

## Typical Treatment Parameters

- **Tips** – Morpheus8, Morpheus8 Prime, Morpheus8 Body and Morpheus8 T tips.
- **Depth** – 1, 2, 3, and 4mm for Morpheus8 and Prime tips. 2-7mm for Morpheus8 Body tip. Morpheus8 T tip is 0.5mm fixed depth for resurfacing, when the engine is disabled, and insertion and retraction of the pins is done manually.
- **RF Energy** – Range is from 5-60. Limited range of 5-30 is for Morpheus8 T tip and for 1mm depth of **Morpheus8** and **Prime** tips, as well as Body Tip in Fixed and Burst modes. Always start with lower settings and gradually increase.
- **Cycle Mode** - Pins penetrate and retract from the tissue with every pulse. The Tip is moved to next site with overlap.
- **Fixed Mode** - Pins are continuously deployed at programable depth when footswitch is activated. The pins retract back and energy delivery terminates once the footswitch is released. It is used for **stacking** of pulses.
- **Burst Mode- Is applicable to Morpheus8 Body tip only in 2-3 consecutive depths, one pulse per depth:**
  - At 7mm setting, pulses are emitted at 7, 5, and 3mm
  - At 6mm setting, pulses are emitted at 6, 4, and 2mm
  - At 5mm setting, pulses are emitted at 5, and 3mm
  - At 4mm setting, pulses are emitted at 4, and 2mm

**Burst Mode allows to reduce treatment time, increase uniformity and reduce mechanical damage by applying less penetrations into the skin.**

- **Repetition** – can be set to Single pulse mode or Repetition mode when pulses are delivered automatically with predetermined pulse repetition rate: In **Cycle Mode** – Single, 0.5 and 1pps. In **Fixed Mode** – 0.5, 1.0 and 1.5pps.

Tip Name	Pins No.	*Depth mm	Treatment Areas	**Energy Levels	Mode
Morpheus8 Tip	24	1 - 2	<b>Facial Bony</b> Areas, e.g. Periorbital, and Forehead as well as Hands Dorsum	8 - 15	Cycle
Morpheus8 Tip	24	2 - 3	<b>Facial Soft</b> Tissue, e.g. Cheeks as well as Neck	15 - 40	Cycle/Fixed
Morpheus8 Tip	24	3 - 4	<b>Curved Body</b> Areas, e.g. Knees and Arms	20 - 45	Cycle/Fixed
Morpheus8 Prime Tip	12	1 - 2	<b>Small Facial Bony Curved</b> Areas, e.g. Upper Lip, Eyelids	15 - 25	Cycle/Fixed
Morpheus8 Prime Tip	12	1 - 3	<b>Small Facial Soft Curved</b> Areas, e.g. Nose	20 - 30	Cycle/Fixed
Morpheus8 Body Tip	40	2 - 4	<b>Body Thin Fat</b> Areas (<1cm), e.g. Hips and Decollate	15 - 30	Cycle/Fixed
Morpheus8 Body Tip	40	4-7	<b>Body Thick Fat</b> Areas (≥1cm), e.g. Abdomen, Buttocks and Thighs	15 - 30 30-40	Fixed/Burst Cycle
Morpheus8 T Tip	24	0.5 Fixed	<b>Bony</b> Areas with Surface Irregularities	10 - 20	Manual
Morpheus8 T Tip	24	0.5 Fixed	<b>Soft</b> Areas with Surface Irregularities	20 - 30	Manual

\*Not all information is applicable in all countries. \*\*Energy levels should be as high as tolerated and according to skin response.

- Thin and bony skin like forehead, treat with **2mm** depth, while **4-7mm** depth can be used for thicker body areas.
- For superficial skin resurfacing, use Morpheus8 **T** tip. Focused areas, such as upper lid or upper lip may be treated with a smaller Morpheus8 **Prime** tip of 12 pins. Large body areas may be treated faster and more homogeneously by a larger Morpheus8 **Body** tip with 40 pins, in Cycle/Fixed/Burst modes, as applicable.
- Use the **Burst** Mode on body areas only (4-7mm), with or without deep lesions like cellulite, scars and stretch marks. **DO NOT** use on face and neck and not on body areas with thin skin over bone (knee).
- Treatment may be applied to all skin types. However, when treating **dark skin** restrict energy, starting at energy level 8 and avoid treating, or treat with caution over bone and curved areas, following bleaching regimen (optional).
- Avoid treating over superficial **injected areas** with natural fillers or very recent Botox injections.
- For deeper treatment, use higher RF energy.
- Reduce ~20% energy when working on thin skin/tissue like neck, or on bony area like forehead or jawline.

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- Further ~20% reduction on thin skin over bone, like decollate and back of hands.
- Use **lower energy** for thin skin, dark skin, labia minora/majora and bony areas.
- **Morpheus8 T tip** can be used for the applications related to skin surface ablation and coagulation as an addition to sub-dermal invasive or non-invasive remodeling or as a stand-alone treatment. Stacking is **NOT** recommended!
- Method of **Anesthesia**: Apply topical cream/ointment/gel, preferably high concentration (e.g. 15-18% Lidocaine + 5% Prilocaine), as prescribed by the manufacturer, exercising caution around the eyes. Apply for **30-60min**.
  - Nerve block or local anesthesia may be applied for higher energy, especially with Body tip at 5-7mm depth.
  - Highest energy level is usually applied following invasive procedures that involve tumescent or IV sedation.
- Pre-cooling and **cooling** during the procedure relieve discomfort. Air cooling is recommended as it also dries the skin. If other means of cooling, such as ice packs or ice-filled surgical gloves are applied, make sure that skin remains completely dry, by occasional wiping with a sterile gauze to prevent arcing and to facilitate maximum coupling.

### Pre-Treatment

- Prior to the treatment inspect the tips for any damage.
- Prescribe anti-HSV viral prophylaxis for patients with **history** of Herpes Simplex.
- Remove numbing cream from treatment area – clean skin with cleanser and finish off with 70% rubbing alcohol or preferably with 3-4% Hydrogen Peroxide.
- Start on dry skin with a low energy and adjust settings according to patient tolerance and skin response.
- Always perform **test spots** before treatment! If the spot pattern is uneven, remove the tip and apply a new tip. Following the test, wait for 10-15min for skin types I-III and 24-48h for skin types IV-VI prior to full treatment.

### Treatment Procedure

- Apply the handpiece **perpendicular** to the treated area, with **complete contact** and firm **pressure**. To improve coupling between the skin and the tip, stretch skin on very soft tissue or pinch on bony or thin skin areas.
- Do not slide tip over the treatment area to avoid skin scratching. Make sure to lift and place the tip for complete placement and apply pressure before pulsing.
- Ensure that the patient is **steady** during the procedure. Provide additional support with towels or pillows.
- Use extra caution on **bony areas**: reduce the energy levels, use 1 and 2mm depth settings. Exclude zones with extremely thin skin and high curvature such as upper part of the forehead or temples.
- Move the handpiece to the adjacent area with overlap of approximately **30-50%**.
- **Stacking** with 1-2 additional pulses may be triggered at the same site in Fixed Mode. However, **DO NOT** stack pulses in superficial treatment by Morpheus8 T tip and at 1mm depth of other tips. Refrain from stacking on bony areas such as forehead, periorbital, jawline, etc.
- If gaps are visible after the full area treatment, they may be re-treated immediately.
- Occasionally, additional 1-3 **passes** are necessary to optimize results. Wait until the full area is treated before attempting additional pass, allowing for a delayed response on dark skin. An additional pass may be applied in a different direction to the previous pass/passes, to ensure complete area coverage.
- Acceptable **endpoints** are minimal to substantial erythema and edema, often accompanied by tingling heat sensation. Minor pin-point bleeding is occasionally observed.
- **Clean** the tip, as well as patient's skin with clean dry gauze frequently to remove cell debris, blood or sweat, especially when treating deep or when using Burst mode.
- Cleaning of pins every **~200** pulses with alcohol 70%-soaked pads stretched over the tip will improve coupling and reduce the risk of arcing of RF energy. Cleaning the tip ensures long, homogeneous performance!
- Recommended number of pulses per tip should not exceed **1500** to assure pins' cleanliness/sharpness!

### Post-treatment & Schedule

- **Cooling** the skin post-treatment can reduce discomfort and excessive skin response.
- **Clean** the skin with 3-4% Hydrogen Peroxide which is effective as a bacteriostatic and hemostatic agent.
- Apply healing or antibiotic **ointment**, immediately post treatment for **1-3** days.
- As soon as the craters close (1-3 days), apply moisturizer and sun-screen, and may use make-up.
- **Downtime** is minimal and ranges from 1-5 days, the longer time for superficial treatment and higher energy levels. Some patients hardly show any skin surface response despite future good results.
- Number of sessions vary from **1-4** with intervals of **3-6** weeks, and **maintenance** as needed.

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