

Clinical trials of primary angioplasty

TrialResults-center www.trialresultscenter.org

1 acute myocardial infarction

| 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 |
| 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 |
| transfer for primary angioplasty vs immediate thrombolysis | | | |

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 | 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 |

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>

2

References

MAASTRICHT (Vermeier), 1999:

Vermeier 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]

PRAGUE-1, 2000:

Widimsk P, Groch L, Zelzko M, Aschermann M, Bednr F, Suryapranata H Multicentre randomized trial comparing transport to primary angioplasty vs immediate thrombolysis vs combined strategy for patients with acute myocardial infarction presenting to a community hospital without a catheterization laboratory. The PRAGUE study. Eur Heart J 2000;21:823-31 [10781354]

AIR-PAMI, 2002:

Grines CL, Westerhausen DR Jr, Grines LL, Hanlon JT, Logemann TL, Niemela M, Weaver WD, Graham M, Boura J, O'Neill WW, Balestrini C A randomized trial of transfer for primary angioplasty versus on-site thrombolysis in patients with high-risk myocardial infarction: the Air Primary Angioplasty in Myocardial Infarction study. J Am Coll Cardiol 2002;39:1713-9 [12039480]

CAPTIM, 2002:

Bonnefoy E, Lapostolle F, Leizorovicz A, Steg G, McFadden EP, Dubien PY, Cattan S, Boulenger E, Machecourt J, Lacroute JM, Cassagnes J, Dissait F, Touboul P Primary angioplasty versus prehospital fibrinolysis in acute myocardial infarction: a randomised study. Lancet 2002;360:825-9 [12243916]

DANAMI-2, 2003:

Fosbl EL, Thune JJ, Kelbaek H, Andersen HR, Saunamki K, Nielsen TT, Mortensen LS, Kber L Long-term outcome of primary angioplasty compared with fibrinolysis across age groups: a Danish Multicenter Randomized Study on Fibrinolytic Therapy Versus Acute Coronary Angioplasty in Acute Myocardial Infarction (DANAMI-2) substudy. Am Heart J 2008 Aug;156:391-6 [[18657676](#)]

Madsen JK, Grande P, Saunamki K, Thayssen P, Kassis E, Eriksen U, Rasmussen K, Hauns S, Nielsen TT, Haghfelt T, Fritz-Hansen P, Hjelms E, Paulsen PK, Alstrup P, Arendrup H, Niebuhr-Jrgensen U, Andersen LI Danish multicenter randomized study of invasive versus conservative treatment in patients with inducible ischemia after thrombolysis in acute myocardial infarction (DANAMI). DANish trial in Acute Myocardial Infarction. Circulation 1997 Aug 5;96:748-55 [[9264478](#)]

Madsen JK, Nielsen TT, Grande P, Eriksen UH, Saunamki K, Thayssen P, Kassis E, Rasmussen K, Hauns S, Haghfelt T, Fritz-Hansen P, Hjelms E, Paulsen PK, Alstrup P, Arendrup H, Niebuhr-Jrgensen U, Andersen LI Revascularization compared to medical treatment in patients with silent vs. symptomatic residual ischemia after thrombolyzed myocardial infarction—the DANAMI study. Cardiology 2007;108:243-51 [[17114878](#)]

Andersen HR, Nielsen TT, Rasmussen K, Thuesen L, Kelbaek H, Thayssen P, Abildgaard U, Pedersen F, Madsen JK, Grande P, Villadsen AB, Krusell LR, Haghfelt T, Lomholt P, Husted SE, Vigholt E, Kjaergard HK, Mortensen LS A comparison of coronary angioplasty with fibrinolytic therapy in acute myocardial infarction. N Engl J Med 2003 Aug 21;349:733-42 [[12930925](#)]

PRAGUE-2, 2003:

Widimsk P, Budesnsk T, Vorc D, Groch L, Zelzko M, Aschermann M, Branny M, St'sek J, Formnek P Long distance transport for primary angioplasty vs immediate thrombolysis in acute myocardial infarction. Final results of the randomized national multicentre trial—PRAGUE-2. Eur Heart J 2003;24:94-104 [[12559941](#)]

AIR-PAMI , 2002:

Grines CL, Westerhausen DR Jr, Grines LL, Hanlon JT, Logemann TL, Niemela M, Weaver WD, Graham M, Boura J, O'Neill WW, Balestrini C A randomized trial of transfer for primary angioplasty versus on-site thrombolysis in patients with high-risk myocardial infarction: the Air Primary Angioplasty in Myocardial Infarction study. J Am Coll Cardiol 2002;39:1713-9 [[12039480](#)]

DANAMI-2 , 2003:

Fosbl EL, Thune JJ, Kelbaek H, Andersen HR, Saunamki K, Nielsen TT, Mortensen LS, Kber L Long-term outcome of primary angioplasty compared with fibrinolysis across age groups: a Danish Multicenter Randomized Study on Fibrinolytic Therapy Versus Acute Coronary Angioplasty in Acute Myocardial Infarction (DANAMI-2) substudy. Am Heart J 2008 Aug;156:391-6 [[18657676](#)]

Madsen JK, Grande P, Saunamki K, Thayssen P, Kassis E, Eriksen U, Rasmussen K, Hauns S, Nielsen TT, Haghfelt T, Fritz-Hansen P, Hjelms E, Paulsen PK, Alstrup P, Arendrup H, Niebuhr-Jrgensen U, Andersen LI Danish multicenter randomized study of invasive versus conservative treatment in patients with inducible ischemia after thrombolysis in acute myocardial infarction (DANAMI). DANish trial in Acute Myocardial Infarction. Circulation 1997 Aug 5;96:748-55 [[9264478](#)]

Madsen JK, Nielsen TT, Grande P, Eriksen UH, Saunamki K, Thayssen P, Kassis E, Rasmussen K, Hauns S, Haghfelt T, Fritz-Hansen P, Hjelms E, Paulsen PK, Alstrup P, Arendrup H, Niebuhr-Jrgensen U, Andersen LI Revascularization compared to medical treatment in patients with silent vs. symptomatic residual ischemia after thrombolyzed myocardial infarction—the DANAMI study. Cardiology 2007;108:243-51 [[17114878](#)]

Andersen HR, Nielsen TT, Rasmussen K, Thuesen L, Kelbaek H, Thayssen P, Abildgaard U, Pedersen F, Madsen JK, Grande P, Villadsen AB, Krusell LR, Haghfelt T, Lomholt P, Husted SE, Vigholt E, Kjaergard HK, Mortensen LS A comparison of coronary angioplasty with fibrinolytic therapy in acute myocardial infarction. N Engl J Med 2003 Aug 21;349:733-42 [[12930925](#)]

PRAGUE-2 , 2003:

Widimsk P, Budesnsk T, Vorc D, Groch L, Zelzko M, Aschermann M, Branny M, St'sek J, Formnek P Long distance transport for primary angioplasty vs immediate thrombolysis in acute myocardial infarction. Final results of the randomized national multicentre trial—PRAGUE-2. Eur Heart J 2003;24:94-104 [[12559941](#)]

Widimsk P, Budesnsk T, Vorc D, Groch L, Zelzko M, Aschermann M, Branny M, St'sek J, Formnek P Long distance transport for primary angioplasty vs immediate

thrombolysis in acute myocardial infarction. Final results of the randomized national multicentre trial—PRAGUE-2. Eur Heart J 2003;24:94–104 [[12559941](#)]

Entry terms: PTCA