

# Clinical trials of IPC sequential compression

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

## 1 DVT prophylaxis

Trial	Treatments	Patients	Trials design and methods
<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 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 assesment) United States

More details and results :

- mechanical devices for thromboprophylaxis for DVT prophylaxis in all type of patients at <http://www.trialresultscenter.org/go-Q402>

## References

### **65279;Blackshear excluder, 1987:**

Blackshear WM Jr, Prescott C, LePain F, Benoit S, Dickstein R, Seifert KB Influence of sequential pneumatic compression on postoperative venous function. *J Vasc Surg* 1987;5:432-6 [[3509596](#)]

### **Hull II, 1990:**

Hull RD, Raskob GE, Gent M, McLoughlin D, Julian D, Smith FC, Dale NI, Reed-Davis R, Lofthouse RN, Anderson C Effectiveness of intermittent pneumatic leg compression for preventing deep vein thrombosis after total hip replacement. *JAMA* 1990;263:2313-7 [[2182917](#)]

### **Fisher, 1995:**

Fisher CG, Blachut PA, Salvian AJ, Meek RN, O'Brien PJ Effectiveness of pneumatic leg compression devices for the prevention of thromboembolic disease in orthopaedic trauma patients: a prospective, randomized study of compression alone versus no prophylaxis. *J Orthop Trauma* 1995;9:1-7 [[7714648](#)]

### **Turpie II, 1979:**

Turpie AG, Delmore T, Hirsh J, Hull R, Genton E, Hiscoe C, Gent M Prevention of venous thrombosis by intermittent sequential calf compression in patients with intracranial disease. *Thromb Res* 1979;15:611-6 [[494166](#)]

### **Knudson, 1994:**

Knudson MM, Lewis FR, Clinton A, Atkinson K, Megerman J Prevention of venous thromboembolism in trauma patients. *J Trauma* 1994;37:480-7 [[8083913](#)]

### **Kosir, 1996:**

Kosir MA, Kozol RA, Perales A, McGee K, Beleski K, Lange P, Dahn M Is DVT prophylaxis overemphasized? A randomized prospective study. *J Surg Res* 1996;60:289-92 [[8598656](#)] [10.1006/jsre.1996.0045](https://doi.org/10.1006/jsre.1996.0045)

### **Elliott, 1999:**

Elliott CG, Dudney TM, Egger M, Orme JF, Clemmer TP, Horn SD, Weaver L, Handrahan D, Thomas F, Merrell S, Kitterman N, Yeates S Calf-thigh sequential pneumatic compression compared with plantar venous pneumatic compression to prevent deep-vein thrombosis after non-lower extremity trauma. *J Trauma* 1999;47:25-32 [[10421182](#)]