

The Effect of Inelastic Compression Wraps on the Quality of Life of People with Chronic Venous Insufficiency Who Can't Wear Compression Stockings

Abby Hargis, MS, Narges Maskan, BS, Marita Yaghi, MD, Sarah Hermak, MS, Hadar Lev-Tov, MD, MAS

¹ Dr. Phillip Frost Department of Dermatology and Cutaneous Surgery, University of Miami Miller School of Medicine, Miami, FL

Background

Chronic venous insufficiency (CVI) results from chronic venous hypertension in the lower extremities. Depending on the severity and duration of disease, CVI may manifest as pain, lower extremity edema, hyperpigmentation, eczematous dermatitis, lipodermatosclerosis, atrophie blanche, and ulcerations. First line therapy for all stages of CVI is compression, usually with stockings. However, patient adherence is low, creating a barrier to clinical improvement and quality of life.

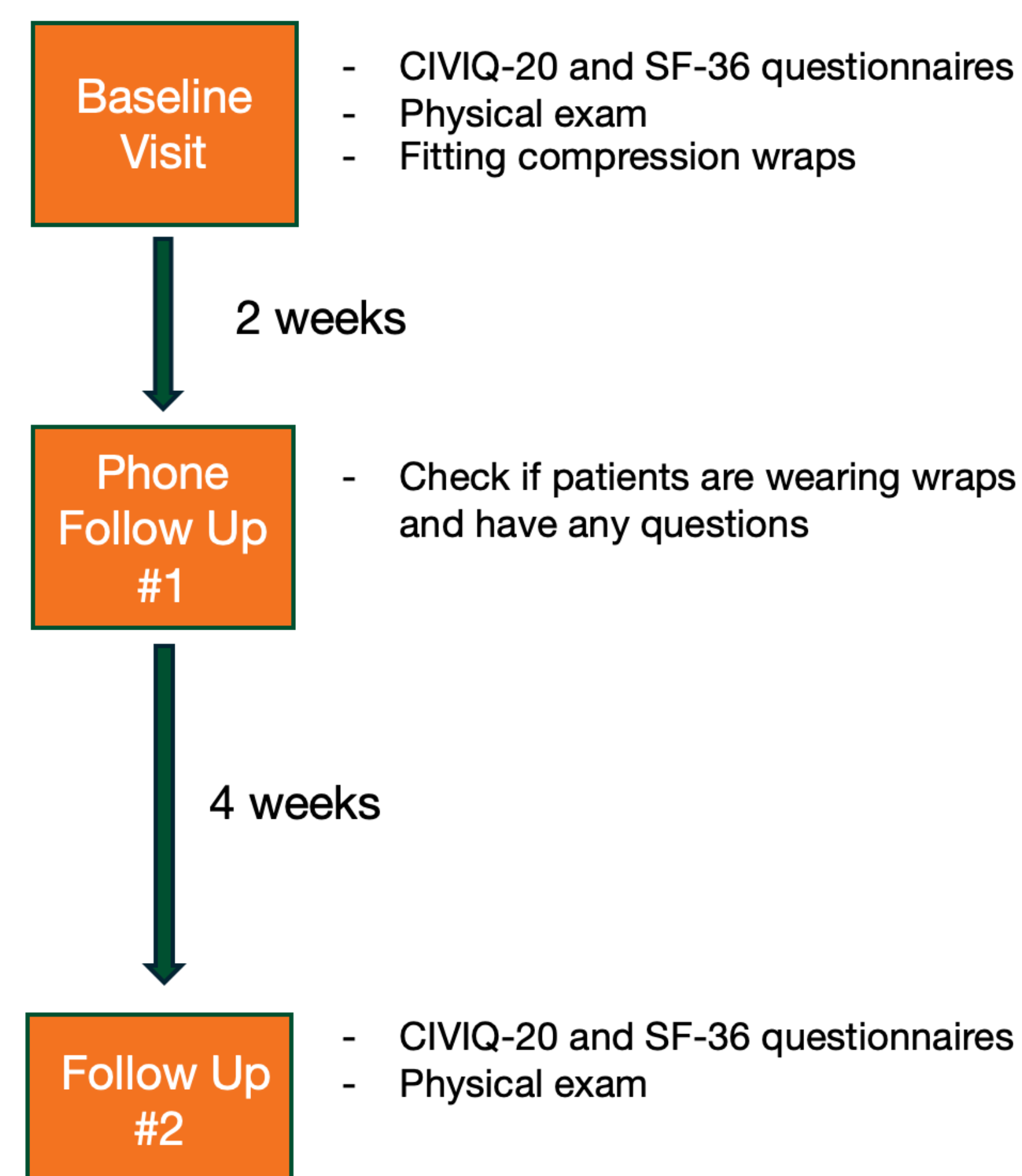
Objective

Investigate the effect of a novel, inelastic compression wrap system on Quality of Life (QoL) in patients with CVI who have been unsuccessful with compression stockings in the past.

Methods

Inclusion Criteria:

- CVI of CEAP stages C3, C4, or C5.
- Non-compliance with currently prescribed compression system



Results

Table 1. Patient Demographics

		All
Total Patients (n)		30
Age	Median [Range]	65 [46-90]
Sex	Female	17 (56.7%)
	Male	13 (43.3%)

Figure 1. Chronic Venous Disease Quality of Life Questionnaire at baseline and follow-up #2

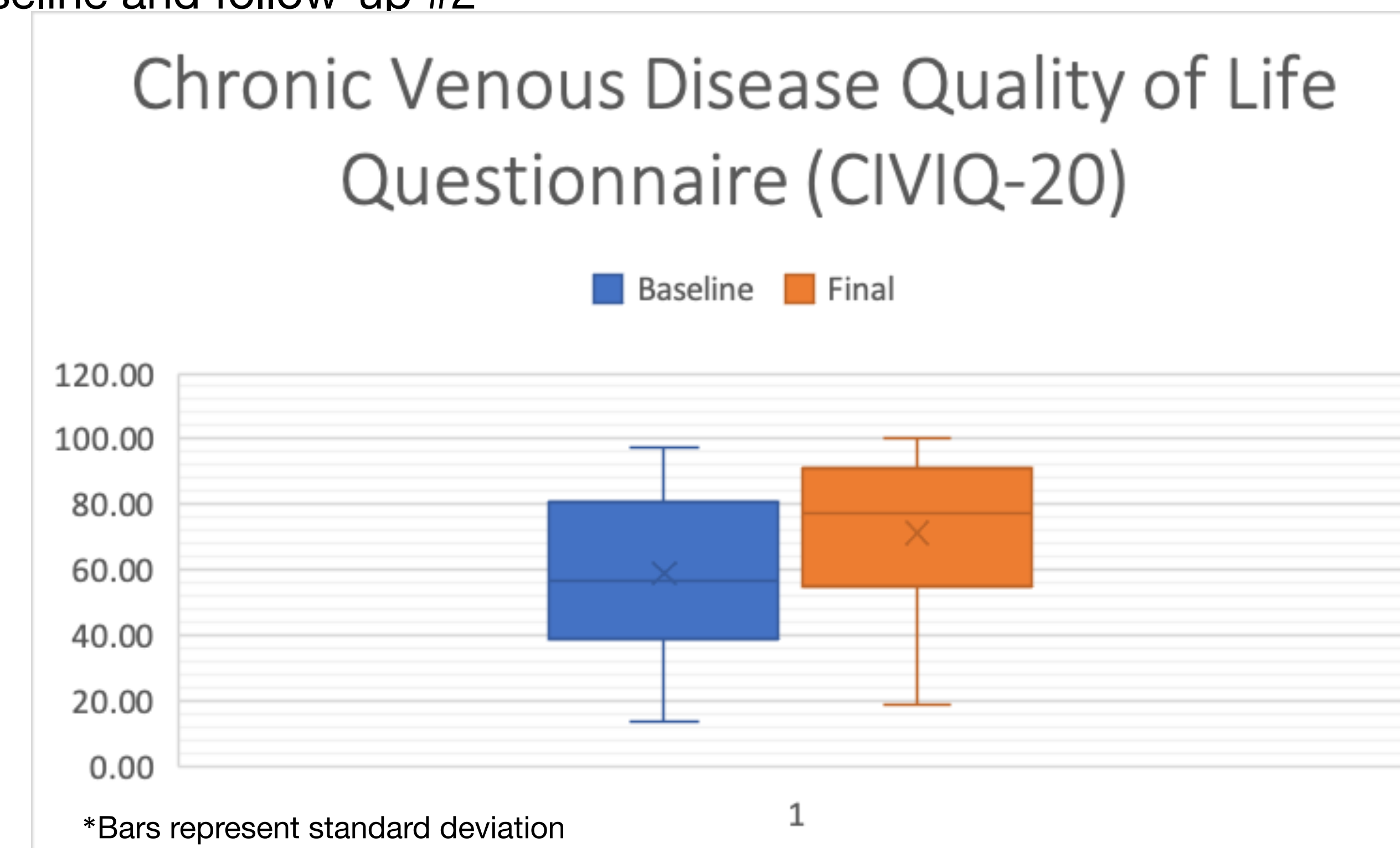


Figure 2. Venous Clinical Severity Score at baseline and follow up#2

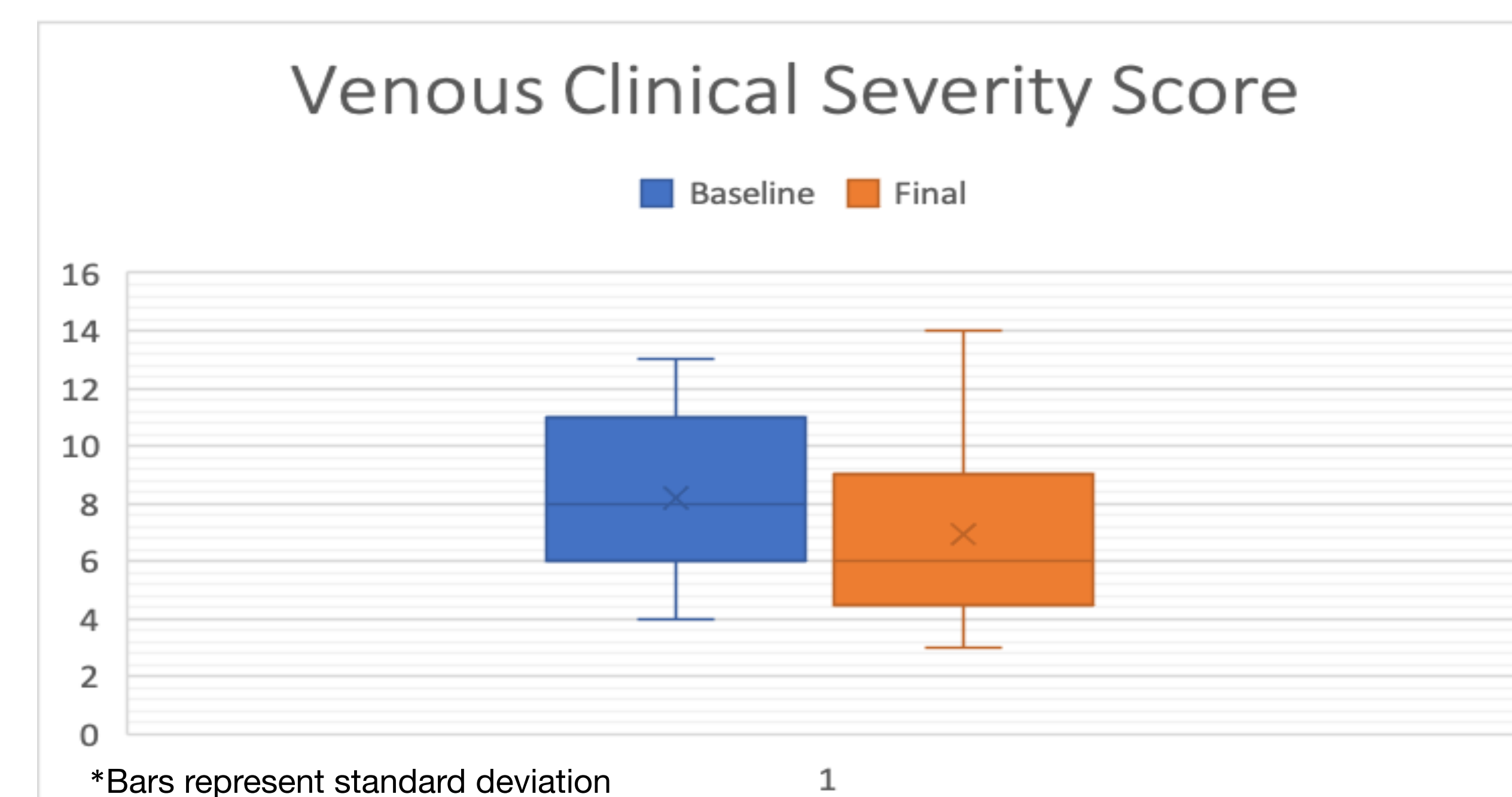


Figure 4. Pain level in 36-Item Short Form Health Survey at baseline and follow-up#2 (bars represent standard deviation)

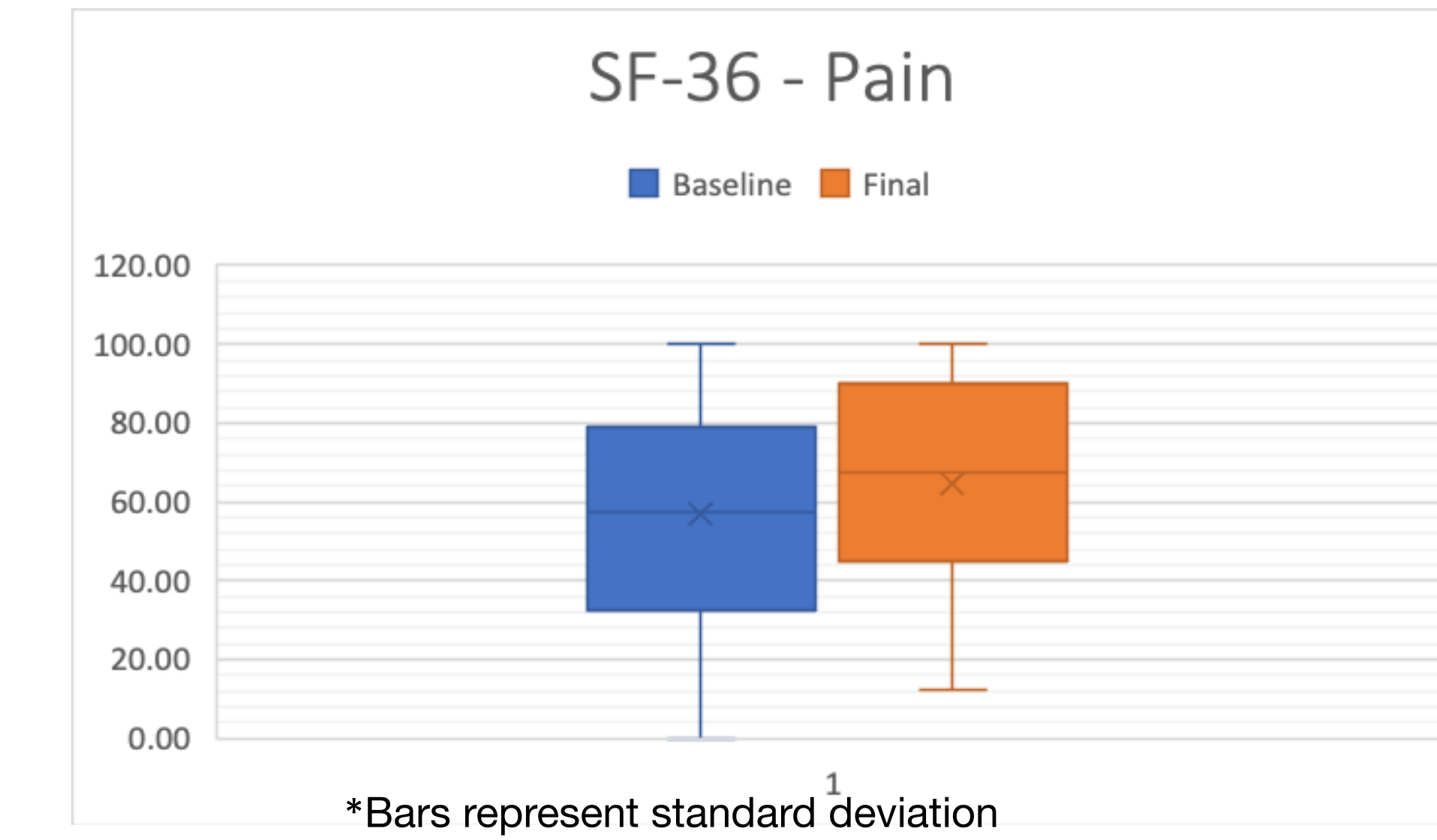


Figure 3. Inelastic Compression Wrap System



Discussion

Untreated CVI may lead to worsening of disease and ultimately ulceration. The mainstay of therapy is compression with stockings however, many patients cannot use stockings. Here, we demonstrated that novel inelastic compression wraps improved QoL in patients with CVI who failed treatment with compression stockings. The results of this study indicate that compression wrap systems could provide a functional and comfortable compression therapy for patients with CVI who may otherwise go untreated. The QoL improvement from use of the inelastic compression wrap system may increase adherence to compression therapy which in turn will improve outcomes.

References

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