patterns of vein distribution in the gluteal region. The area with the highest concentration of veins was demarked and its anatomical boundaries objectively described. Finally, a correlation between this area of highest vein concentration and the muscle mass present within this area was described to locate the area most prone to permit MAFE and MIFE events.

RESULTS: The Danger Zone concept, already published by the authors to avoid MAFE,\(^1\) can also be applied to prevent MIFE, because it not only compromises the inferior gluteal vein, which is one of the main concern to be damaged and allow fat into bloodstream (MAFE) but also includes the muscle area with highest density of vessels in gluteal region that could allow absorption of free oil without direct vessel wall rupture (MIFE).

CONCLUSION: The delimitation of a gluteal topographic area that should be avoided for intramuscular fat injection is updated to also compromise MIFE risk factors and ensure maximal safety in gluteoplasty with autologous fat tissue.

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