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Management of swelling due to aesthetic procedures and LED devices

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Injury of the epidermis due to Aesthetic procedures such as lasers, liftings, peelings etc., always generates swelling which can be a cause for severe complications. Led irradiation (630/850nm) of healthy skin leads to mobilisation of fibroblasts and proinflammatory cells, like mast cells, macrophages and other white blood cells 48 hours after irradiation. Normally Led 630/850nm are used to accelerate wound healing. Pretreating the skin with these wavelengths before aesthetic invasive procedures prevents all swelling. Electron microscopy reveals a tissue without any inflammatory signs and shows fibroblasts containing vesicles of phagocytosis. Tissue without Led pretreatment shows all inflammatory signs : oedema, dilated vessels with vesicles of micropinocytosis in the endotheliocytes and the presence of macrophages, lymphocytes and fibroblasts. It should therefore be systematically done before aesthetic invasive procedures to avoid complications.

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