

Advanced Cooling System

Gives LIPOcel an Edge Over Competition



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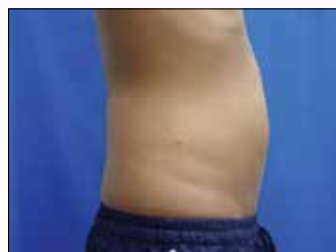
Before treatment



12 weeks after LIPOcel treatment
Photos courtesy of Ungku Shahrin, M.D.



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By Jeffrey Frentzen, Executive Editor

Patient safety is at the forefront of Jeisys Medical Inc.'s (Seoul, South Korea) LIPOcel™ device. This non-invasive body contouring system employs high-intensity focused ultrasound (HIFU) to destroy fat cells without damaging peripheral tissues resulting in circumferential reduction.

LIPOcel's high temperature targets subcutaneous fat cells at over 70° C, up to a maximum power of 150 J/cm². The HIFU energy's direct focal zone is formed only on fat layers below 1.3 cm, thus built-in contact cooling reduces pain to the epidermis.

Prior to LIPOcel, HIFU-based systems had not really shown their worth in aesthetic applications, according to Ungku Shahrin, M.D., managing director of the Mediceutical Clinic in Johor Bahru, Malaysia. "While this technology has proven to be useful in some medical fields, such as urology, clinical studies of other brands of HIFU devices for fat reduction have demonstrated a low level of evidence and small numbers of subjects," he said.

To test the system's clinical efficacy, Dr. Shahrin conducted his own trial utilizing the LIPOcel procedure. "Astonishingly, it changed my views on non-surgical fat reduction," he expressed. "The HIFU wave is concave, therefore any biological and/or mechanical changes only take effect at a single concentrated point thus making it safe to use higher energy levels. In contrast, radiofrequency (RF)-based technology will heat up every layer it passes through, so the higher the energy the bigger risk it poses to the skin layers."

The LIPOcel is indicated for fat reduction on the human body and is safe to use on any skin type, Dr. Shahrin

added. "Especially when treating the abdomen, the device's depth and frequency parameters are kept constant, so that the operator only needs to adjust the energy output and cater the threshold of pain for the patient," he said. "Not much preparation is needed before the treatment except for marking of the patient."

Dr. Shahrin objectively reported reduced measurements in all of his LIPOcel subjects. "My patients were seeing results within one month and up to six months after a single treatment. Some of them show an almost similar outcome as the tumescent liposuction procedures that I used to perform, but LIPOcel does not have any downtime or risk of complications. It has become my first line of treatment for non-surgical fat reduction," he said.

"As a best case example, one of my patients, a 58-year-old female, saw abdominal circumference reduction of 3.5 cm in four weeks," Dr. Shahrin reported. "After 12 weeks it was 5.5 cm."

LIPOcel's advanced contact cooling system can reduce the unit's hand-piece surface temperature down to 5° C, which reduces patient pain in epidermal and nerve areas while delivering very high energy. "This feature allows practitioners to deliver total energy output up to 300 J/cm² without the patient feeling much pain, as compared to other brands without contact cooling (up to 180 J/cm² only)," said Dr. Shahrin.

Patients have been very satisfied with the outcomes, Dr. Shahrin added. "Based on my clinical trial and a patient satisfaction scale of disappointed to very satisfied, all but one of the subjects claimed that they were satisfied to very satisfied with the procedure."