

Clinical trials of primary stenting

TrialResults-center www.trialresultscenter.org

1 acute myocardial infarction

Trial	Treatments	Patients	Trials design and methods
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
primary stenting vs balloon angioplasty			
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

continued...

Trial	Treatments	Patients	Trials design and methods
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
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 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

More details and results :

- myocardial revascularization for acute myocardial infarction in all type of patients at <http://www.trialresultscenter.org/go-Q129>
- PCI for acute myocardial infarction in all type of patients at <http://www.trialresultscenter.org/go-Q246>
- myocardial revascularization for acute myocardial infarction in patient ineligible for thrombolysis at <http://www.trialresultscenter.org/go-Q254>
- PCI for acute myocardial infarction in patient ineligible for thrombolysis at <http://www.trialresultscenter.org/go-Q255>

References

STAT, 2001:

Le May MR, Labinaz M, Davies RF, Marquis JF, Larame LA, O'Brien ER, Williams WL, Beanlands RS, Nichol G, Higginson LA Stenting versus thrombolysis in acute myocardial infarction trial (STAT). *J Am Coll Cardiol* 2001;37:985-91 [[11263625](#)]

Zwolle 5 (Suryapranata), 1998:

Suryapranata H, van 't Hof AW, Hoorntje JC, de Boer MJ, Zijlstra F Randomized comparison of coronary stenting with balloon angioplasty in selected patients with acute myocardial infarction. *Circulation* 1998;97:2502-5 [[9657469](#)]

FRESCO, 1998:

Antoniucci D, Santoro GM, Bolognese L, Valenti R, Trapani M, Fazzini PF A clinical trial comparing primary stenting of the infarct-related artery with optimal primary angioplasty for acute myocardial infarction: results from the Florence Randomized Elective Stenting in Acute Coronary Occlusions (FRESCO) trial. *J Am Coll Cardiol* 1998;31:1234-9 [[9581713](#)]

GRAMI (Rodriguez), 1998:

Rodriguez A, Bernardi V, Fernandez M, Mauvecn C, Ayala F, Santaera O, Martnez J, Mele E, Roubin GS, Palacios I, Ambrose JA In-hospital and late results of coronary stents versus conventional balloon angioplasty in acute myocardial infarction (GRAMI trial). *Gianturco-Roubin in Acute Myocardial Infarction*. *Am J Cardiol* 1998;81:1286-91 [[9631964](#)]

PASTA (Saito), 1999:

Saito S, Hosokawa G, Tanaka S, Nakamura S Primary stent implantation is superior to balloon angioplasty in acute myocardial infarction: final results of the primary angioplasty versus stent implantation in acute myocardial infarction (PASTA) trial. *PASTA Trial Investigators*. *Catheter Cardiovasc Interv* 1999;48:262-8 [[10525224](#)]

stent-PAMI (Grines), 1999:

Grines CL, Cox DA, Stone GW, Garcia E, Mattos LA, Giambartolomei A, Brodie BR, Madonna O, Eijgelshoven M, Lansky AJ, O'Neill WW, Morice MC Coronary angioplasty with or without stent implantation for acute myocardial infarction. *Stent Primary Angioplasty in Myocardial Infarction Study Group*. *N Engl J Med* 1999;341:1949-56 [[10607811](#)]

STENTIM-2 (Maillard), 2000:

Maillard L, Hamon M, Khalife K, Steg PG, Beygui F, Guernonprez JL, Spaulding CM, Boulenc JM, Lipiecki J, Lafont A, Brunel P, Grollier G, Koning R, Coste P, Favereau X, Lancelin B, Van Belle E, Serruys P, Monassier JP, Raynaud P A comparison of systematic stenting and conventional balloon angioplasty during primary percutaneous transluminal coronary angioplasty for acute myocardial infarction. *STENTIM-2 Investigators*. *J Am Coll Cardiol* 2000;35:1729-36 [[10841218](#)]

PSSAAMI (Scheller), 2001:

Scheller B, Hennen B, Severin-Kneib S, Ozbek C, Schieffer H, Markwirth T Long-term follow-up of a randomized study of primary stenting versus angioplasty in acute myocardial infarction. *Am J Med* 2001;110:1-6 [[11152857](#)]

Jaksch, 1998:

Jaksch R, Niehus R, Knobloch W, Schiele T. *s_cc = PTC Aversusstentinginacutemyocardialinfarctione/pjEurHeartJ*.1998;19 : 1341x – xbitm

PRISAM (Kawashima), 1999:

Kawashima A, Ueda K, Nishida Y, et al. *Quantitative angiographic analysis of restenosis of primary stenting using Wiktor stent for acute myocardial infarction: results from a multicenter randomized PRISAM study*.6 *Circulation*. 1999;100(suppl 1):I856..ag

CADILLAC (no abciximab), 2002:

Stone GW, Grines CL, Cox DA, Garcia E, Tchong JE, Griffin JJ, Guagliumi G, Stuckey T, Turco M, Carroll JD, Rutherford BD, Lansky AJ Comparison of angioplasty with stenting, with or without abciximab, in acute myocardial infarction. *N Engl J Med* 2002;346:957-66 [[11919304](#)]

CADILLAC abciximab., 2002:

Stone GW, Grines CL, Cox DA, Garcia E, Tchong JE, Griffin JJ, Guagliumi G, Stuckey T, Turco M, Carroll JD, Rutherford BD, Lansky AJ Comparison of angioplasty with stenting, with or without abciximab, in acute myocardial infarction. *N Engl J Med* 2002;346:957-66 [[11919304](#)]

ZWOLLE 6, 2005:

Suryapranata H, De Luca G, van 't Hof AW, Ottervanger JP, Hoorntje JC, Dambrink JH, Gosselink AT, Zijlstra F, de Boer MJ Is routine stenting for acute myocardial infarction superior to balloon angioplasty? A randomised comparison in a large cohort of unselected patients. *Heart* 2005;91:641-5 [[15831652](#)]

De Luca G, Suryapranata H, van't Hof AW, Ottervanger JP, Hoorntje JC, Dambrink JH, Gosselink AT, de Boer MJ Routine stenting vs. balloon angioplasty in ST-segment elevation myocardial infarction due to proximal left anterior descending coronary artery occlusion. *J Cardiovasc Med (Hagerstown)* 2009 Jan;10:22-6 [[19145115](#)]

STOPAMI 3, 2004:

Kastrati A, Mehilli J, Nekolla S, Bollwein H, Martinoff S, Pache J, Schlen H, Seyfarth M, Gawaz M, Neumann FJ, Dirschinger J, Schwaiger M, Schmig A A randomized trial comparing myocardial salvage achieved by coronary stenting versus balloon angioplasty in patients with acute myocardial infarction considered ineligible for reperfusion therapy. *J Am Coll Cardiol* 2004;43:734-41 [[14998609](#)]

STOPAMI 2, 2002:

Kastrati A, Mehilli J, Dirschinger J, Schricke U, Neverve J, Pache J, Martinoff S, Neumann FJ, Nekolla S, Blasini R, Seyfarth M, Schwaiger M, Schmig A Myocardial salvage after coronary stenting plus abciximab versus fibrinolysis plus abciximab in patients with acute myocardial infarction: a randomised trial. *Lancet* 2002;359:920-5 [[11918909](#)]

Entry terms: PCI