Strømper versus ingen intervention for kronisk ødem

Review information

Authors

Sundhedsstyrelsen¹

¹[Empty affiliation]

Citation example: S. Strømper versus ingen intervention for kronisk ødem. Cochrane Database of Systematic Reviews [Year], Issue [Issue].

Characteristics of studies

Characteristics of included studies

Carvalho 2015

Methods	Study design: Randomized controlled trial Study grouping: Crossover			
Participants	Baseline Characteristics Intervention • Age mean (sd): • Number of Females: 21 females • Mean weight: • Mean BMI: • Main reason for chronic edema CEAP2: • mobile/immobile:			
	 Main reason for chronic edema CEAP3: Number of males: Age range: 			
	control Age mean (sd): Number of Females: Mean weight: Mean BMI: Main reason for chronic edema CEAP2: mobile/immobile: Main reason for chronic edema CEAP3: Age range:			
	Overall Age mean (sd): 49.5 Number of Females: 21(42 legs) Mean weight: Mean BMI: Main reason for chronic edema CEAP2: 6 mobile/immobile: Main reason for chronic edema CEAP3: 36 Number of males: 0 Age range: 32 to 72			
	Included criteria: edema and fatigue of the legs whichworsened during the day but improved with the rest andwithelevationofthelegsandpaininthelegs. Excluded criteria: varicose veins with CEAP classifications 4,5,and 6, difficulty walking, morbidobesity, orthopedic changes, and other diseases clinically evaluated which might cause the symptoms of the legs. Pretreatment: Non reported			
Interventions	Intervention Characteristics Intervention • time interval: 1 day • description of treatment with compression stockings: In Assessment 2, the legs of the participants were againmeasured by volumetry at 7:00 a.m. and the stockings wereworn during the entire day with a further evaluation at 4:00p.m. (volumetric and analog pain scale). control			
	 time interval: 1 day description of treatment with compression stockings: Patients were their own control 			
Outcomes	Ødem (edema) End of treatment, max 12 mdr. ■ Outcome type: ContinuousOutcome ■ Unit of measure: Mililiter ■ Direction: Lower is better ■ Data value: Endpoint			
	Tilbagevendende sår (recurrent ulcer) End of treatment, max 12 mdr. • Outcome type: DichotomousOutcome • Direction: Lower is better			

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	Tilbagevendende sår (recurrent ulcer) Follow up ≤ 12 mdr. • Outcome type: DichotomousOutcome • Direction: Lower is better			
	Tilbagevendende sår (recurrent ulcer) Follow up 12 mdr24 mdr. • Outcome type: DichotomousOutcome • Direction: Lower is better			
	Smerter (bivirkning) (pain) End of treatment, max 12 mdr. Outcome type: ContinuousOutcome Direction: Lower is better			
	Hudforandringer (skin changes) End of treatment, max 12 mdr. ● Outcome type: DichotomousOutcome ● Direction: Lower is better			
	Livskvalitet (quality of life) End of treatment, max 12 mdr. • Outcome type: ContinuousOutcome			
	Roseninfektion (Erysipelas, Cellulitis) End of treatment, max 12 mdr. • Outcome type: DichotomousOutcome • Direction: Lower is better			
	Roseninfektion (Erysipelas, cellulitis)Follow up ≥ 12 mdr. • Outcome type: DichotomousOutcome • Direction: Lower is better			
	Drop out End of treatment, max 12 mdr. ■ Outcome type: DichotomousOutcome ■ Direction: Lower is better			
Identification	Sponsorship source: Non declared Country: Brazil Setting: Clinica Godoy Comments: Authors name: Carlos Alberto Carvalho			
	Institution: Medical School in S ao Jos e do Rio Preto, FAMERP, Avenida Constituic ao 1306, 15025-120 S ao Jos edoRioPreto,SP,Brazil Email: godoyjmp@riopreto.com.br			
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Notes				

Risk of bias table

Bias	Authors' judgement	Support for judgement		
Random sequence generation Unclear risk selection bias)		Quote: "Consecutive patients were randomly assigned to two different groups where on the first day of the study one group followed Assessment 1 (Figure 1) and the other group followed Assessment 2" Judgement Comment: Randomization unclear		
Allocation concealment (selection bias)	Unclear risk	Judgement Comment: "Consecutive patients" were randomized, formentlig til at forudse h der randomiseret til hvilken gruppe. Possible to foresee but as this is a crossover maybe important		
Blinding of participants and personnel (performance bias)	Unclear risk	-		
Blinding of outcome assessment (detection bias)	Unclear risk	-		
Incomplete outcome data (attrition bias)	Low risk	Judgement Comment: Nothing described but probably no dropouts with only two days		
Selective reporting (reporting bias)	Unclear risk	Judgement Comment: Result could be reported in more details		
Other bias High risk		Judgement Comment: Crossover study without washout period and study using both legs even if this is not a proper way to do it.		

Mariani 2013

Methods	Study design: Randomized controlled trial Study grouping: Parallel group		
Participants	Baseline Characteristics Intervention • Age: NA • Number of Females: 13 • Mean weight: N/A • Mean BMI: N/A • Main reason for chronic edema: CVI		

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	 mobile/immobile: N/A Number of males: 13 control Age: N/A Number of Females: 20 Mean weight: N/A Mean BMI: N/A Main reason for chronic edema: CVI mobile/immobile: N/A Number of males: 10 Overall Age: 63,9 Number of Females: 33 Mean weight: Mean BMI: Main reason for chronic edema: mobile/immobile: Number of males: Included criteria: male or female, 18-90 yearsunilateral or bilateral CVlchronic stable pitting edemano
	effective compression Excluded criteria: Most important:<18 or > 90effective compression befor studyDMrenal and liver insuffhypoalbuminaemiaacute DVT or SVTactive ulcerationlymphedemalipedemamalignancy Pretreatment:
Interventions	Intervention Characteristics Intervention • time interval: 1 week • description of treatment with compression stockings: below knee compression stockings control • time interval: 1 week • description of treatment with compression stockings: Placebo stocking. Pressure 3-6 mmHg
Outcomes	 Ødem (edema) End of treatment, max 12 mdr. Outcome type: DichotomousOutcome Direction: Higher is better Tilbagevendende sår (recurrent ulcer) End of treatment, max 12 mdr. Outcome type: DichotomousOutcome Tilbagevendende sår (recurrent ulcer) Follow up ≤ 12 mdr. Outcome type: DichotomousOutcome Tilbagevendende sår (recurrent ulcer) Follow up 12 mdr24 mdr. Outcome type: DichotomousOutcome Smerter (bivirkning) (pain) End of treatment, max 12 mdr. Outcome type: ContinuousOutcome Hudforandringer (skin changes) End of treatment, max 12 mdr. Outcome type: DichotomousOutcome Livskvalitet (quality of life) End of treatment, max 12 mdr. Outcome type: ContinuousOutcome Roseninfektion (Erysipelas, Cellulitis) End of treatment, max 12 mdr. Outcome type: DichotomousOutcome Roseninfektion (Erysipelas, cellulitis) Follow up ≥ 12 mdr. Outcome type: DichotomousOutcome Drop out End of treatment, max 12 mdr. Outcome type: DichotomousOutcome
Identification Notes	Sponsorship source: N/A Country: Italy Setting: Vascular surgery unit Comments: Authors name: F Mariani Institution: Vascular surgery, Siena, Italy Email: brtma@tin.it Address: The compression therapy study grpou, Collle di Val d'Elsa, Siena, Italy

Risk of bias table

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Bias	Authors' judgement	Support for judgement	
Random sequence generation (selection bias)	Unclear risk	described as "random", but technique not desribed	
Allocation concealment (selection bias)	Low risk		
Blinding of participants and personnel (performance bias)	High risk	no blinding	
Blinding of outcome assessment (detection bias)	Unclear risk	-	
Incomplete outcome data (attrition bias)	Low risk		
Selective reporting (reporting bias)	Low risk		
Other bias	Low risk		

Footnotes

References to studies

Included studies

Carvalho 2015

Carvalho, Carlos Alberto; Lopes Pinto, Renata; Guerreiro Godoy, Maria de Fatima; Pereira de Godoy, Jose Maria. Reduction of Pain and Edema of the Legs by Walking Wearing Elastic Stockings.. International Journal of Vascular Medicine 2015;2015(Journal Article):648074. [DOI: http://dx.doi.org/10.1155/2015/648074]

Mariani 2013

Mariani F.; Bucalossi M.; Mancini S.. Placebo controlled efficacy of class 2 elastic stockings (23-32 mmHg) in reduction of edema in CVI of the lower limbs. Acta Phlebologica 2013;14(1):39-44. [DOI:]

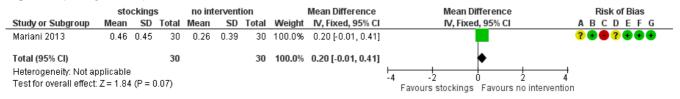
Data and analyses

1 Compression stockings vs no intervention

Outcome or Subgroup	Studies	Participants	Statistical Method	Effect Estimate
1.1 Smerter (bivirkning) (pain) End of treatment, max 12 mdr.	1	60	Mean Difference (IV, Fixed, 95% CI)	0.20 [-0.01, 0.41]
1.2 Livskvalitet (quality of life) End of treatment, max 12 mdr.	0	0	Mean Difference (IV, Fixed, 95% CI)	Not estimable
1.3 Ødem (edema) End of treatment, max 12 mdr.	1	42	Mean Difference (IV, Fixed, 95% CI)	-64.28 [-90.04, -38.52]
1.3.2 Time (change value)	1	42	Mean Difference (IV, Fixed, 95% CI)	-64.28 [-90.04, -38.52]
1.4 Total ødemreduktion (total reduction of edema) End of treatment, max 12 mdr.	1	60	Risk Ratio (IV, Fixed, 95% CI)	8.00 [2.69, 23.75]
1.4.1 Time (final value)	1	60	Risk Ratio (IV, Fixed, 95% CI)	8.00 [2.69, 23.75]
1.5 Tilbagevendende sår (recurrent ulcer) End of treatment, max 12 mdr.	0		Risk Ratio (IV, Fixed, 95% CI)	No totals
1.6 Tilbagevendende sår (recurrent ulcer) Follow up ≤ 12 mdr.	0		Risk Ratio (IV, Fixed, 95% CI)	No totals
1.7 Tilbagevendende sår (recurrent ulcer) Follow up 12 mdr24 mdr.	0		Risk Ratio (IV, Fixed, 95% CI)	No totals
1.8 Hudforandringer (skin changes) End of treatment, max 12 mdr.	0		Risk Ratio (IV, Fixed, 95% CI)	No totals
1.9 Roseninfektion (Erysipelas, Cellulitis) End of treatment, max 12 mdr.	0		Risk Ratio (IV, Fixed, 95% CI)	No totals
1.10 Roseninfektion (Erysipelas, cellulitis) Follow up ≥ 12 mdr.	0		Risk Ratio (IV, Fixed, 95% CI)	No totals
1.11 Drop out End of treatment, max 12 mdr.	1	60	Risk Ratio (IV, Fixed, 95% CI)	9.00 [0.51, 160.17]

Figures

Figure 1 (Analysis 1.1)

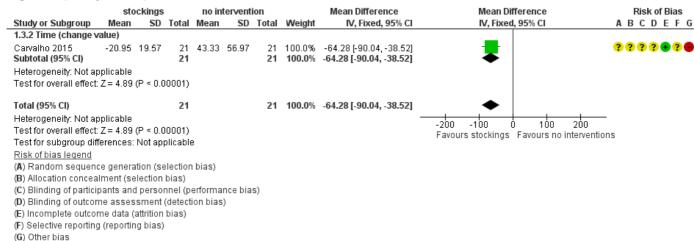


Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

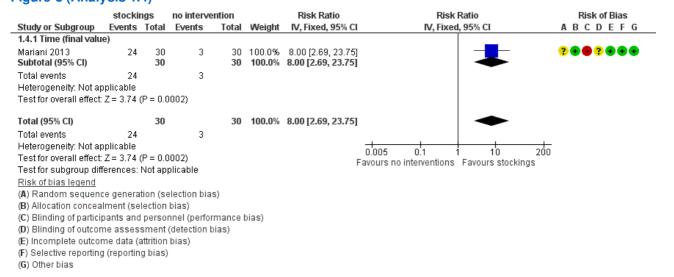
Forest plot of comparison: 1 Stockings vs no intervention, outcome: 1.1 Smerter (bivirkning) (pain) End of treatment, max 12 mdr..

Figure 2 (Analysis 1.3)



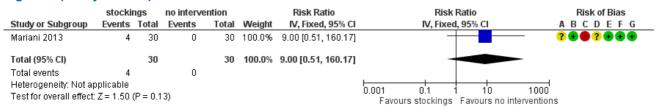
Forest plot of comparison: 1 Compression stockings vs no intervention, outcome: 1.3 Ødem (edema) End of treatment, max 12 mdr..

Figure 3 (Analysis 1.4)



Forest plot of comparison: 1 Stockings vs no intervention, outcome: 1.4 Total ødemreduktion (total reduction of edema) End of treatment, max 12 mdr..

Figure 4 (Analysis 1.11)



Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Forest plot of comparison: 1 Compression stockings vs no intervention, outcome: 1.11 Drop out End of treatment, max 12 mdr..