

Structural and Endoscopic Comparison of SAL, WAL, UAL, PAL, LAL
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BACKGROUND & OBJECTIVES: There are different ways to do liposuction, just by suction (SAL), power assisted (PAL), by Waterjet (WAL), by ultrasound (UAL), and laser assisted lipolysis (LAL).

But how does the tissue look like after impact with the different canullas, is there a safer way to do liposuction?

STUDY DESIGN/MATERIALS & METHODS: Cadavers were treated with different techniques, the effect on the tissues, especially on the fat cells and on the septal fibers were analyzed. Abdominoplasty patients were treated and the tissues analyzed the same way. Their tissues were analyzed by direct comparison after different ways of liposuction, by endoscopy and in open surgery and the corresponding clinical results. The specific complications of each type of liposuction were analyzed. In an additional histological study, septal fibers and fat cells were analyzed.

RESULTS: There were clear differences between the different kinds of liposuction. The specific complications were mostly due to the effects of the canulla to the septal fibers and the dermis.

CONCLUSION: Certain aesthetic and medical complications after liposuction can be correlated to certain types of liposuction.