

Clinical trials of mechanical devices for thromboprophylaxis for thrombosis prevention in general non orthopaedic surgery

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1 GCS (adjunctive therapy)

Trial	Treatments	Patients	Trials design and methods
GCS + dextran vs dextran			
*Bergqvist , 1984 n=80/80 follow-up:	one leg encased in a graded compression stocking versus other leg unstockinged	patients undergoing Abdominal surgery	
GCS +IPC vs IPC			
Mellbring , 1986 n=NA follow-up:	graduated static compression + peroperative intermittent pneumatic calf compression versus peroperative intermittent pneumatic calf compression	patients undergoing major abdominal surgery	Factorial plan
Scurr (GCS+IPC vs IPC) , 1987 n=78/78 follow-up:	simultaneous use of graduated compression stockings and intermittent sequential pneumatic compression versus intermittent sequential pneumatic compression	patients undergoing Abdominal surgery	parallel groups
GCS + UFH vs UFH			
*Rasmussen (adj) , 1988 n=NA follow-up:	subcutaneous heparin and graduated compression stockings to the knee (TED stockings), versus subcutaneous heparin	patients (age more than 40 yrs) admitted for major abdominal surgery	Parallel groups open
Wille-Jorgensen , 1985 n=86/90 follow-up:	low-dose heparin treatment with graded compression stockings versus low-dose heparin treatment (5000 units twice daily subcutaneously)	patients undergoing Abdominal surgery	parallel groups
Wille-Jorgensen , 1991 n=83/83 follow-up:	low dose heparin and graded compression stockings versus low dose heparin	patients undergoing Abdominal surgery	parallel groups

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Scurr (GCS+IPC vs IPC), 1987:

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Wille-Jorgensen, 1985:

Wille-Jrgensen P, Thorup J, Fischer A, Holst-Christensen J, Flamsholt R Heparin with and without graded compression stockings in the prevention of thromboembolic complications of major abdominal surgery: a randomized trial. Br J Surg 1985;72:579-81 [4016545]

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2 Graduated compression stockings

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Trial	Treatments	Patients	Trials design and methods
GCS vs no prophylaxis			
*Inada , 1983 n=NA follow-up:	graduated compression stocking on one leg versus no GCS on the other leg serving as a control.	patients undergoing major surgery	
*Scurr , 1977 n=70/70 follow-up:	graduated static compression stockings on one leg versus other leg being used as a control	patients undergoing 65279;Abdominal surgery	open
Turner , 1984 n=104/92 follow-up:	graduated compression stockings versus not wear the stockings	patients undergoing Gynecologic surgery	parallel groups
Allan , 1983 n=97/103 follow-up:	graduated compression stockings versus control	patients undergoing Abdominal surgery	parallel groups
Turpie (GCS vs ctrl) , 1989 n=80/81 follow-up:	graduated compression stockings versus untreated control	patients undergoing Neurosurgery surgery	
Holford , 1976 n=48/47 follow-up:	Graded compression versus control	patients undergoing major operations	parallel groups
Knee length GCS vs Thigh length GCS			

continued...

Trial	Treatments	Patients	Trials design and methods
Porteous , 1989 n=58/58 follow-up:	Knee length GCS versus Thigh length GCS	65279;General surgical patients	parallel groups
Williams , 1988 n=44/44 follow-up:	Knee length GCS versus Thigh length GCS	General surgical patients	parallel groups
Howard , 2004 n=99/195 follow-up:	Knee length GCS versus Thigh length GCS	Breast surgery, oncology, ENT, urology, vascular, neurosurgery. And gastrointestinal surgery	parallel groups
GCS vs UFH			
Hansberry (vs UFH) , 1991 n=NA follow-up: 6 days	thromboembolic stockings versus heparin plus dihydroergotamine	patients undergoing a major urological operation	Parallel groups
Rasmussen (GCS vs UFH) , 1998 n=74/85 follow-up:	graduated compression stockings to the knee (TED stockings) versus subcutaneous heparin	patients (age more than 40 yrs) admitted for major abdominal surgery	Parallel groups open

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Turpie (GCS vs crt1), 1989:

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Williams, 1988:

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Howard, 2004:

Howard A, Zaccagnini D, Ellis M, Williams A, Davies AH, Greenhalgh RM Randomized clinical trial of low molecular weight heparin with thigh-length or knee-length antiembolism stockings for patients undergoing surgery. Br J Surg 2004;91:842-7 [15227689]

Hansberry (vs UFH), 1991:

Hansberry KL, Thompson IM Jr, Bauman J, Deppe S, Rodriguez FR A prospective comparison of thromboembolic stockings, external sequential pneumatic compression stockings and heparin sodium/dihydroergotamine mesylate for the prevention of thromboembolic complications in urological surgery. J Urol 1991;145:1205-8 [2033693]

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3 About TrialResults-center.org

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