

# Clinical trials of anticoagulant

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

## 1 acute myocardial infarction

| Trial   | Treatments   | Patients                                 | Trials design and methods       |
|---|--|--|---------------------------------|
| <b>any anticoagulant vs placebo</b>                                       |  |  |                                 |
| <b>Sixty Plus reinfarction Study , 1980</b><br>n=NA<br>follow-up: 2 years | anticoagulant<br>versus<br>placebo                         | over 60 years of age                     | Parallel groups<br>double blind |
| <b>any anticoagulant vs aspirin</b>                                       |  |  |                                 |
| <b>EPSIM , 1982</b><br>n=652/651<br>follow-up: 29 months<br>(range 6-59)  | anticoagulant<br>versus<br>aspirin 500mg three times daily | patients surviving myocardial infarction | Parallel groups<br>open         |

└ More details and results :

- antithrombotics for acute myocardial infarction in all type of patients at <http://www.trialresultscenter.org/go-Q36>
- anticoagulant for acute myocardial infarction in all type of patients at <http://www.trialresultscenter.org/go-Q172>

## References

### Sixty Plus reinfarction Study, 1980:

A double-blind trial to assess long-term oral anticoagulant therapy in elderly patients after myocardial infarction. Report of the Sixty Plus Reinfarction Study Research Group. Lancet 1980;2:989-94 [6107674]

### EPSIM, 1982:

A controlled comparison of aspirin and oral anticoagulants in prevention of death after myocardial infarction. N Engl J Med 1982;307:701-8 [7050710]

## 2 post stroke

| Trial                                    | Treatments | Patients | Trials design and methods |
|--|------------|----------|---------------------------|
| <b>anticoagulant vs no anticoagulant</b> |            |          |                           |

continued...

| <b>Trial</b>  | <b>Treatments</b>  | <b>Patients</b> | <b>Trials design and methods</b>       |
|---|--|-----------------|--|
| <b>Baker , 1964</b><br>n=NA<br>follow-up:               | unnamed anticoagulant (TQ (2 to 2.5 times control in seconds), started in hospital<br>versus<br>no treatment | -               | Parallel groups<br>open                |
| <b>Bradshaw , 1975</b><br>n=NA<br>follow-up:            | warfarin or phenindione for 18 mo; TP time 2x control<br>versus<br>no treatment                              | -               | Parallel groups<br>open<br>UK          |
| <b>LHSPS , 1999</b><br>n=NA<br>follow-up: 2 years       | unfractionated heparin 12.500 IU/d plus usual therapy<br>versus<br>usual therapy                             | -               | Parallel groups<br>open<br>Italy       |
| <b>VA Study , 1961</b><br>n=NA<br>follow-up: 11 months  | coumadin or dicumarol, prothrombin activity 20% of normal<br>versus<br>no treatment                          | -               | Parallel groups<br>open<br>USA         |
| <b>Wallace , 1964</b><br>n=NA<br>follow-up: 9.75 months | phenindione or warfarin, Quick test 20% to 35% of normal (50% after 10 months)<br>versus<br>no treatment     | -               | Parallel groups<br>open<br>Australia   |
| <b>anticoagulant vs placebo</b>                         |  |                 |  |
| <b>McDevitt , 1959</b><br>n=NA<br>follow-up: 34 months  | dicumarol or warfarin, Quisk test 2 to 2.5 times control in seconds<br>versus<br>placebo                     | -               | Parallel groups<br>single-blind<br>USA |

More details and results :

- anticoagulant for post stroke in all type of patients at <http://www.trialresultscenter.org/go-Q413>

## References

### **Baker, 1964:**

- Baker RN, Schwartz WS, Rose MD Transient ischemic strokes. A report of a study of anticoagulant therapy. Neurology 1966;16:841-7.  
 Baker RN, Schwartz WS, Rose MD Transient ischemic strokes. A report of a study of anticoagulant therapy. Neurology 1966;16:841-7.  
 Baker RN, Schwartz WS, Rose MD Transient ischemic strokes. A report of a study of anticoagulant therapy. Neurology 1966;16:841-7.

### **Bradshaw, 1975:**

Bradshaw P, Brennan S Trial of long-term anticoagulant therapy in the treatment of small stroke associated with a normal carotid angiogram. Journal of Neurology, Neurosurgery and Psychiatry 1975;38:642-7.

Bradshaw P, Brennan S Trial of long-term anticoagulant therapy in the treatment of small stroke associated with a normal carotid angiogram. Journal of Neurology, Neurosurgery and Psychiatry 1975;38:642-7.

Bradshaw P, Brennan S Trial of long-term anticoagulant therapy in the treatment of small stroke associated with a normal carotid angiogram. Journal of Neurology, Neurosurgery and Psychiatry 1975;38:642-7.

**LHSPS, 1999:**

Fortini A, Bonechi G, Carnovali M, Olivo G, Rinaldi G, Gensini GF Multi-centric study on ischemic cerebral re-infarct prevention with low-dose heparin: the informatic system [Sistema informatico dello studio clinico controllato multicentrico sulla prevenzione del reinfarto cerebrale ischemico con eparina a basso dosaggio]. Rivista di Neurobiologica

Fortini A, Bonechi G, Carnovali M, Olivo G, Rinaldi G, Gensini GF Multi-centric study on ischemic cerebral re-infarct prevention with low-dose heparin: the informatic system [Sistema informatico dello studio clinico controllato multicentrico sulla prevenzione del reinfarto cerebrale ischemico con eparina a basso dosaggio]. Rivista di Neurobiologica

Fortini A, Bonechi G, Carnovali M, Olivo G, Rinaldi G, Gensini GF Multi-centric study on ischemic cerebral re-infarct prevention with low-dose heparin: the informatic system [Sistema informatico dello studio clinico controllato multicentrico sulla prevenzione del reinfarto cerebrale ischemico con eparina a basso dosaggio]. Rivista di Neurobiologica

**VA Study, 1961:**

Baker RN. An evaluation of anticoagulant therapy in the treatment of cerebrovascular disease. Report of the Veterans Administration Cooperative Study of Atherosclerosis, Neurology Section Neurology 1961;11:1328.

**Wallace, 1964:**

WALLACE DC CEREBRAL VASCULAR DISEASE IN RELATION TO LONG-TERM ANTICOAGULANT THERAPY. J Chronic Dis 1964;17:527-37 [[14168625](#)]

**McDevitt, 1959:**

McDEVITT E, GROCH SN, WRIGHT IS A cooperative study of cerebrovascular disease; methodology and a preliminary report on the use of anticoagulants. Circulation 1959;20:215-23 [[13671708](#)]

McDowell F, McDevitt E, Wright IS. Anticoagulant therapy: five years experience with the patient with an established cerebrovascular accident.-ms Archives of Neurology 1963;8:20914

### 3 post myocardial infarction

| Trial  | Treatments                         | Patients             | Trials design and methods       |
|--|------------------------------------|----------------------|---------------------------------|
| <b>any anticoagulant vs placebo</b>  |                                    |                      |                                 |
| <a href="#">Sixty Plus reinfarction Study , 1980</a><br>n=NA<br>follow-up: 2 years | anticoagulant<br>versus<br>placebo | over 60 years of age | Parallel groups<br>double blind |
| <b>any anticoagulant vs aspirin</b>  |                                    |                      |                                 |

continued...

| Trial   | Treatments   | Patients                                 | Trials design and methods |
|---|--|--|---------------------------|
| EPSIM , 1982<br>n=652/651<br>follow-up: 29 months<br>(range 6-59) | anticoagulant<br>versus<br>aspirin 500mg three times daily | patients surviving myocardial infarction | Parallel groups<br>open   |

More details and results :

- anticoagulant for post myocardial infarction in all type of patients at <http://www.trialresultscenter.org/go-Q173>

## References

### Sixty Plus reinfarction Study, 1980:

A double-blind trial to assess long-term oral anticoagulant therapy in elderly patients after myocardial infarction. Report of the Sixty Plus Reinfarction Study Research Group. Lancet 1980;2:989-94 [6107674]

### EPSIM, 1982:

A controlled comparison of aspirin and oral anticoagulants in prevention of death after myocardial infarction. N Engl J Med 1982;307:701-8 [7050710]

## 4 cardiovascular prevention

| Trial                                    | Treatments | Patients | Trials design and methods |
|--|------------|----------|---------------------------|
| <b>anticoagulant vs no anticoagulant</b> |            |          |                           |
| MacMillan , 1960<br>n=NA                 | -          | -        |                           |
| Borchegrevink , 1960<br>n=NA             | -          | -        |                           |
| Clausen , 1961<br>n=NA                   | -          | -        |                           |
| Harvald , 1961<br>n=NA                   | -          | -        |                           |
| Conrad , 1964<br>n=NA                    | -          | -        |                           |
| Wasserman , 1966<br>n=NA                 | -          | -        |                           |
| Loeliger , 1967<br>n=NA                  | -          | -        |                           |

continued...

| Trial                                 | Treatments | Patients | Trials design and methods |
|---------------------------------------|------------|----------|---------------------------|
| Lovell , 1967<br>n=NA                 | -          | -        |                           |
| Seaman , 1969<br>n=NA                 | -          | -        |                           |
| Sorensen , 1969<br>n=NA               | -          | -        |                           |
| Meuwisse, , 1969<br>n=NA              | -          | -        |                           |
| Drapkin and Merskey ,<br>1972<br>n=NA | -          | -        |                           |

More details and results :

- anticoagulant for cardiovascular prevention in secondary prevention at <http://www.trialresultscenter.org/go-Q481>

## References

### MacMillan, 1960:

MACMILLAN RL, BROWN K, WATT DL Long-term anticoagulant therapy after myocardial infarction. Can Med Assoc J 1960;83:567-70 [14419608]

MACMILLAN RL, BROWN K, WATT DL Long-term anticoagulant therapy after myocardial infarction. Can Med Assoc J 1960;83:567-70 [14419608]

### Borchegrevink, 1960:

#### Clausen, 1961:

CLAUSEN J, ANDERSEN PE, ANDRESEN P, GRUELUND S, HARSLOF E, ANDERSEN UH, JORGENSEN J, MOSE C [Long-term anticoagulant treatment after acute coronary occlusion. Material with complete comparison with control material]. Ugeskr Laeger 1961;123:987-94 [13693953]

#### Harvald, 1961:

#### Conrad, 1964:

CONRAD LL, KYRIACOPOULOS JD, WIGGINS CW, HONICK GL PREVENTION OF RECURRENCES OF MYOCARDIAL INFARCTION; A DOUBLE-BLIND STUDY OF THE EFFECTIVENESS OF LONG-TERM ORAL ANTICOAGULANT THERAPY. Arch Intern Med 1964;114:348-58 [14171625]

#### Wasserman, 1966:

Wasserman AJ, Gutterman LA, Yoe KB, Kemp VE Jr, Richardson DW Anticoagulants in acute myocardial infarction. The failure of anticoagulants to alter mortality in a randomized series. Am Heart J 1966;71:43-9 [5900864]

#### Loeliger, 1967:

Loeliger EA, Hensen A, Kroes F, van Dijk LM, Fekkes N, de Jonge H, Hemker HC A double-blind trial of long-term anticoagulant treatment after myocardial infarction. Acta Med Scand 1967;182:549-66 [4862156]

#### Lovell, 1967:

#### Seaman, 1969:

Seaman AJ, Griswold HE, Reaume RB, Ritzmann L Long-term anticoagulant prophylaxis after myocardial infarction. N Engl J Med 1969;281:115-9 [4307139] 10.1056/NEJM196907172810301

**Sorensen, 1969:**

Sorensen OH, Friis T, Jorgensen AW, Jorgensen MB, Nissen NI Anticoagulant treatment of acute coronary thrombosis. Acta Med Scand 1969;185:65-72 [4185116]

**Meuwisse,, 1969:**

Meuwissen OJ, Vervoorn AC, Cohen O, Jordan FL, Nelemans FA Double blind trial of long-term anticoagulant treatment after myocardial infarction. Acta Med Scand 1969;186:361-8 [4985108]

**Drapkin and Merskey, 1972:**

Drapkin A, Merskey C Anticoagulant therapy after acute myocardial infarction. Relation of therapeutic benefit to patient's age, sex, and severity of infarction. JAMA 1972;222:541-8 [4117261]

## 5 atrial fibrillation

| Trial  | Treatments   | Patients  | Trials design and methods |
|--|--|---|---------------------------|
| <b>oral anticoagulant vs placebo</b>             |  |   |                           |
| EAFT , 1993<br>n=225/214<br>follow-up: 2.3 years | Oral anticoagulation standard dose(target INR 3.0 (2.5-4.0)) the choice of anticoagulant type was free but most physicians choose coumarin derivatives.<br>versus<br>placebo | Patient with non rheumatic AF and recent TIA or minor ischaemic stroke(secondary prevention). | Parallel groups<br>Open   |

More details and results :

- antithrombotics for atrial fibrillation in secondary prevention of thromboembolic events at <http://www.trialresultscenter.org/go-Q392>

## References

**EAFT, 1993:**

Secondary prevention in non-rheumatic atrial fibrillation after transient ischaemic attack or minor stroke. EAFT (European Atrial Fibrillation Trial) Study Group. Lancet. 1993 Nov 20;342(8882):1255-62 [7901582]

## 6 coronary artery disease

| Trial                                    | Treatments | Patients | Trials design and methods |
|--|------------|----------|---------------------------|
| <b>anticoagulant vs no anticoagulant</b> |            |          |                           |
| MacMillan , 1960<br>n=NA                 | -          | -        |                           |
| Borchegrevink , 1960<br>n=NA             | -          | -        |                           |
| Clausen , 1961<br>n=NA                   | -          | -        |                           |
| Harvald , 1961<br>n=NA                   | -          | -        |                           |
| Conrad , 1964<br>n=NA                    | -          | -        |                           |
| Wasserman , 1966<br>n=NA                 | -          | -        |                           |
| Loeliger , 1967<br>n=NA                  | -          | -        |                           |
| Lovell , 1967<br>n=NA                    | -          | -        |                           |
| Seaman , 1969<br>n=NA                    | -          | -        |                           |
| Sorensen , 1969<br>n=NA                  | -          | -        |                           |
| Meuwisse , , 1969<br>n=NA                | -          | -        |                           |
| Drapkin and Merskey ,<br>1972<br>n=NA    | -          | -        |                           |

More details and results :

- anticoagulant for coronary artery disease in all type of patients at <http://www.trialresultscenter.org/go-Q673>

## References

### MacMillan, 1960:

MACMILLAN RL, BROWN K, WATT DL Long-term anticoagulant therapy after myocardial infarction. Can Med Assoc J 1960;83:567-70 [14419608]

MACMILLAN RL, BROWN K, WATT DL Long-term anticoagulant therapy after myocardial infarction. Can Med Assoc J 1960;83:567-70 [14419608]

### Borchegrevink, 1960:

### Clausen, 1961:

CLAUSEN J, ANDERSEN PE, ANDRESEN P, GRUELUND S, HARSLOF E, ANDERSEN UH, JORGENSEN J, MOSE C [Long-term anticoagulant treatment after acute coronary occlusion. Material with complete comparison with control material]. Ugeskr Laeger 1961;123:987-94 [[13693953](#)]

**Harvald, 1961:**

**Conrad, 1964:**

CONRAD LL, KYRIACOPOULOS JD, WIGGINS CW, HONICK GL PREVENTION OF RECURRENCES OF MYOCARDIAL INFARCTION; A DOUBLE-BLIND STUDY OF THE EFFECTIVENESS OF LONG-TERM ORAL ANTICOAGULANT THERAPY. Arch Intern Med 1964;114:348-58 [[14171625](#)]

**Wasserman, 1966:**

Wasserman AJ, Gutterman LA, Yoe KB, Kemp VE Jr, Richardson DW Anticoagulants in acute myocardial infarction. The failure of anticoagulants to alter mortality in a randomized series. Am Heart J 1966;71:43-9 [[5900864](#)]

**Loeliger, 1967:**

Loeliger EA, Hensen A, Kroes F, van Dijk LM, Fekkes N, de Jonge H, Hemker HC A double-blind trial of long-term anticoagulant treatment after myocardial infarction. Acta Med Scand 1967;182:549-66 [[4862156](#)]

**Lovell, 1967:**

**Seaman, 1969:**

Seaman AJ, Griswold HE, Reaume RB, Ritzmann L Long-term anticoagulant prophylaxis after myocardial infarction. N Engl J Med 1969;281:115-9 [[4307139](#)]  
[10.1056/NEJM196907172810301](#)

**Sorensen, 1969:**

Sorensen OH, Friis T, Jorgensen AW, Jorgensen MB, Nissen NI Anticoagulant treatment of acute coronary thrombosis. Acta Med Scand 1969;185:65-72 [[4185116](#)]

**Meuwisse,, 1969:**

Meuwissen OJ, Vervoorn AC, Cohen O, Jordan FL, Nelemans FA Double blind trial of long-term anticoagulant treatment after myocardial infarction. Acta Med Scand 1969;186:361-8 [[4985108](#)]

**Drapkin and Merskey, 1972:**

Drapkin A, Merskey C Anticoagulant therapy after acute myocardial infarction. Relation of therapeutic benefit to patient's age, sex, and severity of infarction. JAMA 1972;222:541-8 [[4117261](#)]

## 7 pulmonary embolism

| Trial  | Treatments  | Patients                         | Trials design and methods |
|--|---|----------------------------------|---------------------------|
| <b>anticoagulant vs no anticoagulant</b>               |   |                                  |                           |
| <a href="#">BARRIT , 1960</a><br>n=16/19<br>follow-up: | heparin IV 10000 UI every 6 hours for 6 doses, nicoumalone adjusted for prothrombin time between 2-3x control versus no anticoagulant | patients with pulmonary embolism | Parallel groups<br>open   |

More details and results :

- antithrombotics for pulmonary embolism in all type of patients at <http://www.trialresultscenter.org/go-Q102>

## References

### **BARRIT, 1960:**

BARRITT DW, JORDAN SC Anticoagulant drugs in the treatment of pulmonary embolism. A controlled trial. Lancet 1960 Jun 18;1:1309-12 [[13797091](#)]