New concept melasma treatment using low output q/switching mode
- Low reoccurrence rate
- Good for hard-to-cure dermal pigment lesion
- Stimulating sebaceous gland for Acne improvement
- NO PAIN
- NO DOWN TIME
- NO SIDE EFFECT



# Cosjet Laser Toning

## - Step of Cosjet Laser Toning



Maintenance Therapy

# Cosjet Laser Toning

## - Cosjet Laser Toning

- Mode : Q/Switching 1064nm
- Spot : 6-8mm
- Frequency : 8-10 Hz
- Fluence : 2.0J +- 0.5J

### Step1 : Energy Adjustment

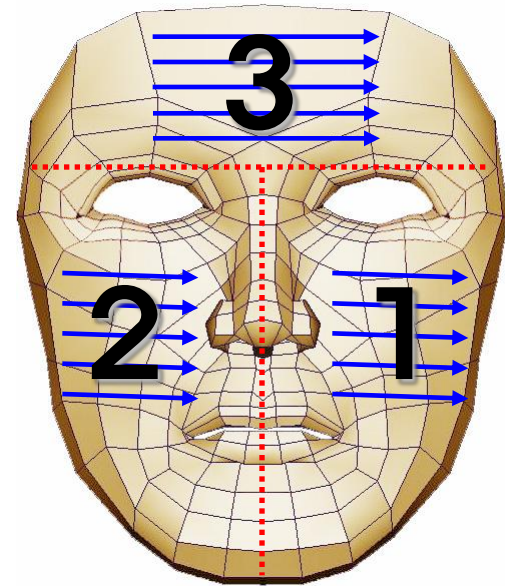
Increase energy for light skin  
Decrease energy for dark skin

### Step 2 : Treatment Area

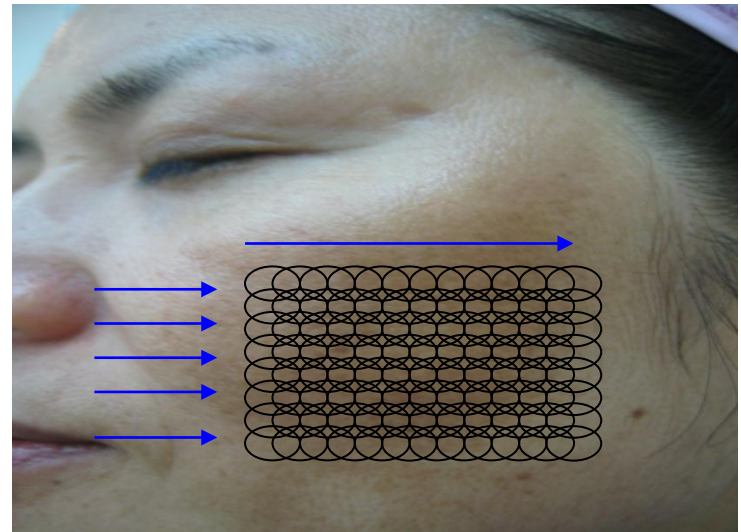
Treat with tri-section like pic.1  
Treat each section with overlapping  
and spiral motions.  
Use more focusing on lesion.

### Step 3 : End point (3-5pass)

Check skin condition periodically during treatment.  
The end point is erythema.



Pic.1



Pic.2

# Cosjet Laser Toning

- Combination with Cosjet Laser Toning

Cosjet SR  
(Long pulse Nd:YAG 1064/1320nm)  
Photo-RF  
Interval : 1 week

Soft Peel  
& Genesis  
Interval : continuous  
treatments

IPL  
Interval : 3 days

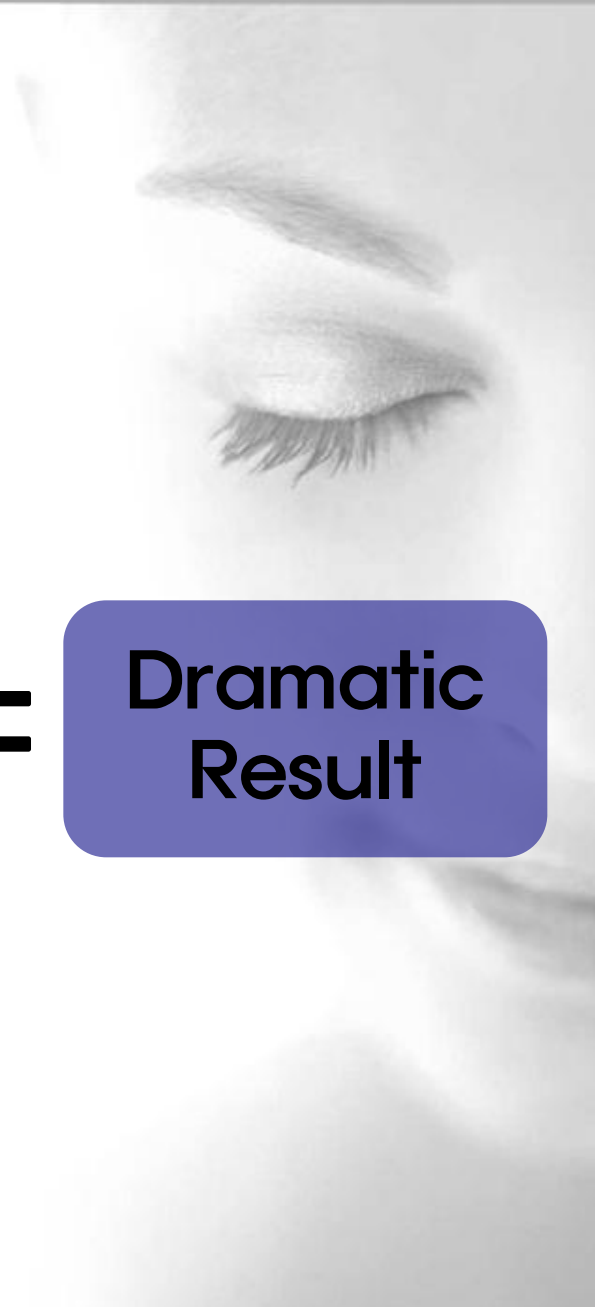
Long pulse ND:YAG  
Interval : 1 week

COSJET  
Laser  
Toning



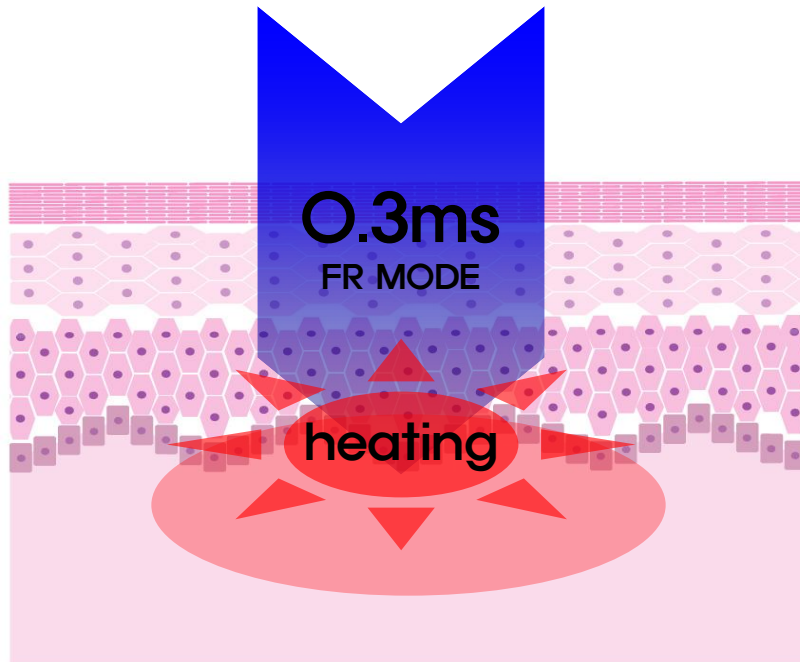
Dramatic  
Result

Good result through combination  
With Cosjet Laser Toning



# Cosjet Laser Toning

## - Cosjet Laser Toning + Genesis Technique



Transmission of Thermal  
Energy to Dermal Lesion

Collagen Remodeling

Wrinkle / Pore size / whitening

- Mode : 1064 FR Mode
- Flunecce : 10-14 J
- Frequency : 8-10 Hz
- Spot Size : 3-4mm
- After laser Toning, concentrate laser radiation around nose, forehead and eye fringes.
- Allow patients to feel heating of skin.
- The end point is erythema.

## Cosjet Laser Toning

### - Cosjet Laser Toning for Melasma (1)



After 3 times



- Mode : 1064 Q/Switched
- Fluence : 2.0J-2.5J / 8HZ
- End Point : Mild Erythema



## Cosjet Laser Toning

### - Cosjet Laser Toning for Melasma (2)



After 2 times



- Mode : 1064 Q/Switched
- Fluence : 1.8J / 8HZ
- End Point : Erythema

## Cosjet Laser Toning

### - Cosjet Laser Toning for Melasma (3)



After 6 times



- Mode : 1064 Q/Switched
- Fluence : 2.0J-2.5J / 8HZ
- End Point : Mild Erythema

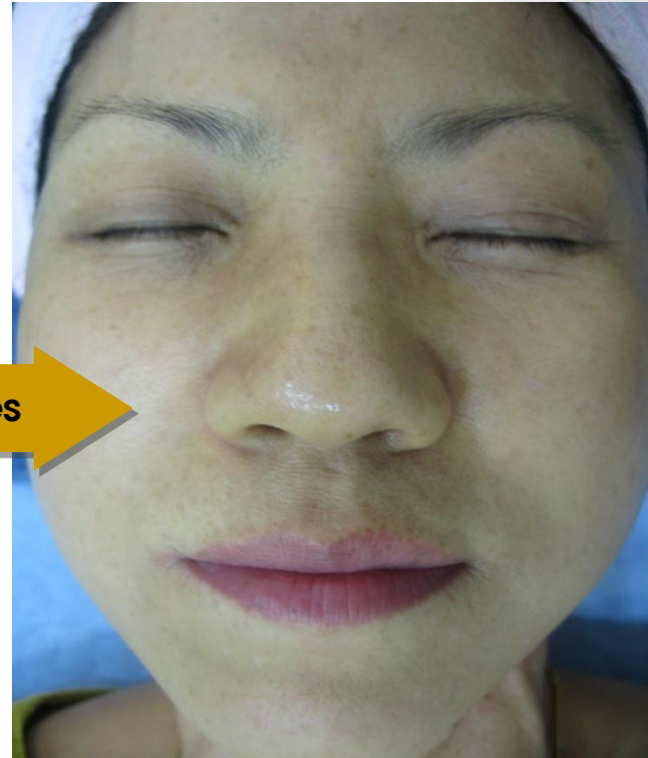


## Cosjet Laser Toning

### - Cosjet Laser Toning for Melasma (4)



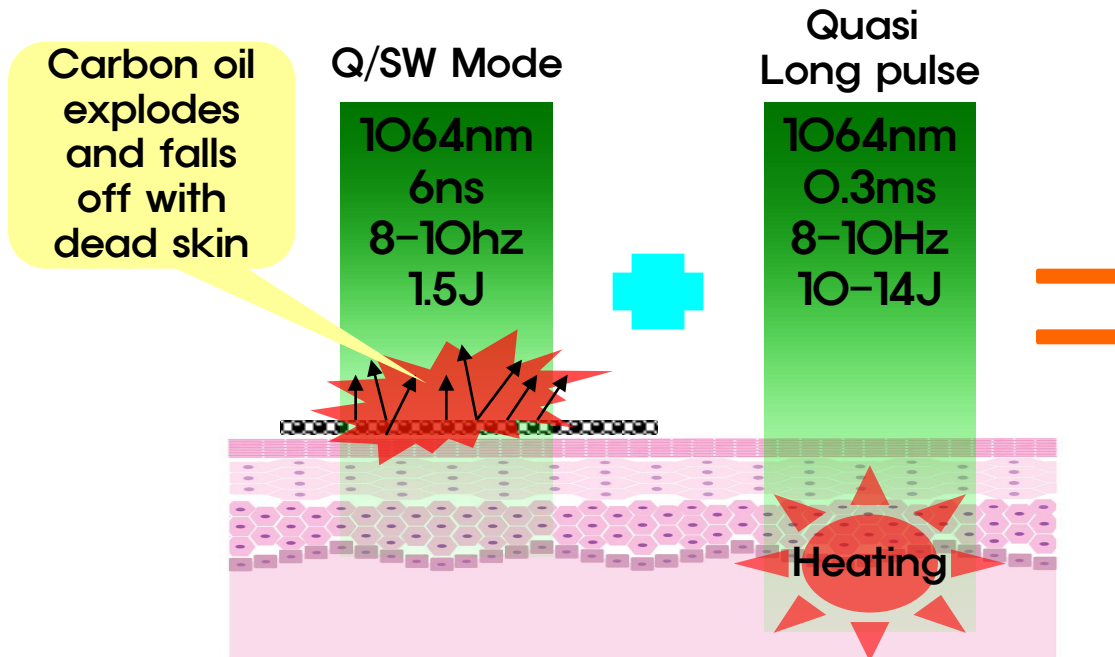
After 4 times



- Mode : 1064 Q/Switched
- Fluence : 2.0J-2.5J / 8HZ
- End Point : Mild Erythema

# Soft Peel & Genesis

- What is Soft Peel & Genesis?



## Characteristics

- Fast result
- No down time
- No pain
- No side effect
- Pore size
- Wrinkle
- Skin Tone
- Acne improvement

**SOFT PEEL (New concept using carbon cream) + Genesis for dermal remodeling**

## Soft Peel & Genesis

### - Process of Soft Peel & Genesis

#### Step 1. Cleansing



- Clean skin surface to remove sebum, etc. For better result, cleansing mask or scrub can be used.





## Soft Peel & Genesis

### - Process of Soft Peel & Genesis

#### Step 2. Carbon cream



Apply carbon cream



After 10~15min

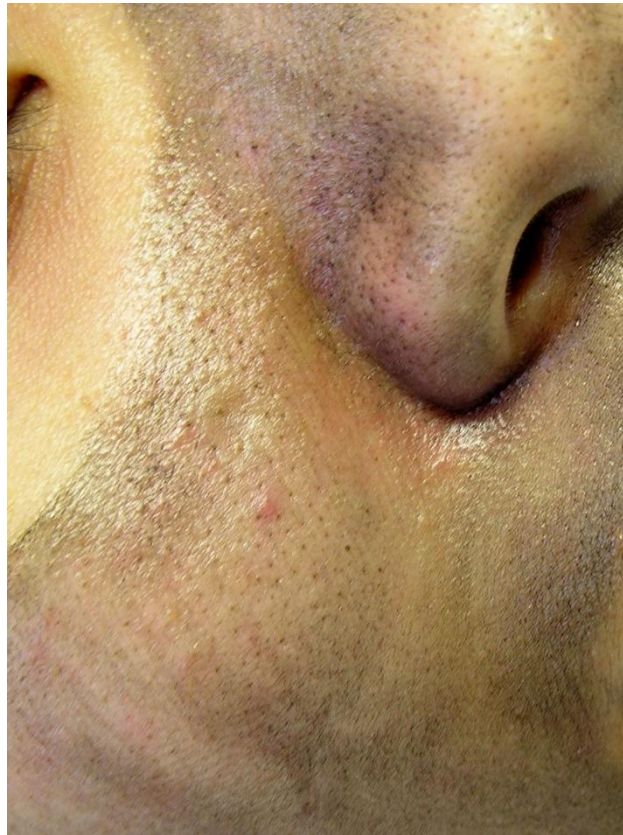
- Apply carbon cream using gauze. Wait for about 10min until carbon cream is absorbed well in pores.

- Tip: Shake carbon cream before using. Place tapes on eyebrows to protect them during the laser operation.

## Soft Peel & Genesis

### - Process of Soft Peel & Genesis

#### Step 3. Absorption of carbon



- After 20min, remove carbon cream with cotton gauze
- Tip: Remove carbon cream on skin surface but leave them in pores.



## Soft Peel & Genesis

### - Process of Soft Peel & Genesis

#### Step 4. Laser operation

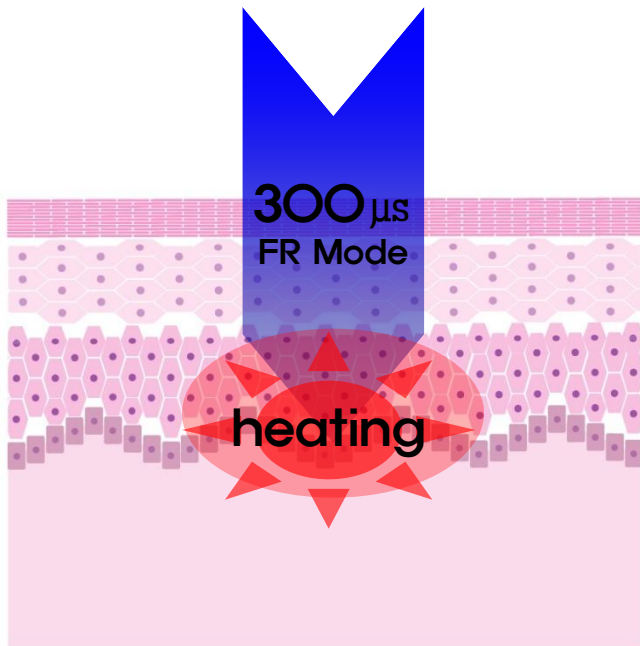


- When operating laser, always wear safety goggles and treatment lab must have warning signs out at the entrance.

## Soft Peel & Genesis

### - Process of Soft Peel & Genesis

#### Step 5. Genesis Technique



- Mode : 1064 FR Mode
- Fluence : 10-14 J
- Frequency : 8-10 Hz
- Spot Size : 3-4mm

Transmission of thermal energy to dermal lesion

Collagen remodeling

- Applications  
Wrinkle/pore size/whitening
- After soft peel, concentrate laser radiation around nose, forehead and eye fringes.  
Allow patients to feel heating of skin.  
The end point is erythema.

## Soft Peel & Genesis

### - Process of Soft Peel & Genesis

#### Step 6. Finalize



- Clean with cleansing cream to remove remaining carbon cream. Remaining oil and carbon can cause skin trouble.
- Notice . Do not use cooling pack or cool washing until heating temperature on dermal skin returns to normal through Genesis technique.



# Soft Peel & Genesis

## - Carbon Cream for Soft Peel

### ■ High Quality Carbon Cream

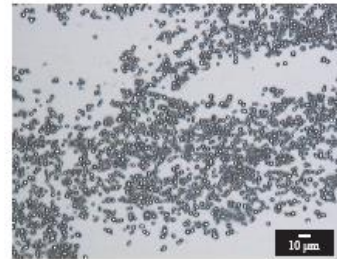
In comparison to other products (20~40 Micron with irregular combination), carbon cream used by Won Technology consists of 10 Micron with regular combination. Stable and safe to use, Won Technology's carbon cream leads to great results when used with laser.

## The comparison of Carbon Creams

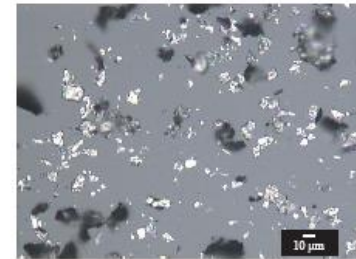
(a standard unit : 10 $\mu$ m)

A : The Carbon Cream of Won Technology

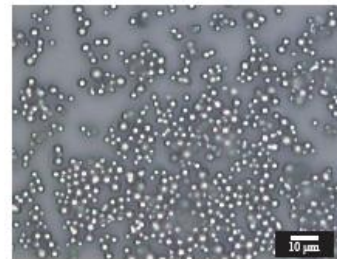
B : Others



A - 1



B - 1



A - 2



B - 2

- Measurer : Lee Ki-Won, Professor of Physics in Kong Ju National University
- Measuring Instrument : Metallurgical Microscope (Nikon, OPTIPHOT-100)

## Soft Peel & Genesis

### - Soft Peel & Genesis Clinical Case (1)



After



- Soft Peel (2.2J) with Carbon
- 8Hz / 6mm
- 8 week interval X 3 times

## Soft Peel & Genesis

### - Soft Peel & Genesis Clinical Case (2)



After



- Soft Peel(2.2J) & Genesis
- 8Hz / 2.0J / Collimated H/P
- 6 week interval X 2 times



## Soft Peel & Genesis

### - Soft Peel & Genesis Clinical Case (3)



After



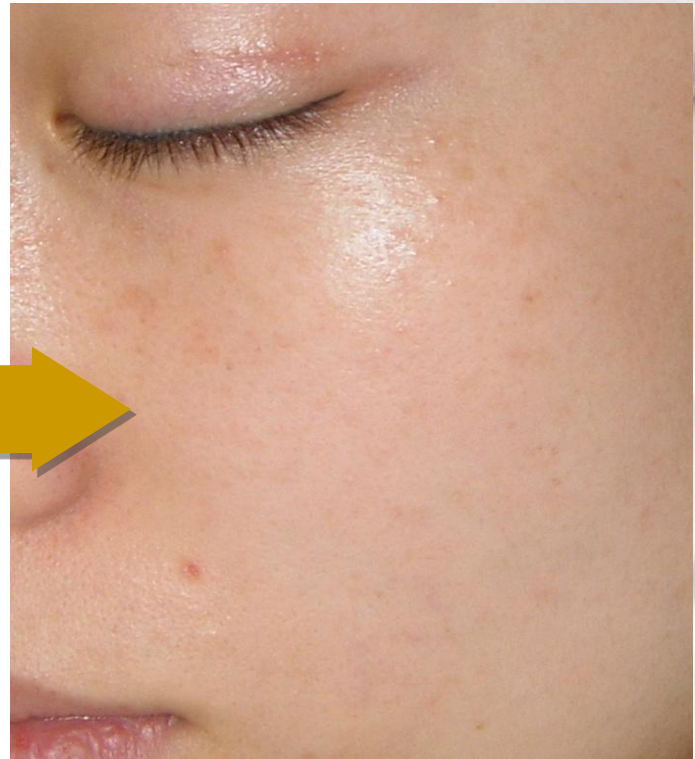
- Soft Peel (2.OJ) with Carbon
- 8Hz / 2.OJ / Collimated H/P
- 5 week interval X 2 times

## Soft Peel & Genesis

### - Soft Peel & Genesis Clinical Case (4)



After



- Cosjet Laser Toning (2.2J) + Soft Peel (2.0J)
- 8Hz / Collimated H/P
- 6 week interval X 5 times



## Soft Peel & Genesis

### - Soft Peel & Genesis Clinical Case (5)



After



- Cosjet Laser Toning (2.2J) + Genesis (14J)
- 8Hz / 6mm / 4mm
- 12 week interval X 8 times

## Soft Peel & Genesis

### - Soft Peel & Genesis Clinical Case (6)



After



- Soft Peel(1.8J) + Genesis(14J)
- 8Hz / Collimated H/P / 4mm
- 4 week interval X 2 times

## Suggestions for Pre/Post-Treatment

### Pre-Treatment

- Avoid suntan before treatment.
- Shave hair in order to prevent energy loss and color fixation.
- Avoid to take photo-sensitizer.
- Apply sun block before treatment.

### Post-Treatment

- Apply antibiotics and ointment prescribed by clinic.
- When washing face, be careful not to disturb treated areas.
- Avoid excessive exercise, sauna and swimming until scab peels off naturally.
- Apply sun block (higher than SPF 30) after scab falls off in order to prevent PIH.

