

Literature

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Abstract

BACKGROUND AND RATIONALE

In the treatment of mamma carcinoma by means of breast saving procedures a combination of operation and radiation is applied. Typical side effects are fibroses, sensitivity disturbances, skin alterations, edema, restrictions of movement and pain.

The aim of this study was the evaluation of the effects of DEEP OSCILLATION® in addition to manual lymphatic drainage (mld).

MATERIAL AND METHODS

From February 1988 until October 1990 a total of n = 104 patients were enrolled. By Randomisation n=56 patients were assigned to the treatment-group (mld with DEEP OSCILLATION®) and n=48 to the control-group (usual care: mld alone).

RESULTS

The treatment resulted in significant better results in the treatment-group compared to the control-group in the parameters "consistency", "pain and disturbances in sensitivity of the breast treated", "skin alterations", "arm mobility, fine motor response", "Pain and disturbances in sensitivity of arm or axilla, loss of strength" and "lymphedema of the arm".

CONCLUSIONS

The authors conclude that a mld assisted by DEEP OSCILLATION® has significant better results than mld alone. As the therapy can be applied from the first day after surgery a prophylactic neofacilitation and neoformation of lymphpathways seems to be possible. This can have effects on the prevention of a secondary lymphedema. A follow-up of the working group proved a lower rate of secondary lymphedemas in the group treated with DEEP OSCILLATION®.