Body Contouring with MIGLOU™ FIM Microwave. Webinar Summary.

MIGLOU



Presented by **Dr. Jisoo Kook***, Chief Academic Director of ASLS, It's Me Clinic, Korea — why microwave is the right energy for fat and cellulite, and why MIGLOU's FIM technology matters.

KEY INSIGHTS

What hits where: HIFU makes coagulation points (SMAS), monopolar RF heats the dermis — only microwave bulk-heats the whole fat layer and the septa together.

Cellulite is a septa problem: fibrous septa pull the skin down, so reducing fat alone is not enough. Microwave treats fat and septa in the same pass.

FIM = same power, more arrives: MIGLOU sends 2.45 GHz energy in one direction instead of spreading it, so a few extra degrees reach the fat — enough to cross the fat-cell threshold in real treatment time.

1 Why Microwave for Fat

Every device heats a different layer — know your target

	HIFU	Monopolar RF	Microwave (MIGLOU)
Heating	Focused ultrasound, 65–70°C point	Resistive — current meets resistance	**Dielectric — water molecules spin**
Main target	SMAS (1.5 / 3.0 / 4.5 mm)	Dermis (with surface cooling)	**Fat layer + septa**
Coverage	Points only	Whole dermis	**Whole fat layer (bulk heating)**
For cellulite	Septa are not a point	Cellulite is not in the dermis	**Hits fat and septa together**

Why GHz still goes deep: microwave sends a wave, not a current, so the RF depth rule does not apply. The dry, thin epidermis is almost transparent at 2.45 GHz — the energy passes the skin and builds up in the fat.

2.45 GHz	5°C	< 30°C	0.1 W
MICROWAVE	**CONTACT COOLING**	**SKIN SURFACE**	**LEAKAGE AT 200 W**
dielectric heating of water	on every handpiece	while the fat layer is heated	about a home Wi-Fi router

THREE HANDPIECES — CHOSEN BY AREA SIZE

3 mm	**7 mm**	**12 mm**
LIFTING	**SHAPING**	**SHAPING (BODY)**
Face · double chin	Face · arms · abdomen	Abdomen · thighs · buttocks

Safe by design: the skin stays cool while the fat heats; contact and motion sensors stop energy automatically when the handpiece stops or loses contact.

WHAT FIM CHANGES — AND WHAT IT DOESN'T

Same as any microwave	What FIM (Focused Intensive Microwave) changes
2.45 GHz · dielectric heating of water	**Energy is sent in one direction — not spread to the sides (normal matching leaks)**
Target = fat + septa	**Not focused to a point like HIFU — just kept together, so more of the same power arrives in the fat**

Source: "Body Contouring with Next-Generation Microwave Technology — Why FIM Technology Matters" — H-WEBINAR by Dr. Jisoo Kook*, It's Me Clinic, Korea.

2 Why FIM Matters

Fat-cell death = temperature × time — and on a big area, time is limited

WHEN DO FAT CELLS DIE?

Temperature	Time to fat cell death
50°C	1 min
45°C	3 min
43–45°C	15 min

Franco 2010, Lasers Surg Med · skin surface stays < 30°C

THE PROBLEM — AND THE ANSWER

15 minutes on one spot is not realistic on the abdomen, buttocks or thighs — the handpiece must keep moving.

The curve is steep: just 2°C more (43 → 45°C) cuts the time from 15 to 3 minutes. So the answer is a few more degrees, not more time.

3 Dr. Kook's Protocol

Handpiece and energy by the size of the area — keep moving, never static

Area	Handpiece	Power	Total energy · sessions
Jawline · double chin	3 mm + 7 mm	100–120 W	**60,000–80,000 J · 3 sessions, 1 month apart**
Abdomen	7 mm + 12 mm	120–150 W	**100,000–150,000 J · 3–5 sessions, 1 month apart**
Buttocks + upper thighs	7 mm + 12 mm	120–150 W	**150,000–200,000 J · 3–5 sessions**
Arms	7 mm + 12 mm	120–150 W	**100,000–150,000 J · 3–5 sessions**

1 Mark sitting up

Mark the fat compartment with the patient seated — gravity shows the real shape.

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2 Set & oil

Body: ~150 W (130 W if too hot), e.g. 100 kJ on the arm with the 7 mm handpiece. Apply jojoba oil.

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3 Keep moving

Hold the limb with one hand, glide with the other. Move faster if hot; energy stops if contact is lost.

Aftercare & combination: usually no redness or swelling. Avoid sauna and intense exercise for 3 days and alcohol for 1 week; drink plenty of water. Can be combined with a DCA fat-dissolving injection — MIGLOU first, injection after. Results show in 3–4 weeks.

4 Clinical Results

Fat reduction with MIGLOU



Upper arm — F/43 80,000 J · one session · 4 weeks later



Abdomen — M/40 120,000 J · 6 weeks later

TAKE-HOME MESSAGE

01 Every device heats a different layer — know your target
02 Fat and cellulite live below the dermis — cellulite is a septa problem
03 Microwave passes the epidermis and bulk-heats fat + septa
04 Fat-cell death = temperature × time — 15 minutes per spot is not realistic
05 **FIM concentrates the same energy — crossing the threshold in real treatment time**

"Not more power, but just the same power in the right place."

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