

# Clinical trials of aspirin

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

## 1 acute myocardial infarction

Trial	Treatments	Patients	Trials design and methods
<b>aspirin vs control</b>			
<a href="#">Huddinge , 1988</a> n=10/10 follow-up: 30d (12m)	aspirin 500mg/d starting 12 h after admission and then intermittently every third day for one month versus no aspirin	patients with acute myocardial infarction	Parallel groups open
<a href="#">Frankfurt , 1976</a> n=25/28 follow-up: 14d	-	-	Parallel groups
<b>aspirin vs placebo</b>			
<a href="#">ISIS-pilot , 1987</a> n=313/306 follow-up: 1m	aspirin (325 mg on alternate days for 28 days) versus placebo	suspected acute myocardial infarction	Parallel groups double blind
<a href="#">ISIS-2 , 1988</a> n=8587/8600 follow-up: 35d	160 mg/day enteric-coated aspirin for one month versus placebo	suspected acute myocardial up to 24h	Parallel groups double blind
<a href="#">Dutch-aspirin , 1990</a> n=50/50 follow-up: 3m	aspirin (100 mg/day) for 3 months versus placebo	patients with first anterior wall AMI	Parallel groups double blind
<a href="#">APRICOT , 1993</a> n=107/95 follow-up: 3m	325 mg aspirin daily with discontinuation of heparin versus placebo	Patients treated with intravenous thrombolytic therapy followed by intravenous heparin and with patent infarct-related artery demonstrated at angiography within 48 hours	Parallel groups double blind The Netherlands

More details and results :

- antiplatelets drug for acute myocardial infarction in all type of patients at <http://www.trialresultscenter.org/go-Q390>

## References

### Huddinge, 1988:

Rasmanis G, Vesterqvist O, Gren K, Edhag O, Henriksson P Effects of intermittent treatment with aspirin on thromboxane and prostacyclin formation in patients with acute myocardial infarction. Lancet 1988;2:245-7 [2899236]

### Frankfurt, 1976:

Asasantin DVT nach Myokardinfarktp, imag Boehringer Ingelheim, 1976. (Boehringer Ingelheim internal report.)

### ISIS-pilot, 1987:

Randomized factorial trial of high-dose intravenous streptokinase, of oral aspirin and of intravenous heparin in acute myocardial infarction. ISIS (International Studies of Infarct Survival) pilot study. Eur Heart J 1987;8:634-42 [2887430]

### ISIS-2, 1988:

Randomised trial of intravenous streptokinase, oral aspirin, both, or neither among 17,187 cases of suspected acute myocardial infarction: ISIS-2. ISIS-2 (Second International Study of Infarct Survival) Collaborative Group. Lancet 1988;2:349-60 [2899772]

### Dutch-aspirin, 1990:

Verheugt FW, van der Laarse A, Funke-Kpper AJ, Sterkman LG, Galema TW, Roos JP Effects of early intervention with low-dose aspirin (100 mg) on infarct size, reinfarction and mortality in anterior wall acute myocardial infarction. Am J Cardiol 1990;66:267-70 [2195861]

### APRICOT, 1993:

Meijer A, Verheugt FW, Werter CJ, Lie KI, van der Pol JM, van Eenige MJ Aspirin versus coumadin in the prevention of reocclusion and recurrent ischemia after successful thrombolysis: a prospective placebo-controlled angiographic study. Results of the APRICOT Study. Circulation 1993;87:1524-30 [8491007]

## 2 post stroke

Trial	Treatments	Patients	Trials design and methods
<b>aspirin vs placebo</b>			
Canadian study (CCSG) , 1978 n=144/139 follow-up: ND	aspirin 325 mg/d versus placebo	-	Factorial plan Double blind
Swedish study , 1987 n=253/252 follow-up: 2 y	aspirin 1,500 mg/d versus placebo	-	
UK-TIA low dose , 1988 n=806/814 follow-up: 4 y	aspirin 300 mg/d versus placebo	-	
UK-TIA high dose , 1988 n=815/814 follow-up: 2y	aspirin 1,200 mg/d versus placebo	-	

continued...

Trial	Treatments	Patients	Trials design and methods
SALT , 1991 n=676/684 follow-up: 32 mo	aspirin 75 mg/d versus placebo	-	
Reuther , 1976 n=30/30 follow-up: 2 y	aspirin 1,500 mg/d versus placebo	-	
AITA , 1975 n=162/157 follow-up: 1 y	aspirin 1,300 mg/d versus placebo	-	
DCS , 1980 n=101/102 follow-up: 25 mo	aspirin 1,000 mg/d versus placebo	-	
AICLA , 1981 n=198/204 follow-up: 3 y	aspirin 990 mg/d versus placebo	-	
Lindblad , 1991 n=117/115 follow-up: 6 mo	aspirin 75 mg/d, during 6 months versus placebo	-	
Danish low-dose , 1986 n=150/151 follow-up: 23 mo	aspirin 50-100 mg/d (mean 54 mg/d) versus placebo	-	
ESPS 2 , 1996 n=1649/1649 follow-up: 2 y	aspirin 50 mg/d versus placebo	-	

More details and results :

- antiplatelets drug for post stroke in all type of patients at <http://www.trialresultscenter.org/go-Q411>

## References

### Canadian study (CCSG), 1978:

A randomized trial of aspirin and sulfinpyrazone in threatened stroke. The Canadian Cooperative Study Group. N Engl J Med 1978;299:53-9 [351394] 10.1056/NEJM197807132990201

### Swedish study , 1987:

High-dose acetylsalicylic acid after cerebral infarction. A Swedish Cooperative Study. Stroke 1987;18:325-34 [2882626]

### UK-TIA low dose , 1988:

Farrell B, Godwin J, Richards S, Warlow C The United Kingdom transient ischaemic attack (UK-TIA) aspirin trial: final results. J Neurol Neurosurg Psychiatry 1991;54:1044-54 [1783914]

### UK-TIA high dose , 1988:

Farrell B, Godwin J, Richards S, Warlow C The United Kingdom transient ischaemic attack (UK-TIA) aspirin trial: final results. *J Neurol Neurosurg Psychiatry* 1991;54:1044-54 [[1783914](#)]

**SALT , 1991:**

Swedish Aspirin Low-Dose Trial (SALT) of 75 mg aspirin as secondary prophylaxis after cerebrovascular ischaemic events. The SALT Collaborative Group. *Lancet* 1991;338:1345-9 [[1682734](#)]

**Reuther , 1976:**

Stuttgart Schattauer 1978;97-106 [[0](#)]

**AITA, 1975:**

Fields WS, Lemak NA, Frankowski RF, Hardy RJ Controlled trial of aspirin in cerebral ischemia. Part II: surgical group. *Stroke* 1978;9:309-19 [[354098](#)]

**DCS, 1980:**

Sorensen PS, Pedersen H, Marquardsen J, Petersson H, Heltberg A, Simonsen N, Munck O, Andersen LA Acetylsalicylic acid in the prevention of stroke in patients with reversible cerebral ischemic attacks. A Danish cooperative study. *Stroke* 1983;14:15-22 [[6337425](#)]

**AICLA, 1981:**

Bousser MG, Eschwege E, Haguenu M, Lefaucconnier JM, Thibult N, Touboul D, Touboul PJ "AICLA" controlled trial of aspirin and dipyridamole in the secondary prevention of athero-thrombotic cerebral ischemia. *Stroke* 1983;14:5-14 [[6401878](#)]

**Lindblad , 1991:**

Lindblad B, Persson NH, Takolander R, Bergqvist D Does low-dose acetylsalicylic acid prevent stroke after carotid surgery? A double-blind, placebo-controlled randomized trial. *Stroke* 1993;24:1125-8 [[8342184](#)]

**Danish low-dose, 1986:**

Barnett HJ, Eliasziw M, Meldrum HE Drugs and surgery in the prevention of ischemic stroke. *N Engl J Med* 1995;332:238-48 [[7808491](#)] [10.1056/NEJM199501263320408](#)

**ESPS 2 , 1996:**

Diener HC, Cunha L, Forbes C, Sivenius J, Smets P, Lowenthal A European Stroke Prevention Study. 2. Dipyridamole and acetylsalicylic acid in the secondary prevention of stroke. *J Neurol Sci* 1996;143:1-13 [[8981292](#)]

### 3 post myocardial infarction

Trial	Treatments	Patients	Trials design and methods
<b>aspirin vs placebo</b>			
<a href="#">CDPA , 1976</a> n=758/771 follow-up: 1.83 y	Aspirin (324 mg) 3x/d versus Placebo	MI survivors	Parallel groups Double blind USA
<a href="#">Cardiff I , 1974</a> n=615/624 follow-up: 2 years	Aspirin (300 mg) 1x/d versus Placebo	MI survivors	Parallel groups Double blind UK

continued...

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>Cardiff II , 1979</b> n=832/850 follow-up: 1 y	Aspirin (300 mg) 3x/d for one year versus Placebo	patients with myocardial infarction	Parallel groups Double blind South Wales
<b>Vogel , 1979</b> n=672/668 follow-up: 1.75 y (mean)	Aspirin (1.5 g daily) on an average period of 22 months versus Placebo	-	Parallel groups Double blind Germany
<b>AMIS , 1980</b> [NCT00000491] n=2267/2257 follow-up: >3 y	Aspirin (500 mg) 2x/d for at least 3 years versus Placebo	men and women who had had a documented myocardial infarction	Parallel groups Double blind USA
<b>GAMIS , 1980</b> n=317/309 follow-up: 2 y	Aspirin (500 mg) 3x/d for 2 years versus Placebo	patients who had survived a myocardial infarction for 30-42 days	Parallel groups Double blind Germany, Austria,
<b>PARIS , 1980</b> n=810/406 follow-up: 41 mo	Aspirin (324 mg) 3x/d versus Placebo	patients who had recovered from myocardial infarction	Parallel groups Double blind USA, UK
<b>JAMIS , 1999</b> n=250/230 follow-up: 1.3 y (mean)	Aspirin (81 mg) 1x/d versus No antiplatelets	patients with AMI within 1 month from the onset of symptoms	Parallel groups Open Japan
<b>dipyridamol + aspirin vs placebo</b>			
<b>PARIS , 1980</b> n=810/406 follow-up: 41 months (mean)	Aspirin (324 mg) + dipyridamole (75 mg) 3x/d versus Placebo	patients who had recovered from myocardial infarction	Parallel groups Double blind USA and UK
<b>PARIS-II , 1986</b> n=1563/1565 follow-up: 23.4 months	Aspirin (330 mg) + dipyridamole (75 mg) 3x/d versus Placebo	patients who had recovered from myocardial infarction, suffered from 4 weeks to 4 months previously	Parallel groups Double blind USA and UK
<b>dipyridamol + aspirin vs aspirin</b>			
<b>PARIS , 1980</b> n=810/810 follow-up: 41 months	Aspirin (324 mg) + dipyridamole (75 mg) 3x/d versus Aspirin (324 mg) 3x/d	patients who had recovered from myocardial infarction	Parallel groups Double blind USA and GB

More details and results :

- antiplatelets drug for post myocardial infarction in all type of patient at <http://www.trialresultscenter.org/go-Q277>
- secondary prevention for post myocardial infarction in all type of patients at <http://www.trialresultscenter.org/go-Q449>

## References

### CDPA, 1976:

, Aspirin in coronary heart disease. The Coronary Drug Project Research Group. J Chronic Dis 1976; 29:625-42 [789390]

### Cardiff I, 1974:

Elwood P, Trial of acetylsalicylic acid in the secondary prevention of mortality from myocardial infarction. Br Med J (Clin Res Ed) 1981; 282:481 [6780093]

### Cardiff II, 1979:

Elwood PC, Sweetnam PM, Aspirin and secondary mortality after myocardial infarction. Lancet 1979; 2:1313-5 [92668]

### Vogel, 1979:

Folia Haematol 1979; 106:797-803 [0]

### AMIS, 1980:

, The aspirin myocardial infarction study: final results. The Aspirin Myocardial Infarction Study research group. Circulation 1980; 62:V79-84 [7438383]

, A randomized, controlled trial of aspirin in persons recovered from myocardial infarction. JAMA 1980; 243:661-9 [6985998]

### GAMIS, 1980:

Breiddin K, Loew D, Lechner K, Oberla K, Walter E, The German-Austrian aspirin trial: a comparison of acetylsalicylic acid, placebo and phenprocoumon in secondary prevention of myocardial infarction. On behalf of the German-Austrian Study Group. Circulation 1980; 62:V63-72 [6777073]

### PARIS, 1980:

, Persantine and aspirin in coronary heart disease. The Persantine-Aspirin Reinfarction Study Research Group. Circulation 1980; 62:449-61 [7398002]

### JAMIS, 1999:

Yasue H, Ogawa H, Tanaka H, Miyazaki S, Hattori R, Saito M, Ishikawa K, Masuda Y, Yamaguchi T, Motomiya T, Tamura Y, Effects of aspirin and trapidil on cardiovascular events after acute myocardial infarction. Japanese Antiplatelets Myocardial Infarction Study (JAMIS) Investigators. Am J Cardiol 1999; 83:1308-13 [10235086]

### PARIS, 1980:

, Persantine and aspirin in coronary heart disease. The Persantine-Aspirin Reinfarction Study Research Group. Circulation 1980; 62:449-61 [7398002]

, Persantine and aspirin in coronary heart disease. The Persantine-Aspirin Reinfarction Study Research Group. Circulation 1980; 62:449-61 [7398002]

### PARIS-II, 1986:

Klimt CR, Knatterud GL, Stamler J, Meier P, Persantine-Aspirin Reinfarction Study. Part II. Secondary coronary prevention with persantine and aspirin. J Am Coll Cardiol 1986; 7:251-69 [2868029]

### PARIS, 1980:

, Persantine and aspirin in coronary heart disease. The Persantine-Aspirin Reinfarction Study Research Group. Circulation 1980; 62:449-61 [7398002]

## 4 cardiovascular prevention

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>rivaroxaban + aspirin vs aspirin</b>			
COMPASS (rivaroxaban + aspirin) , 2017 [NCT01776424] n=9152/9126 follow-up: 23 months	rivaroxaban (2.5 mg twice daily) plus aspirin (100 mg once daily) versus aspirin 100 mg once daily	Patients With Coronary or Peripheral Artery Disease	Parallel groups double-blind
<b>aspirin vs no treatment</b>			
British Doctors Trial , 1988 n=3429/1710 follow-up: 5.5 years	aspirin 500 mg/d versus no aspirin	apparently healthy male doctors	Parallel groups open UK
PPP (diabetics sub group) , 2003 n=519/512 follow-up: 3.6 y	aspirin 100mg daily versus control	men and women with diabetes and without a previous cardiovascular event aged >50 with >=1 risk factors for cardiovascular disease - sub group of diabetic patients	Factorial plan open Italy
Primary Prevention Project , 2001 n=2226/2269 follow-up: 3.6 y	aspirin 100 mg/d versus no aspirin (open control)	men and women aged 50 years or greater, with at least one of the major recognised cardiovascular risk factors.	Factorial plan Open Italy
JPAD , 2008 [NCT00110448] n=1262/1277 follow-up: 4.37 y median	low-dose aspirin (81 or 100 mg per day) versus no aspirin	patients with type 2 diabetes without a history of atherosclerotic disease	Parallel groups open Japan
<b>aspirin + dipyridamol vs placebo</b>			
Hess (2) , 1985 n=80/80 follow-up:	Aspirine Dipyridamole 330 mg / j 225 mg / j versus Placebo	patients with occlusive arterial disease in the lower extremities	Parallel groups double blind
Schoop (2) , 1983 n=100/100 follow-up:	Aspirine Dipyridamole 990 mg / j 225 mg /j versus Placebo	AOMI stade non prcis	Parallel groups double blind
VA study , 1986 n=110/121 follow-up: 46 months	Aspirine + Dipyridamole 975 mg / j 225 mg /j versus Placebo	non-insulin-dependent diabetic men with either a recent amputation for gangrene or active gangrene	Parallel groups double blind
<b>dipyridamol + aspirin vs placebo</b>			

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<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>PARIS , 1980</b> n=810/406 follow-up: 41 months (mean)	Aspirin (324 mg) + dipyridamole (75 mg) 3x/d versus Placebo	patients who had recovered from myocardial infarction	Parallel groups Double blind USA and UK
<b>PARIS-II , 1986</b> n=1563/1565 follow-up: 23.4 months	Aspirin (330 mg) + dipyridamole (75 mg) 3x/d versus Placebo	patients who had recovered from myocardial infarction, suffered from 4 weeks to 4 months previously	Parallel groups Double blind USA and UK
<b>warfarin + aspirin vs placebo</b>			
<b>Thrombosis Prevention trial (W plus A) , 1998</b> [NCT00000614] n=1277/1272 follow-up: median 6.8 y	warfarin adjusted dose for INR of 1.5 + aspirin 75 mg daily versus placebo	men aged between 45 years and 69 years at high risk of IHD	NA double blind UK
<b>aspirin vs no aspirin</b>			
<b>JPPP ongoing</b> [NCT00225849] n=NA follow-up:	aspirin versus no aspirin	Japanese patients aged 60 to 85 years with hypertension, dyslipidemia, or diabetes mellitus	Parallel groups open Japan
<b>aspirin vs placebo</b>			
<b>CLIPS , 2007</b> n=185/181 follow-up: 20.7 months mean	oral aspirin 100 mg daily versus placebo	outpatients with stage I-II PAD documented by angiography or ultrasound, with ankle/brachial index <0.85 or toe index <0.6	Factorial plan double blind Europe
<b>AAA , 2009</b> [ISRCTN66587262] n=1675/1675 follow-up: 8.2 y (mean)	aspirin 100mg daily versus placebo	men and women aged 50 to 80 years with asymptomatic atherosclerosis detected by low ankle brachial index (<=0.95)	Parallel groups double blind UK, Scotland
<b>ASPREE , 2018</b> [NCT01038583] n=NA follow-up:	-	-	
<b>ASCEND , 2018</b> [NCT00135226] n=NA follow-up:	-	-	
<b>PHS (diabetics sub group) , 1989</b> n=275/258 follow-up: 5 y	aspirin 325 mg every other day versus placebo	healthy men (diabetic sub group of patients enrolled if PHS)	Factorial plan double blind

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<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>Munich B , 1975</b> n=42/40 follow-up:	Aspirine 1500 mg / jour pendant 24 mois versus Placebo	NA	Parallel groups double blind
<b>Physicians Health Study , 1989</b> [NCT00000500] n=11037/11034 follow-up: 60.2 months	aspirin 325 mg every other day versus placebo	Healthy men	Parallel groups double blind
<b>Thrombosis Prevention Trial , 1998</b> [NCT00000614] n=2545/2540 follow-up: median 6.8y	aspirin 75 mg/d (controlled release) versus placebo	Men at high risk of CHD	Factorial plan double blind UK
<b>ETDRS , 1992</b> n=1856/1855 follow-up: 60 months	aspirin 650mg once daily versus placebo	patients with diabetes mellitus (Type I or II)	Parallel groups double blind
<b>CDPA , 1976</b> n=758/771 follow-up: 1.83 y	Aspirin (324 mg) 3x/d versus Placebo	MI survivors	Parallel groups Double blind USA
<b>Cardiff I , 1974</b> n=615/624 follow-up: 2 years	Aspirin (300 mg) 1x/d versus Placebo	MI survivors	Parallel groups Double blind UK
<b>Cardiff II , 1979</b> n=832/850 follow-up: 1 y	Aspirin (300 mg) 3x/d for one year versus Placebo	patients with myocardial infarction	Parallel groups Double blind South Wales
<b>Vogel , 1979</b> n=672/668 follow-up: 1.75 y (mean)	Aspirin (1.5 g daily) on an average period of 22 months versus Placebo	-	Parallel groups Double blind Germany
<b>AMIS , 1980</b> [NCT00000491] n=2267/2257 follow-up: >3 y	Aspirin (500 mg) 2x/d for at least 3 years versus Placebo	men and women who had had a documented myocardial infarction	Parallel groups Double blind USA

continued...

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>GAMIS , 1980</b> n=317/309 follow-up: 2 y	Aspirin (500 mg) 3x/d for 2 years versus Placebo	patients who had survived a myocardial infarction for 30-42 days	Parallel groups Double blind Germany, Austria,
<b>PARIS , 1980</b> n=810/406 follow-up: 41 mo	Aspirin (324 mg) 3x/d versus Placebo	patients who had recovered from myocardial infarction	Parallel groups Double blind USA, UK
<b>JAMIS , 1999</b> n=250/230 follow-up: 1.3 y (mean)	Aspirin (81 mg) 1x/d versus No antiplatelets	patients with AMI within 1 month from the onset of symptoms	Parallel groups Open Japan
<b>Munich A , 1975</b> n=92/84 follow-up:	Aspirine: 1500 mg / jour versus Placebo	Donnes non disponibles	Parallel groups double blind
<b>HOT , 1998</b> n=9399/9391 follow-up: mean 3.8 y (range 3.3-4.9y)	aspirin 75 mg daily versus placebo	patients aged 50-80 with hypertension and diastolic blood pressure between 100 mmHG and 115 mmHG	Factorial plan Double blind Europe, North and South America, and Asia
<b>WHS (diabetics sub group) , 2005</b> n=514/513 follow-up: 10.1 y	aspirin 100mg on alternate days versus placebo	healthy women 45 years of age or older - diabetics sub groups	Parallel groups double blind US
<b>Womens Health Study , 2005</b> n=19934/19942 follow-up: 10.1 y mean (range 8.2 to 10.9)	aspirin 100mg daily versus placebo	initially healthy women 45 years of age or older	Factorial plan Double blind
<b>SAPAT , 1992</b> n=1009/1026 follow-up: 50 months	aspirin 75 mg daily versus placebo	patients with stable chronic angina pectoris	Parallel groups double blind Sweden
<b>POPADAD aspirin , 2008</b> [ISRCTN53295293] n=638/638 follow-up: nov 1997 - jul 2001	aspirin 100mg daily versus placebo	patients with diabetes mellitus and asymptomatic peripheral arterial disease	Factorial plan double blind Scotland

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<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>Schoop , 1983</b> n=100/100 follow-up: <5 y	groupe 1 : Aspirine 990 mg / j (pour mmoire : groupe 2 : Aspirine 990 mg / j + dipyridamole 225 mg/j) versus Placebo	AOMI stade non precis	Parallel groups double blind
<b>DAMAD , 1989</b> n=318/157 follow-up: 3 y	aspirin alone (330 mg 3 times daily) or in combination with dipyridamole (75 mg 3 times daily) versus placebo	patients with early diabetic retinopathy	Parallel groups double blind
<b>Hess , 1985</b> n=80/80 follow-up:	groupe 1 : Aspirine 330 mg / j (pour mmoire : groupe 2 : Aspirine 330 mg / j + dipyridamole 75 mg / j) versus Placebo	AOMI stade non precis	Parallel groups single blind
<b>ASCEND (aspirin) ongoing</b> [NCT00135226] n=NA follow-up:	aspirin 100mg daily versus placebo	people with diabetes without cardiovascular disease	Factorial plan double blind UK
<b>ACCEPT-D ongoing</b> [ISRCTN48110081] n=NA follow-up:	aspirin 100mg daily top simvastatin 20mg daily versus no aspirin on top simvastatin 20mg daily	diabetic patients without clinically manifest vascular disease	Parallel groups open
<b>dipyridamol + aspirin vs aspirin</b>			
<b>PARIS , 1980</b> n=810/810 follow-up: 41 months	Aspirin (324 mg) + dipyridamole (75 mg) 3x/d versus Aspirin (324 mg) 3x/d	patuents who had recovered from myocardial infarction	Parallel groups Double blind USA and GB

More details and results :

- antiplatelets drug for cardiovascular prevention in diabetic patients at <http://www.trialresultscenter.org/go-Q220>
- antiplatelets drug for cardiovascular prevention in all type of patients at <http://www.trialresultscenter.org/go-Q226>
- antiplatelets drug for cardiovascular prevention in secondary prevention in patients with intermittent claudication at <http://www.trialresultscenter.org/go-Q275>
- antiplatelets drug for cardiovascular prevention in secondary prevention in patients with CAD at <http://www.trialresultscenter.org/go-Q276>
- antiplatelets drug for cardiovascular prevention in primary prevention at <http://www.trialresultscenter.org/go-Q322>

- antiplatelets drug for cardiovascular prevention in patients without established disease at <http://www.trialresultscenter.org/go-Q403>
- anticoagulant for cardiovascular prevention in secondary prevention at <http://www.trialresultscenter.org/go-Q481>
- direct oral anticoagulant (DAO) for cardiovascular prevention in secondary prevention at <http://www.trialresultscenter.org/go-Q706>
- direct factor Xa inhibitors for cardiovascular prevention in secondary prevention at <http://www.trialresultscenter.org/go-Q707>
- anticoagulant for cardiovascular prevention in all type of patients at <http://www.trialresultscenter.org/go-Q709>
- anticoagulant for cardiovascular prevention in primary prevention at <http://www.trialresultscenter.org/go-Q710>

## References

### **COMPASS (rivaroxaban + aspirin), 2017:**

Eikelboom JW, Connolly SJ, Bosch J, Dagenais GR, Hart RG, Shestakovska O, Diaz R, Alings M, Lonn EM, Anand SS, Widimsky P, Hori M, Avezum A, Piegas LS, Branch KRH, Probstfeld J, Bhatt DL, Zhu J, Liang Y, Maggioni AP, Lopez-Jaramillo P, O'Donnell M, Kakka Rivaroxaban with or without Aspirin in Stable Cardiovascular Disease. *N Engl J Med* 2017;377:1319-1330 [[28844192](#)]

### **British Doctors Trial, 1988:**

Peto R, Gray R, Collins R, Wheatley K, Hennekens C, Jamrozik K, Warlow C, Hafner B, Thompson E, Norton S Randomised trial of prophylactic daily aspirin in British male doctors. *Br Med J (Clin Res Ed)* 1988 Jan 30;296:313-6 [[3125882](#)]

### **PPP (diabetics sub group), 2003:**

Sacco M, Pellegrini F, Roncaglioni MC, Avanzini F, Tognoni G, Nicolucci A Primary prevention of cardiovascular events with low-dose aspirin and vitamin E in type 2 diabetic patients: results of the Primary Prevention Project (PPP) trial. *Diabetes Care* 2003;26:3264-72 [[14633812](#)]

### **Primary Prevention Project, 2001:**

de Gaetano G Low-dose aspirin and vitamin E in people at cardiovascular risk: a randomised trial in general practice. Collaborative Group of the Primary Prevention Project. *Lancet* 2001 Jan 13;357:89-95 [[11197445](#)]

### **JPAD, 2008:**

Ogawa H, Nakayama M, Morimoto T, Uemura S, Kanauchi M, Doi N, Jinnouchi H, Sugiyama S, Saito Y Low-dose aspirin for primary prevention of atherosclerotic events in patients with type 2 diabetes: a randomized controlled trial. *JAMA* 2008;300:2134-41 [[18997198](#)]

### **Hess (2), 1985:**

Drug-induced inhibition of platelet function delays progression of peripheral occlusive arterial disease. A prospective double-blind arteriographically controlled trial. Hess H, Mietaschk A, Deichsel G *Lancet* 1985 Feb 23;1:415-9 [[2857803](#)]

### **Schoop (2), 1983:**

W Schoop, H Levy. prevention of peripheral arterial occlusive disease with antiaggregants. *Thromb Haemost* 1983, 30: 137.

### **VA study, 1986:**

Veterans Administration Cooperative Study on antiplatelet agents in diabetic patients after amputation for gangrene: II. Effects of aspirin and dipyridamole on atherosclerotic vascular disease rates. Colwell JA, Bingham SF, Abaira C, Anderson JW, Comstock JP, Kwaan HC, Nuttall F *Diabetes Care* 1986 Mar-Apr;9:140-8 [[3516608](#)]

**PARIS, 1980:**

, Persantine and aspirin in coronary heart disease. The Persantine-Aspirin Reinfarction Study Research Group. *Circulation* 1980; 62:449-61 [7398002]

, Persantine and aspirin in coronary heart disease. The Persantine-Aspirin Reinfarction Study Research Group. *Circulation* 1980; 62:449-61 [7398002]

**PARIS-II, 1986:**

Klimt CR, Knatterud GL, Stamler J, Meier P, Persantine-Aspirin Reinfarction Study. Part II. Secondary coronary prevention with persantine and aspirin. *J Am Coll Cardiol* 1986; 7:251-69 [2868029]

**Thrombosis Prevention trial (W plus A), 1998:**

Thrombosis prevention trial: randomised trial of low-intensity oral anticoagulation with warfarin and low-dose aspirin in the primary prevention of ischaemic heart disease in men at increased risk. The Medical Research Council's General Practice Research Framework. *Lancet* 1998;351:233-41 [9457092]

Meade TW, Wilkes HC, Stirling Y, Brennan PJ, Kelleher C, Browne W Randomized controlled trial of low dose warfarin in the primary prevention of ischaemic heart disease in men at high risk: design and pilot study. *Eur Heart J* 1988;9:836-43 [3053176]

**JPPP, :**

ongoing trial NCT00225849

Teramoto T, Shimada K, Uchiyama S, Sugawara M, Goto Y, Yamada N, Oikawa S, Ando K, Ishizuka N, Yamazaki T, Yokoyama K, Murata M, Ikeda Y Rationale, design, and baseline data of the Japanese Primary Prevention Project (JPPP)-a randomized, open-label, controlled trial of aspirin versus no aspirin in patients with multiple risk factors for vascular events. *Am Heart J* 2010;159:361-369.e4 [20211296] 10.1016/j.ahj.2009.11.030

**CLIPS, 2007:**

Catalano M, Born G, Peto R Prevention of serious vascular events by aspirin amongst patients with peripheral arterial disease: randomized, double-blind trial. *J Intern Med* 2007 Mar;261:276-84 [17305650]

**AAA, 2009:**

Fowkes FG, Price JF, Stewart MC, Butcher I, Leng GC, Pell AC, Sandercock PA, Fox KA, Lowe GD, Murray GD Aspirin for prevention of cardiovascular events in a general population screened for a low ankle brachial index: a randomized controlled trial. *JAMA* 2010 Mar 3;303:841-8 [20197530] 10.1001/jama.2010.221

**ASPREE, 2018:****ASCEND, 2018:**

Effects of Aspirin for Primary Prevention in Persons with Diabetes Mellitus. *N Engl J Med* 2018;: [30146931]

**PHS (diabetics sub group), 1989:**

Final report on the aspirin component of the ongoing Physicians' Health Study. Steering Committee of the Physicians' Health Study Research Group. *N Engl J Med* 1989;321:129-35 [2664509]

**Munich B, 1975:**

Collaborative meta-analysis of randomised trials of antiplatelet therapy for prevention of death, myocardial infarction, and stroke in high risk patients. Antithrombotic Trialists' Collaboration *BMJ* 2002 Jan 12;324:71-86 [11786451]

**Physicians Health Study, 1989:**

Final report on the aspirin component of the ongoing Physicians' Health Study. Steering Committee of the Physicians' Health Study Research Group. *N Engl J Med* 1989 Jul 20;321:129-35 [2664509]

**Thrombosis Prevention Trial, 1998:**

Thrombosis prevention trial: randomised trial of low-intensity oral anticoagulation with warfarin and low-dose aspirin in the primary prevention of ischaemic heart disease in men at increased risk. The Medical Research Council's General Practice Research Framework. *Lancet* 1998 Jan 24;351:233-41 [9457092]

Meade TW, Wilkes HC, Stirling Y, Brennan PJ, Kelleher C, Browne W Randomized controlled trial of low dose warfarin in the primary prevention of ischaemic heart disease in men at high risk: design and pilot study. *Eur Heart J* 1988;9:836-43 [3053176]

**ETDRS, 1992:**

Aspirin effects on mortality and morbidity in patients with diabetes mellitus. Early Treatment Diabetic Retinopathy Study report 14. ETDRS Investigators. *JAMA* 1992 Sep 9;268:1292-300 [1507375]

**CDPA, 1976:**

, Aspirin in coronary heart disease. The Coronary Drug Project Research Group. *J Chronic Dis* 1976; 29:625-42 [789390]

**Cardiff I, 1974:**

Elwood P, Trial of acetylsalicylic acid in the secondary prevention of mortality from myocardial infarction. *Br Med J (Clin Res Ed)* 1981; 282:481 [6780093]

**Cardiff II, 1979:**

Elwood PC, Sweetnam PM, Aspirin and secondary mortality after myocardial infarction. *Lancet* 1979; 2:1313-5 [92668]

**Vogel, 1979:**

*Folia Haematol* 1979; 106:797-803 [0]

**AMIS, 1980:**

, The aspirin myocardial infarction study: final results. The Aspirin Myocardial Infarction Study research group. *Circulation* 1980; 62:V79-84 [7438383]

, A randomized, controlled trial of aspirin in persons recovered from myocardial infarction. *JAMA* 1980; 243:661-9 [6985998]

**GAMIS, 1980:**

Breddin K, Loew D, Lechner K, Oberla K, Walter E, The German-Austrian aspirin trial: a comparison of acetylsalicylic acid, placebo and phenprocoumon in secondary prevention of myocardial infarction. On behalf of the German-Austrian Study Group. *Circulation* 1980; 62:V63-72 [6777073]

**PARIS, 1980:**

, Persantine and aspirin in coronary heart disease. The Persantine-Aspirin Reinfarction Study Research Group. *Circulation* 1980; 62:449-61 [7398002]

**JAMIS, 1999:**

Yasue H, Ogawa H, Tanaka H, Miyazaki S, Hattori R, Saito M, Ishikawa K, Masuda Y, Yamaguchi T, Motomiya T, Tamura Y, Effects of aspirin and trapidil on cardiovascular events after acute myocardial infarction. Japanese Antiplatelets Myocardial Infarction Study (JAMIS) Investigators. *Am J Cardiol* 1999; 83:1308-13 [10235086]

**Munich A, 1975:**

Collaborative meta-analysis of randomised trials of antiplatelet therapy for prevention of death, myocardial infarction, and stroke in high risk patients. Antithrombotic Trialists' Collaboration *BMJ* 2002 Jan 12;324:71-86 [11786451]

**HOT, 1998:**

Hansson L, Zanchetti A, Carruthers SG, Dahlof B, Elmfeldt D, Julius S, Menard J, Rahn KH, Wedel H, Westerling S Effects of intensive blood-pressure lowering and low-dose aspirin in patients with hypertension: principal results of the Hypertension Optimal Treatment (HOT) randomised trial. HOT Study Group. *Lancet* 1998 Jun 13;351:1755-62 [9635947]

Hansson L, Zanchetti A The Hypertension Optimal Treatment (HOT) Study—patient characteristics: randomization, risk profiles, and early blood pressure results. *Blood Press* 1994;3:322-7 [7866597]

**WHS (diabetics sub group), 2005:**

Ridker PM, Cook NR, Lee IM, Gordon D, Gaziano JM, Manson JE, Hennekens CH, Buring JE A randomized trial of low-dose aspirin in the primary prevention of cardiovascular disease in women. *N Engl J Med* 2005;352:1293-304 [[15753114](#)] [10.1056/NEJMoa050613](#)

**Womens Health Study, 2005:**

Ridker PM, Cook NR, Lee IM, Gordon D, Gaziano JM, Manson JE, Hennekens CH, Buring JE A randomized trial of low-dose aspirin in the primary prevention of cardiovascular disease in women. *N Engl J Med* 2005 Mar 31;352:1293-304 [[15753114](#)]

Rexrode KM, Lee IM, Cook NR, Hennekens CH, Buring JE Baseline characteristics of participants in the Women's Health Study. *J Womens Health Gen Based Med* 2000;9:19-27 [[10718501](#)] [10.1089/152460900318911](#)

**SAPAT, 1992:**

Juul-Miller S, Edvardsson N, Jahnmatz B, Rosn A, Srensen S, Omblus R Double-blind trial of aspirin in primary prevention of myocardial infarction in patients with stable chronic angina pectoris. The Swedish Angina Pectoris Aspirin Trial (SAPAT) Group. *Lancet* 1992;340:1421-5 [[1360557](#)]

**POPADAD aspirin, 2008:**

Belch J, MacCuish A, Campbell I, Cobbe S, Taylor R, Prescott R, Lee R, Bancroft J, MacEwan S, Shepherd J, Macfarlane P, Morris A, Jung R, Kelly C, Connacher A, Peden N, Jamieson A, Matthews D, Leese G, McKnight J, O'Brien I, Semple C, Petrie J, Gordon D, The prevention of progression of arterial disease and diabetes (POPADAD) trial: factorial randomised placebo controlled trial of aspirin and antioxidants in patients with diabetes and asymptomatic peripheral arterial disease. *BMJ* 2008 Oct 16;337:a1840 [[18927173](#)]

**Schoop, 1983:**

Collaborative meta-analysis of randomised trials of antiplatelet therapy for prevention of death, myocardial infarction, and stroke in high risk patients. Antithrombotic Trialists' Collaboration *BMJ* 2002 Jan 12;324:71-86 [[11786451](#)]

**DAMAD, 1989:**

*Diabetes* 1989;38:491-8 [[2647556](#)]

**Hess, 1985:**

Drug-induced inhibition of platelet function delays progression of peripheral occlusive arterial disease. A prospective double-blind arteriographically controlled trial. Hess H, Mietaschk A, Deichsel G *Lancet* 1985 Feb 23;1:415-9 [[2857803](#)]

**ASCEND (aspirin), 0:**

ongoing trial NCT00135226

**ACCEPT-D, 0:**

ongoing trial ISRCTN48110081

De Berardis G, Sacco M, Evangelista V, Filippi A, Giorda CB, Tognoni G, Valentini U, Nicolucci A Aspirin and Simvastatin Combination for Cardiovascular Events Prevention Trial in Diabetes (ACCEPT-D): design of a randomized study of the efficacy of low-dose aspirin in the prevention of cardiovascular events in subjects with diabetes mellitus treated with statins. *Trials* 2007 Aug 28;8:21 [[17725825](#)]

**PARIS, 1980:**

, Persantine and aspirin in coronary heart disease. The Persantine-Aspirin Reinfarction Study Research Group. *Circulation* 1980; 62:449-61 [[7398002](#)]

**5 stable angina**



Trial	Treatments	Patients	Trials design and methods
<b>aspirin vs placebo</b>			
<b>SAPAT , 1992</b> n=1009/1026 follow-up: 50 months	aspirin 75 mg daily versus placebo	patients with stable chronic angina pectoris	Parallel groups double blind Sweden

More details and results :

- antithrombotics for stable angina in all type of patient at <http://www.trialresultscenter.org/go-Q33>

## References

### SAPAT, 1992:

Juul-Mller S, Edvardsson N, Jahnmatz B, Rosn A, Srensen S, Omblus R Double-blind trial of aspirin in primary prevention of myocardial infarction in patients with stable chronic angina pectoris. The Swedish Angina Pectoris Aspirin Trial (SAPAT) Group. Lancet 1992;340:1421-5 [1360557]

## 6 hypertension

Trial	Treatments	Patients	Trials design and methods
<b>aspirin vs placebo</b>			
<b>HOT , 1998</b> n=9399/9391 follow-up: mean 3.8 y (range 3.3-4.9y)	aspirin 75 mg daily versus placebo	patients aged 50-80 with hypertension and diastolic blood pressure between 100 mmHG and 115 mmHG	Factorial plan Double blind Europe, North and South America, and Asia

More details and results :

- antiplatelets drug for hypertension in all type of patients at <http://www.trialresultscenter.org/go-Q407>

## References

### HOT, 1998:

Hansson L, Zanchetti A, Carruthers SG, Dahlof B, Elmfeldt D, Julius S, Menard J, Rahn KH, Wedel H, Westerling S Effects of intensive blood-pressure lowering and low-dose aspirin in patients with hypertension: principal results of the Hypertension Optimal Treatment (HOT) randomised trial. HOT Study Group. Lancet 1998 Jun 13;351:1755-62 [9635947]

Hansson L, Zanchetti A The Hypertension Optimal Treatment (HOT) Study—patient characteristics: randomization, risk profiles, and early blood pressure results. Blood Press 1994;3:322-7 [7866597]

## 7 heart failure

Trial	Treatments	Patients	Trials design and methods
<b>aspirin vs no treatment</b>			
WASH (aspirin) , 2004 n=91/99 follow-up: 27 months	aspirin 300 mg/day versus no treatment	patients with heart failure and left ventricular systolic dysfunction requiring diuretic therapy with LVEF<=35%	open UK, US
<b>aspirin vs placebo</b>			
Barzizza (ASA) , 1993 n=26/23 follow-up: 6 months	aspirin 300mg versus placebo	patients with dilated cardiomyopathy and evidence of intraventricular thrombi	Parallel groups NA

More details and results :

- antithrombotics for heart failure in all type of patients at <http://www.trialresultscenter.org/go-Q73>

## References

### WASH (aspirin), 2004:

Cleland JG, Findlay I, Jafri S, Sutton G, Falk R, Bulpitt C, Prentice C, Ford I, Trainer A, Poole-Wilson PA, The Warfarin/Aspirin Study in Heart failure (WASH): a randomized trial comparing antithrombotic strategies for patients with heart failure. Am Heart J 2004;148:157-64. [15215806] [10.1016/j.ahj.2004.03.010](https://doi.org/10.1016/j.ahj.2004.03.010)

### Barzizza (ASA), 1993:

Barzizza F, Zocchi MT, Magnani L.p, imag Antiplatelet drugs versus warfarin in treatment of intraventricular thrombi Eur Heart J 1993;14(suppl):396 (Abstract P2118)

## 8 atrial fibrillation

Trial	Treatments	Patients	Trials design and methods
<b>aspirin vs control</b>			
Japanese AF Trial , 2006 n=426/445 follow-up:	aspirin at 150 to 200 mg per day versus no antiplatelet or anticoagulant therapy	patients with nonvalvular atrial fibrillation	

continued...

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>LASAF(aspirin vs no treatment) , 1999</b> n=NA follow-up:	aspirin:125mg/day(group A1);125mg on alternate days(group A2) versus no control treatment(group C)	-	Open
<b>warfarin low dose + aspirin vs control</b>			
<b>SAFT(warfarin low dose + aspirin vs no treatment) , 2003</b> n=334/334 follow-up: 33 months	warfarin low dose (1.25 mg/d) + aspirin 75 mg/d versus no treatment	Low-medium risk patients with non valvular atrial fibrillation.	Parallel groups Open Sweden
<b>aspirin vs placebo</b>			
<b>EAFIT , 1993</b> n=404/378 follow-up: 2.3 years	aspirin 300 mg/d versus placebo	Patient with non rheumatic AF and recent TIA or minor ischaemic stroke(secondary prevention).	Parallel groups Double blind europe,israel
<b>AFASAK (aspirin vs placebo) , 1989</b> n=336/336 follow-up: 2 years	aspirin 75 mg/d versus placebo	patients with chronic non-rheumatic atrial fibrillation	Parallel groups Double aveugle Denmark
<b>SPAF (aspirin , warfarin eligible arm) , 1991</b> n=206/211 follow-up: 1.3 years	aspirin 325mg/d versus placebo	nonrheumatic atrial fibrillation,warfarin eligible patients	Parallel groups Double blind USA
<b>SPAF (aspirin,warfarin ineligible arm) , 1991</b> n=346/357 follow-up: 1.3 years	aspirin 325mg/d versus placebo	nonrheumatic atrial fibrillation, warfarin ineligible patients	Parallel groups Double blind USA
<b>aspirin vs placebo (on top fluidione)</b>			
<b>FFAACs , 2001</b> n=76/81 follow-up: 0.84 y	fluidione standard dose (target INR: 2-2.6) + aspirin low dose 100 mg versus fluidione standard dose(target INR:2-2.6) + placebo	high risk patients with non valvular atrial fibrillation	Parallel groups Double blind France
<b>aspirin + clopidogrel vs anticoagulant</b>			
<b>ACTIVE W , 2006</b> [NCT00243178] n=3335/3371 follow-up: 1.28 y (median)	clopidogrel (75 mg per day) plus aspirin (75100 mg per day) versus oral anticoagulation therapy (target international normalised ratio of 2030)	Patients with atrial fibrillation plus one or more risk factor for stroke	Parallel groups open

continued...

Trial	Treatments	Patients	Trials design and methods
<b>aspirin + clopidogrel vs aspirin</b>			
ACTIVE A , 2009 [NCT00249873] n=3772/3782 follow-up: 3.7 y	clopidogrel 75 mg daily + aspirin 75-100 mg daily versus aspirin 75-100 mg daily alone	Patients with AF and at least one risk factor for stroke and who are not candidates for warfarin therapy	Parallel groups double blind
<b>aspirin vs coumadin low dose</b>			
PATAF (vs coumadin low dose) , 1999 n=319/279 follow-up: 2.7 years	aspirin 300mg/d versus coumarin low dose(target INR 1.1-1.6 )	non rheumatic AF,recruited in general practice,with no established indication for anticoagulation.	Parallel groups Simple aveugle Netherlands
<b>aspirin vs coumadin standard dose</b>			
PATAF (vs coumadin standard dose) , 1999 n=141/131 follow-up: 2.7 years	aspirin 150mg/d versus coumarin standard dose(target INR 2.5-3.5)	non rheumatic AF,recruited in general practice,with no established indication for anticoagulation.	Parallel groups Simple aveugle Netherlands
<b>aspirin vs warfarin low dose</b>			
AFASAK II (aspirin vs warfarin low dose) , 1998 n=169/167 follow-up: 3.5 years	aspirin 300 mg/d versus warfarin low dose (1.25mg/d)	chronic non valvular atrial fibrillation	Parallel groups Open Denmark
<b>aspirin vs warfarin standard dose</b>			
AFASAK (aspirin vs warfarin standard dose) , 1989 n=336/335 follow-up: 2 years	aspirin (low dose 75 mg) versus warfarin standard dose(target INR 2.8-4.2)	chronic non rheumatic AF	Parallel groups Open Denmark
AFASAK II (aspirin vs warfarin standard dose) , 1998 n=169/170 follow-up: 3.5 years	aspirin 300 mg/d versus warfarin standard dose(target INR 2-3)	chronic non valvular atrial fibrillation	Parallel groups Open Denmark
SPAF II (aspirin vs warfarin standard dose, age<75) , 1994 n=357/358 follow-up: 3.1 years	aspirin 325 mg/d versus warfarin standard dose(target INR 2.0-4.5)	non rheumatic atrial fibrillation,medium to high risk patients. Patients aged 75 and less.	Parallel groups Open USA

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Trial	Treatments	Patients	Trials design and methods
SPAF II (aspirin vs warfarin standard dose, age>75) , 1994 n=188/197 follow-up: 2.0 years	aspirin 325 mg/d versus warfarin standard dose (target INR 2.0-4.5)	Non rheumatic atrial fibrillation,medium to high risk patients.Patients aged more than 75.	Parallel groups Open USA
BAFTA (aspirin vs warfarin standard dose) ongoing n=NA follow-up:	aspirin (75 mg/d) versus warfarin standard dose (target INR:2-3)	elderly people, primary care setting	Parallel groups Open England
<b>warfarin + aspirin vs warfarin standard dose</b>			
AFASAK II (warfarin low dose+aspirin vs warfarin standard dose) , 1998 n=171/170 follow-up: 3.5 years	warfarin fixed low dose(1.25mg/d) + aspirin(300mg/d) versus warfarin standard dose(target INR 2.0-3.0)	chronic non valvular atrial fibrillation	Parallel groups Open Denmark
SPAF III , 1996 n=521/523 follow-up: 1.1 years	warfarin low dose(target INR 1.2-1.5)+ aspirin 325 mg/d versus warfarin standard dose(target INR 2.0-3.0)	non rheumatic atrial fibrillation,patients with at least one additional thromboembolic risk factor(high risk patients)	Parallel groups Open USA,Canada

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More details and results :

- antithrombotics for atrial fibrillation in primary prevention of thromboembolic events at <http://www.trialresultscenter.org/go-Q57>
- antithrombotics for atrial fibrillation in secondary prevention of thromboembolic events at <http://www.trialresultscenter.org/go-Q392>
- antithrombotics for atrial fibrillation in patients ineligible for warfarin at <http://www.trialresultscenter.org/go-Q565>

## References

### Japanese AF Trial, 2006:

Sato H, Ishikawa K, Kitabatake A, Ogawa S, Maruyama Y, Yokota Y, Fukuyama T, Doi Y, Mochizuki S, Izumi T, Takekoshi N, Yoshida K, Hiramori K, Origasa H, Uchiyama S, Matsumoto M, Yamaguchi T, Hori M Low-dose aspirin for prevention of stroke in low-risk patients with atrial fibrillation: Japan Atrial Fibrillation Stroke Trial. Stroke 2006 Feb;37:447-51 [16385088] 10.1161/01.STR.0000198839.61112.ee

### LASAF(aspirin vs no treatment), 1999:

Posada IS, Barriaes V Alternate-day dosing of aspirin in atrial fibrillation. LASAF Pilot Study Group. Am Heart J 1999 Jul;138:137-43 [10385777]

### SAFT(warfarin low dose + aspirin vs no treatment), 2003:

Edvardsson N, Juul-Moller S, Omblus R, Pehrsson K Effects of low-dose warfarin and aspirin versus no treatment on stroke in a medium-risk patient population with atrial fibrillation. *J Intern Med* 2003 Jul;254:95-101 [[12823646](#)]

Edvardsson N, Juul-Moller S, Omblus R, Pehrsson K Effects of low-dose warfarin and aspirin versus no treatment on stroke in a medium-risk patient population with atrial fibrillation. *J Intern Med* 2003 Jul;254:95-101 [[12823646](#)]

**EAFIT, 1993:**

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

**AFASAK (aspirin vs placebo), 1989:**

Petersen P, Boysen G, Godtfredsen J, Andersen ED, Andersen B Placebo-controlled, randomised trial of warfarin and aspirin for prevention of thromboembolic complications in chronic atrial fibrillation. The Copenhagen AFASAK study. *Lancet* 1989 Jan 28;1:175-9 [[2563096](#)]

**SPAF (aspirin , warfarin eligible arm), 1991:**

Stroke Prevention in Atrial Fibrillation Study. Final results *Circulation*. 1991 Aug;84(2):527-39. [[1860198](#)]

**SPAF (aspirin,warfarin ineligible arm), 1991:**

Stroke Prevention in Atrial Fibrillation Study. Final results *Circulation*. 1991 Aug;84(2):527-39. [[1860198](#)]

**FFAACCS , 2001:**

Lechat P, Lardoux H, Mallet A, Sanchez P, Derumeaux G, Lecompte T, Maillard L, Mas JL, Mentre F, Pousset F, Lacomblez L, Pisica G, Solbes-Latourette S, Raynaud P, Chaumet-Riffaud P Anticoagulant (fluindione)-aspirin combination in patients with high-risk atrial fibrillation. A randomized trial (Fluindione, Fibrillation Auriculaire, Aspirin et Contraste Spontane; FFAACS). *Cerebrovasc Dis* 2001;12:245-52 [[11641591](#)]

**ACTIVE W, 2006:**

Connolly S, Pogue J, Hart R, Pfeffer M, Hohnloser S, Chrolavicius S, Pfeffer M, Hohnloser S, Yusuf S Clopidogrel plus aspirin versus oral anticoagulation for atrial fibrillation in the Atrial fibrillation Clopidogrel Trial with Irbesartan for prevention of Vascular Events (ACTIVE W): a randomised controlled trial. *Lancet* 2006 Jun 10;367:1903-12 [[16765759](#)]

**ACTIVE A, 2009:**

Effect of Clopidogrel Added to Aspirin in Patients with Atrial Fibrillation. *N Engl J Med* 2009 Apr 3;: [[19336502](#)]

**PATAF (vs coumadin low dose), 1999:**

Hellemons BS, Langenberg M, Lodder J, Vermeer F, Schouten HJ, Lemmens T, van Ree JW, Knottnerus JA Primary prevention of arterial thromboembolism in non-rheumatic atrial fibrillation in primary care: randomised controlled trial comparing two intensities of coumarin with aspirin. *BMJ* 1999 Oct 9;319:958-64 [[10514159](#)]

**PATAF (vs coumadin standard dose), 1999:**

Hellemons BS, Langenberg M, Lodder J, Vermeer F, Schouten HJ, Lemmens T, van Ree JW, Knottnerus JA Primary prevention of arterial thromboembolism in non-rheumatic atrial fibrillation in primary care: randomised controlled trial comparing two intensities of coumarin with aspirin. *BMJ* 1999 Oct 9;319:958-64 [[10514159](#)]

**AFASAK II (aspirin vs warfarin low dose), 1998:**

Gullov AL, Koefoed BG, Petersen P, Pedersen TS, Andersen ED, Godtfredsen J, Boysen G Fixed minidose warfarin and aspirin alone and in combination vs adjusted-dose warfarin for stroke prevention in atrial fibrillation: Second Copenhagen Atrial Fibrillation, Aspirin, and Anticoagulation Study. *Arch Intern Med* 1998 Jul 27;158:1513-21 [[9679792](#)]

**AFASAK (aspirin vs warfarin standard dose), 1989:**

Petersen P, Boysen G, Godtfredsen J, Andersen ED, Andersen B Placebo-controlled, randomised trial of warfarin and aspirin for prevention of thromboembolic complications in chronic atrial fibrillation. The Copenhagen AFASAK study. *Lancet* 1989 Jan 28;1:175-9 [2563096]

**AFASAK II (aspirin vs warfarin standard dose), 1998:**

Gullov AL, Koefoed BG, Petersen P, Pedersen TS, Andersen ED, Godtfredsen J, Boysen G Fixed minidose warfarin and aspirin alone and in combination vs adjusted-dose warfarin for stroke prevention in atrial fibrillation: Second Copenhagen Atrial Fibrillation, Aspirin, and Anticoagulation Study. *Arch Intern Med* 1998 Jul 27;158:1513-21 [9679792]

**SPAF II (aspirin vs warfarin standard dose, age<75), 1994:**

Warfarin versus aspirin for prevention of thromboembolism in atrial fibrillation: Stroke Prevention in Atrial Fibrillation II Study. *Lancet*. 1994 Mar 19;343(8899):687-91. [7907677]

**SPAF II (aspirin vs warfarin standard dose, age>75), 1994:**

Warfarin versus aspirin for prevention of thromboembolism in atrial fibrillation: Stroke Prevention in Atrial Fibrillation II Study. *Lancet*. 1994 Mar 19;343(8899):687-91. [7907677]

**BAFTA (aspirin vs warfarin standard dose), 0:**

ongoing trial

**AFASAK II (warfarin low dose+aspirin vs warfarin standard dose), 1998:**

Gullov AL, Koefoed BG, Petersen P, Pedersen TS, Andersen ED, Godtfredsen J, Boysen G Fixed minidose warfarin and aspirin alone and in combination vs adjusted-dose warfarin for stroke prevention in atrial fibrillation: Second Copenhagen Atrial Fibrillation, Aspirin, and Anticoagulation Study. *Arch Intern Med* 1998 Jul 27;158:1513-21 [9679792]

**SPAF III, 1996:**

Adjusted-dose warfarin versus low-intensity, fixed-dose warfarin plus aspirin for high-risk patients with atrial fibrillation: Stroke Prevention in Atrial Fibrillation III randomised clinical trial. *Lancet*. 1996 Sep 7;348(9028):633-8. [8782752]

## 9 acute coronary syndrome

Trial	Treatments	Patients	Trials design and methods
<b>aspirin vs control</b>			
Huddinge , 1988 n=10/10 follow-up: 30d (12m)	aspirin 500mg/d starting 12 h after admission and then intermittently every third day for one month versus no aspirin	patients with acute myocardial infarction	Parallel groups open
ATACS-pilot , 1990 n=37/24 follow-up: 3m	Aspirin 80mg/d (Heparin + Warfarin) versus full-dose heparin followed by warfarin	acute coronary syndromes	

continued...

Trial	Treatments	Patients	Trials design and methods
Frankfurt , 1976 n=25/28 follow-up: 14d	-	-	Parallel groups
<b>aspirin vs placebo</b>			
VA-main , 1983 n=661/677 follow-up: 3m	Aspirin 324mg/d versus placebo	men with unstable angina	double blind
ISIS-pilot , 1987 n=313/306 follow-up: 1m	aspirin (325 mg on alternate days for 28 days) versus placebo	suspected acute myocardial infarction	Parallel groups double blind
ISIS-2 , 1988 n=8587/8600 follow-up: 35d	160 mg/day enteric-coated aspirin for one month versus placebo	suspected acute myocardial up to 24h	Parallel groups double blind
VA-pilot <i>unpublished</i> n=26/24 follow-up: 3m	-	-	
RISC , 1990 n=474/471 follow-up: 12m	Aspirin 75mg/d versus placebo	men with unstable coronary artery disease (unstable angina or non-Q wave myocardial infarction)	Factorial plan double blind Sweden
Canadian (Aspirin vs PBO) , 1985 n=NA follow-up: 18m	Aspirin 1300mg/d versus placebo	patients with unstable angina	double blind
ALDUSA-pilot <i>unpublished</i> n=56/28 follow-up: 12m	-	-	
Dutch-aspirin , 1990 n=50/50 follow-up: 3m	aspirin (100 mg/day) for 3 months versus placebo	patients with first anterior wall AMI	Parallel groups double blind
Throux , 1988 n=121/118 follow-up: 6d (3m)	Aspirin 325 mg twice daily versus placebo	acute unstable angina	double blind
APRICOT , 1993 n=107/95 follow-up: 3m	325 mg aspirin daily with discontinuation of heparin versus placebo	Patients treated with intravenous thrombolytic therapy followed by intravenous heparin and with patent infarct-related artery demonstrated at angiography within 48 hours	Parallel groups double blind The Netherlands

continued...



Trial	Treatments	Patients	Trials design and methods
<b>aspirin + dipyridamol vs placebo</b>			
Prandoni , 1991 n=44/44 follow-up: 12m	Aspirin 50mg/d + Dipyridamol 400mg/d versus placebo	patients with acute unstable angina	double blind
<b>aspirin + sulfinpyrazone vs placebo</b>			
Canadian (Aspirin + sulfinpyrazone) , 1985 n=416/139 follow-up: 18m	Aspirin 1300mg/d + sulfinpyrazone 800mg/d versus placebo	patients with unstable angina	double blind
<b>UFH + aspirin vs placebo</b>			
RISC (ASP+ heparin vs PBO) , 1990 n=210/199 follow-up: 1y (5,30 and 90 days)	oral aspirin 75mg/d + intermittent IV heparin 10000UI/d followed by 7500 UI 6-hourly for 4 days versus placebo	men with unstable coronary artery disease (unstable angina or non-Q-wave myocardial infarction)	Sweden
Theroux (heparin+aspirin vs PBO) , 1988 n=122/118 follow-up: 3-9 days	heparin (1000 units per hour by intravenous infusion)+ aspirin (325 mg twice daily) versus aspirin (325 mg twice daily)	-	double blind
<b>clopidogrel + aspirin vs aspirin</b>			
CURE , 2001 n=6259/6303 follow-up: NA (median <9 months)	clopidogrel 300 mg immediately, followed by 75 mg once daily + aspirin for 3 to 12 months versus aspirin (+placebo)	acute coronary syndromes without ST-segment elevation within 24 hours after the onset of symptoms	Parallel groups double blind 28 countries

More details and results :

- antithrombotics for acute coronary syndrome in all type of patients at <http://www.trialresultscenter.org/go-Q24>
- antiplatelets drug for acute coronary syndrome in ACS (excluding AMI) at <http://www.trialresultscenter.org/go-Q169>
- heparin (UFH or LMWH) for acute coronary syndrome in all type of patients at <http://www.trialresultscenter.org/go-Q171>
- antiplatelets drug for acute coronary syndrome in all type of patients at <http://www.trialresultscenter.org/go-Q346>
- antiplatelets drug for acute coronary syndrome in STEMI patients at <http://www.trialresultscenter.org/go-Q564>

## References

### **Huddinge, 1988:**

Rasmanis G, Vesterqvist O, Gren K, Edhag O, Henriksson P Effects of intermittent treatment with aspirin on thromboxane and prostacyclin formation in patients with acute myocardial infarction. *Lancet* 1988;2:245-7 [2899236]

### **ATACS-pilot, 1990:**

Cohen M, Adams PC, Hawkins L, Bach M, Fuster V Usefulness of antithrombotic therapy in resting angina pectoris or non-Q-wave myocardial infarction in preventing death and myocardial infarction (a pilot study from the Antithrombotic Therapy in Acute Coronary Syndromes Study Group). *Am J Cardiol* 1990 Dec 1;66:1287-92 [2244556]

### **Frankfurt, 1976:**

Asasantin DVT nach Myokardinfarktp, imag Boehringer Ingelheim, 1976. (Boehringer Ingelheim internal report.)

### **VA-main, 1983:**

Lewis HD Jr, Davis JW, Archibald DG, Steinke WE, Smitherman TC, Doherty JE 3rd, Schnaper HW, LeWinter MM, Linares E, Pouget JM, Sabharwal SC, Chesler E, DeMots H Protective effects of aspirin against acute myocardial infarction and death in men with unstable angina. Results of a Veterans Administration Cooperative Study. *N Engl J Med* 1983;309:396-403 [6135989]

### **ISIS-pilot, 1987:**

Randomized factorial trial of high-dose intravenous streptokinase, of oral aspirin and of intravenous heparin in acute myocardial infarction. ISIS (International Studies of Infarct Survival) pilot study. *Eur Heart J* 1987;8:634-42 [2887430]

### **ISIS-2, 1988:**

Randomised trial of intravenous streptokinase, oral aspirin, both, or neither among 17,187 cases of suspected acute myocardial infarction: ISIS-2. ISIS-2 (Second International Study of Infarct Survival) Collaborative Group. *Lancet* 1988;2:349-60 [2899772]

### **VA-pilot, 0:**

unpublished

Lewis HD *Circulation* 1985;72 (suppl V):155-60

### **RISC, 1990:**

Risk of myocardial infarction and death during treatment with low dose aspirin and intravenous heparin in men with unstable coronary artery disease. The RISC Group. *Lancet* 1990;336:827-30 [1976875]

Wallentin LC Aspirin (75 mg/day) after an episode of unstable coronary artery disease: long-term effects on the risk for myocardial infarction, occurrence of severe angina and the need for revascularization. Research Group on Instability in Coronary Artery Disease in Southeast Sweden. *J Am Coll Cardiol* 1991;18:1587-93 [1960301]

### **Canadian (Aspirin vs PBO), 1985:**

Cairns JA, Gent M, Singer J, Finnie KJ, Froggatt GM, Holder DA, Jablonsky G, Kostuk WJ, Melendez LJ, Myers MG *N Engl J Med* 1985;313:1369-75 [3903504]

### **ALDUSA-pilot, 0:**

unpublished

Unit de Pharmacologie Clinique, 1987. (Unit de Pharmacologie Clinique unpublished report)

### **Dutch-aspirin, 1990:**

Verheugt FW, van der Laarse A, Funke-Kpper AJ, Sterkman LG, Galema TW, Roos JP Effects of early intervention with low-dose aspirin (100 mg) on infarct size, reinfarction and mortality in anterior wall acute myocardial infarction. *Am J Cardiol* 1990;66:267-70 [2195861]

**Throux, 1988:**

Theroux P, Ouimet H, McCans J, Latour JG, Joly P, Levy G, Pelletier E, Juneau M, Stasiak J, deGuise P Aspirin, heparin, or both to treat acute unstable angina. N Engl J Med 1988 Oct 27;319:1105-11 [3050522]

**APRICOT, 1993:**

Meijer A, Verheugt FW, Werter CJ, Lie KI, van der Pol JM, van Eenige MJ Aspirin versus coumadin in the prevention of reocclusion and recurrent ischemia after successful thrombolysis: a prospective placebo-controlled angiographic study. Results of the APRICOT Study. Circulation 1993;87:1524-30 [8491007]

**Prandoni, 1991:**

Prandoni P, Milani L, Barbiero M, Cardaioli P, Sanson A, Barbaresi F, Zonzin P, Visani L [Treatment of unstable angina with dipyridamole combined with low doses of aspirin. A multicenter pilot double-blind controlled study] Minerva Cardioangiol 1991;39:267-73 [1780077]

**Canadian (Aspirin + sulfinpyrazone), 1985:**

Cairns JA, Gent M, Singer J, Finnie KJ, Froggatt GM, Holder DA, Jablonsky G, Kostuk WJ, Melendez LJ, Myers MG Aspirin, sulfinpyrazone, or both in unstable angina. Results of a Canadian multicenter trial. N Engl J Med 1985;313:1369-75 [3903504]

**RISC (ASP+ heparin vs PBO), 1990:**

Risk of myocardial infarction and death during treatment with low dose aspirin and intravenous heparin in men with unstable coronary artery disease. The RISC Group. Lancet 1990 Oct 6;336:827-30 [1976875]

**Theroux (heparin+aspirin vs PBO), 1988:**

Throux P, Ouimet H, McCans J, Latour JG, Joly P, Lvy G, Pelletier E, Juneau M, Stasiak J, deGuise P Aspirin, heparin, or both to treat acute unstable angina. N Engl J Med 1988;319:1105-11 [3050522]

**CURE, 2001:**

Yusuf S, Zhao F, Mehta SR, Chrolavicius S, Tognoni G, Fox KK Effects of clopidogrel in addition to aspirin in patients with acute coronary syndromes without ST-segment elevation. N Engl J Med 2001;345:494-502 [11519503]

## 10 thrombosis prevention

Trial	Treatments	Patients	Trials design and methods
<b>IPC + aspirin vs aspirin</b>			
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

continued...

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
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
<b>aspirin vs control</b>			
Clagett , 1975 n=56/49	A1300 versus control	-	open
Zekert VI , 1982 n=50/50	A1500 versus control	-	open
<b>aspirin + dipyridamol vs control</b>			
Chicago , 1982 n=12/15 follow-up:	aspirin, 300 mg bid, and dipyridamole, 75 mg tid versus control	patients with acute spinal cord injury	Parallel groups open
<b>dipyridamol + aspirin vs control</b>			
Parodi I , 1973 n=40/22	Dip,A1000+Dip versus control	-	open
Parodi II , 1973 n=91/35	A1500,Dip,A+Dip versus control	-	open
Australian I , 1975 n=75/75	A1000+Dip versus control	-	open
Australian II , 1976 n=85/75	A1000+Dip versus control	-	open
Toulouse I , 1979 n=38/66	A990+Dip versus control	-	open
Zekert-III , 1977 n=135/46	A1500,A1300+Dip,A1000+Dip versus control	-	open
Harjola DVT , 1982 n=300/100	A1500,Dip,A+Dip versus control	-	open

continued...

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
Weiss , 1977 n=30/36	A990+Dip versus control	-	open
<b>CECT + aspirin vs LMWH</b>			
Gelfer , 2006 n=NA follow-up: 8 days	continuous enhanced circulation therapy (CECT) combined with low-dose aspirin versus enoxaparin 40 mg daily	patients who underwent total hip or knee arthroplasty	Parallel groups open
<b>Aspirin vs no treatment</b>			
Pasteyer , 1977 n=20/20 follow-up: 2 weeks	Aspirin 1000mg daily + Hep versus control (Hep alone)	Elective orthopaedic surgery	Parallel groups
Rocha , 1986 n=60/30 follow-up: 1 weeks	Aspirin 250mg or 1000mg daily versus control (combination of heparin plus dihydroergotamine)	total hip replacement	Parallel groups open
<b>aspirin + dipyridamol vs no treatment</b>			
Morris-B , 1977 n=32/32 follow-up:	Aspirin 900 mg daily + dipyridamole versus control	elderly patients with hip fractures	Parallel groups open
Lyon-I , 1975 n=20/20 follow-up: 2 weeks	Aspirin 1500 mg daily + Dipyridamole versus control	Elective orthopaedic surgery	
<b>aspirin vs placebo</b>			
MRC , 1972 n=153/150	A600 versus placebo	general surgery	double-blind
Loew DVT , 1974 n=702/679	A600 versus Placebo	-	double-blind
Erfurt-A , 1979 n=357/357	A1500 versus Placebo	-	double-blind
Zekert V , 1980 n=50/49	A1500+Hep???	-	double-blind
Vinazzer I , 1980 n=402/404	A1500+Hep v Hep versus Placebo	-	double-blind

continued...

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
Vinazzer II , 1977 n=62/62	A1000+Hepv Hep versus Placebo	-	double-blind
Zekert-I , 1974 n=138/140 follow-up:	Aspirin 1500mg daily versus placebo	patients undergoing surgery of hip-joint proximal fractures	Parallel groups double-blind
Powers , 1976 n=66/63	A1300 versus placebo	traumatic orthopaedic surgery	
Erfurt-B , 1979 n=44/44 follow-up:	A1500 versus placebo	traumatic orthopaedic surgery	double-blind
PEP hip-fracture , 2000 n=6679/6677 follow-up: 35 days	aspirin 160mg/d started preoperatively and continued for 35 days versus placebo	patients undergoing surgery for hip fracture	Parallel groups Double blind Australia, New Zealand, South Africa,
PEP elective arthroplasty , 2000 n=2047/2041 follow-up: 35 days	aspirin 160mg/d started preoperatively and continued for 35 daysA versus placebo	Patients undergoing elective hip or knee arthroplasty	Parallel groups Double blind New Zealand
Stockholm-I , 1975 n=26/25 follow-up: 2 weeks	Aspirin 2000mg daily versus placebo	elective surgery of the hip	double blind
Harris-I , 1977 n=58/59 follow-up: 1 weeks	Aspirin 1200mg daily versus placebo	patients over 40 years of age, who had undergone total hip replacement	Parallel groups double-blind
McKenna-I , 1980 n=24/12 follow-up: 2 weeks	Aspirin 975mg or 3900mg daily versus placebo	total knee replacement	Parallel groups double-blind
Sautter , 1983 n=68/77 follow-up: 3 weeks	Aspirin 900mg daily + sulfinpyrazone versus placebo	patient with total hip replacement	Parallel groups
McBride , 1983 n=21/22 follow-up: 1 weeks	A1800+Dipyridamole versus placebo	Elective orthopaedic surgery	
<b>aspirin + dipyridamol vs placebo</b>			

continued...

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
Encke-II , 1976 n=34/25 follow-up:	Aspirin 1500mg daily, Aspirin 990mg daily + dipyridamol versus placebo	patients with abdominal operations	Parallel groups double-blind
Hamburg , 1976 n=21/11 follow-up: 3 weeks	A+Dipyridamol,A1000 versus placebo	Elective orthopaedic surgery	
Frankfurt , 1981 <i>unpublished</i> n=25/14 follow-up:	A+Dip,A1320 versus placebo	patients with myocardial infarction	Parallel groups double-blind
<b>dipyridamol + aspirin vs placebo</b>			
Encke IA , 1976 n=21/9	A990,A+Dip versus Placebo	-	double-blind
Encke IB , 1976 n=62/34	A1500,A990+Dip versus Placebo	-	double-blind

More details and results :

- antithrombotics for thrombosis prevention in orthopedic surgery at <http://www.trialresultscenter.org/go-Q37>
- antithrombotics for thrombosis prevention in elective major knee surgery at <http://www.trialresultscenter.org/go-Q38>
- antithrombotics for thrombosis prevention in elective hip replacement at <http://www.trialresultscenter.org/go-Q39>
- antithrombotics for thrombosis prevention in hip Fracture at <http://www.trialresultscenter.org/go-Q40>
- antithrombotics for thrombosis prevention in medical patients at <http://www.trialresultscenter.org/go-Q87>
- antithrombotics for thrombosis prevention in general surgery at <http://www.trialresultscenter.org/go-Q92>
- antiplatelets drug for thrombosis prevention in orthopedic surgery at <http://www.trialresultscenter.org/go-Q186>
- mechanical devices for thromboprophylaxis for thrombosis prevention in all type of patients at <http://www.trialresultscenter.org/go-Q402>
- antiplatelets drug for thrombosis prevention in general surgery at <http://www.trialresultscenter.org/go-Q461>
- antiplatelets drug for thrombosis prevention in all type of patients at <http://www.trialresultscenter.org/go-Q462>

- antiplatelets drug for thrombosis prevention in medical patients at <http://www.trialresultscenter.org/go-Q463>
- antiplatelets drug for thrombosis prevention in elective orthopedic surgery at <http://www.trialresultscenter.org/go-Q464>

## References

### **Hull 2 (+asp), 1979:**

Hull R, Delmore TJ, Hirsh J, Gent M, Armstrong P, Lofthouse R, MacMillan A, Blackstone I, Reed-Davis R, Detwiler RC Effectiveness of intermittent pulsatile elastic stockings for the prevention of calf and thigh vein thrombosis in patients undergoing elective knee surgery. *Thromb Res* 1979;16:37-45 [505427]

### **Hull (+asp), 1979:**

Hull R, Delmore TJ, Hirsh J, Gent M, Armstrong P, Lofthouse R, MacMillan A, Blackstone I, Reed-Davis R, Detwiler RC Effectiveness of intermittent pulsatile elastic stockings for the prevention of calf and thigh vein thrombosis in patients undergoing elective knee surgery. *Thromb Res* 1979;16:37-45 [505427]

### **65279;Lieberman (A), 1994:**

Lieberman JR, Huo MM, Hanway J, Salvati EA, Sculco TP, Sharrock NE The prevalence of deep venous thrombosis after total hip arthroplasty with hypotensive epidural anesthesia. *J Bone Joint Surg Am* 1994;76:341-8 [8126039]

### **Clagett, 1975:**

Clagett GP, Schneider P, Rosoff CB, Salzman EW The influence of aspirin on postoperative platelet kinetics and venous thrombosis. *Surgery* 1975;77:61-74 [1109518]

### **Zekert VI, 1982:**

Zekert F, Schemper M, Neumann K Acetylsalicylic acid in combination with dihydroergotamine for preventing thromboembolism. *Haemostasis* 1982;11:149-53 [7095604]

### **Chicago, 1982:**

Green D, Rossi EC, Yao JS, Flinn WR, Spies SM Deep vein thrombosis in spinal cord injury: effect of prophylaxis with calf compression, aspirin, and dipyridamole. *Paraplegia* 1982;20:227-34 [6813814]

### **Parodi I, 1973:**

Parodi JC, Grandi A, Font E, Rotondaro D, Iorio J, Manrique J. El dipiridamol y el acido acetilsalicilico en la profilaxis de las trombosis venosas postoperatorias de los miembros inferiores *Dia Med* 1973;45:92-3.

### **Parodi II, 1973:**

Parodi JC, Grandi A, Font E, Rotondaro D, Iorio J, Manrique J. El dipiridamol y el acido acetilsalicilico en la profilaxis de las trombosis venosas postoperatorias de los miembros inferiores *Dia Med* 1973;45:92-3.

### **Australian I, 1975:**

O'Sullivan EF, Renney JT. Antiplatelet drugs in the prevention of postoperative deep vein thrombosis In: *Proceedings of III congress of Interiational Societyfor Thrombosis andHaemnostasis* (Washington). 1972:438.

### **Australian II, 1976:**

Renney JT, O'Sullivan EF, Burke PF Prevention of postoperative deep vein thrombosis with dipyridamole and aspirin. *Br Med J* 1976;1:992-4 [773495]

### **Toulouse I, 1979:**

Plante J, Boneu B, Vaysse C, Barret A, Gouzi M, Bierme R Dipyridamole-aspirin versus low doses of heparin in the prophylaxis of deep venous thrombosis in abdominal surgery. *Thromb Res* 1979;14:399-403 [442014]



**Zekert-III, 1977:**

Zekert F. Prophylaxe von phlebothrombosen und lungenembolien mit aggregationshemmern In: Zekert F, ed. Thrombosen, Embolien und Aggregationshemmer in der Chirurgie. Stuttgart: Schattauer, 1975:75-88.

**Harjola DVT, 1982:**

Harjola P, Meurala H, Frick AMH. Prevention of deep venous thrombosis and thrombo-embolism by dipyridamole and acetylsalicylic acid after revascularization of arterial surgery J Cardiovasc Surg 1980;21:451-4.

**Weiss, 1977:**

Weiss V, Jekiel M, Ritschard J, Bouvier CA. Prevention of the thrombo-embolic post-operative disease by anti-aggregants in gynecological surgery and hygiene (Geneve) 1977;35:943-4.

**Gelfer, 2006:**

Gelfer Y, Tavor H, Oron A, Peer A, Halperin N, Robinson D Deep vein thrombosis prevention in joint arthroplasties: continuous enhanced circulation therapy vs low molecular weight heparin. J Arthroplasty 2006 Feb;21:206-14 [[16520208](#)]

**Pasteyer, 1977:**

Flicoteaux H, Kher A, Jean N, Blery M, Judet T, Honnart F, et al. Comparison of low dose heparin and low dose heparin combined with aspirin in prevention of deep vein thrombosis after total hip replacement. Pathol Biol (Paris) 1977;25(suppl):55-8.

**Rocha, 1986:**

Alfaro MJ, Pramo JA, Rocha E Prophylaxis of thromboembolic disease and platelet-related changes following total hip replacement: a comparative study of aspirin and heparin-dihydroergotamine. Thromb Haemost 1986;56:53-6 [[3535158](#)]

**Morris-B , 1977:**

Morris GK, Mitchell JR Preventing venous thromboembolism in elderly patients with hip fractures: studies of low-dose heparin, dipyridamole, aspirin, and flurbiprofen. Br Med J 1977;1:535-7 [[843794](#)]

**Lyon-I, 1975:**

Dechavanne M, Ville D, Viala JJ, Kher A, Faivre J, Pousset MB, Dejour H Controlled trial of platelet anti-aggregating agents and subcutaneous heparin in prevention of postoperative deep vein thrombosis in high risk patients. Haemostasis 1975;4:94-100 [[1205340](#)]

**MRC, 1972:**

Effect of aspirin on postoperative venous thrombosis. Report of the Steering Committee of a trial sponsored by the Medical Research Council. Lancet 1972;2:441-5 [[4115340](#)]

**Loew DVT, 1974:**

Loew D, Wellmer HK, Baer U, Merguet H, Rumpf P, Petersen H, et al. Postoperative thromboembolie-prophylaxe mit acetylsalicylsäure. Dtsch Med Wschr 1974;99:565-72.

**Erfurt-A, 1979:**

Schreiber U, Hartung B. Postoperative thromboembolieprophylaxe bei patienten mit allgemein chirurgischen operationen Chirur 1979;104: 1214-20.

**Zekert V, 1980:**

Zekert F, Hofbauer F, Mhlbacher F [Prophylaxis of thromboembolism in abdominal surgery. Comparison of low dose heparin, acetylsalicylic acid and their combination (author's transl)] MMW Munch Med Wochenschr 1980;122:1495-8 [[6780841](#)]

**Vinazzer I, 1980:**

Vinazzer H, Loew D, Simma W, Brcke P Prophylaxis of postoperative thromboembolism by low dose heparin and by acetylsalicylic acid given simultaneously. A double blind study. *Thromb Res* 1980;17:177-84 [7376128]

**Vinazzer II, 1977:**

Loew D, Brcke P, Simma W, Vinazzer H, Dienstl E, Boehme K Acetylsalicylic acid, low dose heparin, and a combination of both substances in the prevention of postoperative thromboembolism. A double blind study. *Thromb Res* 1977;11:81-6 [329468]

**Zekert-I , 1974:**

Zekert F, Kohn P, Vormittag E, Poigenfrst J, Thien M [Prevention of thromboembolism using acetylsalicylic acid in the surgery of hip-joint proximal fractures] *Monatsschr Unfallheilkd Versicher Versorg Verkehrsmed* 1974;77:97-110 [4277091]

**Powers , 1976:**

Hansen EH, Jessing P, Lindewald H, Ostergaard P, Olesen T, Malver EI Hydroxychloroquine sulphate in prevention of deep venous thrombosis following fracture of the hip, pelvis, or thoracolumbar spine. *J Bone Joint Surg Am* 1976;58:1089-93 [1002750]

Powers PJ, Gent M, Jay RM, Julian DH, Turpie AG, Levine M, Hirsh J A randomized trial of less intense postoperative warfarin or aspirin therapy in the prevention of venous thromboembolism after surgery for fractured hip. *Arch Intern Med* 1989;149:771-4 [2650646]

**Erfurt-B , 1979:**

Hartung B, Schreiber U, Rdiger H [Study of the platelet aggregation inhibitor MICRISTIN as to its efficacy in the prevention of thromboembolism in the postoperative phase following surgical interventions] *Folia Haematol Int Mag Klin Morphol Blutforsch* 1979;106:810-27 [94873]

**PEP hip-fracture, 2000:**

Prevention of pulmonary embolism and deep vein thrombosis with low dose aspirin: Pulmonary Embolism Prevention (PEP) trial. *Lancet* 2000 Apr 15;355:1295-302 [10776741]

**PEP elective arthroplasty, 2000:**

Prevention of pulmonary embolism and deep vein thrombosis with low dose aspirin: Pulmonary Embolism Prevention (PEP) trial. *Lancet* 2000 Apr 15;355:1295-302 [10776741]

**Stockholm-I, 1975:**

Soreff J, Johnsson H, Diener L, Gransson L Acetylsalicylic acid in a trial to diminish thromboembolic complications after elective hip surgery. *Acta Orthop Scand* 1975;46:246-55 [1096521]

**Harris-I, 1977:**

Harris WH, Salzman EW, Athanasoulis CA, Waltman AC, DeSanctis RW Aspirin prophylaxis of venous thromboembolism after total hip replacement. *N Engl J Med* 1977;297:1246-9 [335247]

**McKenna-I, 1980:**

McKenna R, Galante J, Bachmann F, Wallace DL, Kaushal PS, Meredith P Prevention of venous thromboembolism after total knee replacement by high-dose aspirin or intermittent calf and thigh compression. *Br Med J* 1980;280:514-7 [6989432]

**Sautter, 1983:**

Sautter RD, Koch EL, Myers WO, Ray JR 3rd, Mazza JJ, Larson DE, Chen HM, Milbauer JP, Treuhaft PS, Plotka ED Aspirin-sulfinpyrazone in prophylaxis of deep venous thrombosis in total hip replacement. *JAMA* 1983;250:2649-54 [6355542]

**McBride, 1983:**

McBride JA, Turpie AG, Kraus V, Hiltz C. Failure of aspirin and dipyridamole to influence the incidence of leg scan detected venous thrombosis after elective hip surgery Thrombosis et Diathesis Haemorrhagica 975;34:abstract 204.

**Encke-II , 1976:**

Encke A, Stock C, Dumke HO [Double-blind study for the prevention of postoperative thrombosis] Chirurg 1976;47:670-3 [1001131]

**Hamburg, 1976:**

Boehringer Ingelheim DVT nach Hirntumoroperationen Boehringer Ingelheim, 1976. (Internal report.)

**Frankfurt, 1981:**

unpublished

Boehringer Ingelheim. Asasantin DVT nach myokardinfarkt Bracknell Berkshire: Boehringer Ingelheim, 1981. (Internal report.)

**Encke IA, 1976:**

Encke A, Stock C, Dumke HO [Double-blind study for the prevention of postoperative thrombosis] Chirurg 1976;47:670-3 [1001131]

Schreiber U, Hartung B [Prevention of postoperative thromboembolism with micristin in general surgical patients (author's transl)] Zentralbl Chir 1979;104:1214-20 [543338]

**Encke IB, 1976:**

Encke A, Stock C, Dumke HO [Double-blind study for the prevention of postoperative thrombosis] Chirurg 1976;47:670-3 [1001131]

## 11 diabetes type 2

Trial	Treatments	Patients	Trials design and methods
<b>aspirin vs no treatment</b>			
PPP (diabetics sub group) , 2003 n=519/512 follow-up: 3.6 y	aspirin 100mg daily versus control	men and women with diabetes and without a previous cardiovascular event aged >50 with >=1 risk factors for cardiovascular disease - sub group of diabetic patients	Factorial plan open Italy
JPAD , 2008 [NCT00110448] n=1262/1277 follow-up: 4.37 y median	low-dose aspirin (81 or 100 mg per day) versus no aspirin	patients with type 2 diabetes without a history of atherosclerotic disease	Parallel groups open Japan
<b>aspirin vs placebo</b>			
PHS (diabetics sub group) , 1989 n=275/258 follow-up: 5 y	aspirin 325 mg every other day versus placebo	healthy men (diabetic sub group of patients enrolled if PHS)	Factorial plan double blind
ETDRS , 1992 n=1856/1855 follow-up: 60 months	aspirin 650mg once daily versus placebo	patients with diabetes mellitus (Type I or II)	Parallel groups double blind

continued...

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>WHS (diabetics sub group) , 2005</b> n=514/513 follow-up: 10.1 y	aspirin 100mg on alternate days versus placebo	healthy women 45 years of age or older - diabetics sub groups	Parallel groups double blind US
<b>POPADAD aspirin , 2008</b> [ISRCTN53295293] n=638/638 follow-up: nov 1997 - jul 2001	aspirin 100mg daily versus placebo	patients with diabetes mellitus and asymptomatic peripheral arterial disease	Factorial plan double blind Scotland
<b>DAMAD , 1989</b> n=318/157 follow-up: 3 y	aspirin alone (330 mg 3 times daily) or in combination with dipyridamole (75 mg 3 times daily) versus placebo	patients with early diabetic retinopathy	Parallel groups double blind
<b>ASCEND (aspirin) ongoing</b> [NCT00135226] n=NA follow-up:	aspirin 100mg daily versus placebo	people with diabetes without cardiovascular disease	Factorial plan double blind UK
<b>ACCEPT-D ongoing</b> [ISRCTN48110081] n=NA follow-up:	aspirin 100mg daily top simvastatin 20mg daily versus no aspirin on top simvastatin 20mg daily	diabetic patients without clinically manifest vascular disease	Parallel groups open

More details and results :

- antiplatelets drug for diabetes type 2 in patients without cardiovascular disease at <http://www.trialresultscenter.org/go-Q221>
- antiplatelets drug for diabetes type 2 in all type of patients at <http://www.trialresultscenter.org/go-Q362>

## References

### PPP (diabetics sub group), 2003:

Sacco M, Pellegrini F, Roncaglioni MC, Avanzini F, Tognoni G, Nicolucci A Primary prevention of cardiovascular events with low-dose aspirin and vitamin E in type 2 diabetic patients: results of the Primary Prevention Project (PPP) trial. *Diabetes Care* 2003;26:3264-72 [[14633812](#)]

### JPAD, 2008:

Ogawa H, Nakayama M, Morimoto T, Uemura S, Kanauchi M, Doi N, Jinnouchi H, Sugiyama S, Saito Y Low-dose aspirin for primary prevention of atherosclerotic events in patients with type 2 diabetes: a randomized controlled trial. *JAMA* 2008;300:2134-41 [[18997198](#)]

### PHS (diabetics sub group), 1989:

Final report on the aspirin component of the ongoing Physicians' Health Study. Steering Committee of the Physicians' Health Study Research Group. *N Engl J Med* 1989;321:129-35 [[2664509](#)]

### ETDRS, 1992:

Aspirin effects on mortality and morbidity in patients with diabetes mellitus. Early Treatment Diabetic Retinopathy Study report 14. ETDRS Investigators. JAMA 1992 Sep 9;268:1292-300 [1507375]

### WHS (diabetics sub group), 2005:

Ridker PM, Cook NR, Lee IM, Gordon D, Gaziano JM, Manson JE, Hennekens CH, Buring JE A randomized trial of low-dose aspirin in the primary prevention of cardiovascular disease in women. N Engl J Med 2005;352:1293-304 [15753114] 10.1056/NEJMoa050613

### POPADAD aspirin, 2008:

Belch J, MacCuish A, Campbell I, Cobbe S, Taylor R, Prescott R, Lee R, Bancroft J, MacEwan S, Shepherd J, Macfarlane P, Morris A, Jung R, Kelly C, Connacher A, Peden N, Jamieson A, Matthews D, Leese G, McKnight J, O'Brien I, Semple C, Petrie J, Gordon D, The prevention of progression of arterial disease and diabetes (POPADAD) trial: factorial randomised placebo controlled trial of aspirin and antioxidants in patients with diabetes and asymptomatic peripheral arterial disease. BMJ 2008 Oct 16;337:a1840 [18927173]

### DAMAD, 1989:

Diabetes 1989;38:491-8 [2647556]

### ASCEND (aspirin), 0:

ongoing trial NCT00135226

### ACCEPT-D, 0:

ongoing trial ISRCTN48110081

De Berardis G, Sacco M, Evangelista V, Filippi A, Giorda CB, Tognoni G, Valentini U, Nicolucci A Aspirin and Simvastatin Combination for Cardiovascular Events Prevention Trial in Diabetes (ACCEPT-D): design of a randomized study of the efficacy of low-dose aspirin in the prevention of cardiovascular events in subjects with diabetes mellitus treated with statins. Trials 2007 Aug 28;8:21 [17725825]

## 12 venous thrombosis

Trial	Treatments	Patients	Trials design and methods
<b>aspirin vs discontinuation</b>			
<b>WARFASA , 2012</b> [NCT00222677] n=205/197 follow-up: 24.6 mo (median)	aspirin, 100 mg daily for 2 years versus placebo	patients with first-ever unprovoked venous thromboembolism who had completed 6 to 18 months of oral anticoagulant treatment	Parallel groups double-blind
<b>ASPIRE , 2012</b> [ACTRN12605000004662] n=411/411 follow-up: 37.2 montsh (median)	-	patients who had completed initial anticoagulant therapy after a first episode of unprovoked venous thromboembolism	
<b>aspirin vs placebo</b>			

continued...

Trial	Treatments	Patients	Trials design and methods
<b>ASPIRE , 2012</b> n=411/411 follow-up: 37.2 months median	aspirin, at a dose of 100 mg daily, for up to 4 years versus placebo	patients who had completed initial anticoagulant therapy after a first episode of unprovoked venous thromboembolism	
<b>WARFASA , 2012</b> n=205/197 follow-up:	aspirin, 100 mg daily for 2 years versus placebo	patients with first-ever unprovoked venous thromboembolism who had completed 6 to 18 months of oral anticoagulant treatment	

More details and results :

- antithrombotics for venous thrombosis in secondary prevention of VTE at <http://www.trialresultscenter.org/go-Q149>
- antithrombotics for venous thrombosis in secondary prevention - 2 at <http://www.trialresultscenter.org/go-Q682>

## References

### WARFASA, 2012:

Becattini C, Agnelli G, Schenone A, Eichinger S, Bucherini E, Silingardi M, Bianchi M, Moia M, Ageno W, Vandelli MR, Grandone E, Prandoni P Aspirin for preventing the recurrence of venous thromboembolism. N Engl J Med 2012 May 24;366:1959-67 [22621626] [10.1056/NEJMoa1114238](https://doi.org/10.1056/NEJMoa1114238)

### ASPIRE, 2012:

Brighton TA, Eikelboom JW, Mann K, Mister R, Gallus A, Ockelford P, Gibbs H, Hague W, Xavier D, Diaz R, Kirby A, Simes J Low-dose aspirin for preventing recurrent venous thromboembolism. N Engl J Med 2012;367:1979-87 [23121403]

### ASPIRE, 2012:

Brighton TA, Eikelboom JW, Mann K, Mister R, Gallus A, Ockelford P, Gibbs H, Hague W, Xavier D, Diaz R, Kirby A, Simes J Low-dose aspirin for preventing recurrent venous thromboembolism. N Engl J Med 2012;367:1979-87 [23121403] [10.1056/NEJMoa1210384](https://doi.org/10.1056/NEJMoa1210384)

### WARFASA, 2012:

Becattini C, Agnelli G, Schenone A, Eichinger S, Bucherini E, Silingardi M, Bianchi M, Moia M, Ageno W, Vandelli MR, Grandone E, Prandoni P Aspirin for preventing the recurrence of venous thromboembolism. N Engl J Med 2012;366:1959-67 [22621626] [10.1056/NEJMoa1114238](https://doi.org/10.1056/NEJMoa1114238)

## 13 stent

Trial	Treatments	Patients	Trials design and methods
clopidogrel+aspirin vs aspirin			

continued...

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>REAL-LATE, ZEST-LATE , 2010</b> [NCT00484926] n=1357/1344 follow-up: 19.2 months	clopidogrel plus aspirin versus aspirin alone	patients who had received drugeluting stents and had been free of major adverse cardiac or cerebrovascular events and major bleeding for a period of at least 12 months	Parallel groups open South Korea
<b>cilostazol + aspirin vs aspirin</b>			
<b>Sekiya , 1998</b> n=63/63	Cilostazol 200 mg qD x6mos Aspirin 81 mg qD versus Coumadin unspecified regimen Aspirin 81 mg qD	-	
<b>ticlopidine + aspirin vs aspirin</b>			
<b>STARS (vs aspirin) , 1998</b> n=546/557 follow-up:	Ticlopidine 250 mg BID 4 wks Aspirin 325 mg qD versus Aspirin 325 mg qD	-	
<b>Hall , 1996</b> n=13/103	Ticlopidine 250 mg BID 1 mo Aspirin 325 mg qD 5 days versus Aspirin 325 mg qD	-	
<b>ticlopidine + aspirin vs coumadin + aspirin</b>			
<b>STARS (vs coumadin+asp) , 1998</b> n=546/550 follow-up:	Ticlopidine 250 mg BID x4 wks Aspirin 325 mg qD versus Coumadin INR 2.5-3.0 x4 wks Aspirin 325 mg qDBID	-	
<b>FANTASTIC , 1998</b> n=243/230	Ticlopidine 250 mg BID 6 wks Aspirin 100325 mg qD versus Coumadin INR 2.5-3.0 6 wks Aspirin 100325 mg qD/pj	-	
<b>ISAR , 1996</b> n=257/260 follow-up:	Ticlopidine 250 mg BID 4 wks Aspirin 100 mg BIDage/pj versus Coumadin INR 3.5-4.5 4 wks Aspirin 100 mg BID	-	

continued...

Trial	Treatments	Patients	Trials design and methods
MATTIS , 1998 n=177/173	Ticlopidine 250 mg BID 30 days Aspirin 250 mg qD versus Coumadin INR 2.53.0 x30 days Aspirin 250 mg qDg qD/pj	-	
Foussas , 2000 n=203/201	Ticlopidine 500mg qD 1 mo Aspirin 325 mg qD versus Coumadin INR 23 x4 wks Aspirin 325 mg qDg BID	-	
<b>cilostazol + aspirin vs ticlopidine + aspirin</b>			
Kozuma , 2001 n=62/63	Cilostazol 200 mg qD x6 mos Aspirin 81162 mg qD versus Ticlopidine 200 mg qD x6 mos Aspirin 81162 mg qD	-	
Ochiai , 1999 n=25/25	Cilostazol 100 mg BID x6 mos Aspirin 81 mg TID versus Ticlopidine 100 mg BID x1 mo Aspirin 81 mg TID	-	
Park , 1999 n=247/243	Cilostazol 100 mg BID x6 mos Aspirin 200 mg qD versus Ticlopidine 250 mg BID x4 wks Aspirin 200 mg qD	-	
Yoon , 1999 n=147/149	Cilostazol 100 mg BID x30 days Aspirin 100 mg qD versus Ticlopidine 250 mg BID x30 days Aspirin 100 mg qD	-	
Kamishirado , 2002 n=65/65	Cilostazol 200 mg qD x6 mos Aspirin 81 mg qD versus Ticlopidine 200 mg qD x6 mos Aspirin 81 mg qD	-	
<b>clopidogrel + aspirin vs ticlopidine + aspirin</b>			

continued...



Trial	Treatments	Patients	Trials design and methods
Miller , 2000 n=355/345	Clopidogrel 75 mg qD x4 wks Aspirin 100 mg qD versus Ticlopidine 250 mg BID x4 wks Aspirin 100 mg qD	-	
CLASSICS , 2000 n=345/340	Clopidogrel 300mg x1, 75 mg qD x4 wks Aspirin 325 mg qDyp ‘ versus Ticlopidine 250 mg BID x4 wks Aspirin 325 mg qD	-	
TOPPS , 2001 n=494/522	Clopidogrel 300 mg x1, unsp. Dose x2 wks Aspirin 325 mg qD versus Ticlopidine 500 mg x1, unsp. Dose x2 wks Aspirin 325 mg qD	-	
Piamsomboon , 2001 n=37/31	Clopidogrel 300 mg x1, 75 mg qD x4 wks Aspirin 300 mg BID x4 wks, 300 mg qD versus Ticlopidine 250 mg po BID x4 wks Aspirin 300 mg BID x4 wks, 300 mg qD	-	

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More details and results :

- antithrombotics for stent in all type of patients at <http://www.trialresultscenter.org/go-Q151>
- dual antiplatelet therapy for stent in all type of patients at <http://www.trialresultscenter.org/go-Q578>

## References

### REAL-LATE, ZEST-LATE, 2010:

Park SJ, Park DW, Kim YH, Kang SJ, Lee SW, Lee CW, Han KH, Park SW, Yun SC, Lee SG, Rha SW, Seong IW, Jeong MH, Hur SH, Lee NH, Yoon J, Yang JY, Lee BK, Choi YJ, Chung WS, Lim DS, Cheong SS, Kim KS, Chae JK, Nah DY, Jeon DS, Seung KB, Jang JS, Park HS, Le Duration of dual antiplatelet therapy after implantation of drug-eluting stents. N Engl J Med 2010;362:1374-82 [20231231] [10.1056/NEJMoa1001266](https://doi.org/10.1056/NEJMoa1001266)

### Sekiya, 1998:

Sekiya M, Funada J, Watanabe K, Miyagawa M, Akutsu H Effects of probucol and cilostazol alone and in combination on frequency of poststenting restenosis. Am J Cardiol 1998;82:144-7 [9678282]

### STARS (vs aspirin), 1998:

Leon MB, Baim DS, Popma JJ, Gordon PC, Cutlip DE, Ho KK, Giambartolomei A, Diver DJ, Lasorda DM, Williams DO, Pocock SJ, Kuntz RE A clinical trial comparing three antithrombotic-drug regimens after coronary-artery stenting. Stent Anticoagulation Restenosis Study Investigators. N Engl J Med 1998;339:1665-71 [9834303]

**Hall, 1996:**

Hall P, Nakamura S, Maiello L, Itoh A, Blengino S, Martini G, Ferraro M, Colombo A A randomized comparison of combined ticlopidine and aspirin therapy versus aspirin therapy alone after successful intravascular ultrasound-guided stent implantation. *Circulation* 1996;93:215-22 [8548891]

**STARS (vs coumadin+asp), 1998:**

Leon MB, Baim DS, Popma JJ, Gordon PC, Cutlip DE, Ho KK, Giambartolomei A, Diver DJ, Lasorda DM, Williams DO, Pocock SJ, Kuntz RE A clinical trial comparing three antithrombotic-drug regimens after coronary-artery stenting. Stent Anticoagulation Restenosis Study Investigators. *N Engl J Med* 1998;339:1665-71 [9834303]

**FANTASTIC, 1998:**

Bertrand ME, Legrand V, Boland J, Fleck E, Bonnier J, Emmanuelson H, Vrolix M, Missault L, Chierchia S, Casaccia M, Niccoli L, Oto A, White C, Webb-Peploe M, Van Belle E, McFadden EP Randomized multicenter comparison of conventional anticoagulation versus antiplatelet therapy in unplanned and elective coronary stenting. The full anticoagulation versus aspirin and ticlopidine (fantastic) study. *Circulation* 1998;98:1597-603 [9778323]

**ISAR, 1996:**

Schmig A, Neumann FJ, Kastrati A, Schhlen H, Blasini R, Hadamitzky M, Walter H, Zitzmann-Roth EM, Richardt G, Alt E, Schmitt C, Ulm K A randomized comparison of antiplatelet and anticoagulant therapy after the placement of coronary-artery stents. *N Engl J Med* 1996;334:1084-9 [8598866]

**MATTIS, 1998:**

Urban P, Macaya C, Rupprecht HJ, Kiemeneij F, Emanuelsson H, Fontanelli A, Pieper M, Wesseling T, Sagnard L Randomized evaluation of anticoagulation versus antiplatelet therapy after coronary stent implantation in high-risk patients: the multicenter aspirin and ticlopidine trial after intracoronary stenting (MATTIS). *Circulation* 1998;98:2126-32 [9815866]

**Foussas, 2000:**

Foussas S, Alexopoulos D, Stefanadis C, Olympios C, Voudris V, Hatzimiltiadis S, Sionis D, Vavouranakis E, Vrahatis A, Fakiolas C, Pissimisis E, Stefanidis A, Zairis M, Pavlides G, Vitakis S, Louridas G, Cokkinos D, Toutouzas P Antiplatelet is superior to anticoagulant treatment after coronary stenting: fewer coronary and other events within 30 days after stenting. *Angiology* 2000;51:289-94 [10778998]

**Kozuma, 2001:**

Kozuma K, Hara K, Yamasaki M, Morino Y, Ayabe S, Kuroda Y, Tanabe K, Ikari Y, Tamura T Effects of cilostazol on late lumen loss and repeat revascularization after Palmaz-Schatz coronary stent implantation. *Am Heart J* 2001;141:124-30 [11136497]

**Ochiai, 1999:**

Ochiai M, Eto K, Takeshita S, Yokoyama N, Oshima A, Kondo K, Sato T, Isshiki T Impact of cilostazol on clinical and angiographic outcome after primary stenting for acute myocardial infarction. *Am J Cardiol* 1999;84:1074-6, A6, A9 [10569666]

**Park, 1999:**

Park SW, Lee CW, Kim HS, Lee HJ, Park HK, Hong MK, Kim JJ, Park SJ Comparison of cilostazol versus ticlopidine therapy after stent implantation. *Am J Cardiol* 1999;84:511-4 [10482146]

**Yoon, 1999:**

Yoon Y, Shim WH, Lee DH, Pyun WB, Kim IJ, Jang Y, Cho SY Usefulness of cilostazol versus ticlopidine in coronary artery stenting. *Am J Cardiol* 1999;84:1375-80 [10606107]

**Kamishirado, 2002:**

Kamishirado H, Inoue T, Mizoguchi K, Uchida T, Nakata T, Sakuma M, Takayanagi K, Morooka S Randomized comparison of cilostazol versus ticlopidine hydrochloride for antiplatelet therapy after coronary stent implantation for prevention of late restenosis. *Am Heart J* 2002;144:303-8 [[12177649](#)]

**Miller, 2000:**

Miller C, Bttner HJ, Petersen J, Roskamm H A randomized comparison of clopidogrel and aspirin versus ticlopidine and aspirin after the placement of coronary-artery stents. *Circulation* 2000;101:590-3 [[10673248](#)]

**CLASSICS, 2000:**

Bertrand ME, Rupprecht HJ, Urban P, Gershlick AH Double-blind study of the safety of clopidogrel with and without a loading dose in combination with aspirin compared with ticlopidine in combination with aspirin after coronary stenting : the clopidogrel aspirin stent international cooperative study (CLASSICS). *Circulation* 2000;102:624-9 [[10931801](#)]

**TOPPS, 2001:**

Taniuchi M, Kurz HI, Lasala JM Randomized comparison of ticlopidine and clopidogrel after intracoronary stent implantation in a broad patient population. *Circulation* 2001;104:539-43 [[11479250](#)]

**Piamsomboon, 2001:**

Piamsomboon C, Laothavorn P, Chatlaong B, Saguanwong S, Nasawadi C, Tanprasert P, Leelaprute M, Intayakorn U, Amornsak N Effectiveness of clopidogrel and aspirin versus ticlopidine and aspirin after coronary stent implantation: 1 and 6-month follow-up. *J Med Assoc Thai* 2001;84:1701-7 [[11999816](#)]

## 14 coronary artery disease

Trial	Treatments	Patients	Trials design and methods
<b>aspirin vs placebo</b>			
<a href="#">CDPA , 1976</a> n=758/771 follow-up: 1.83 y	Aspirin (324 mg) 3x/d versus Placebo	MI survivors	Parallel groups Double blind USA
<a href="#">Cardiff I , 1974</a> n=615/624 follow-up: 2 years	Aspirin (300 mg) 1x/d versus Placebo	MI survivors	Parallel groups Double blind UK
<a href="#">Cardiff II , 1979</a> n=832/850 follow-up: 1 y	Aspirin (300 mg) 3x/d for one year versus Placebo	patients with myocardial infarction	Parallel groups Double blind South Wales
<a href="#">Vogel , 1979</a> n=672/668 follow-up: 1.75 y (mean)	Aspirin (1.5 g daily) on an average period of 22 months versus Placebo	-	Parallel groups Double blind Germany

continued...

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>AMIS , 1980</b> [NCT00000491] n=2267/2257 follow-up: >3 y	Aspirin (500 mg) 2x/d for at least 3 years versus Placebo	men and women who had had a documented myocardial infarction	Parallel groups Double blind USA
<b>GAMIS , 1980</b> n=317/309 follow-up: 2 y	Aspirin (500 mg) 3x/d for 2 years versus Placebo	patients who had survived a myocardial infarction for 30-42 days	Parallel groups Double blind Germany, Austria,
<b>PARIS , 1980</b> n=810/406 follow-up: 41 mo	Aspirin (324 mg) 3x/d versus Placebo	patients who had recovered from myocardial infarction	Parallel groups Double blind USA, UK
<b>JAMIS , 1999</b> n=250/230 follow-up: 1.3 y (mean)	Aspirin (81 mg) 1x/d versus No antiplatelets	patients with AMI within 1 month from the onset of symptoms	Parallel groups Open Japan
<b>SAPAT , 1992</b> n=1009/1026 follow-up: 50 months	aspirin 75 mg daily versus placebo	patients with stable chronic angina pectoris	Parallel groups double blind Sweden
<b>dipyridamol + aspirin vs placebo</b>			
<b>PARIS , 1980</b> n=810/406 follow-up: 41 months (mean)	Aspirin (324 mg) + dipyridamole (75 mg) 3x/d versus Placebo	patients who had recovered from myocardial infarction	Parallel groups Double blind USA and UK
<b>PARIS-II , 1986</b> n=1563/1565 follow-up: 23.4 months	Aspirin (330 mg) + dipyridamole (75 mg) 3x/d versus Placebo	patients who had recovered from myocardial infarction, suffered from 4 weeks to 4 months previously	Parallel groups Double blind USA and UK
<b>dipyridamol + aspirin vs aspirin</b>			
<b>PARIS , 1980</b> n=810/810 follow-up: 41 months	Aspirin (324 mg) + dipyridamole (75 mg) 3x/d versus Aspirin (324 mg) 3x/d	patients who had recovered from myocardial infarction	Parallel groups Double blind USA and GB

More details and results :

- death and events prevention for coronary artery disease in all type of patients at <http://www.trialresultscenter.org/go-Q450>

## References

### **CDPA, 1976:**

, Aspirin in coronary heart disease. The Coronary Drug Project Research Group. *J Chronic Dis* 1976; 29:625-42 [789390]

### **Cardiff I, 1974:**

Elwood P, Trial of acetylsalicylic acid in the secondary prevention of mortality from myocardial infarction. *Br Med J (Clin Res Ed)* 1981; 282:481 [6780093]

### **Cardiff II, 1979:**

Elwood PC, Sweetnam PM, Aspirin and secondary mortality after myocardial infarction. *Lancet* 1979; 2:1313-5 [92668]

### **Vogel, 1979:**

*Folia Haematol* 1979; 106:797-803 [0]

### **AMIS, 1980:**

, The aspirin myocardial infarction study: final results. The Aspirin Myocardial Infarction Study research group. *Circulation* 1980; 62:V79-84 [7438383]

, A randomized, controlled trial of aspirin in persons recovered from myocardial infarction. *JAMA* 1980; 243:661-9 [6985998]

### **GAMIS, 1980:**

Breidin K, Loew D, Lechner K, Oberla K, Walter E, The German-Austrian aspirin trial: a comparison of acetylsalicylic acid, placebo and phenprocoumon in secondary prevention of myocardial infarction. On behalf of the German-Austrian Study Group. *Circulation* 1980; 62:V63-72 [6777073]

### **PARIS, 1980:**

, Persantine and aspirin in coronary heart disease. The Persantine-Aspirin Reinfarction Study Research Group. *Circulation* 1980; 62:449-61 [7398002]

### **JAMIS, 1999:**

Yasue H, Ogawa H, Tanaka H, Miyazaki S, Hattori R, Saito M, Ishikawa K, Masuda Y, Yamaguchi T, Motomiya T, Tamura Y, Effects of aspirin and trapidil on cardiovascular events after acute myocardial infarction. Japanese Antiplatelets Myocardial Infarction Study (JAMIS) Investigators. *Am J Cardiol* 1999; 83:1308-13 [10235086]

### **SAPAT, 1992:**

Juul-Mller S, Edvardsson N, Jahnmatz B, Rosn A, Srensen S, Omblus R Double-blind trial of aspirin in primary prevention of myocardial infarction in patients with stable chronic angina pectoris. The Swedish Angina Pectoris Aspirin Trial (SAPAT) Group. *Lancet* 1992;340:1421-5 [1360557]

### **PARIS, 1980:**

, Persantine and aspirin in coronary heart disease. The Persantine-Aspirin Reinfarction Study Research Group. *Circulation* 1980; 62:449-61 [7398002]

, Persantine and aspirin in coronary heart disease. The Persantine-Aspirin Reinfarction Study Research Group. *Circulation* 1980; 62:449-61 [7398002]

### **PARIS-II, 1986:**

Klimt CR, Knatterud GL, Stamler J, Meier P, Persantine-Aspirin Reinfarction Study. Part II. Secondary coronary prevention with persantine and aspirin. *J Am Coll Cardiol* 1986; 7:251-69 [2868029]

### **PARIS, 1980:**

, Persantine and aspirin in coronary heart disease. The Persantine-Aspirin Reinfarction Study Research Group. *Circulation* 1980; 62:449-61 [7398002]

## 15 CABG surgery

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>clopidogrel+aspirin vs aspirin</b>			
<b>CASCADE , 2009</b> [NCT00228423] n=56/57 follow-up: 1 y	aspirin 162 mg plus clopidogrel 75 mg daily for 1 year versus aspirin 162 mg plus placebo daily	patients after CABG involving at least two saphenous vein grafts	Parallel groups double blind
<b>aspirin + dipyridamol vs control</b>			
<b>Pantely , 1979</b> n=18/30 follow-up: 6m	aspirin 325 mg three times a day + dipyridamole 75 mg three times a day versus control	patients undergoing aortocoronary saphenous-vein bypass-graft surgery	open
<b>Brussels , 1987</b> n=24/25 follow-up: 12m	-	-	
<b>Czech , 1986</b> n=47/46 follow-up: 12m	aspirin 1000 + dipyridamol 225 versus control (no medication)	Patients with aortocoronary bypasses with intraoperative blood flow rates of 40 ml/min or less	open
<b>Des Moines , 1980</b> n=60/54 follow-up: 12m	-	-	
<b>aspirin vs placebo</b>			
<b>McEnany , 1982</b> n=71/77 follow-up: 22m	aspirin 1200 versus placebo	patients undergoing coronary bypass grafting	double blind
<b>Lorenz , 1984</b> n=29/31 follow-up: 4m	aspirin 100 mg/d versus placebo	patients undergoing CABG	double blind
<b>GESIC (aspirin) , 1990</b> n=373/371 follow-up: 28d	aspirin 150 mg daily versus placebo	patients undergoing CABG	Parallel groups double blind
<b>Sydney , 1991</b> n=127/110 follow-up: 12m	aspirin 324 mg daily versus placebo	patients undergoing CABG	double blind
<b>Hockings , 1993</b> n=72/72 follow-up: 6m	aspirin 100 versus placebo	patients undergoing CABG	double blind
<b>aspirin + dipyridamol vs placebo</b>			

continued...

Trial	Treatments	Patients	Trials design and methods
<b>GESIC</b> (aspirin+dipyridamol) , 1990 n=368/371 follow-up: 28d	aspirin 50 mg + dipyridamole 75mg 3 times daily versus placebo	patients undergoing CABG	Parallel groups double blind Spain
<b>Brooks , 1985</b> n=160/160 follow-up: 12m	aspirin 990 mg and dipyridamole 225 mg daily versus placebo	patients undergoing coronary bypass grafting	double blind
<b>Mayo-A , 1984</b> n=202/205 follow-up: 12m	aspirin 975 + dipiridamol 225 versus placebo	patients undergoing coronary bypass grafting	double blind
<b>Wadsworth , 1985</b> n=96/102 follow-up: 12m	aspirin 975 mg/d + dipiridamol 225 mg/d, aspirin 975 mg/d versus placebo	coronary bypass patients	double blind
<b>Basel , 1989</b> n=62/63 follow-up: 9m	aspirin 50 + dipiridamol 400 versus placebo	patients who had aortocoronary vein bypass surgery	double blind
<b>Leeds-B , 1985</b> n=61/64 follow-up: 6m	aspirin 990 + dipiridamol 225 (W) versus placebo	patients undergoing aorta-coronary bypass grafting for disabling angina	double blind
<b>Thaulow , 1987</b> n=34/35 follow-up: 3m	aspirin 975 + dipiridamol 225 versus placebo	Patients scheduled to receive at least three aortocoronary venous bypass grafts	double blind

More details and results :

- antiplatelets drug for CABG surgery in all type of patients at <http://www.trialresultscenter.org/go-Q225>

## References

### CASCADE, 2009:

Kulik A, Le May M, Wells GA, Mesana TG, Ruel M The clopidogrel after surgery for coronary artery disease (CASCADE) randomized controlled trial: clopidogrel and aspirin versus aspirin alone after coronary bypass surgery [NCT00228423]. *Curr Control Trials Cardiovasc Med* 2005 Oct 11;6:15 [16219100]

Kulik A, Le May MR, Voisine P, Tardif JC, Delarochelliere R, Naidoo S, Wells GA, Mesana TG, Ruel M Aspirin plus clopidogrel versus aspirin alone after coronary artery bypass grafting: the clopidogrel after surgery for coronary artery disease (CASCADE) Trial. *Circulation* 2010 Dec 21;122:2680-7 [21135365] [10.1161/CIRCULATIONAHA.110.978007](https://doi.org/10.1161/CIRCULATIONAHA.110.978007)

### Pantely, 1979:

Pantely GA, Goodnight SH Jr, Rahimtoola SH, Harlan BJ, DeMots H, Calvin L, Rsch J Failure of antiplatelet and anticoagulant therapy to improve patency of grafts after coronary-artery bypass: a controlled, randomized study. *N Engl J Med* 1979;301:962-6 [386118]

**Brussels, 1987:**

Lavenne-Pardonge E, Col-de Beys C, Dion R, Ponlot R, Moriau M.A Effect of antiaggregant on occlusion of saphenous graft coronary bypass *Thromb Haemost* 1987;58:547 (Abstract 2024)

**Czech, 1986:**

Pirk J, Vojcek J, Kovc J, Fabin J, Firt P Improved patency of the aortocoronary bypass by antithrombotic drugs. *Ann Thorac Surg* 1986;42:312-4 [3489445]

**Des Moines, 1980:**

Klotz L Antiplatelet and anticoagulant therapy after coronary bypass. *N Engl J Med* 1980;302:866 [6965764]

**McEnany, 1982:**

McEnany MT, Salzman EW, Mundth ED, DeSanctis RW, Harthorne JW, Weintraub RM, Gates S, Austen WG The effect of antithrombotic therapy on patency rates of saphenous vein coronary artery bypass grafts. *J Thorac Cardiovasc Surg* 1982;83:81-9 [7033673]

**Lorenz, 1984:**

Meister W, von Schacky C, Weber M, Lorenz R, Kotzur J, Reichart B, Theisen K, Weber PC Low-dose acetylsalicylic acid (100 mg/day) after aortocoronary bypass surgery: a placebo-controlled trial. *Br J Clin Pharmacol* 1984;17:703-11 [6378232]

**GESIC (aspirin), 1990:**

Sanz G, Pajarn A, Alegria E, Coello I, Cardona M, Fournier JA, Gmez-Recio M, Ruano J, Hidalgo R, Medina A Prevention of early aortocoronary bypass occlusion by low-dose aspirin and dipyridamole. Grupo Espaol para el Seguimiento del Injerto Coronario (GESIC) *Circulation* 1990;82:765-73 [2203555]

**Sydney, 1991:**

Gavaghan TP, Gebiski V, Baron DW Immediate postoperative aspirin improves vein graft patency early and late after coronary artery bypass graft surgery. A placebo-controlled, randomized study. *Circulation* 1991;83:1526-33 [2022014]

**Hockings, 1993:**

Hockings BE, Ireland MA, Gotch-Martin KF, Taylor RR Placebo-controlled trial of enteric coated aspirin in coronary bypass graft patients. Effect on graft patency. *Med J Aust* 1993;159:376-8 [8377686]

**GESIC (aspirin+dipyridamol), 1990:**

Sanz G, Pajarn A, Alegria E, Coello I, Cardona M, Fournier JA, Gmez-Recio M, Ruano J, Hidalgo R, Medina A *Circulation* 1990;82:765-73 [2203555]

**Brooks, 1985:**

Brooks N, Wright J, Sturridge M, Pepper J, Magee P, Walesby R, Layton C, Honey M, Balcon R Randomised placebo controlled trial of aspirin and dipyridamole in the prevention of coronary vein graft occlusion. *Br Heart J* 1985;53:201-7 [3881108]

**Mayo-A, 1984:**

Chesebro JH, Fuster V, Elveback LR, Clements IP, Smith HC, Holmes DR Jr, Bardsley WT, Pluth JR, Wallace RB, Puga FJ Effect of dipyridamole and aspirin on late vein-graft patency after coronary bypass operations. *N Engl J Med* 1984;310:209-14 [6361561]

**Wadsworth, 1985:**

Brown BG, Cukingnan RA, DeRouen T, Goede LV, Wong M, Fee HJ, Roth JA, Carey JS Improved graft patency in patients treated with platelet-inhibiting therapy after coronary bypass surgery. *Circulation* 1985;72:138-46 [3874009]

**Basel, 1989:**



Pfisterer M, Burkart F, Jockers G, Meyer B, Regenass S, Burckhardt D, Schmitt HE, Mller-Brand J, Skarvan K, Stulz P Trial of low-dose aspirin plus dipyridamole versus anticoagulants for prevention of aortocoronary vein graft occlusion. *Lancet* 1989;2:1-7 [2567792]

**Leeds-B, 1985:**

Rajah SM, Salter MC, Donaldson DR, Subba Rao R, Boyle RM, Partridge JB, Watson DA Acetylsalicylic acid and dipyridamole improve the early patency of aorta-coronary bypass grafts. A double-blind, placebo-controlled, randomized trial. *J Thorac Cardiovasc Surg* 1985;90:373-7 [3897722]

**Thaulow, 1987:**

Thaulow E, Frysaker T, Dale J, Vatne K Failure of combined acetylsalicylic acid and dipyridamole to prevent occlusion of aortocoronary venous bypass graft. *Scand J Thorac Cardiovasc Surg* 1987;21:215-20 [3501902]

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