

Clinical trials of calcium channel blockers for acute myocardial infarction in long term studies

TrialResults-center www.trialresultscenter.org

1 acute and long term calcium blockers

Trial	Treatments	Patients	Trials design and methods
nifedipine vs placebo			
SPRINT II , 1993 n=682/676 follow-up: 6 months	Nifedipine 20mgx3 started within 3hr of hospital admission for 6 months versus placebo	men and women with suspected acute MI	Parallel groups Double blind Israel
SPRINT I , 1988 n=1130/1146 follow-up: 1 year	Nifedipine 10mgx3 versus placebo	patient surviving MI 7 and 21 days after admission	Parallel groups Double blind Israel
verapamil vs placebo			
DAVIT I , 1984 n=1751/1747 follow-up: 6 months	verapamil 120mgx3 versus placebo	-	Parallel groups Double blind Danish
CRIS , 1996 n=531/542 follow-up: 23.5 months	verapamil retard 360 mg daily versus placebo	patients admitted for acute myocardial infarction	Parallel groups Double blind Italy
DAVIT II , 1990 n=878/897 follow-up: 16 months	verapamil 120mgx3 for 18 months versus placebo	patients <76years with diagnosis of acute MI	Parallel groups Double blind Danish
Danish study , 1984 n=1729/1718 follow-up: 12 months	verapamil 0.1mg/kg IV plus 3x120mg orally versus placebo	patients under 75 years of age admitted to the CCU with a suspicion of acute myocardial infarction	Parallel groups double blind Danish

References

SPRINT II, 1993:

Goldbourt U, Behar S, Reicher-Reiss H, Zion M, Mandelzweig L, Kaplinsky E Early administration of nifedipine in suspected acute myocardial infarction. The Secondary Prevention Reinfarction Israel Nifedipine Trial 2 Study Arch Intern Med 1993;153:345-53 [[8285927](#)]

SPRINT I, 1988:

Secondary prevention reinfarction Israeli nifedipine trial (SPRINT). A randomized intervention trial of nifedipine in patients with acute myocardial infarction. The Israeli Sprint Study Group Eur Heart J 1988;9:354-64 [[2898363](#)]

Disegni E, Goldbourt U, Reicher-Reiss H, Kaplinsky E, Zion M, Boyko V, Behar S The predictive value of admission heart rate on mortality in patients with acute myocardial infarction. SPRINT Study Group. Secondary Prevention Reinfarction Israeli Nifedipine Trial J Clin Epidemiol 1995;48:1197-205 [7561981]

DAVIT I, 1984:

Verapamil in acute myocardial infarction. The Danish Study Group on Verapamil in Myocardial Infarction Eur Heart J 1984;5:516-28 [6383832]

Hansen JF Treatment with verapamil after an acute myocardial infarction. Review of the Danish studies on verapamil in myocardial infarction (DAVIT I and II) Drugs 1991;42 Suppl 2:43-53 [1718701]

CRIS, 1996:

Rengo F, Carbonin P, Pahor M, DeCaprio L, Bernabei R, Ferrara N, Carosella L, Acanfora D, Parlati S, Vitale D A controlled trial of verapamil in patients after acute myocardial infarction: results of the calcium antagonist reinfarction Italian study (CRIS) Am J Cardiol 1996;77:365-9 [8602564]

Ferrara N Giorn geront 1996;44:577-583

DAVIT II, 1990:

Effect of verapamil on mortality and major events after acute myocardial infarction (the Danish Verapamil Infarction Trial II–DAVIT II) Am J Cardiol 1990;66:779-85 [2220572]

Vaage-Nilsen M, Rasmussen V Effect of verapamil on heart rate variability after an acute myocardial infarction. Danish Verapamil Infarction Trial II Cardiovasc Drugs Ther 1998;12:285-90 [9784908]

Vaage-Nilsen M, Rasmussen V, Hansen JF, Hagerup L, Sorensen MB, Pedersen-Bjergaard O, Mellempgaard K, Hollander NH, Nielsen I, Sigurd BM Effect of verapamil on arrhythmias and heart rate during 16 months following an acute myocardial infarction. The Danish Study Group on Verapamil in Myocardial Infarction Cardiovasc Drugs Ther 1994;8:147-51 [8086325]

Danish study, 1984:

Verapamil in acute myocardial infarction. The Danish Study Group on Verapamil in Myocardial Infarction. Eur Heart J 1984;5:516-28 [6383832]

2 long term calcium blockers

Trial	Treatments	Patients	Trials design and methods
nifedipine vs			
MI study group , 1979 n=904/888	-	-	Parallel groups open
diltiazem vs placebo			
MDPIT , 1988 n=1234/1232 follow-up: 25 months (at least 12 months)	Diltiazem 60mgx4 versus placebo	Patient aged 25 to 75 years, admitted to coronary care units with a documented acute myocardial infarction	Parallel groups Double blind US, Canada
nifedipine vs placebo			
SPRINT II , 1993 n=682/676 follow-up: 6 months	Nifedipine 20mgx3 started within 3hr of hopsital admission for 6 months versus placebo	men and women with suspected acute MI	Parallel groups Double blind Israel
SPRINT I , 1988 n=1130/1146 follow-up: 1 year	Nifedipine 10mgx3 versus placebo	patient surviving MI 7 and 21 days after admission	Parallel groups Double blind Israel
verapamil vs placebo			

continued...

Trial	Treatments	Patients	Trials design and methods
DAVIT I , 1984 n=1751/1747 follow-up: 6 months	verapamil 120mgx3 versus placebo	-	Parallel groups Double blind Danish
CRIS , 1996 n=531/542 follow-up: 23.5 months	verapamil retard 360 mg daily versus placebo	patients admitted for acute myocardial infarction	Parallel groups Double blind Italy
DAVIT II , 1990 n=878/897 follow-up: 16 months	verapamil 120mgx3 for 18 months versus placebo	patients <76years with diagnosis of acute MI	Parallel groups Double blind Danish
Danish study , 1984 n=1729/1718 follow-up: 12 months	verapamil 0.1mg/kg IV plus 3x120mg orally versus placebo	patients under 75 years of age admitted to the CCU with a suspicion of acute myocardial infarction	Parallel groups double blind Danish

References

MI study group, 1979:

Acta cardiol 1979;34(suppl24):7-46

MDPIT, 1988:

The effect of diltiazem on mortality and reinfarction after myocardial infarction. The Multicenter Diltiazem Postinfarction Trial Research Group N Engl J Med 1988;319:385-92 [2899840]

Bigger JT Jr, Coromilas J, Rolnitzky LM, Fleiss JL, Kleiger RE Effect of diltiazem on cardiac rate and rhythm after myocardial infarction. Multicenter Diltiazem Postinfarction Trial Investigators Am J Cardiol 1990;65:539-46 [2178379]

Moss AJ, Oakes D, Rubison M, McDermott M, Carleen E, Eberly S, Brown M Effects of diltiazem on long-term outcome after acute myocardial infarction in patients with and without a history of systemic hypertension. The Multicenter Diltiazem Postinfarction Trial Research Group Am J Cardiol 1991;68:429-33 [1872266]

Gibson RS, Hansen JF, Messerli F, Schechtman KB, Boden WE Long-term effects of diltiazem and verapamil on mortality and cardiac events in non-Q-wave acute myocardial infarction without pulmonary congestion: post hoc subset analysis of the multicenter diltiazem postinfarction trial and the second danish verapamil infarction trial studies Am J Cardiol 2000;86:275-9 [10922432]

SPRINT II, 1993:

Goldbourt U, Behar S, Reicher-Reiss H, Zion M, Mandelzweig L, Kaplinsky E Early administration of nifedipine in suspected acute myocardial infarction. The Secondary Prevention Reinfarction Israel Nifedipine Trial 2 Study Arch Intern Med 1993;153:345-53 [8285927]

SPRINT I, 1988:

Secondary prevention reinfarction Israeli nifedipine trial (SPRINT). A randomized intervention trial of nifedipine in patients with acute myocardial infarction. The Israeli Sprint Study Group Eur Heart J 1988;9:354-64 [2898363]

Disegni E, Goldbourt U, Reicher-Reiss H, Kaplinsky E, Zion M, Boyko V, Behar S The predictive value of admission heart rate on mortality in patients with acute myocardial infarction. SPRINT Study Group. Secondary Prevention Reinfarction Israeli Nifedipine Trial J Clin Epidemiol 1995;48:1197-205 [7561981]

DAVIT I, 1984:

Verapamil in acute myocardial infarction. The Danish Study Group on Verapamil in Myocardial Infarction Eur Heart J 1984;5:516-28 [6383832]

Hansen JF Treatment with verapamil after an acute myocardial infarction. Review of the Danish studies on verapamil in myocardial infarction (DAVIT I and II) Drugs 1991;42 Suppl 2:43-53 [1718701]

CRIS, 1996:

Rengo F, Carbonin P, Pahor M, DeCaprio L, Bernabei R, Ferrara N, Carosella L, Acanfora D, Parlati S, Vitale D A controlled trial of verapamil in patients after acute myocardial infarction: results of the calcium antagonist reinfarction Italian study (CRIS) *Am J Cardiol* 1996;77:365-9 [[8602564](#)]

Ferrara N *Giorn geront* 1996;44:577-583

DAVIT II, 1990:

Effect of verapamil on mortality and major events after acute myocardial infarction (the Danish Verapamil Infarction Trial II–DAVIT II) *Am J Cardiol* 1990;66:779-85 [[2220572](#)]

Vaage-Nilsen M, Rasmussen V Effect of verapamil on heart rate variability after an acute myocardial infarction. *Danish Verapamil Infarction Trial II Cardiovasc Drugs Ther* 1998;12:285-90 [[9784908](#)]

Vaage-Nilsen M, Rasmussen V, Hansen JF, Hagerup L, Sorensen MB, Pedersen-Bjergaard O, Mellemegaard K, Hollander NH, Nielsen I, Sigurd BM Effect of verapamil on arrhythmias and heart rate during 16 months following an acute myocardial infarction. *The Danish Study Group on Verapamil in Myocardial Infarction Cardiovasc Drugs Ther* 1994;8:147-51 [[8086325](#)]

Danish study, 1984:

Verapamil in acute myocardial infarction. *The Danish Study Group on Verapamil in Myocardial Infarction. Eur Heart J* 1984;5:516-28 [[6383832](#)]

3 About TrialResults-center.org

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

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

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

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

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