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Evaluation of VASER's employment safety in liposuction surgery to improve body contouring

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Statement of the Problem: Historically, many approaches have been used to remove adipose tissue during liposuction. Throughout the natural refinement process, improvements were achieved by refining various aspects of the procedure, such as surgical technique, cannulas and the use of adjuvant devices. In this aspect, it is a walk without a finish line. There are no definitive goals, only goals to overcome. Traditional liposuction still faces the problem of being often a strenuous procedure and considered by some surgeons with as a technique without much refinement. In this sense, any initiative capable of generating load reduction and mechanical stress is a potential optimizer of results. The third-generation ultrasonic device VASER (vibration amplification of sound energy at resonance), is intended to bring greater safety and satisfactory results, especially in the quest for higher definition and superficial liposuction.

Methodology & Theoretical Orientation: A retrospective study was performed by analyzing the medical records of patients who underwent liposuction procedure to improve body contour with the aid of VASER, from January 2015 to June 2017, at the Santa Mônica Hospital Center in Erechim , Rio Grande do Sul, Brazil. Surgical complications were evaluated and compared with the available medical literature.

Conclusion & Significance: The medical literature, as well as our analysis, seems to demonstrate that the use of VASER in liposuction procedures for improving body contouring presents as a safe approach with low rates of complications. The potential risks of using an ultrasonic device, such as overheating leading to tissue ischemia, are mostly believed as result of inappropriate device use.

Recent Publications

1. Hoyos AE, Millard JA. VASER-Assisted High-Definition Liposculpture. Aesthetic Surg J 2007; 27: 594-604
2. Fodor PB, Suction-Assisted Lipoplasty: Physics, Optimization, and Clinical Verification. Aesthetic Surg J 2005;25:234-246
3. de Souza Pinto EB. Liposuction and VASER. Clin Plastic Surg 2006;33:107-115
4. Jewell ML, Fodor PB, de Souza Pinto EB. Clinical Application of VASER–assisted Lipoplasty: A Pilot Clinical Study. Aesthetic Surg J 2002;22:131-146
5. Gasperoni C, Gasperoni P. Subdermal Liposuction: Long- Term Experience. Clin Plast Surg 2006;33:63-73.

Biography

Felipe Massignan is a plastic surgeon member of Sociedade Brasileira de Cirurgia Plástica (SBCP) and American Society of Plastic Surgeons (ASPS). He is an enthusiastic medical doctor in his expertise, adding current technical concepts with artistic skills that have been developed since the beginning of his career. He especially distinguishes himself in body contouring plastic surgeries. He has been seeking to improve his professional development in major centers around the world. Currently, he has virtually become a reference in his field by using ultrasound liposuction in high definition.

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