Long-term results of different types of therapy in lymphedema -evaluation of results in ICG lymphography

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Background. . Lymph/tissue fluid that cannot be transported to regional lymph nodes due to lymphatic vessel insufficiency or damage accumulating in tissue space and causing tissue enlargement and secondary changes. Without proper therapy, conservative or surgical, the lymphedematous limb becomes enormous, and secondary changes in tissue develop. The most common conservative treatment for lymphedema is compression, and among the surgical procedures is the LVA. ICG lymphography is beneficial not only for diagnosing lymphedema but also for evaluating treatment efficacy.

Aim We aimed to investigate the possibilities of use ICG lymphography for evaluating the long-term effectiveness of conservative therapy and LVA in patients with lymphedema.

Materials and Methods. We investigated 10 patients with lymphedema of different etiology (stage I-III) of lower and upper limbs treated for 1-2 years with IPC and compression stockings and 12 patients with lymphedema of upper limbs 1 year after LVA. The ICG lymphography, measurement of skin water concentration, and skin and subcutaneous tissue stiffness were done at the beginning of therapy and after 1-2 years. In ICG lymphography, we concentrated on the presence or lack of lymphatic vessels, the dermal backflow areas and pattern, and fluorescent intensity along the entire limb.

UPPER LIMB LYMPHEDEM. STAGE I

BEFPRE

12 MONTHS AFTER AVA



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lymphography for the long-term follow-up of different types of therapy in patients with lymphedema. The better results were seen in less advanced cases.