



Treatment Of Erectile Dysfunction by Low Intensity Linear Shockwave Therapy – A Multicenter Pilot Study

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Introduction

Previous studies have shown that low intensity shockwaves can stimulate angiogenesis and thus can contribute in the treatment of vasculogenic ED.

Objective:

The aim of the study was to assess the safety and efficacy of a new second generation technology RENOVA, which was designed to achieve substantially superior organ coverage.

Material and methods

RENOVA is based on a technology using Linear Shockwaves which are able to treat a 70mm long and 40mm wide area.

We have treated 58 patients with Vasculogenic ED; with an averaged IIEF-EF score of 14.78±4.8 (Range 6-25).

The protocol consisted of 4 weekly sessions, in which 3600 shock were applied, divided into 4 areas; right and left crura, and right and left corpus cavernosum.

The following questionnaires were recorded: IIEF-EF, SEP and GAQ, at baseline visit and 1, 3, and 6 months post treatment.

Success was defined as an increase in score from baseline to 3 months post treatment follow up according to Rosen Minimal Clinical Improvement criteria.

Results

Out of 58 patients, 47 (81%) had a successful treatment.

The average IIEF-EF increased significantly from 14.78 ± 4.8 at baseline to 22.26 ± 4.7 at 6 months post treatment.

Among the successful patients, the average IIEF-EF score increase was 9 points.

Conclusions

With an initial success of 81%, the results of this pilot study show that this new technology has a good potential for success. No adverse events were recorded, no analgesia was needed, and pain was 100% tolerated, making it a potential good alternative for current available treatments.