

Clinical trials of IPC

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1 thrombosis prevention

Trial	Treatments	Patients	Trials design and methods
IPC vs aspirin			
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
IPC + aspirin vs aspirin			
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
thigh Length IPCD vs calf Length IPCD			
Soderdahl , 1997 n=NA follow-up: in hospital	Thigh Length IPCD versus Calf Length IPCD	patients undergoing major urological surgery	Parallel groups open
IPC + GCS vs control			
Turpie , 1989 n=NA follow-up: 14 days	graduated compression stockings plus intermittent pneumatic compression versus untreated control	potential neurosurgical patients	Parallel groups open
IPC + UFH vs control			

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Trial	Treatments	Patients	Trials design and methods
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
IPC sequential compression vs control			
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
IPC single compression vs control			
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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Trial	Treatments	Patients	Trials design and methods
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
IPC unknown type vs control			

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Trial	Treatments	Patients	Trials design and methods
Weitz , 1986 n=5/9 follow-up:	-	-	Parallel groups open
IPCD vs control			
McKenna , 1980 n=10/12 follow-up:	IPCD versus No Prophylaxis	Elective knee replacement	Parallel groups open
IPC + dextran vs dextran			
Smith (D) , 1978 n=97/97 follow-up:	dextran 70 and pneumatic calf compression versus dextran 70	-	open
IPC vs DHE + low dose heparin			
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
IPC sequential compression vs Footpump			
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 assesment) United States
IPC + GCS vs GCS			
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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Trial	Treatments	Patients	Trials design and methods
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
IPC + GCS +LMWH vs GCS +LMWH			
Dickinson , 1998 n=23/21 follow-up: 1 month	sequential compression device +enoxaparin (+ GCS) versus enoxaparin (+GCS)	neurosurgery, patients with brain tumors	open
IPC/FID vs GES			
Hansberry , 1991 n=NA	-	-	open
IPC vs LMWH			
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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Trial	Treatments	Patients	Trials design and methods
Ginzburg , 2003 n=224/218 follow-up: 30 days	intermittent pneumatic compression versus LMWH	Trauma patients >18 years old	Parallel groups open United States
IPC + GCS vs LMWH			
Norgren , 1998 n=NA follow-up:	IPCD/FID + GCS versus LMWH	elective knee replacement	open
IPC vs UFH			
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
IPC + GCS vs UFH			
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
IPC + UFH vs UFH			
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
IPC vs vitamin K antagonists			
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
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

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