

Clinical trials of myocardial revascularization for acute myocardial infarction in facilitated PCI

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1 combination facilitated PCI

Trial	Treatments	Patients	Trials design and methods
Abciximab + reteplase vs primary intervention			
BRAVE (Kastrati) , 2004 n=125/128 follow-up: 30 days	-	symptom duration <12h	
FINESSE (combination-facilitated PCI) , 2008 [NCT00046228] n=828/806 follow-up: 90 days	combination-facilitated PCI with abciximab plus half-dose reteplase versus primary PCI (abciximab administered immediately before the procedure)	patients with acute ST-segment elevation myocardial infarction; symptom duration <6h	Parallel groups open
Eptifibatide + tenecteplase vs primary intervention			
ADVANCE-MI , 2005 n=69/77 follow-up: 30 days	-	symptom duration <4h	

References

BRAVE (Kastrati), 2004:

Kastrati A, Mehilli J, Schlotterbeck K, Dotzer F, Dirschinger J, Schmitt C, Nekolla SG, Seyfarth M, Martinoff S, Markwardt C, Clermont G, Gerbig HW, Leiss J, Schwaiger M, Schmig A Early administration of reteplase plus abciximab vs abciximab alone in patients with acute myocardial infarction referred for percutaneous coronary intervention: a randomized controlled trial. JAMA 2004;291:947-54 [[14982910](#)]

FINESSE (combination-facilitated PCI), 2008:

Ellis SG, Tendera M, de Belder MA, van Boven AJ, Widimsky P, Janssens L, Andersen HR, Betriu A, Savonitto S, Adamus J, Peruga JZ, Kosmider M, Katz O, Neunteufl T, Jorgova J, Dorobantu M, Grinfeld L, Armstrong P, Brodie BR, Herrmann HC, Montalescot G, Neum Facilitated PCI in patients with ST-elevation myocardial infarction. N Engl J Med 2008 May 22;358:2205-17 [[18499565](#)]

ADVANCE-MI, 2005:

Facilitated percutaneous coronary intervention for acute ST-segment elevation myocardial infarction: results from the prematurely terminated Addressing the Value of facilitated ANgioplasty after Combination therapy or Eptifibatide monotherapy in acute Myocardial Infarction (ADVANCE MI) trial. Am Heart J 2005;150:116-22 [[16084157](#)]

2 GP IIb/IIIa inhibitor-facilitated PCI

Trial	Treatments	Patients	Trials design and methods
Abciximab vs primary intervention			
ERAMI (Mesquita Gabriel) , 2003 n=36/38 follow-up: 30-day	facilitated PCI with Abciximab; 025 mg/kg intravenous bolus, 0125 g/kg per min infusion versus primary intervention	symptom duration <12h	
FINESSE (abciximab-facilitated PCI) , 2008 [NCT00046228] n=818/806 follow-up: 90 days	abciximab-facilitated PCI versus primary PCI (abciximab administered immediately before the procedure)	patients with acute ST-segment elevation myocardial infarction; symptom duration <6h	Parallel groups open
REOMOBILE (Arntz) , 2003 n=52/48 follow-up: 30-day	facilitated PCI with Abciximab; 025 mg/kg intravenous bolus, 0125 g/kg per min infusion versus primary intervention	symptom duration <6h	
Zorman , 2002 n=56/56 follow-up: In hospital	facilitated PCI with Abciximab; 025 mg/kg intravenous bolus, 0125 g/kg per min infusion versus primary intervention	symptom duration <12h	
ReoPro-BRIDGING (Gyongyosi) , 2004 n=28/27 follow-up: 30-day	facilitated PCI with Abciximab; 025 mg/kg intravenous bolus, 0125 g/kg per min infusion versus primary intervention	symptom duration <6h	
Bellandi , 2006 n=27/28 follow-up: 30-day	facilitated PCI with Abciximab; 025 mg/kg intravenous bolus, 0125 g/kg per min infusion versus primary intervention	symptom duration <6h	
Eptifibatide vs primary intervention			
INTAMI (Zeymer) , 2005 n=53/49 follow-up: 30-day	facilitated PCI with Eptifibatide; 180 g/kg intravenous double bolus, 20 g/kg per min infusion versus primary intervention	symptom duration <12h	
Tirofiban vs primary intervention			
On-Time (vant Hof) , 2004 n=245/247 follow-up: 65279;30-day	facilitated PCI with Tirofiban; 10 g/kg intravenous bolus, 015 g/kg per min infusion versus primary intervention	symptom duration <6h	
TIGER-PA (Lee) , 2003 n=50/50 follow-up: 30-day	facilitated PCI with Tirofiban; 10 g/kg intravenous bolus, 015 g/kg per min infusion versus primary intervention	symptom duration <12h	
Cutlip , 2003 n=28/30 follow-up: 30-day	facilitated PCI with Tirofiban; 10 g/kg intravenous bolus, 015 g/kg per min infusion versus primary intervention	symptom duration <12h	

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ERAMI (Mesquita Gabriel), 2003:

Mesquita Gabriel H, Oliveira J, et al. Early administration of abciximab bolus in the emergency room improves microperfusion after primary percutaneous coronary intervention, as assessed by TIMI frame count: results of the ERAMI trial. *N Engl J Med* 2003; 24 (suppl): 543 (abstr& txtPag

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Zorman S, Zorman D, Noc M Effects of abciximab pretreatment in patients with acute myocardial infarction undergoing primary angioplasty. *Am J Cardiol* 2002;90:533-6 [[12208418](#)]

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3 thrombolysis-facilitated PCI

Trial	Treatments	Patients	Trials design and methods
vs primary intervention			
ASSENT-4 PCI (Van de Werf) , 2006 [NCT00168792] n=829/838 follow-up: 30-day	facilitated PCI with tenecteplase bodyweight-adjusted intravenous bolus: 30 mg of drug if bodyweight <60 kg, 35 mg if 60-69 kg, 40 mg if 70-79 kg, 45 mg if 80-89 kg, and 50 mg if ≥90 kg versus primary intervention	symptom duration <6 h	
alteplase vs primary intervention			
LIMI (Vermeer) , 1999 n=74/75 follow-up: 42-day	facilitated PCI with Alteplase 50 mg(intravenous bolus)mag versus primary intervention	symptom duration <6h	
PACT (Ross.) , 1999 n=302/304 follow-up: 30-day	facilitated PCI with alteplase 50 mg (intravenous bolus) versus primary intervention	symptom duration <6h	
streptokinase vs primary intervention			
SAMI (O'Neill) , 1992 n=59/63 follow-up: In hospital	facilitated PCI with streptokinase 15 million units(intravenous) versus primary intervention	symptom duration <4h	
PRAGUE (Widimisky) , 2000 n=100/101 follow-up: 30-day	facilitated PCI with Streptokinase 15 million units (intravenous) versus primary intervention	symptom duration <6h	
tenecteplase vs primary intervention			
GRACIA (Fernandez-Aviles) , 2004 n=104/108 follow-up: 30-day	facilitated PCI with bodyweight-adjusted intravenous tenecteplase bolus: 30 mg of drug if bodyweight <60 kg, 35 mg if 60-69 kg, 40 mg if 70-79 kg, 45 mg if 80-89 kg, and 50 mg if ≥90 kg and Abciximab; 0.25 mg/kg intravenousbolus, 0.125 g/kg per min infusi versus primary intervention	symptom duration <12h	

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4 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.

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