

Clinical trials of mechanical devices for thromboprophylaxis for DVT prophylaxis in orthopaedic surgery

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1 GCS (adjunctive therapy)

Trial	Treatments	Patients	Trials design and methods
GCS + dextran vs dextran			
Fredin , 1989 n=44/46 follow-up:	graded compression stockings + dextran versus dextran alone	patients undergoing THR surgery	parallel groups
GCS + LMWH vs LMWH			
Kalodiki (GCS+LMWH vs LMWH) , 1996 n=NA follow-up:	enoxaparin (40 mg once daily) plus graduated elastic compression (TEDR stockings) for 8-12 days versus low molecular weight heparin: (enoxaparin 40 mg once daily)	patients having elective total hip replacement	Parallel groups

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References

Fredin, 1989:

Fredin H, Bergqvist D, Cederholm C, Lindblad B, Nyman U Thromboprophylaxis in hip arthroplasty. Dextran with graded compression or preoperative dextran compared in 150 patients. Acta Orthop Scand 1989;60:678-81 [2483018]

Kalodiki (GCS+LMWH vs LMWH), 1996:

Kalodiki EP, Hoppensteadt DA, Nicolaides AN, Fareed J, Gill K, Regan F, al-Kutoubi A, Cunningham DA, Birch R, Harris N, Hunt D, Johnson J, Marx C Deep venous thrombosis prophylaxis with low molecular weight heparin and elastic compression in patients having total hip replacement. A randomised controlled trial. Int Angiol 1996;15:162-8 [8803642]

2 Graduated compression stockings

Trial	Treatments	Patients	Trials design and methods
GCS vs no prophylaxis			
Barnes , 1978 n=10/8 follow-up:	graded-compression stockings versus nostockings	patients undergoing total hip replacement	parallel groups
*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	

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Trial	Treatments	Patients	Trials design and methods
*Ohlund , 1983 n=NA follow-up:	-	elective total hip arthroplasty	
*Wille-Jorgensen , 1989 n=NA follow-up:	regional anesthesia and graded compression stockings versus general anesthesia	elective hip arthroplasty	
Holford , 1976 n=48/47 follow-up:	Graded compression versus control	patients undergoing major operations	parallel groups
GCS vs LMWH			
Camporese , 2008 n=660/667 follow-up:	full-length graduated compression stocking for 7 days versus once-daily subcutaneous injection of LMWH (nadroparin, 3800 anti-Xa IU) for 7 days or 14 days	patients undergoing knee arthroscopy	Parallel groups open Italy
Knee length GCS vs Thigh length GCS			
Hui THR , 1996 n=18/22 follow-up:	Knee length GCS versus Thigh length GCS	Orthopaedic patients THR	parallel groups
Hui TKR , 1996 n=22/32 follow-up:	Knee length GCS versus Thigh length GCS	Orthopaedic patients TKR	parallel groups
William , 1996 n=NA follow-up:	Knee-length graduated compression stockings versus thigh-length graduated compression stoc	orthopaedic surgery	
GCS vs UFH			
Fasting , 1985 n=NA follow-up:	graded compression stockings (TED stockings, Kendall Co.) versus low-dose heparin (Heparin Leo 5 000 I.U. subcutaneously twice daily)	elective major surgery	Parallel groups

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Barnes RW, Brand RA, Clarke W, Hartley N, Hoak JC Efficacy of graded-compression antiembolism stockings in patients undergoing total hip arthroplasty. Clin Orthop Relat Res 1978;;61-7 [679555]

*Inada, 1983:

Inada K, Shirai N, Hayashi M, Matsumoto K, Hirose M Postoperative deep venous thrombosis in Japan. Incidence and prophylaxis. Am J Surg 1983;145:775-9 [6859416]

*Ohlund, 1983:

Ohlund C, Fransson SG, Starck SA Calf compression for prevention of thromboembolism following hip surgery. Acta Orthop Scand 1983;54:896-9 [6367345]

*Wille-Jorgensen, 1989:

Wille-Jrgensen P, Christensen SW, Bjerg-Nielsen A, Stadeager C, Kjaer L Prevention of thromboembolism following elective hip surgery. The value of regional anesthesia and graded compression stockings. Clin Orthop Relat Res 1989;:163-7 [2791385]

Holford, 1976:

Holford CP Graded compression for preventing deep venous thrombosis. Br Med J 1976;2:969-70 [788855]

Camporese, 2008:

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Williams AM, Davies PR, Sweetnam DI, Harper G, Pusey R, Lightowler CD Knee-length versus thigh-length graduated compression stockings in the prevention of deep vein thrombosis. Br J Surg 1996;83:1553 [9014671]

Fasting, 1985:

Fasting H, Andersen K, Kraemmer Nielsen H, Husted SE, Koopmann HD, Simonsen O, Husegaard HC, Vestergaard Madsen J, Pedersen TK Prevention of postoperative deep venous thrombosis. Low-dose heparin versus graded pressure stockings. Acta Chir Scand 1985;151:245-8 [3892994]

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3 About TrialResults-center.org

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Rigorous meta-analysis method is used to populate TrialResults-center: widespread search of published and non published trials, study selection using pre-specified criteria, data extraction using standard form.

TrialResults-center is continually updated on a weekly basis. We continually search all new results (whatever their publication channel) and these news results are immediately added to the database with a maximum of 1 week.

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