

Clinical trials of PCI for acute myocardial infarction in all type of patients

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1 deferred angioplasty (>3 days) after thrombolysis

Trial	Treatments	Patients	Trials design and methods
systematic balloon angioplasty vs no systematic angioplasty			
SWIFT , 1991 n=397/403 follow-up: 1 y	CA 72h with a view to PTCA or CABG versus elective angioplasty (only if required by clinical indication)	patients presenting with clinical and electrocardiographic features of acute myocardial infarction up to three hours after the onset of major symptoms	Parallel groups Open UK
SIAM , 1992 n=158/166 follow-up: <3 years	CA with CABG/PTCA 14-48 hours versus no CA within the first 21days unless evidence of ischemia	patients treated by thrombolysis for AMI	Parallel groups Open Europe
TAMI 6 , 1992 n=34/37	PTCA 6-24h after rtPA versus no PTCA planned	-	
Barbash , 1990 n=97/104	PTCA>72h after rtPA if stenosis>70% versus PTCA>72h after rtPA if stenosis>50% and ischemia	-	
Guerci , 1987 n=42/43 follow-up: 10 days	PTCA at 4 day versus no PTCA during the 10 days study period	patients candidate to PTCA determined at the 1st day CA	Factorial plan United states
TIMI 2 , 1989 n=1636/1626 follow-up: 6 we	CA 18 to 48 hrs versus no CA unless spontaneous or exercise induced ischemia	patients treated with intravenous recombinant tissue plasminogen activator (rt-PA) within four hours of the onset of chest pain thought to be caused by myocardial infarction	Factorial plan Open United states
TIMI II-A (deferred) n=194/197 follow-up:	delayed invasive strategy, deferred angiography and PTCA for 18-48 hours versus conservative approach	-	
TOPS , 1992 n=42/45 follow-up: 12 months	PTCA to be performed 4-14 days after MI versus conservative management, no PTCA	patients with residual stenoses after thrombolytic treatment of myocardial infarction	Parallel groups
Van den Brand , 1991 n=113/104 follow-up: 3 mo	CA at 2-5 days, PTCA if suitable lesion versus CA at 2-5 days but no PTCA	suitable lesion	Parallel groups NA Europe

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Trial	Treatments	Patients	Trials design and methods
Vermeer , 1999 n=NA follow-up: 42 days	alteplase followed by transfer to the PTCA centre and (if indicated) rescue PTCA versus thrombolytic treatment with alteplase	patients with acute myocardial infarction initially admitted to a hospital without PTCA facilities	Parallel groups

References

SWIFT, 1991:

, SWIFT trial of delayed elective intervention v conservative treatment after thrombolysis with anistreplase in acute myocardial infarction. SWIFT (Should We Intervene Following Thrombolysis?) Trial Study Group. *BMJ* 1991; 302:555-60 [[2021717](#)]

SIAM, 1992:

JACC 1992 19:239A(abstract) [[0](#)]

TAMI 6, 1992:

Topol EJ, Califf RM, Vandormael M, Grines CL, George BS, Sanz ML, Wall T, O'Brien M, Schwaiger M, Aguirre FV A randomized trial of late reperfusion therapy for acute myocardial infarction. Thrombolysis and Angioplasty in Myocardial Infarction-6 Study Group. *Circulation* 1992 Jun;85:2090-9 [[1591828](#)]

Barbash, 1990:

Barbash GI, Roth A, Hod H, Modan M, Miller HI, Rath S, Zahav YH, Keren G, Motro M, Shachar A Randomized controlled trial of late in-hospital angiography and angioplasty versus conservative management after treatment with recombinant tissue-type plasminogen activator in acute myocardial infarction. *Am J Cardiol* 1990 Sep 1;66:538-45 [[2118299](#)]

Guerci, 1987:

Guerci AD, Gerstenblith G, Brinker JA, Chandra NC, Gottlieb SO, Bahr RD, Weiss JL, Shapiro EP, Flaherty JT, Bush DE, et al, A randomized trial of intravenous tissue plasminogen activator for acute myocardial infarction with subsequent randomization to elective coronary angioplasty. *N Engl J Med* 1987; 317:1613-8 [[2960897](#)] [10.1056/NEJM198712243172601](#)

TIMI 2, 1989:

, Comparison of invasive and conservative strategies after treatment with intravenous tissue plasminogen activator in acute myocardial infarction. Results of the thrombolysis in myocardial infarction (TIMI) phase II trial. The TIMI Study Group. *N Engl J Med* 1989; 320:618-27 [[2563896](#)] [10.1056/NEJM198903093201002](#)

TIMI II-A (deferred), 0:

Rogers WJ, Baim DS, Gore JM, Brown BG, Roberts R, Williams DO, Chesebro JH, Babb JD, Sheehan FH, Wackers FJ Comparison of immediate invasive, delayed invasive, and conservative strategies after tissue-type plasminogen activator. Results of the Thrombolysis in Myocardial Infarction (TIMI) Phase II-A trial. *Circulation* 1990;81:1457-76 [[2110033](#)]

TOPS, 1992:

Ellis SG, Mooney MR, George BS, da Silva EE, Talley JD, Flanagan WH, Topol EJ Randomized trial of late elective angioplasty versus conservative management for patients with residual stenoses after thrombolytic treatment of myocardial infarction. Treatment of Post-Thrombolytic Stenoses (TOPS) Study Group. *Circulation* 1992 Nov;86:1400-6 [[1423952](#)]

Van den Brand, 1991:

Eur Heart J 1991;1296 (abstract) [[0](#)]

Vermeer, 1999:

Vermeer F, Oude Ophuis AJ, vd Berg EJ, Brunninkhuis LG, Werter CJ, Boehmer AG, Lousberg AH, Dassen WR, Br FW Prospective randomised comparison between thrombolysis, rescue PTCA, and primary PTCA in patients with extensive myocardial infarction admitted to a hospital without PTCA facilities: a safety and feasibility study. *Heart* 1999;82:426-31 [[10490554](#)]

2 drug-eluting stents

Trial	Treatments	Patients	Trials design and methods
drug-eluting stents vs bare-metal stent			
DEDICATION , 2008 [NCT00192868] n=313/313 follow-up: 8 mo (15 mo, 3y)	DES currently used with or without distal protection versus BMS with or without distal protection	patients referred within 12 hours from symptom onset of an ST-elevation myocardial infarction	Factorial plan open Denmark.
PASEO , 2009 n=180/90 follow-up: 4.3 years	paclitaxel-eluting stents and sirolimus-eluting stents versus bare metal stent	patients with ST-elevation myocardial infarction within 12 hours from symptom onset	Parallel groups open
paclitaxel eluting stent vs bare-metal stent			
HAAMU-STENT , 2006 <i>unpublished</i> n=70/75 follow-up: 12 months	Taxus Express versus Bare-metal-stent	AMI - STEMI patients undergoing PCI	Parallel groups open Finland
HORIZONS-AMI Stent , 2008 n=2257/749 follow-up: 1 year	paclitaxel-eluting stents (Taxus) versus BMS (Express)	ST-elevation myocardial infarction	Factorial plan open
PASSION , 2006 [ISRCTN65027270] n=310/309 follow-up: 12 months (5y)	Taxus Express2 versus Express2 or Libert	Myocardial Infarction with ST-Segment Elevation	Parallel groups open The Netherlands
sirolimus eluting stent vs bare-metal stent			
DEBATER (SES vs BMS) , 2009 n=424/446 follow-up: 1 y	sirolimus-eluting stents versus bare-metal stents	patients undergoing PCI for STEMI withon 12 hours	Factorial plan
Daz de la Llera , 2007 n=60/54 follow-up: 1y	sirolimus-eluting stents versus uncoated stents	primary percutaneous coronary intervention for acute myocardial infarction with ST-segment elevation	Parallel groups open Spain
MISSION , 2008 [ISRCTN62825862] n=158/152 follow-up: 12 months	Cypher versus Vision	primary percutaneous coronary intervention for ST-segment elevation myocardial infarction (<9h)	Parallel groups single-blind the Netherlands
SESAMI , 2007 [NCT00288210] n=160/160 follow-up: 12 months	Cypher versus BX stent, Cordis	AMI	Parallel groups open Italy
TYPHOON , 2006 [NCT00232830] n=356/359 follow-up: 12 months	Cypher or CypherSelect versus any commerciallyavailable uncoated stent	AMI	Parallel groups open Worldwide (15 countries)
sirolimus eluting stent vs paclitaxel eluting stent			

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Trial	Treatments	Patients	Trials design and methods
Di Lorenzo et al. , 2005 <i>unpublished</i> n=90/90 follow-up:	sirolimus versus paclitaxel	ST-segment elevation myocardial infarction	Parallel groups open
Juwana , 2009 [ISRCTN90526229] n=196/201 follow-up: 9 months (12 months)	sirolimus coated Cypher stent versus paclitaxel coated Taxus stent	patients with STEMI undergoing primary PCI	Parallel groups open The Netherlands
PROSIT , 2006 n=154/154 follow-up: 1 year	SES Cordis versus PES Boston Scientific	AMI or persistent ischaemia 12-24h	Parallel groups open Korea
zotarolimus eluting stent vs paclitaxel eluting stent			
ZEST AMI (vs PES) , 2009 [NCT00422565] n=108/110 follow-up: 1 year (mean)	zotarolimus-eluting stent (Endeavor) versus paclitaxel-eluting stent (Taxus Libert)	Acute Myocardial Infarction Patients (STEMI)requiring primary angioplasty with symptom onset <= 12 hours	open Korea
zotarolimus eluting stent vs sirolimus eluting stent			
ZEST AMI (vs SES) , 2009 [NCT00422565] n=108/110 follow-up: 1 year (mean)	zotarolimus-eluting stent (Endeavor) versus sirolimus-eluting stents (Cypher)	Acute Myocardial Infarction Patients (STEMI)requiring primary angioplasty with symptom onset <= 12 hours	Parallel groups open Korea

References

DEDICATION, 2008:

Kelbaek H, Thuesen L, Helqvist S, Clemmensen P, Klvgaard L, Kaltoft A, Andersen B, Thuesen H, Engstrm T, Btker HE, Saunamki K, Krusell LR, Jrgensen E, Hansen HH, Christiansen EH, Ravkilde J, Kber L, Kofoed KF, Terkelsen CJ, Lassen JF Drug-eluting versus bare metal stents in patients with st-segment-elevation myocardial infarction: eight-month follow-up in the Drug Elution and Distal Protection in Acute Myocardial Infarction (DEDICATION) trial. *Circulation* 2008 Sep 9;118:1155-62 [[18725489](#)]

Kaltoft A, Kelbk H, Thuesen L, Lassen JF, Clemmensen P, Klvgaard L, Engstrm T, Btker HE, Saunamki K, Krusell LR, Jrgensen E, Tilsted HH, Christiansen EH, Ravkilde J, Kber L, Kofoed KF, Terkelsen CJ, Helqvist S Long-Term Outcome After Drug-Eluting Versus Bare-Metal Stent Implantation in Patients With ST-Segment Elevation Myocardial Infarction 3-Year Follow-Up of the Randomized DEDICATION (Drug Elution and Distal Protection in Acute Myocardial Infarction) Trial. *J Am Coll Cardiol* 2010 Jun 14;: [[20688033](#)] [10.1016/j.jacc.2010.05.009](#)

PASEO, 2009:

Di Lorenzo E, De Luca G, Sauro R, Varricchio A, Capasso M, Lanzillo T, Manganelli F, Mariello C, Siano F, Pagliuca MR, Stanco G, Rosato G The PASEO (PaclitAxel or Sirolimus-Eluting Stent Versus Bare Metal Stent in Primary Angioplasty) Randomized Trial. *JACC Cardiovasc Interv* 2009 Jun;2:515-23 [[19539255](#)]

Di Lorenzo E, Sauro R, Varricchio A, Carbone G, Cortese G, Capasso M, Lanzillo T, Manganelli F, Mariello C, Siano F, Pagliuca MR, Stanco G, Rosato G, De Luca G Long-Term outcome of drug-eluting stents compared with bare metal stents in ST-segment elevation myocardial infarction: results of the paclitaxel- or sirolimus-eluting stent versus bare metal stent in Primary Angioplasty (PASEO) Randomized Trial. *Circulation* 2009;120:964-72 [[19720939](#)]

HAAMU-STENT, 2006:

Tierala I, Syvaenne M, Kupari M Randomised comparison of apaclitaxel-eluting and a bare metal stent in STEMI-PCI. TheHAAMU-STENT-study Annual Scientific Meeting of theTranscatheter Cardiovascular Therapeutics; Washington, DC;Oct 2227, 2006. Abstract 178.

HORIZONS-AMI Stent, 2008:

Stone GW, Witzenbichler B, Guagliumi G, Peruga JZ, Brodie BR, Dudek D, Kornowski R, Hartmann F, Gersh BJ, Pocock SJ, Dangas G, Wong SC, Fahy M, Parise H, Mehran R
 Heparin plus a glycoprotein IIb/IIIa inhibitor versus bivalirudin monotherapy and paclitaxel-eluting stents versus bare-metal stents in acute myocardial infarction (HORIZONS-AMI):
 final 3-year results from a multicentre, randomised controlled trial. Lancet 2011 Jun 25;377:2193-2204 [21665265] 10.1016/S0140-6736(11)60764-2

PASSION, 2006:

Laarman GJ, Suttorp MJ, Dirksen MT, van Heerebeek L, Kiemeneij F, Slagboom T, van der Wieken LR, Tijssen JG, Rensing BJ, Patterson M Paclitaxel-eluting versus uncoated
 stents in primary percutaneous coronary intervention. N Engl J Med 2006;355:1105-13 [16971717]

DEBATER (SES vs BMS), 2009:

Daz de la Llera, 2007:

MISSION, 2008:

SESAMI, 2007:

TYPHOON, 2006:

Di Lorenzo et al., 2005:

Juwana, 2009:

PROSIT, 2006:

ZEST AMI (vs PES), 2009:

ZEST AMI (vs SES), 2009:

3 early angioplasty (<3 days) after thrombolysis

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Trial	Treatments	Patients	Trials design and methods
systematic balloon angioplasty vs no systematic angioplasty			
SWIFT , 1991 n=397/403 follow-up: 1 y	CA 72h with a view to PTCA or CABG versus elective angioplasty (only if required by clinical indication)	patients presenting with clinical and electrocardiographic features of acute myocardial infarction up to three hours after the onset of major symptoms	Parallel groups Open UK
SIAM , 1992 n=158/166 follow-up: <3 years	CA with CABG/PTCA 14-48 hours versus no CA within the first 21days unless evidence of ischemia	patients treated by thrombolysis for AMI	Parallel groups Open Europe
TAMI 6 , 1992 n=34/37	PTCA 6-24h after rtPA versus no PTCA planned	-	
Barbash , 1990 n=97/104	PTCA>72h after rtPA if stenosis>70% versus PTCA>72h after rtPA if stenosis>50% and ischemia	-	
Guerci , 1987 n=42/43 follow-up: 10 days	PTCA at 4 day versus no PTCA during the 10 days study period	patients candidate to PTCA determined at the 1st day CA	Factorial plan United states

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Trial	Treatments	Patients	Trials design and methods
TIMI 2 , 1989 n=1636/1626 follow-up: 6 we	CA 18 to 48 hrs versus no CA unless spontaneous or exercise induced ischemia	patients treated with intravenous recombinant tissue plasminogen activator (rt-PA) within four hours of the onset of chest pain thought to be caused by myocardial infarction	Factorial plan Open United states
TIMI II-A (deferred) n=194/197 follow-up:	delayed invasive strategy, deferred angiography and PTCA for 18-48 hours versus conservative approach	-	
TOPS , 1992 n=42/45 follow-up: 12 months	PTCA to be performed 4-14 days after MI versus conservative management, no PTCA	patients with residual stenoses after thrombolytic treatment of myocardial infarction	Parallel groups
Van den Brand , 1991 n=113/104 follow-up: 3 mo	CA at 2-5 days, PTCA if suitable lesion versus CA at 2-5 days but no PTCA	suitable lesion	Parallel groups NA Europe
Vermeer , 1999 n=NA follow-up: 42 days	alteplase followed by transfer to the PTCA centre and (if indicated) rescue PTCA versus thrombolytic treatment with alteplase	patients with acute myocardial infarction initially admitted to a hospital without PTCA facilities	Parallel groups

References

SWIFT, 1991:
SIAM, 1992:
TAMI 6, 1992:
Barbash, 1990:
Guerci, 1987:
TIMI 2, 1989:
TIMI II-A (deferred), 0:
TOPS, 1992:
Van den Brand, 1991:
Vermeer, 1999:

4 immediate PCI after thrombolysis

Trial	Treatments	Patients	Trials design and methods
immediate systematic ballon angioplasty vs no immediate angioplasty			
Belenkie , 1991 n=50/39 follow-up: 4 months	immediate PTCA versus delayed PTCA (18-38h)	patients with a patent infarct-related artery after thrombolytic therapy suitable for angioplasty	parallel group open Canada

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Trial	Treatments	Patients	Trials design and methods
ECSG , 1988 n=183/184 follow-up: 1 y	angioplasty as soon as possible (after rtPA) versus non-invasive strategy without immediate CA and PTCA	patients with acute myocardial infarction within 5 h after onset of symptoms	parallel group open Europe
Ellis , 1994 n=78/73 follow-up:	balloon angioplasty supplemented by further thrombolytic therapy as needed versus conservative therapy	patients with first anterior wall infarction treated with any accepted intravenous thrombolytic regimen and angiographically demonstrated to have an occluded infarct vessel within 8 hours of chest pain onset	
Erbel , 1989 n=103/103 follow-up: 3 years	combined intravenous and intracoronary streptokinase with immediate coronary angioplasty versus combined intravenous and intracoronary streptokinase without immediate coronary angioplasty	patients with acute transmural myocardial infarction	Parallel groups
MERLIN (Sutton) , 2004 n=NA follow-up: 30 days	emergency coronary angiography with rescue PCI versus conservative treatment	patients with STEMI and failed fibrinolysis	Parallel groups
SWISS-SMASH , 1999 n=32/23 follow-up: 30 days (1y)	emergency angiography, followed immediately by revascularization when indicated versus initial medical management	Patients with acute myocardial infarction and early shock	Parallel groups open Europe
TAMI 1 pilot , 1987 n=99/98 follow-up: in hospital	Angioplasty within 120 min (after rtPA) versus deferred CA (7-10 days) and angioplasty if indicated	patients with acute myocardial infarction.	parallel group open USA
TAMI-5 (Califf) , 1991 n=287/288 follow-up:	immediate catheterization with angioplasty for failed thrombolysis (90min after rtPA/urokinase) versus deferred predischage catheterization on days 5-10, no PTCA planned	patient with acute myocardial infarction	Factorial plan
TIMI 2A , 1988 n=195/194 follow-up: 21 days	CA within 120 min of the start of the rtPA infusion. PTCA whether the artery is open or closed versus CA within 18-48hrs. PTCA only if artery open (TIMI 2 or 3)	patient thrombolized for a AMI	parallel group open USA
Topol , 1987 n=15/13 follow-up: in hospital	immediate PTCA versus no PTCA	patients with evolving transmural myocardial infarction	parallel group open USA
systematic PCI (+stent) vs no systematic PCI			

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Trial	Treatments	Patients	Trials design and methods
CAPITAL AMI , 2005 n=86/84 follow-up: 6 months	TNK-facilitated angioplasty versus TNK alone	patients with high-risk ST-segment elevation myocardial infarction	Parallel groups
GRACIA-1 , 2004 n=248/251 follow-up: 12 months	angiography and intervention if indicated within 24 h of thrombolysis versus ischaemia-guided conservative approach	patients with thrombolysed STEMI (with recombinant tissue plasminogen activator)	Parallel groups
PRAGUE , 2000 n=100/99 follow-up: 12 months	thrombolysis during immediate transportation for coronary angioplasty versus thrombolysis in a community hospital	patients with acute ST elevation myocardial infarction presenting to community hospitals	
SIAM III , 2002 n=82/81 follow-up: 6 months	immediate stenting after thrombolysis versus conservative treatment	patients receiving thrombolysis in AMI (<12 h)	Parallel groups Germany
WEST , 2006 n=104/100 follow-up: 30 days	TNK and mandatory invasive study <= 24 h, including rescue PCI for reperfusion failure versus tenecteplase (TNK) and usual care	STEMI patients (>4 mm ST-elevation/deviation) within 6 h of symptom onse	Parallel groups Canada

References

Belenkie, 1991:
ECSG, 1988:
Ellis, 1994:
Erbel, 1989:
MERLIN (Sutton), 2004:
SWISS-SMASH, 1999:
TAMI 1 pilot, 1987:
TAMI-5 (Califf), 1991:
TIMI 2A, 1988:
Topol, 1987:
CAPITAL AMI, 2005:
GRACIA-1, 2004:
PRAGUE, 2000:
SIAM III, 2002:
WEST, 2006:

5 primary PCI

Trial	Treatments	Patients	Trials design and methods
primary ballon angioplasty vs accelerated t-PA			

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Trial	Treatments	Patients	Trials design and methods
Ribichini , 1996 n=24/26 follow-up: discharge	primary PTCA versus accelerated alteplase 90 min (15 mg IV bolus followed by an infusion of 0.75 mg/kg over 30min not to exceed 50mg, and then 0.5 mg/kg over the next 60min not to exceed 35mg for a total maximum of 100mg)	-	Parallel groups open Italy
Garcia , 1997 n=95/94 follow-up: 30 d	primary PTCA versus accelerated t-PA 90 min (15 mg IV bolus followed by an infusion of 0.75 mg/kg over 30min not to exceed 50mg, and then 0.5 mg/kg over the next 60min not to exceed 35mg for a total maximum of 100mg)	patients with anterior AMI	Parallel groups open Spain
GUSTO 2B , 1997 n=573/565 follow-up: 30 d	primary PTCA versus accelerated t-PA 90 min (15 mg IV bolus followed by an infusion of 0.75 mg/kg over 30min not to exceed 50mg, and then 0.5 mg/kg over the next 60min not to exceed 35mg for a total maximum of 100mg)	patients within 12 hours of acute myocardial infarction (with ST-segment elevation on the electrocardiogram)	factorial design open USA, Europe, Australia
DANAMI-2 , 1997 n=NA follow-up: 2.4y	angioplasty versus accelerated treatment with intravenous alteplase	patients who received thrombolytic treatment for a first acute myocardial infarction and with inducible myocardial ischemia (either symptomatic angina pectoris presenting spontaneously >36 hours after admission or during a predischage exercise test or ST changes during exercise compatible with ischemia)	Parallel groups open
primary PCI vs accelerated t-PA			
C-PORT , 2002 n=225/226 follow-up: 6 months	primary PCI without on-site cardiac surgery versus accelerated tissue plasminogen activator	thrombolytic-eligible patients with acute MI of less than 12 hours' duration associated with ST-segment elevation	Parallel groups open USA
primary stenting vs accelerated t-PA			
STAT , 2001 n=62/61 follow-up: 6 months	primary stenting versus accelerated t-PA	patients with acute ST-elevation myocardial infarction	Parallel groups open
facilitated stenting vs alteplase			
STOPAMI 1 , 2000 n=71/69 follow-up: 6 months	stent plus abciximab versus intravenous alteplase	patients with acute myocardial infarction	Parallel groups open
primary stenting vs balloon angioplasty			

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Trial	Treatments	Patients	Trials design and methods
Zwolle 5 (Suryapranata) , 1998 n=112/115 follow-up: 12 months	Stent Palmaz-Schatz versus balloon angioplasty	Patients with acute myocardial infarction	Parallel groups open
FRESCO , 1998 n=75/75 follow-up: 12 months	elective stenting after successful primary PTCA versus no further intervention after successful primary PTCA	patient with successful primary PTCA	Parallel groups open
GRAMI (Rodriguez) , 1998 n=52/52 follow-up: 12 months	balloon angioplasty followed electively with Gianturco Roubin II stents versus conventional balloon angioplasty	patients with acute myocardial infarction within 24 hours after onset	Parallel groups open
PASTA (Saito) , 1999 n=67/70 follow-up: 12 months	Stent Palmaz-Schatz versus primary balloon angioplasty	patients with AMI within 12 hr from onset	Parallel groups open
stent-PAMI (Grines) , 1999 n=452/448 follow-up: 12 months	angioplasty with Stent Heparin-coated versus angioplasty alone	patients with acute myocardial infarction and with vessels suitable for stenting	Parallel groups open
STENTIM-2 (Maillard) , 2000 n=101/110 follow-up: 12 months	systematic stenting with Stent Wiktor versus conventional balloon angioplasty	patients with AMI <12 h from symptom onset, with an occluded native coronary artery	Parallel groups open
PSSAAMI (Scheller) , 2001 n=44/44 follow-up: 24 months	Stent Wiktor GX versus primary angioplasty	patients within 24 hours after the onset of acute myocardial infarction	Parallel groups open
Jaksch , 1998 n=231/231 follow-up: 65279;6 months	-	-	Parallel groups open
PRISAM (Kawashima) , 1999 n=110/112 follow-up: 65279;6 months	-	-	Parallel groups open
CADILLAC (no abciximab) , 2002 n=512/518 follow-up: 12 months	stenting alone with the MultiLink stent versus PTCA alone	patients with acute myocardial infarction	Parallel groups open
CADILLAC abciximab. , 2002 n=524/528 follow-up: 12 months	stenting plus abciximab therapy versus PTCA plus abciximab therapy	patients with acute myocardial infarction	Parallel groups open
ZWOLLE 6 , 2005 n=785/763 follow-up: 12 months	stenting versus balloon angioplasty	unselected patients with STEMI	Parallel groups open

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Trial	Treatments	Patients	Trials design and methods
STOPAMI 3 , 2004 n=305/306 follow-up: 6 months	coronary artery stenting versus PTCA	patients with AMI ineligible for thrombolysis (lack of ST-segment elevation on the electrocardiogram, late presentation >12 h after symptom onset, and contraindications to thrombolysis)	Parallel groups open
primary ballon angioplasty vs duteplase			
DeWood , 1989 n=46/44 follow-up: 30 d	primary PTCA versus duteplase 0.5 MU/kg for 1 h then 0.7 MU/kg/h for 3h	-	Parallel groups open USA
Gibbons , 1993 n=47/56 follow-up: discharge	primary PTCA versus duteplase 0.6 MU/kg over 5h	patients with acute myocardial infarction	Parallel groups open USA
primary stenting vs immediate thrombolysis			
STOPAMI 2 , 2002 n=81/81 follow-up:	stenting combined with abciximab versus fibrinolysis by alteplase combined with abciximab	patients with acute myocardial infarction within 12 h of onset of symptoms	Parallel groups open
transfer for primary angioplasty vs immediate thrombolysis			
AIR-PAMI , 2002 n=71/66 follow-up:	Transfer for Primary Angioplasty versus immediate thrombolysis (various thrombolytic)	Patients with high-risk AMI (age >70 years, anterior MI, Killip class II/III, heart rate >100 beats/min or systolic BP <100 mm Hg), eligible for thrombolytic therapy	Parallel groups open
DANAMI-2 , 2003 n=567/562 follow-up: 30 days	Transfer for Primary Angioplasty versus immediate thrombolysis with tPA (accelerated infusion)	patients with myocardial infarction with ST-segment elevation	Parallel groups open
PRAGUE-2 , 2003 n=429/421 follow-up: 30 days	immediate transport for primary percutaneous coronary intervention versus immediate thrombolysis with streptokinase	patients with acute ST elevation myocardial infarction presenting within <12 h to the nearest community hospital without a catheter laboratory	Parallel groups open
primary ballon angioplasty vs intracoronary streptokinase			
O'Neill , 1986 n=NA follow-up:	coronary angioplasty versus intracoronary streptokinase	patients within 12 hours of their first symptoms of acute myocardial infarction	Parallel groups open
primary ballon angioplasty vs streptokinase			
Zwolle , 1994 n=152/149 follow-up: discharge	primary PTCA versus streptokinase 1.5 M IU over 1h	patients with acute myocardial infarction	Parallel groups open The Netherland
Ribeiro , 1993 n=50/50 follow-up: discharge	primary PTCA versus streptokinase 1.2 M IU over 1h	patients with ST segment elevation within 6 h of the onset of chest pain	Parallel groups open Brazil

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Trial	Treatments	Patients	Trials design and methods
Grinfeld , 1996 n=54/58 follow-up: 30 d	primary PTCA versus streptokinase 1.5 M IU over 1h	-	Parallel groups open Argentina
Zijlstra , 1997 n=45/50 follow-up: 6 months	primary PTCA versus streptokinase 1.5 M IU over 1h	atients with acute myocardial infarction	Parallel groups open The Netherland
Zijlstra , 1993 n=70/72 follow-up:	immediate coronary angioplasty (without previous thrombolytic therapy) versus intravenous streptokinase	patients with acute myocardial infarction	Parallel groups open
Akhras , 1997 n=42/45 follow-up:	primary angioplasty versus streptokinase	patient within 12hr from onset of AMI	Parallel groups open Saudi Arabia
primary ballon angioplasty vs t-PA			
PAMI , 1993 n=195/200 follow-up: discharge	primary PTCA versus t-PA 100mg (or 1.25mg/kg for patients weighting less than 65kg) over 3 h	patients who presented within 12 hours of the onset of myocardial infarction	Parallel groups open USA,Europe
primary ballon angioplasty vs tenecteplase			
TRIANA , 2009 [NCT00257309] n=132/134 follow-up: 30 days (12 months)	Tenecteplase + UFH (+/- clopidogrel) versus Primary angioplasty	>=75 years old with ST-segment elevation or LBBB AMI <6 hours of evolution without contraindications for thrombolytic therapy	Parallel groups open
primary PCI vs Thrombolysis			
senior PAMI , 2005 [NCT00136929] n=252/229 follow-up: 30 days	primary percutaneous coronary intervention versus intravenous thrombolytic therapy	elderly (age >= 70 years) patients with acute myocardial infarction	Parallel groups Open

References

Ribichini, 1996:
Garcia, 1997:
GUSTO 2B, 1997:
DANAMI-2, 1997:
C-PORT, 2002:
STAT, 2001:
STOPAMI 1, 2000:
Zwolle 5 (Suryapranata), 1998:
FRESCO, 1998:
GRAMI (Rodriguez), 1998:

PASTA (Saito), 1999:
stent-PAMI (Grines), 1999:
STENTIM-2 (Maillard), 2000:
PSSAAMI (Scheller), 2001:
Jaksch, 1998:
PRISAM (Kawashima), 1999:
CADILLAC (no abciximab), 2002:
CADILLAC abciximab., 2002:
ZWOLLE 6, 2005:
STOPAMI 3, 2004:
DeWood, 1989:
Gibbons, 1993:
STOPAMI 2, 2002:
AIR-PAMI , 2002:
DANAMI-2 , 2003:
PRAGUE-2 , 2003:
O'Neill, 1986:
Zwolle, 1994:
Ribeiro, 1993:
Grinfeld, 1996:
Zijlstra, 1997:
Zijlstra , 1993:
Akhras, 1997:
PAMI, 1993:
TRIANA, 2009:
senior PAMI, 2005:

6 transfer for primary angioplasty

Trial	Treatments	Patients	Trials design and methods
primary angioplasty vs immediate thrombolysis			
MAASTRICHT (Vermeer) , 1999 n=75/75 follow-up:	Transfer for primary PTCA versus immediate thrombolysis with tPA	patients with acute myocardial infarction initially admitted to a hospital without PTCA facilities	open
PRAGUE-1 , 2000 n=101/99 follow-up: 30 days	immediate transportation for primary angioplasty without pre-treatment with thrombolysis versus immediate thrombolysis with streptokinase	patients with acute myocardial infarction, presenting within 6 h of symptom onset at community hospitals without a catheterization laboratory	open

continued...

Trial	Treatments	Patients	Trials design and methods
AIR-PAMI , 2002 n=71/66 follow-up:	Transfer for Primary Angioplasty versus immediate thrombolysis (various thrombolytic)	Patients with high-risk AMI (age >70 years, anterior MI, Killip class II/III, heart rate >100 beats/min or systolic BP <100 mm Hg), eligible for thrombolytic therapy	open
CAPTIM , 2002 n=421/419 follow-up:	Transfer for Primary Angioplasty versus prehospital fibrinolysis with accelerated alteplase	patients within 6 h of acute myocardial infarction with ST-segment elevation, initially managed by mobile emergency-care units	open
DANAMI-2 , 2003 n=567/562 follow-up: 30 days	Transfer for Primary Angioplasty versus immediate thrombolysis with tPA (accelerated infusion)	patients with myocardial infarction with ST-segment elevation	Parallel groups open
PRAGUE-2 , 2003 n=429/421 follow-up: 30 days	immediate transport for primary percutaneous coronary intervention versus immediate thrombolysis with streptokinase	patients with acute ST elevation myocardial infarction presenting within <12 h to the nearest community hospital without a catheter laboratory	open
thrombolysis + angioplasty vs immediate thrombolysis			
NORDISTEMI , 2009 [NCT00161005] n=134/132 follow-up: 1y	transfer for immediate coronary angiography and intervention versus conservative strategy	patients with STEMI of less than 6 hours of duration and more than 90 minutes expected time delay to PCI	Parallel groups open Norway
PRAGUE-1 (thrombolysis+PTCA) , 2000 n=100/99 follow-up: 30 days	thrombolytic therapy during transportation to angioplasty versus immediate thrombolysis with streptokinase	patients with acute myocardial infarction, presenting within 6 h of symptom onset at community hospitals without a catheterization laboratory	Parallel groups open Czech Republic
CARESS , 2008 n=NA follow-up: 30 days	immediate transfer for PCI after half-dose reteplase, abciximab, heparin, and aspirin versus half-dose reteplase, abciximab, heparin, and aspirin, transfer for PCI only if they had persistent ST elevation at 90 minutes (rescue PCI)	STEMI patients under 75 years old within 12 hours of symptom onset who had been admitted to hospitals without PCI facilities	open France, Italy, and Poland
CAPITAL AMI , 2005 n=86/84 follow-up: 6 months	full-dose tenecteplase (TNK) plus PCI versus thrombolysis alone	high-risk MI patients within six hours of symptom onset	Parallel groups open US
TRANSFER-AMI , 2008 <i>ongoing</i> [NCT00164190] n=NA follow-up: 30 days	pharmacoinvasive strategy (transfer for PCI within six hours of fibrinolysis) versus standard treatment after fibrinolysis (rescue PCI for failed reperfusion, with elective PCI encouraged for successfully reperfused patients after 24 hours)	patients with high-risk STEMI	Parallel groups open

References

MAASTRICHT (Vermeer), 1999:

PRAGUE-1, 2000:
AIR-PAMI, 2002:
CAPTIM, 2002:
DANAMI-2, 2003:
PRAGUE-2, 2003:
NORDISTEMI, 2009:
PRAGUE-1 (thrombolysis+PTCA), 2000:
CARESS, 2008:
CAPITAL AMI, 2005:
TRANSFER-AMI, 2008:

7 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.