

# Clinical trials of nitrates for acute myocardial infarction in all type of patients

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## 1 intravenous nitrates

Trial	Treatments	Patients	Trials design and methods
<b>nitroglycerin vs control</b>			
Jugdutt , 1988 n=154/156 follow-up: 12 mo	intravenous nitroglycerin versus control	acute myocardial infarction	Parallel groups open
Bussman , 1981 n=31/29 follow-up: 18 months	i.v. nitroglycerin for 48 hours versus no i.v. nitroglycerin	patients with acute myocardial infarction within 24 hours	Parallel groups open Germany
Chiche , 1979 <i>unpublished</i> n=50/45 follow-up: in hospital (28d)	Nitroglycerin IV for 7 days versus placebo	patients with suspected myocardial infarction, within 12 h of the onset	Parallel groups single blind France
GISSI-3 , 1994 n=9663/9655 follow-up: 6 week	nitrates intravenous for the first 24 h followed by transdermal transdermal glyceryl trinitrate nitrates 10 mg daily versus control	patients with acute myocardial infarction	Parallel groups open
Jugdutt , 1983 <i>unpublished</i> n=154/156 follow-up: 3 months	Intravenous nitroglycerin versus control	patients with acute myocardial infarction	Parallel groups open
Nelson , 1983 n=14/14 follow-up: in hospital	intravenous isosorbide dinitrate (50-200 micrograms/kg/h) versus frusemide (1 mg/kg)	men with radiographic and haemodynamic evidence of left ventricular failure following acute myocardial infarction	Parallel groups single blind
<b>nitroprusside vs control</b>			
Hockings , 1981 n=25/25 follow-up: 12 months	nitroprusside versus furosemide	patients with a mean pulmonary capillary wedge pressure of more than 20 mm Hg within 24 hours of acute infarction	Parallel groups open
<b>nitroglycerin vs placebo</b>			
Charvat , 1990 n=62/67 follow-up: 72 hours	intravenous nitroglycerin for 48h versus placebo	patients with acute myocardial infarction and ST segment elevation on admission but no Q wave in the infarcted area within 6 hours of onset	Parallel groups double blind Kuwait
Flaherty , 1983 n=56/48 follow-up: 15 months	Nitroglycerin for 48h versus placebo	patients with acute myocardial infarction	Parallel groups single blind US

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<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>Jaffe , 1983</b> n=57/57 follow-up: in hospital	glyceryl trinitrate titrated versus placebo	patients with inferior infarction under conventional clinical conditions within 10 hours of the onset of symptoms	Parallel groups double blind
<b>Lis , 1984</b> n=64/76 follow-up: 4 months	48-h intravenous infusion of nitroglycer versus placebo	patients with acute myocardial infarction	Parallel groups double blind
<b>nitroprusside vs placebo</b>			
<b>Cohn , 1982</b> n=407/405 follow-up: 3 months	48-hour infusion of sodium nitroprusside versus placebo	men with presumed acute myocardial infarction and left ventricular filling pressure of at least 12 mm Hg	Parallel groups double blind US
<b>Durrer , 1982</b> n=163/165 follow-up: 1 months	sodium nitroprusside by intravenous infusion during the first 25 h and followed by oral isosorbide versus infusion of 5 per cent glucose	patients with typical acute myocardial infarction	Parallel groups single blind Netherlands

## References

### Jugdutt, 1988:

Jugdutt BI, Warnica JW Intravenous nitroglycerin therapy to limit myocardial infarct size, expansion, and complications. Effect of timing, dosage, and infarct location. Circulation 1988;78:906-19 [3139326]

### Bussman, 1981:

Bussmann WD, Passek D, Seidel W, Kaltenbach M Reduction of CK and CK-MB indexes of infarct size by intravenous nitroglycerin. Circulation 1981 Mar;63:615-22 [6780232]

### Chiche, 1979:

### GISSI-3, 1994:

### Jugdutt, 1983:

### Nelson, 1983:

### Hockings, 1981:

### Charvat, 1990:

### Flaherty, 1983:

### Jaffe, 1983:

### Lis, 1984:

### Cohn, 1982:

### Durrer, 1982:

## 2 oral nitrates

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>isosorbide dinitrate vs placebo</b>			

continued...

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>Hildebrandt , 1992</b> n=50/50 follow-up:	titrated isosorbide dinitrate (ISDN) for 48h versus placebo	patients with strong clinical and electrocardiographic suspicion of myocardial infarction within 8 hours after the onset of symptoms	Parallel groups double blind
<b>isosorbide mononitrate vs placebo</b>			
<b>Fitzgerald , 1990</b> n=184/176 follow-up: 6 mo	oral isosorbide 5-mononitrate (ISMN) for 5 days versus placebo	patients with suspected acute myocardial infarction	Parallel groups double blind England
<b>Hargreaves , 1992</b> n=33/18 follow-up: 28 days	20 mg of isosorbide mononitrate three times daily for 28 days versus placebo	patients with acute myocardial infarction (systolic blood pressure >90 mm Hg) within 24 hours of the start of pain	Parallel groups double blind
<b>ISIS-4 , 1995</b> n=29018/29032 follow-up: 5 weeks	oral controlled-release mononitrate 30 mg initial dose titrated up to 60 mg once daily for 1 month versus placebo	patients with suspected acute myocardial infarction up to 24h	Parallel groups double blind worldwide
<b>molsidomine vs placebo</b>			
<b>Beaufils , 1988</b> n=133/137 follow-up: 10 days	molsidomine for 10 days versus placebo	patients with a first myocardial infarction within 6 hours from onset of symptoms	Parallel groups double blind France
<b>ESPRIM , 1994</b> n=2007/2010 follow-up: 13 mo	linsidomine 1 mg/h intravenously for 48 h, followed by 16 mg molsidomine by mouth daily for 12 days versus placebo	patients with acute myocardial infarction within 24 h of symptom onset	Parallel groups double blind Worldwide

## References

**Hildebrandt, 1992:**

**Fitzgerald, 1990:**

**Hargreaves, 1992:**

**ISIS-4, 1995:**

**Beaufils, 1988:**

**ESPRIM, 1994:**

## 3 About TrialResults-center.org

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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.

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