

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

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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 |
| 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 |
| 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 |
| 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]

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]

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

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2 long term calcium blockers

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| 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 |
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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]

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

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

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