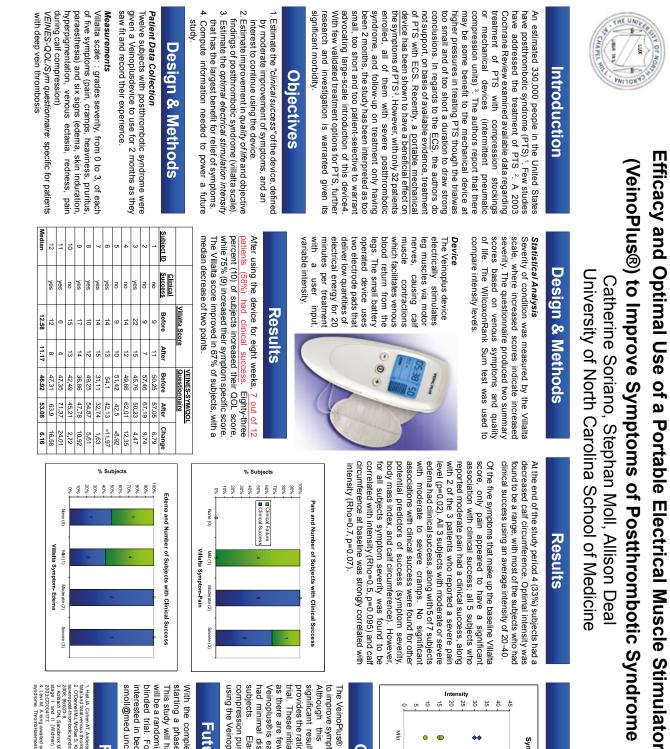
EFFICACY AND OPTIMAL USE OF A PORTABLE ELECTRICAL MUSCLE STIMUL ATOR (VEINOPLUS®) TO IMPROVE SYMPTOMS OF POST-THROMBOTIC SYNDROME

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Design & Methods

scores of life. severity. The questionnaire produced two summary scale, Severity of condition was measured by the Villalta Statistical Analysis where increased scores indicate increased based on venous symptoms and qua The WilcoxonRank Sum test was used quality ನ



legs. blood muscle

Device

compare intensity levels

Results

median decrease of two points The Villalta score improved in 67% of subjects, with a while 75% (9) increased their symptom specific score. percent (10) of subjects increased their QOL score, After using the device for eight weeks, had _ Eighty-three out of 12

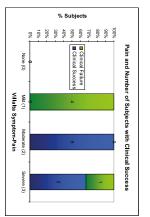
VEINES-SYM/QOL

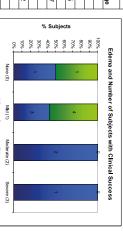
		Villalta Score	re	Questionnaire	naire	
	Clinical					
Subject D	Success	Before	After	Before	After	Change
1	no	9	11	50.25	57.05	6.79
2	no	9	7	57.46	67.19	9.74
ω	yes	22	15	45.76	50.23	4.47
4	no	14	12	49.66	62.01	12.35
5	no	9	10	51.42	42.5	-8.92
6	yes	14	13	54.1	42.13	-11.97
7	yes	14	15	31.11	32.74	1.63
8	yes	10	12	49.25	54.87	5.61
9	yes	17	14	36.86	47.78	10.92
10	по	15	13	42.49	45.21	2.72
11	yes	6	4	47.35	71.37	24.01
12	yes	12	8	47.31	63.9	16.58
Median		12.58	11.17	46.92	53.08	6.16

Results

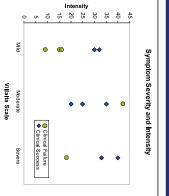
clinical success using an average intensity of 20-40. found to be a range, with most of the subjects who had decreased calf circumference. Uptimal intensity was At the end of the study period 4 (33%) subjects had a

associations with clinical success were found for other potential predictors of success (symptom severity, Of the five symptoms that make up the baseline Villalta circumference at baseline was strongly correlated correlated with intensity (Rho=0.5, p=0.095) and for all subjects symptom severity was found body mass index, and calf circumference). However edema had clinical success, along with 5 of 7 subjects level (p=0.02). All 3 subjects with moderate or severe reported moderate pain had a clinical success, along association with clinical success; all 5 subjects who score, with moderate with 2 of the 3 patients who reported a severe pair intensity (Rho=0.7, p=0.07). only pain appeared to have a significant to severe cramps. No significant đ ٧It ğ





Results



Conclusion

using the Veinoplus®. compression pumps could still be used in addition to as there are few treatments for patients with PTS. trial. significant results, given its small sample size, Although this study to improve symptoms and QOL for patients with PTS subjects had minimal veinoplus®is easy to use, small and portable, and provides the rationale and details needed for a larger The VeinoPlus® electrical stimulation device appears These initial findings are of clinical significance. Elastic disruptions in everyday life for most compression did not yield statistically stockings and

Futurs Directions

With the completion of this pilot study, we will be starting a phase 3 trial of the VeinoPlus® device. smoll@med.unc.edu interested in becoming a study site, please contact blinded trial. will be a randomized, placebo controlled, and double-This study will have a sample size of 60 subjects. For more information, or if you are be

References

(VENOPIS). Aranoc 106:

96523-9. aach DN, Sandbrink MW, Neumann HA, Prins MH. Compression therapy for treating I and II (Widmer) post-thrombotic syndrome. Cochrane Database SystRe DD004177.

Villalta Symptom- Edema

A long-awaited small step forward in the management of the post-thrombotk ThrombHaemost2008; 99:463-4.