

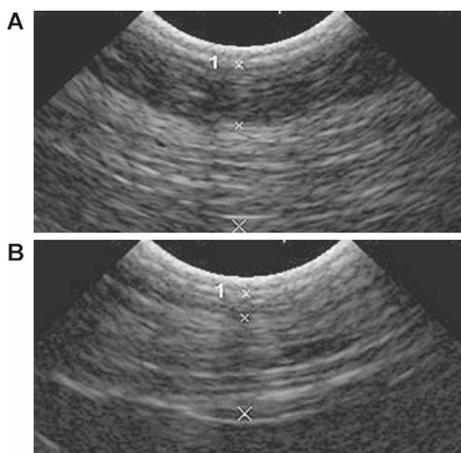
# OPERATOR INDEPENDENT FOCUSED HIGH FREQUENCY ISM BAND FOR FAT REDUCTION: PORCINE MODEL

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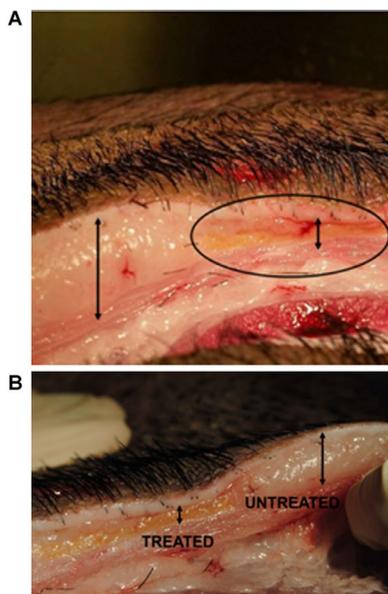
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## HIGHLIGHTS

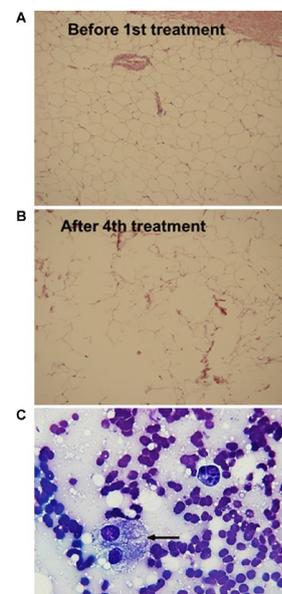
- Proof of concept through **initial veterinary (pig) study**.
- Thermal probes showed the adipose tissue heated to 45-46°C while skin temperature reaches **only 42°C**.
- Proven induction of apoptosis using **TUNEL method** (apoptotic index increasing from 13% to 52%).
- Ultrasound revealed a reduction of fat layer by **4.7mm** (from 7.6 to 2.9mm). Reduction confirmed by pathological examination.
- Laboratory, histological and pathological analyses **proved complete safety** (no safety risks or side effects).



A: Before treatment fat layer is measured as 7.6mm by Duplex ultrasound. B: After treatment thickness of adipose layer is reduced to 2.9mm. (Between Xs and numbered as 1).



A, B: Local fat diminution on gross pathologic examination. A: Circle shows area in which energy was applied. Long arrow indicates no treatment. B: Treated area shows significant reduction of fat in subject 2.



A: Normal fat before treatment. B: Disrupted fat after 4th treatment. C: Foamy macrophages following treatment.

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