

# 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
<b>GCS + dextran vs dextran</b>			
*Bergqvist , 1984 n=80/80 follow-up:	one leg encased in a graded compression stocking versus other leg unstockinged	patients undergoing Abdominal surgery	
<b>GCS +IPC vs IPC</b>			
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
<b>GCS + UFH vs UFH</b>			
*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

## References

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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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Wille-Jrgensen P, Hauch O, Dimo B, Christensen SW, Jensen R, Hansen B Prophylaxis of deep venous thrombosis after acute abdominal operation. Surg Gynecol Obstet 1991;172:44-8 [1702235]

## 2 Graduated compression stockings

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Trial	Treatments	Patients	Trials design and methods
<b>GCS vs no prophylaxis</b>			
*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
<b>Knee length GCS vs Thigh length GCS</b>			

continued...

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>Porteous , 1989</b> n=58/58 follow-up:	Knee length GCS versus Thigh length GCS	65279;General surgical patients	parallel groups
<b>Williams , 1988</b> n=44/44 follow-up:	Knee length GCS versus Thigh length GCS	General surgical patients	parallel groups
<b>Howard , 2004</b> n=99/195 follow-up:	Knee length GCS versus Thigh length GCS	Breast surgery, oncology, ENT, urology, vascular, neurosurgery. And gastrointestinal surgery	parallel groups
<b>GCS vs UFH</b>			
<b>Hansberry (vs UFH) , 1991</b> n=NA follow-up: 6 days	thromboembolic stockings versus heparin plus dihydroergotamine	patients undergoing a major urological operation	Parallel groups
<b>Rasmussen (GCS vs UFH) , 1998</b> 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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### Turner, 1984:

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### Allan, 1983:

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### Porteous, 1989:

Porteous MJ, Nicholson EA, Morris LT, James R, Negus D Thigh length versus knee length stockings in the prevention of deep vein thrombosis. Br J Surg 1989;76:296-7 [2720328]

### Williams, 1988:

Williams JT, Palfrey SM Cost effectiveness and efficacy of below knee against above knee graduated compression stockings in the prevention of deep vein thrombosis. Phlebologie 1988;41:809-11 [3150063]

### 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]

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