

Does comprilan bandage have any influence on peripheral perfusion in patients with oedema?

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Aim

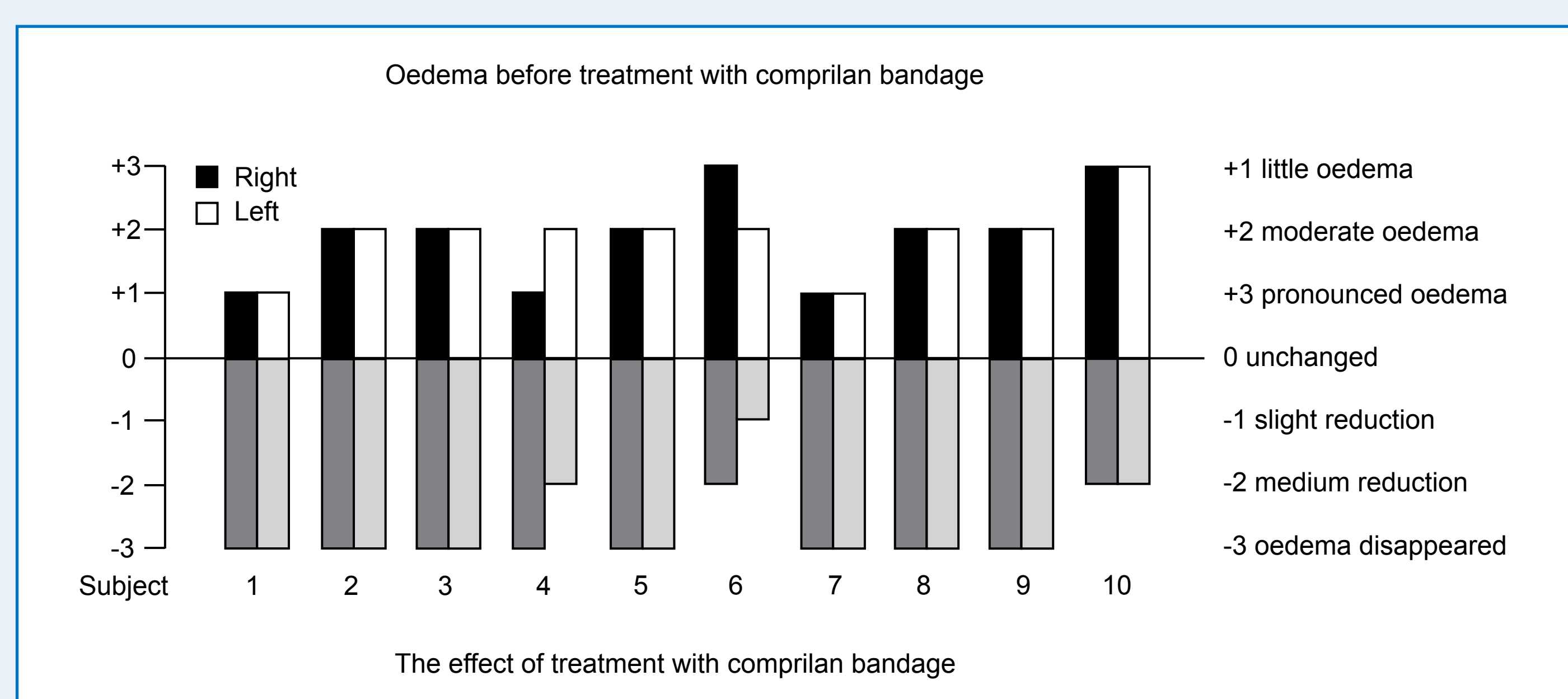
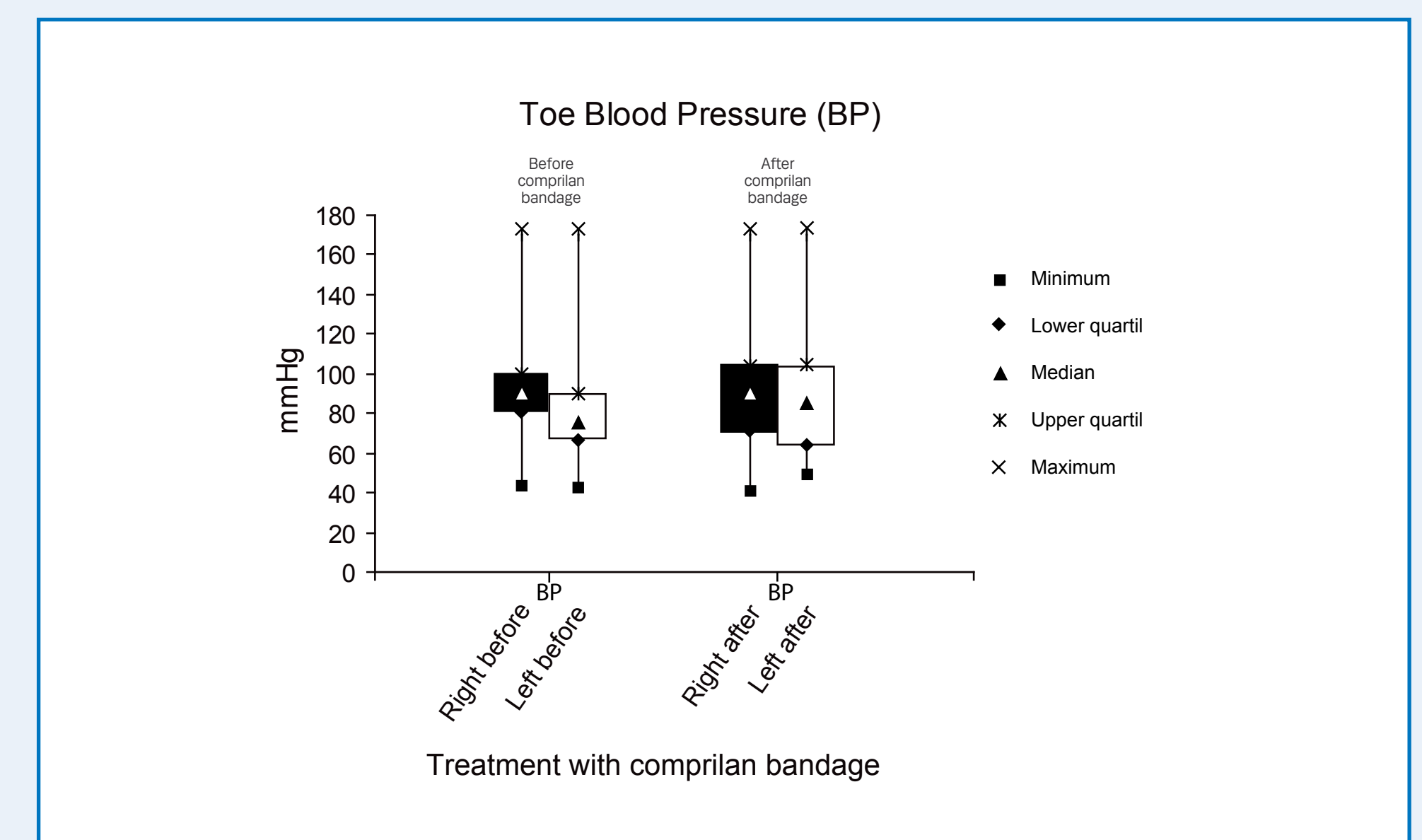
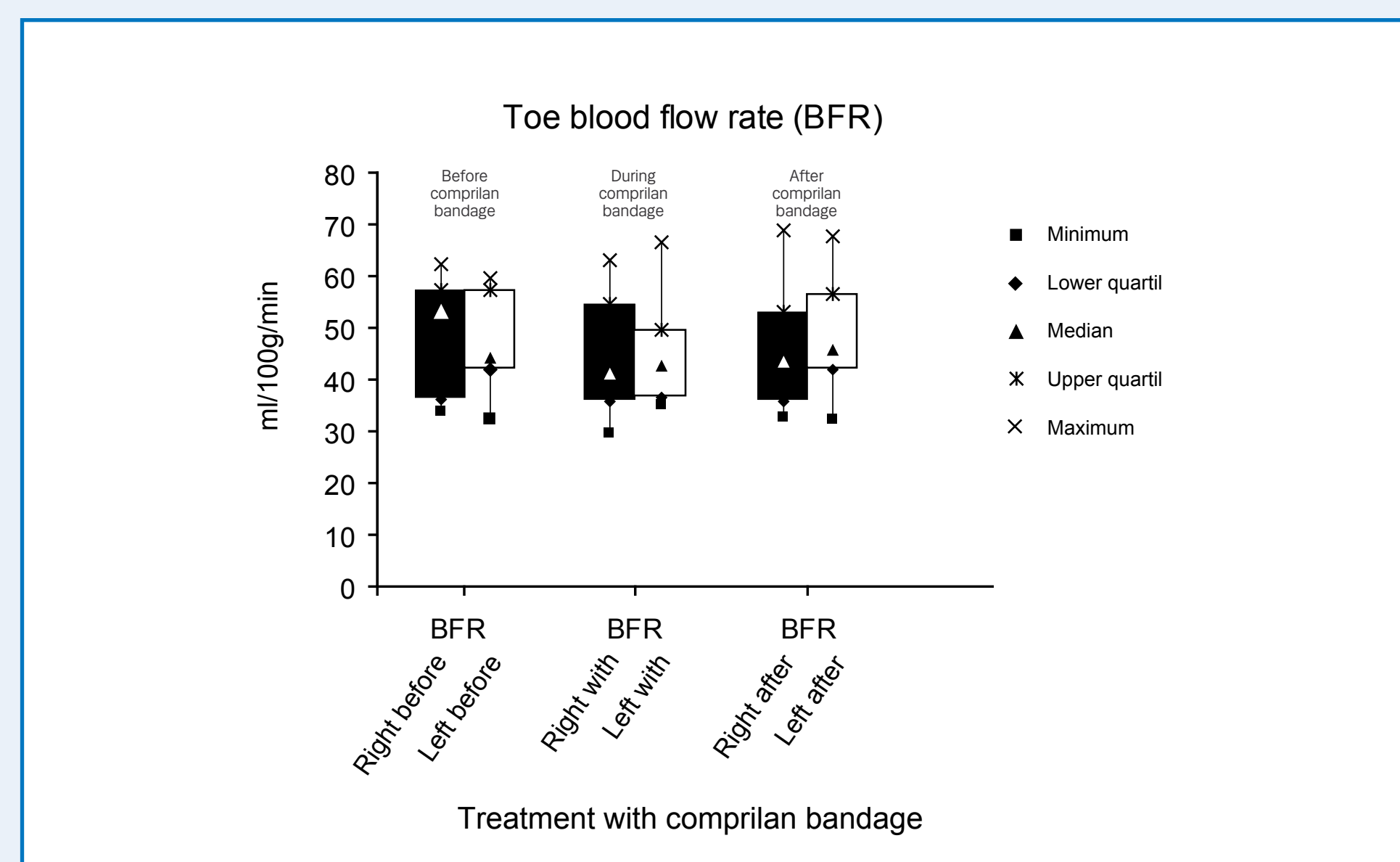
To investigate the circulation in the pulp of the first toe before, during, and after the treatment with comprilan bandage in legs with oedemas.

Methods and study population

10 patients (8 women, 2 men, age 75 – 94 years) with leg oedemas. Blood flow rate was measured by the heat-washout method, systolic toe blood flow pressure was determined by the strain gauge method, and oedemas were scored according to a visual scale. The patients were treated with comprilan bandage for one week (5-7 days).

Results

According to the visual scale all subjects benefited from the treatment by reduction of oedemas, and reported increased well being. Blood flow rate and toe blood pressure were not altered significantly.



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Conclusion

Comprilan bandage has a positive effect on leg oedemas visually as well as according to the patients well being.

The treatment does not have any significant influence on toe blood pressure.

It cannot however be excluded that the use of comprilan bandage may compromise toe blood flow rate slightly (less than 5%).

A larger study with more subjects has to be made to

come this closer, and additional capillary blood flow rate should be measured in an area without arteriovenous anastomoses (ex. fore foot instead of the toe pulp).