

# Clinical trials of heparin (UFH or LMWH) for thrombosis prevention in neurosurgery

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

## 1 low molecular weight heparin

Trial	Treatments	Patients	Trials design and methods
<b>enoxaparin vs placebo</b>			
<b>Agnelli , 1998</b> n=153/154 follow-up: 30 days	Enoxaparin, 40 mg/d subcutaneously within 24 hours postoperatively plus compression stockings for >=7 days versus compression stockings + placebo	Elective neurosurgery, 18 years or older, without excess bleeding risk	
<b>Melon , 1987</b> n=67/63 follow-up: NA	Enoxaparin, 20 mg/d subcutaneously 18-24 hours postoperatively for 10 days versus placebo	Neurosurgery, adult, 45-90 kg of weight, without excess bleeding risk	
<b>nadroparin vs placebo</b>			
<b>Nurmohamed , 1996</b> n=241/244 follow-up: 56 days	Nadroparin, 7500 Institute Choay anti-Xa units per day subcutaneously 18-24 hours postoperatively plus compression for 10 days versus compression stockings + placebo	Craniotomy or spinal surgery for tumor or injury, 18 years or older, without excess bleeding risk	

## References

### Agnelli, 1998:

Agnelli G, Piovella F, Buoncristiani P, Severi P, Pini M, D'Angelo A, Beltrametti C, Damiani M, Andrioli GC, Pugliese R, Iorio A, Brambilla G Enoxaparin plus compression stockings compared with compression stockings alone in the prevention of venous thromboembolism after elective neurosurgery. *N Engl J Med* 1998;339:80-5 [[9654538](#)]

### Melon, 1987:

Melon E, Keravel Y, Gaston A, Huet Y, Combes S, and the NEURONOX groupj Deep venous thrombosis prophylaxis by low molecular weight heparin in neurosurgical patients [abstract *Anesthesiology*. 1987;75:A214

### Nurmohamed, 1996:

Nurmohamed MT, van Riel AM, Henkens CM, Koopman MM, Que GT, d'Azemar P, Bller HR, ten Cate JW, Hoek JA, van der Meer J, van der Heul C, Turpie AG, Haley S, Sicurella A, Gent M Low molecular weight heparin and compression stockings in the prevention of venous thromboembolism in neurosurgery. *Thromb Haemost* 1996;75:233-8 [[8815566](#)]

## 2 unfractionated heparin

Trial	Treatments	Patients	Trials design and methods
<b>UFH vs no treatment</b>			
Cerrato , 1978 n=50/50 follow-up: NA	Unfractionated heparin, 5000 IU subcutaneously 3 times a day, starting 2 hours preoperatively for +7 days versus no treatment	Elective neurosurgery for tumors, 40 years or older	

## References

### Cerrato, 1978:

Cerrato D, Ariano C, Fiacchino F Deep vein thrombosis and low-dose heparin prophylaxis in neurosurgical patients. J Neurosurg 1978;49:378-81 [681999]

## 3 About TrialResults-center.org

TrialResults-center is an innovative knowledge database that collects the results of RCTs and provides dynamic interactive systematic reviews and meta-analysis in the field of all major heart and vessels diseases.

The TrialResults-center database provides a unique view of the treatment efficacy based on all data provided directly from clinical trial results, offering a valuable alternative to personal bibliographic search, published meta-analysis, etc. Furthermore, it would allow comparing easily the various concurrent therapeutic for the same clinical condition.

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.

TrialResults-center is non-profit and self-funded.