A FOCUSED MONOPOLAR RADIOFREQUENCY CAUSES APOPTOSIS: A PORCINE MODEL

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HIGHLIGHTS

• A unique veterinary apoptosis study on Vietnamese pigs proving terminal killing of fat cells.
• Temperature probes evidenced fat tissue temperature increase to 42-46°C during the treatments while maintaining safe skin temperature.
• Histological analysis of biopsies using TUNEL method proved the apoptotic index to increase from average of 7% (before the first treatment) to an average of 53.4%, 39.6%, 40.2% and 44.7% respectively after each of the 4 treatments.
• Histopathological examination demonstrated complete safety.

Application area.

Adipocyte (A) apoptotic nucleus is stained brown (B), other nuclei are blue (C) (400x).