

Clinical trials of nifedipine

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1 acute myocardial infarction

Trial	Treatments	Patients	Trials design and methods
nifedipine vs			
Muller , 1984 n=93/88 follow-up: 14 days	-	-	Parallel groups double blind
Gordon , 1984 n=13/13 follow-up: 1 day	-	-	Parallel groups single blind
MI study group , 1979 n=904/888	-	-	Parallel groups open
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
Sirnes , 1984 n=112/115 follow-up: 42 days	Nifedipine 5x10mg versus placebo	patients with suspected acute myocardial infarction	Parallel groups double blind
Gottlieb , 1988 n=64/68 follow-up: 42 days	Nifedipine 10 to 30mgx4 versus placebo	-	Parallel groups double blind
Eisenberg , 1985 n=25/25 follow-up: 12 days	Nifedipine 20mgx4 versus placebo	patients with nontransmural myocardial infarction	Parallel groups double blind
Bradagan , 1986 n=60/61 follow-up: 2 days	Nifedipine 10mgx4 versus placebo	patients with suspected acute myocardial infarction within 6hrs	Parallel groups double blind
Loogna , 1985 n=23/34 follow-up:	Nifedipine 4x10mg versus placebo	patients with acute myocardial infarction within 6 h from onset of symptoms	Parallel groups double blind

continued...

Trial	Treatments	Patients	Trials design and methods
TRENT (Wilcox) , 1986 n=2240/2251 follow-up: 28 days	Nifedipine 4x10mg versus placebo	patients with suspected myocardial infarction	Parallel groups double blind
Walker , 1988 n=217/217 follow-up:	Nifedipine 6x10mg for 48hrs versus placebo	patients with suspected myocardial infarction within six hours from the onset of chest pain	Parallel groups double blind
Jaffe , 1987 n=13/9 follow-up: 7 days	Nifedipine 6x20mg versus placebo	patients with acute myocardial infarction	Parallel groups single blind
Erbel , 1988 n=74/75 follow-up: hospital stay	Nifedipine 20mgx3 versus placebo	patients with acute myocardial infarction	Parallel groups double blind
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

More details and results :

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- calcium channel blockers for acute myocardial infarction in acute short term and post MI studies at <http://www.trialresultscenter.org/go-Q141>
- calcium channel blockers for acute myocardial infarction in acute (short term) treatment at <http://www.trialresultscenter.org/go-Q142>
- calcium channel blockers for acute myocardial infarction in long term studies at <http://www.trialresultscenter.org/go-Q143>

References

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Muller JE, Morrison J, Stone PH, Rude RE, Rosner B, Roberts R, Pearle DL, Turi ZG, Schneider JF, Serfas DH Nifedipine therapy for patients with threatened and acute myocardial infarction: a randomized, double-blind, placebo-controlled comparison Circulation 1984;69:740-7 [6365350]

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MI study group, 1979:

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

SPRINT II, 1993:

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Sirnes, 1984:

Sirnes PA, Overskeid K, Pedersen TR, Bathen J, Drivenes A, Frland GS, Kjekshus JK, Landmark K, Rokseth R, Sirnes KE Evolution of infarct size during the early use of nifedipine in patients with acute myocardial infarction: the Norwegian Nifedipine Multicenter Trial. *Circulation* 1984;70:638-44 [6383655]

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2 post myocardial infarction

Trial	Treatments	Patients	Trials design and methods
nifedipine vs			
MI study group , 1979 n=904/888	-	-	Parallel groups open
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

More details and results :

- calcium channel blockers for post myocardial infarction in all type of patients at <http://www.trialresultscenter.org/go-Q252>

References

MI study group, 1979:

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

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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3 hypertension

Trial	Treatments	Patients	Trials design and methods
nifedipine vs atenolol+chlorthalidone			

continued...

Trial	Treatments	Patients	Trials design and methods
Castel , 1994 n=146/205 follow-up:	Nifedipine 20mg/d versus Clonidine 0.15mg/d (n=61) or atenolol 100mg/d + chlorthalidone 25mg/d	-	
nifedipine vs coamilozide			
INSIGHT (diabetic subgroup) , 2000 n=649/653 follow-up: 4 y	Nifedipine GITS 30 mg daily versus co-amilozide hydrochlorothiazide 25 mg plus amiloride 2.5 mg	diabetic (subgroup) patients aged 55-80 years with hypertension (blood pressure >= 150/95 mm Hg, or >= 160 mmHg systolic)	Parallel groups double-blind Europe, Israel
nifedipine vs hydrochlorothiazide+amiloride			
INSIGHT , 2000 n=3157/3164 follow-up: at least 3 years	nifedipine GITS 30mg/d versus hydrochlorothiazide 25mg/d + amiloride 2.5mg/d	HBP + RF	Parallel groups Double blind

More details and results :

- anti hypertensive agents for hypertension in elderly (60 years and more) at <http://www.trialresultscenter.org/go-Q9>
- anti hypertensive agents for hypertension in diabetic patients at <http://www.trialresultscenter.org/go-Q10>
- anti hypertensive agents for hypertension in all type of patient at <http://www.trialresultscenter.org/go-Q13>
- anti hypertensive agents for hypertension in patients with additional risk factor at <http://www.trialresultscenter.org/go-Q686>

References

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4 acute coronary syndrome

Trial	Treatments	Patients	Trials design and methods
nifedipine vs metoprolol			
HINT (nifedipine vs metoprolol) , 1988 n=NA follow-up: ND	nifedipine versus metoprolol	patients with unstable angina not pretreated with a beta-blocker and of nifedipine	Parallel groups ND

More details and results :

- calcium channel blockers for acute coronary syndrome in all type of patients at <http://www.trialresultscenter.org/go-Q222>

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HINT (nifedipine vs metoprolol), 1988:

Tijssen JG, Lubsen J Early treatment of unstable angina with nifedipine and metoprolol—the HINT trial. J Cardiovasc Pharmacol 1988;12 Suppl 1:S71-7 [2468838]

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5 diabetes type 2

Trial	Treatments	Patients	Trials design and methods
nifedipine vs placebo			
ACTION , 1998 n=565/545 follow-up: 4.9y	Nifedipine GITS versus placebo	patients aged at least 35 years with stable angina pectoris and proven coronary artery disease; subgroup of diabetic patients	Parallel groups double-blind 19 countries
nifedipine vs ACE inhibitor			
JMIC-B (diabetic subgroup) , 2004 n=199/173 follow-up: 3 years	nifedipine retard versus angiotensin converting enzyme inhibitors	outpatients aged under 75 years who had diagnoses of both hypertension and coronary artery disease	Parallel groups open Japan
nifedipine vs coamilofide			
INSIGHT (diabetic subgroup) , 2000 n=649/653 follow-up: 4 y	Nifedipine GITS 30 mg daily versus co-amilozide hydrochlorothiazide 25 mg plus amiloride 2.5 mg	diabetic (subgroup) patients aged 55-80 years with hypertension (blood pressure $\geq 150/95$ mm Hg, or ≥ 160 mmHg systolic)	Parallel groups double-blind Europe, Israel

More details and results :

- anti hypertensive agents for diabetes type 2 in patients with hypertension at <http://www.trialresultscenter.org/go-Q83>
- anti hypertensive agents for diabetes type 2 in patients with or without hypertension at <http://www.trialresultscenter.org/go-Q414>

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6 percutaneous coronary intervention

Trial	Treatments	Patients	Trials design and methods
nifedipine vs placebo			
Whitworth, 1986 n=100/98 follow-up: 6 months	nifedipine (10 mg qid) versus placebo	-	double blind

More details and results :

- restenosis prevention for percutaneous coronary intervention in all type of patients at <http://www.trialresultscenter.org/go-Q318>

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Whitworth HB, Roubin GS, Hollman J, Meier B, Leimgruber PP, Douglas JS Jr, King SB 3rd, Gruentzig AR Effect of nifedipine on recurrent stenosis after percutaneous transluminal coronary angioplasty. J Am Coll Cardiol 1986;8:1271-6 [2946740]

Entry terms: acebutolol, Sectral, Monitan, Rhotral, Neptal, atenolol, metoprolol, Metoprolol, Beloc-Duriles, Beloc Duriles, BelocDuriles, Betalok, Spesicor, Spesikor, H 93-26, H 93 26, H 9326, Lopressor, Metoprolol Tartrate, Seloken, Betaloc, Betaloc-Astra, Betaloc Astra, BetalocAstra, CGP-2175, CGP 2175, CGP2175, , Nifedipine, Adalat, Bay-1040, Bay 1040, Bay1040, BAY-a-1040, BAY a 1040, BAYa1040, Procardia XL, Nifedipine-GTIS, Nifedipine GTIS, Corinfar, Korinfar, Fenigidin, Nifangin, Nifedipine Monohydrochloride, Procardia, Vascard, Cordipin, Cordipine, , propranolol, nisoldipine, Bay K 5552,