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*All New*  
**INTRAcel™**

Treatment Guideline

V 2.1

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## **1 Application**

Treatments improve skin texture, acne, acne scars, scars, fine wrinkles, deep wrinkles, large pores, stretch marks and telangiectasia as well as tighten and lift the skin.

## **2 Contraindications**

### **2.1 Prohibited treatment**

Persons that have any of the following conditions may not be treated:

- Skin infection or diseases excluding acne
- Bleeding disorder
- Patient may have anticoagulant agent (drug)
- Is Pregnant
- Keloid constitution
- Pacemaker (heart-rate device and other pacing technology related device), vascular stent or metal implant
- Skin malignancy

### **2.2 Must consult with a doctor**

Persons that have any of the following conditions must consult with a doctor prior to treatment:

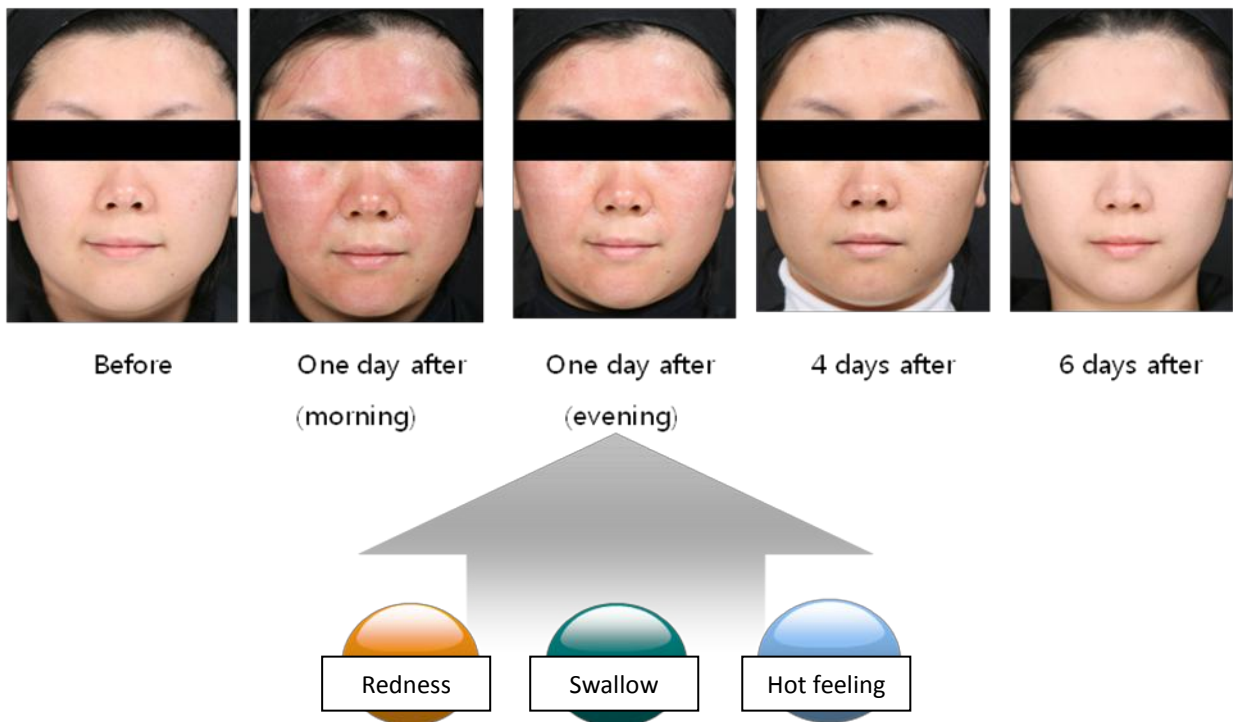
- Malignant disease (excluding skin malignancies)
- Diabetic complications
- High blood pressure
- Melasma
- Hemangioma

### 3 Treatment time

|  | Treatment                   | After care | Total     |
|--|-----------------------------|------------|-----------|
|  <p>Full face treatment</p> | 15~20min.<br>(per 2 passes) | 15min.     | 50~55min. |
|  <p>Local treatment</p>     | 10~15min.<br>(per 2 passes) | 15min.     | 45~50min. |

- Anesthetic cream should be applied prior to starting the treatment.

### 4 Formal reaction after the treatment



- Above photo is normal progress after the treatment. If redness and hot feeling remains, please continuously have cold massage.

## 5 Treatment protocol

### 5.1 Preparation

Prepare the following items: anesthetic cream, sponge, benzalkonium chloride, sterile gloves, cool towel, ice pack, icing roller, mask pack and fluffy pillow (place the pillow under the patient's head to provide relaxation, lessen pain and aid in creating a sense of comfort and safety)

① Cleansing & Eye-washing:

- Before starting the INTRAcel treatment, thoroughly cleans the treatment area to remove all cosmetics.

② Disinfecting

- Disinfect the treatment area using benzalkonium chloride before starting the treatment.

③ Anesthesia

④ Removing the anesthetic cream and disinfecting the treatment area

⑤ Turning on the device

⑥ Set the INTRAcel Tip and adjust the needle length

- The needle length that should be used depends on the area and lesion to be treated (0.5mm/0.8mm/1.5mm/2.0mm).

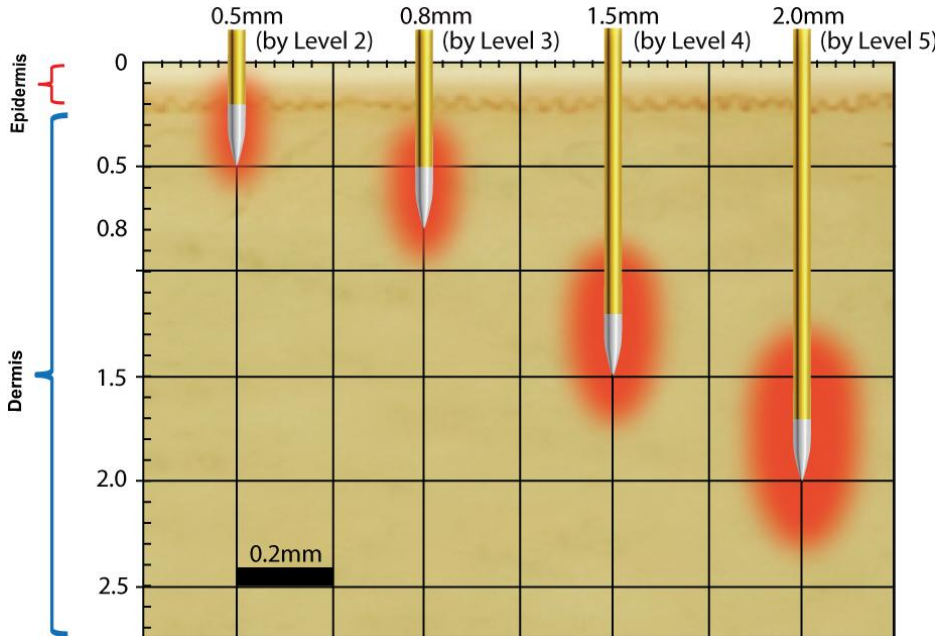
Treatment know-how

After installing the INTRAcel Tip, press inside the connector line with your finger. (The connector line could become an obstacle during treatment)



## 5.2 Treatment levels

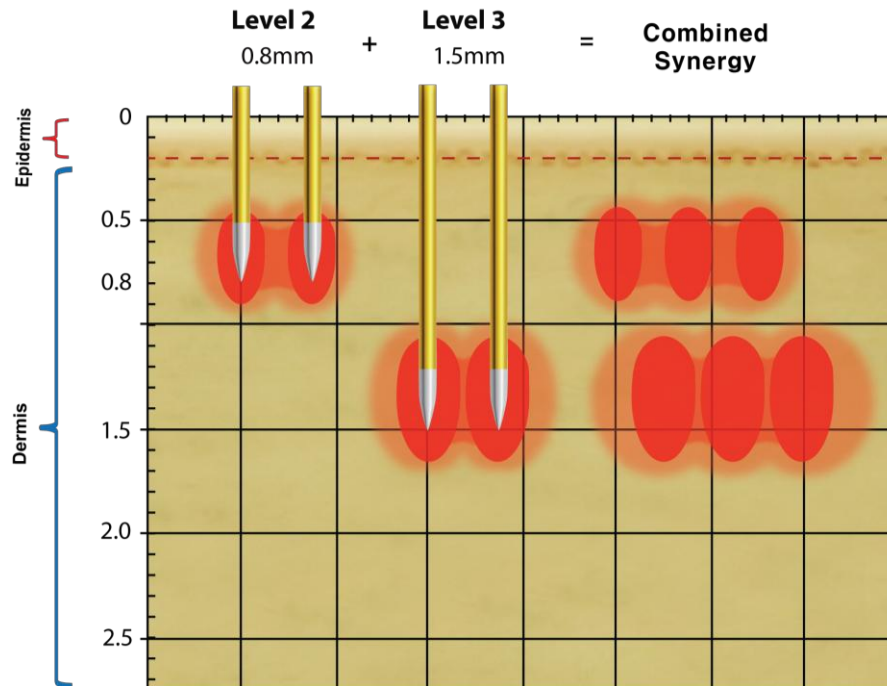
- ① On the T Level (=Test Level), no RF will be emitted, only needling.
- ② Refer to the 'Tissue denaturation by level & depth' figure below to determine the proper treatment energy.



### NOTE

Using a high energy level with a short needle depth can damage the epidermis and may cause pigmentation. We recommend a needle length of at least 1.5mm when using at level 4-5

- ③ For better results, an additional 1-2 passes can be added in some part if it necessary.
- ④ For example, to obtain a combined synergetic effect, it may be better to treat with 2 passes at different depths as shown in the figure below.



### 5.3 parameter

#### 5.3.1 User Mode (CUT mode)

| W msec | 5   | 8   | 10  | 12  | 15  | 18  | 20  | 22  | 25  | 28  | 30  | 32  | 35  | 38  | 40  |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 40     | 0.5 | 0.5 | 0.5 | 0.5 | 1.5 | 2.5 | 2.5 | 2.5 | 3   | 3.5 | 3.5 | 4.5 | 4.5 | 4.5 | 5   |
| 50     | 0.5 | 0.5 | 1   | 1.5 | 2.5 | 2.5 | 3   | 3.5 | 4   | 4.5 | 4.5 | 5   | 5.5 | 5.5 | 5.5 |
| 60     | 0.5 | 0.5 | 1.5 | 2.5 | 2.5 | 3.5 | 3.5 | 4.5 | 4.5 | 5.5 | 5.5 | 5.5 | 6.5 | 6.5 | 6.5 |
| 70     | 0.5 | 1.5 | 2.5 | 2.5 | 3.5 | 4.5 | 4.5 | 4.5 | 5.5 | 5.5 | 6.5 | 6.5 |     |     |     |
| 80     | 0.5 | 2.5 | 2.5 | 2.5 | 3.5 | 4.5 | 5   | 5.5 | 5.5 | 6.5 | 6.5 |     |     |     |     |
| 90     | 0.5 | 2.5 | 2.5 | 3.5 | 4.5 | 5.5 | 5.5 | 5.5 | 6.5 |     |     |     |     |     |     |
| 100    | 1   | 2.5 | 3   | 3.5 | 4.5 | 5.5 | 5.5 | 6.5 |     |     |     |     |     |     |     |
| 110    | 1.5 | 2.5 | 3.5 | 4.5 | 5.5 | 5.5 | 6.5 | 6.5 |     |     |     |     |     |     |     |
| 120    | 1.5 | 2.5 | 3.5 | 4.5 | 5.5 | 6.5 | 6.5 |     |     |     |     |     |     |     |     |
| 130    | 2.5 | 3.5 | 4.5 | 4.5 | 5.5 | 6.5 |     |     |     |     |     |     |     |     |     |
| 140    | 2.5 | 3.5 | 4.5 |     | 5.5 | 6.5 |     |     |     |     |     |     |     |     |     |
| 150    | 2.5 | 3.5 | 4.5 |     | 5.5 | 6.5 |     |     |     |     |     |     |     |     |     |
| 160    | 2.5 | 4.5 | 5   |     | 5.5 | 6.5 |     |     |     |     |     |     |     |     |     |
| 170    | 2.5 | 4.5 |     |     | 5.5 | 6.5 |     |     |     |     |     |     |     |     |     |
| 180    | 2.5 | 4.5 |     |     | 5.5 | 6.5 |     |     |     |     |     |     |     |     |     |
| 190    | 2.5 | 4.5 |     |     | 5.5 | 6.5 |     |     |     |     |     |     |     |     |     |
| 200    | 3   | 5   |     |     | 5.5 | 6.5 |     |     |     |     |     |     |     |     |     |
| 210    | 3.5 |     |     |     | 5.5 | 6.5 |     |     |     |     |     |     |     |     |     |
| 220    | 3.5 |     |     |     | 5.5 | 6.5 |     |     |     |     |     |     |     |     |     |
| 230    | 3.5 |     |     |     | 5.5 | 6.5 |     |     |     |     |     |     |     |     |     |
| 240    | 3.5 |     |     |     | 5.5 | 6.5 |     |     |     |     |     |     |     |     |     |
| 250    | 4   |     |     |     | 5.5 |     |     |     |     |     |     |     |     |     |     |

Length : 1243 um  
Length : 812 um

12W-100ms

Length : 1443 um  
Length : 840 um

32W-50ms

<Tissue Interaction at Depth 1.5mm >

- Parameter may vary by the condition of patient or treatment.
- Please be patient as setting gets close to the darker side.
- User mode is strongly recommended to use after various experience.

### 5.3.2 Coagulation mode

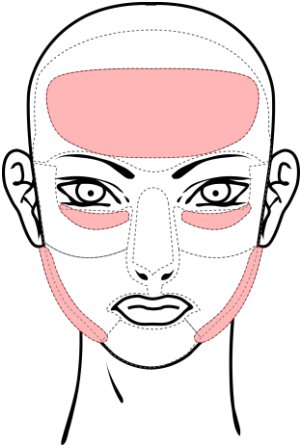
| LEVEL   | RF Time (ms) | Watt     |
|---------|--------------|----------|
| T Level | 0            | 0        |
| 1 Level | 40(30)       | 12.5     |
| 2 Level | 50           | 12.5     |
| 3 Level | 80           | 12.5     |
| 4 Level | 100          | 12.5     |
| 5 Level | 50           | 32       |
| 6 Level | 50(40)       | 40.5(50) |
| 7 Level | 60           | 40.5     |

## 5.4 Cautions


### 5.4.1 Precautions

- Doctors should wear sterile gloves to avoid spreading bacterial infections.
- Please inform patient who are taking drugs for cardiac disorders, hyperlipidemia drugs, hypertension drugs or aspirin that they will have more bleeding than a normal person.
- Persons who develop folliculitis after the 1<sup>st</sup> treatment as well as persons who already have an inflammation or who develop inflammations easily need to be seen by a doctor regarding the possible need for an **antibiotic prescription before the treatment.**
- As it is easy to accidently step on the foot switch, the switch should be kept in a safe place.

#### 5.4.2 Cautions regarding INTRAcel treatments



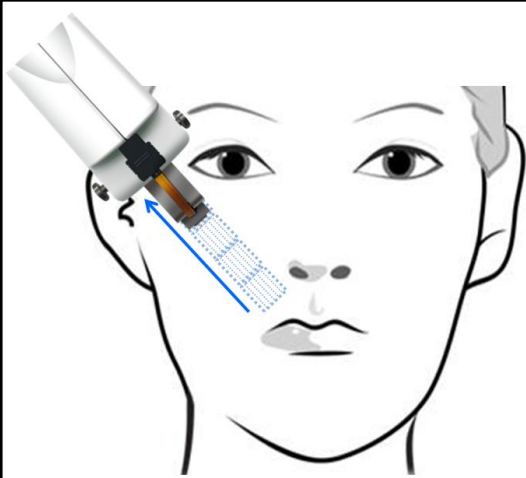
- Bruising may occur if a needle length longer than 0.8mm is used in areas where the bone lies just below the skin (forehead, chin and area around the eyes).
- Bruising may occur around the eyes even when using a needle length of 0.8mm if the needle directly penetrates a vessel.



- When treating the nose, use your free hand as shown in the picture on the left. (Needles should be inserted into the skin vertically)

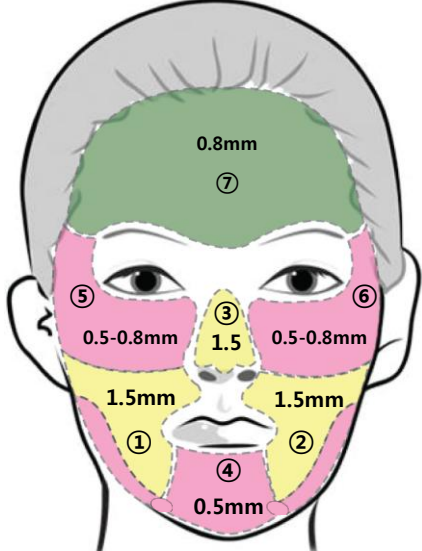
### 5.5 Treatments for various indications

#### 5.5.1 Treatment direction



- **Treatment direction**  
Tissue contracts along the flow of +/- current.  
Therefore, if the handpiece is held as shown in the figure on the left and moved in the direction indicated by the blue arrow, skin tightening will be more effective.

### 5.5.2 Basic treatment (full face)



**Needle length  
& Treatment procedure**

- Recommended Level : Level 2-3
- The basic treatment is **1 pass with a 50% overlap**. [However, for better results, 1 ~2 additional passes can be added.]
- We recommend a needle length of 0.8mm when treating the forehead, jaw and areas near the eyes and a needle length of 1.5mm for the cheeks and nose. [Needle length recommendations may vary depending on the patient's skin condition]



### CAUTION

- ✓ Make sure the handpiece is held in a horizontal position and is in full contact with the skin
- ✓ Apply a proper pressure to the skin while administering the shots.

5.5.3 Acne/Pores/Scars



● **pore**

Level: 3-4 (Bipolar) / Depth: 0.8-1.5mm

Pass: 1-3pass (50% overlap)



● **Acne**

Level: 3-4 (Bipolar) / Depth: 0.8-1.5mm

Pass: 1-3pass (50% overlap)



● **Acne Scar**

Level: 3-4 (Bipolar) / Depth: 0.8-1.5mm

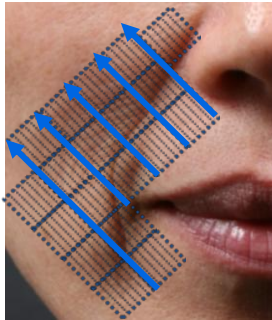
Pass: 1-3pass (50% overlap)



**CAUTION**

We recommend a needle length of more than 1.5mm when using at level 4-5.

### 5.5.4 Lifting / Tightening / Wrinkles

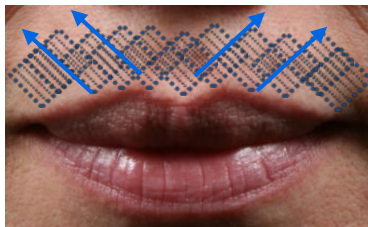


#### ● Nasolabial folds

Level: 3-4 (Bipolar)

Depth: 1.5mm

Passes: 1-2 (with 50% overlap)

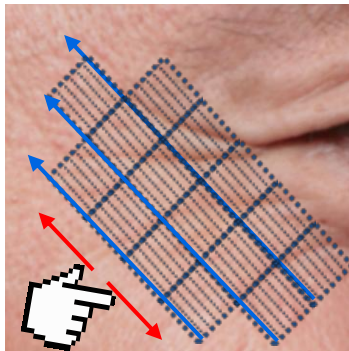


#### ● Lip wrinkles

Level: 2-3(Bipolar) /Depth: 0.8mm

Passes: 1 (with 50% overlap)

: **Lip wrinkles should be treated slowly and carefully** because the area around the lips is very sensitive.



#### ● Crows feet

Level: 2-3(Bipolar)

Depth: 0.8mm

Passes: 1-2  
(with 50% overlap)

Level: 1(Bipolar)

Depth: 0.5mm

Passes: 1-2  
(with 50% overlap)

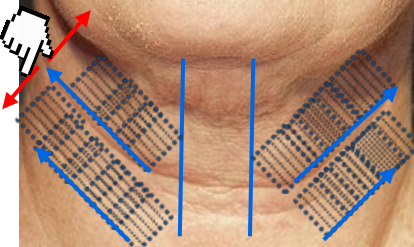
: **Eye wrinkle should be treated slowly and carefully**

To more easily treat deep wrinkles around the eyes  
: stretch the skin in the direction indicated by the red arrow


### Note

- ✓ To reduce the pain, meticulously apply anesthetic cream to the wrinkle treatment area before starting the treatment.
- ✓ Using the icing roller can help reduce the pain felt by the patient.

### 5.5.5 Neck treatments




**● Neck treatments**  
Level: 3-4 (Bipolar) / Depth: 0.8-1.5mm  
Passes: 1-3 (with 50% overlap)  
: Treat the area in the direction indicated by the blue arrows.  
: To more easily treat deep wrinkles, stretch the skin in the direction indicated by the red arrows.

 **CAUTION**

- ✓ Treating vocal cords requires special care. When performing such treatments, it is recommended not to use a needle length longer than 1.5mm.
- ✓ Downtime(Recovery time) could about a week because the skin around the neck is thin and dry.

### 5.5.6 Stretch Marks





**● Stretch Marks**  
Level: 3-5 (Bipolar) / Depth: 0.8-2.0mm  
Passes: 2-3  
: Red stretch marks are a good target for INTRAcel treatment.  
: White stretch marks will require several more treatments.

 **CAUTION**

- ✓ Treatment times for stretch marks may vary depending on the patient's condition and the treatment area.
- ✓ Bruise may occur on bone area such as forehead,

## 5.6 Monopolar Treatment

**CAUTION**



Down Time : 24 hours  
(Bipolar 48 hours)

Interval : 3 weeks  
(Bipolar 45 days)

Since Monopolar provides larger denaturation zone with less energy, monopolar treatment provides faster downtime and several treatment in shorter interval is available.

▲ Post Monopolar treatment

### 5.6.1 Recommend Parameter

● **Monopolar treatment(Please check return pad is completely attached)**

Indication: Tightening

**Monopolar**

Depth : 1.5mm / Pass: 1pass (30% overlap)  
- w x ms = 2400mj (ex) 20W-120ms

Depth : 0.8mm / Pass: 1pass (30% overlap)  
- (ex) 20W-100ms

✓ Impedance value may vary by weather condition.

## 5.7 Superficial RF Rejuvenation

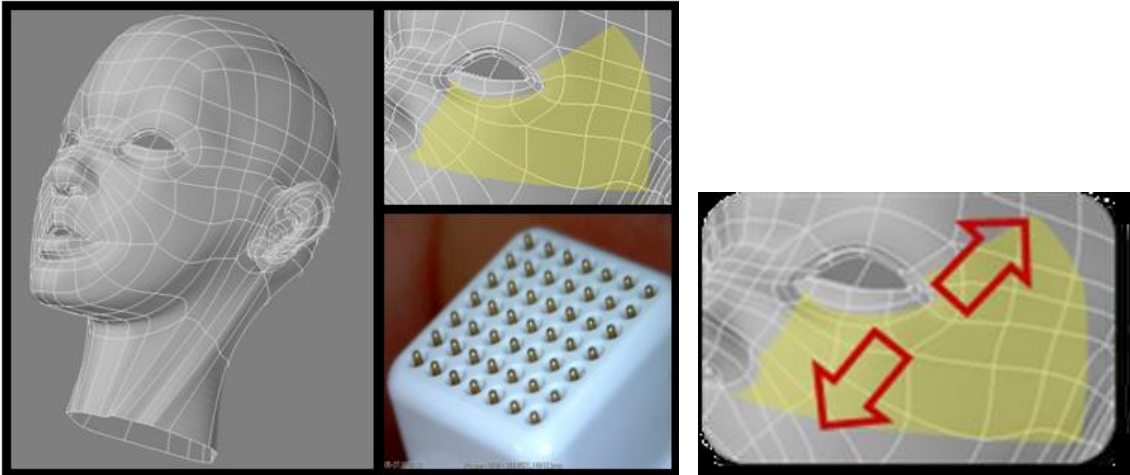
### 5.7.1 General Method

1. Recommend Level : **2~3 Level**

[Caution: Recommend level is basic standard and varies depends on patients. Only for Lesion, the level can be higher.]

2. Treatment Pass : **1 Pass (Excluding Overlab)**  
[ **Overlapping emission could possibly cause burning damage** ]

3. Treatment area



49 NA tip is using for the improvement of crow feet or light face peeling. Pulling the skin up and down tightly for the treatment around eyes is recommended.

4. Times : **more than 5 times**

Interval : **49 NA Tip-> 49 NA Tip : a week**

**Invasive Tip -> 49NA Tip : more than 3 weeks**

**⚠ CAUTION**

**The treatment should apply on dry skin surface.**

On moist skin surface, the Impedance energy is going down and skin burn may occur due to delivering higher energy transmit into the skin.

(If cleansing and boric applied on skin surface, please wait about 10 minutes before the treatment.)

**Tip : Alcohol cleansing could help on shortening skin dry time.**

**Do treatment without applying anesthesia.**

Applying anesthesia ointment could make skin humid. Please do not use anesthesia cream for 4 NA tip treatment. It may cause burn damage on skin surface.

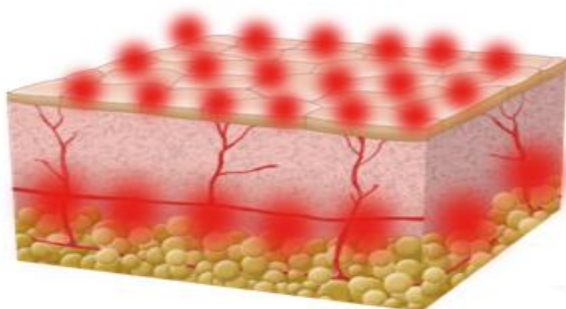
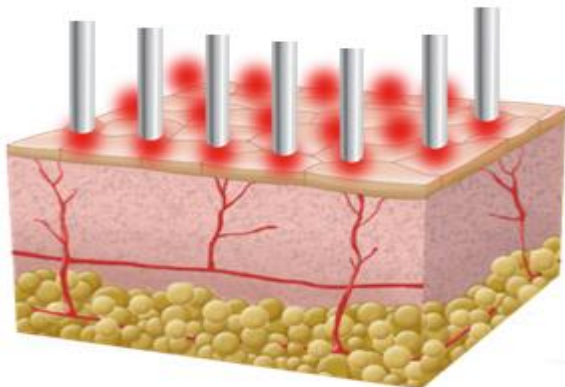
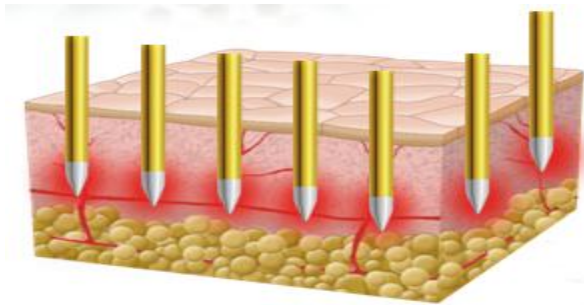
## 5.7.2 TLT (Three Layered Therapy)

### Invasive RF Dermal



+

### Sublative RF Epidermal



#### 1. Invasive RF Dermal

Insulated needles create Coagulative denaturation zone in dermis and causes skin rejuvenation without any damage on epidermis. It applies for face lifting, large

#### 2. Sublative RF Epidermal : 49NA Tip

delivers RF energy on the layer of epidermis and applies for fine wrinkles and skin whitening.

#### 3. COMBINATION

Combination treatment is applicable for several lesions on both layers since RF energy could be delivered on both dermis and epidermis.

## 6. Cooling Method

### 6.1 Cooling

#### 6.1.1 Air Cooling



- Cooling device helps reduce pain, but must be careful for patients' breathing while treating nose area.

#### 6.1.2 Contact Cooling



- Ample ointment application during the treatment or after the treatment by contacting the treated area..

#### 6.1.3 Ice roller



- Cooling ice roller could reduce the pain by rolling icing part on treated skin area.

### Note

- ✓ Minimal vibration may occur due to solenoid type device. Soft cushion would help to minimize the vibration.

## 7. Anesthesia

7.1 Nerve Block - It is recommended for aggressive treatment and for sensitive skin type

7.2 Anesthetic cream

- Please put anesthetic cream to cover full face
- Putting anesthetic cream as close as possible on eye area is recommended to reduce the pain.

### Note

- ✓ Applying warm compress for around 10 minutes could help anesthesia

## 8. After care

8.1 Mummy Mask

- Covering frozen mummy mask with vitamin K on treated area would help reduce redness and provides cooling effect.
- If cooling with mummy mask before modeling mask, it would be helpful to reduce the downtime.

8.2 Modeling mask

- Apply ample before using modeling mask could bring absorption rate.

8.3 Healing Laser

- It helps patient calm skin down after the treatment. Using it after applying stem cel and ample could bring the absorption rate up.

### **Caution & Home-care for a week**

- Placing an ice pack on the affected area is recommended if the patient has strong redness after the treatment.
- Apply a moisturizer and cream whenever the skin in the treated area feels dry.
- Use sunscreen to avoid pigmentation from sun exposure. It is recommended to use a non-chemical cream with an SPF of 10-30.
- Use a facial mask containing moisturizers for 10-15 minutes to help regenerate the skin.
- Do not rigorously scrub any areas of the face.
- Avoid drinking alcohol, and try to eliminate stress.
- Avoid vigorous activity for the first week. (For example: saunas, strenuous exercise and swimming)



## CAUTION

- ✓ Acne can worsen temporarily during the following a treatment because of inflammation or blocked pores caused by post-treatment swelling.
- ✓ Inform patients beforehand not to squeeze their acne in an inappropriate way as it may cause pigmentation.
- ✓ **When consulting with patients, it is necessary to give a full description.**

## 9. Adverse effects

### 9.1 Possible adverse effects

#### ● Infection

Even though the needles are sterilized, bacterial infections are still possible. The treatment equipment must be maintained in a strictly sterilized condition; doctors and staff should also maintain the same level of cleanliness.

#### ● Pigmentation

Pigmentation is caused by peeling the scales that appear after the treatment.

#### ● Folliculitis

Suppurations can form temporarily on the pores in the skin. This occurs because the sebum in the sebaceous gland is suddenly exhausted, which induces a temporary increase in sebum secretions. The condition will clear up quickly.



## 9.2 Side effects from the anesthetic cream

In rare cases, the anesthetic cream can cause a side effect similar to “contact dermatitis” as shown in the pictures below.

For patients who have sensitive skin, first apply a small amount of anesthetic cream onto a small test area of skin. If a reaction similar to the pictures below occurs, do not use the anesthetic cream. Use a different anesthetic method.

Another side effect can be caused by treating an unclean face or using unsterilized tools. The side effect will be identical to the pictures below. It is therefore important to maintain proper cleanliness.



## 10. Adverse effects

If any material gets inside the hand-piece, wipe the hand-piece clean using a cotton swab doused in alcohol. (Refer to the picture below)



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