

# Clinical trials of IPC

TrialResults-center [www.trialresultscenter.org](http://www.trialresultscenter.org)

## 1 thrombosis prevention

Trial	Treatments	Patients	Trials design and methods
<b>IPC vs aspirin</b>			
HAAS I , 1990 n=NA	-	elective knee replacement	open
HAAS II , 1990 n=NA	-	elective knee replacement	open
McKenna (vs aspirin) , 1980 n=NA	-	elective knee replacement	open
<b>IPC + aspirin vs aspirin</b>			
Hull 2 (+asp) , 1979 n=NA follow-up:	-	patients undergoing elective knee surgery	open
Hull (+asp) , 1979 n=NA follow-up:	-	patients undergoing elective knee surgery	Parallel groups open
65279;Lieberman (A) , 1994  n=130/130 follow-up:	hypotensive epidural anesthesia, external pneumatic-compression boots, and aspirin versus hypotensive epidural anesthesia and aspirin	primary unilateral or bilateral total hip arthroplasty with use of hypotensive epidural anesthesia	Parallel groups open
<b>thigh Length IPCD vs calf Length IPCD</b>			
Soderdahl , 1997 n=NA follow-up: in hospital	Thigh Length IPCD versus Calf Length IPCD	patients undergoing major urological surgery	Parallel groups open
<b>IPC + GCS vs control</b>			
Turpie , 1989 n=NA follow-up: 14 days	graduated compression stockings plus intermittent pneumatic compression versus untreated control	potential neurosurgical patients	Parallel groups open
<b>IPC + UFH vs control</b>			

continued...

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
Killewich , 1997 n=NA follow-up:	low-dose heparin sodium therapy (5000 U every 12 hours) and calf-length intermittent mechanical compression devices versus no prophylaxis	patients undergoing aortic reconstruction for aneurysmal or occlusive disease	open
<b>IPC sequential compression vs control</b>			
65279;Blackshear exclude , 1987 n=20/20 follow-up:	Sequential external pneumatic compression versus control	abdominal or thoracic surgery	Cross over open
Hull II , 1990 n=152/158 follow-up:	sequential intermittent calf and thigh compression versus no prophylaxis	patients undergoing total hip replacement	open
Fisher , 1995 n=145/159 follow-up:	pneumatic sequential leg compression devices versus no specific form of prophylaxis	orthopaedic trauma patients with hip and pelvic fractures	Parallel groups open
Turple II , 1979 n=112/106 follow-up:	-	patients with intracranial disease	open
Knudson , 1994 n=26/39 follow-up:	sequential gradient pneumatic leg compression versus control	trauma patients	open
Kosir , 1996 n=25/45 follow-up: 30 days	sequential pneumatic compression devices during surgery and 2 days postoperatively versus control	Patients undergoing procedures of at least 1 hr duration (abdominal, thoracic, head and neck, inguinal) requiring general or spinal anesthetic	Parallel groups open
<b>IPC single compression vs control</b>			
Prasad , 1982 n=NA follow-up:	pneumatic compression of the calf versus No Prophylaxis	elderly hemiplegics	Parallel groups open
Butson , 1981 n=62/57 follow-up:	intermittent pneumatic calf compression, begun after the induction of anesthesia and continued until the patient was walking versus control	patients undergoing major abdominal general surgical procedures	open

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<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
Clark , 1974 n=36/36 follow-up:	-	abdominal or thoracic surgery	open
Clarke-Pearson I , 1984 n=59/57 follow-up:	-	-	open
Clarke-Pearson II , 1984 n=104/105 follow-up:	-	abdominal or thoracic surgery	open
Coe , 1978 n=31/24 follow-up:	low-dose heparin and external pneumatic compression (EPC) of the calves versus no treatment	patients undergoing open urological operations	open
Hills , 1972 n=70/70 follow-up:	-	abdominal or thoracic surgery	open
Gallus , 1983 n=43/47 follow-up: in hospital	preventive intermittent calf compression versus no prophylaxis	elective hip replacement	Parallel groups open
65279;Bachmann , 1976 n=26/28 follow-up: until patients fully mobilized	-	patients undergoing joint-replacement operations	Parallel groups open
Bynke , 1987 n=31/31 follow-up:	-	neurosurgery	open
Skillman , 1978 n=47/48 follow-up: NA	external pneumatic compression (EPC) of the calves versus no specific form of prophylaxis	patients undergoing neurosurgical operative procedures	Parallel groups open
Turpie I , 1977 n=82/79 follow-up:	-	patients with intracranial disease	open
Hull I , 1979 n=32/29 follow-up:	-	patients undergoing elective knee surgery	Parallel groups open
<b>IPC unknown type vs control</b>			

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<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
Weitz , 1986 n=5/9 follow-up:	-	-	Parallel groups open
<b>IPCD vs control</b>			
McKenna , 1980 n=10/12 follow-up:	IPCD versus No Prophylaxis	Elective knee replacement	Parallel groups open
<b>IPC + dextran vs dextran</b>			
Smith (D) , 1978 n=97/97 follow-up:	dextran 70 and pneumatic calf compression versus dextran 70	-	open
<b>IPC vs DHE + low dose heparin</b>			
Mellbring , 1986 n=54/54 follow-up:	peroperative intermittent pneumatic calf compression versus dihydroergotamine (DHE) combined with low-dose heparin (LDH)	patients undergoing Abdominal surgery	Parallel groups open
<b>IPC sequential compression vs Footpump</b>			
Elliott , 1999 n=149 follow-up: NA	Calf-thigh sequential pneumatic compression versus foot pump (plantar venous pneumatic compression)	Trauma patients >13 years old	Parallel groups open (blind assesement) United States
<b>IPC + GCS vs GCS</b>			
Goldhaber , 1995 n=164/166 follow-up: hospital stay	intermittent pneumatic compression (IPC) plus graduated compression stockings (GCS) versus standard compression stockings alone	patients undergoing coronary artery bypass without concomitant valve surgery or coronary endarterectomy	open
Fordyce , 1992 n=NA follow-up:	venous foot pump (A-V Impulse System) versus control	elective hip replacement	open

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<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
Rokito , 1996 n=NA follow-up:	TED stockings and thigh-length cuffs that provided sequential pneumatic compression to the calf and thigh versus bilateral thigh-high thrombosis embolic deterrent (TED) compression stockings (Kendall Company, MA).	neurosurgery	Parallel groups open
Turpie , 1989 n=NA follow-up: 14 days	graduated compression stockings plus intermittent pneumatic compression versus graduated compression stockings alone	neurosurgery	open
Wautrecht , 1996 n=NA	-	neurosurgery	open
Caprini , 1983 n=NA	-	general surgery	open
Lacut , 2005 n=151 follow-up: 1 days	elastic stockings combined with intermittent pneumatic compression versus elastic stockings alone	patients with a documented intracerebral hemorrhage	Parallel groups open
Pambianco , 1995 n=NA	-	stroke	open
<b>IPC + GCS +LMWH vs GCS +LMWH</b>			
Dickinson , 1998 n=23/21 follow-up: 1 month	sequential compression device +enoxaparin (+ GCS) versus enoxaparin (+GCS)	neurosurgery, patients with brain tumors	open
<b>IPC/FID vs GES</b>			
Hansberry , 1991 n=NA	-	-	open
<b>IPC vs LMWH</b>			
Kurtoglu , 2004 n=60/60 follow-up: 1 week after discharge	intermittent pneumatic compression versus LMWH	head/spinal traumatized patients	Parallel groups open Turkey
Warwick excludure , 2002 n=NA	IPCD/FID versus LMWH	-	open

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<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
Ginzburg , 2003 n=224/218 follow-up: 30 days	intermittent pneumatic compression versus LMWH	Trauma patients >18 years old	Parallel groups open United States
<b>IPC + GCS vs LMWH</b>			
Norgren , 1998 n=NA follow-up:	IPCD/FID + GCS versus LMWH	elective knee replacement	open
<b>IPC vs UFH</b>			
Clarke Pearson , 1993 n=NA	-	-	open
Coe (vs UFH) , 1978 n=NA	-	-	open
Hansberry (vs UFH) , 1991 n=NA	-	-	open
Kosir , 1998 n=NA	-	-	open
<b>IPC + GCS vs UFH</b>			
Niolaides , 1983 n=NA follow-up:	IPCD + GCS versus UFH	general surgery	open
Santori , 1994 n=67/65 follow-up:	IPC + GCS versus UFH	elective hip replacement	open
<b>IPC + UFH vs UFH</b>			
Ramos , 1996 n=1355/1196 follow-up:	prophylactic regimen of Pneumatic compression stocking and subcutaneous heparin versus with 5,000 U of subcutaneous heparin every 12 h	cardiac surgery	Parallel groups open
Siragusa (H) , 1994 n=35/35 follow-up:	-	-	Parallel groups open
<b>IPC vs vitamin K antagonists</b>			
Chandhoke , 1992 n=NA follow-up:	-	major urological surgery	open

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Trial	Treatments	Patients	Trials design and methods
paieiment , 1987 n=NA	-	elective hip replacement	open
Kaempffe , 1991 n=NA	-	elective hip & knee replacement	open
<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

More details and results :

- graduated compression stockings for thrombosis prevention in all type of patients at <http://www.trialresultscenter.org/go-Q158>
- mechanical devices for thromboprophylaxis for thrombosis prevention in all type of patients at <http://www.trialresultscenter.org/go-Q402>
- mechanical devices for thromboprophylaxis for thrombosis prevention in general non orthopaedic surgery at <http://www.trialresultscenter.org/go-Q466>

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Entry terms: aspirin, UFH