

# Clinical trials of Drug eluting stent for coronary artery disease in acute myocardial infarction

TrialResults-center [www.trialresultscenter.org](http://www.trialresultscenter.org)

## 1 drug-eluting stents

Trial	Treatments	Patients	Trials design and methods
<b>drug-eluting stents vs bare-metal stent</b>			
<b>DEDICATION , 2008</b> [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.
<b>PASEO , 2009</b> 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
<b>Genous stent vs bare-metal stent</b>			
<b>GENIUS-STEMI , 2009</b> n=50/50 follow-up: 6 months	endothelial progenitor cell capture stent versus cobalt chromium stent	patients with ST-elevation myocardial infarction	Parallel groups NA
<b>paclitaxel eluting stent vs bare-metal stent</b>			
<b>HAAMU-STENT , 2006</b> <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unpublished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
<b>HORIZONS-AMI Stent , 2008</b> n=2257/749 follow-up: 1 year	paclitaxel-eluting stents (Taxus) versus BMS (Express)	ST-elevation myocardial infarction	Factorial plan open
<b>PASSION , 2006</b> [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
<b>sirolimus eluting stent vs bare-metal stent</b>			
<b>DEBATER (SES vs BMS) , 2009</b> n=424/446 follow-up: 1 y	sirolimus-eluting stents versus bare-metal stents	patients undergoing PCI for STEMI withon 12 hours	Factorial plan
<b>Daz de la Llera , 2007</b> 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

continued...

<b>Trial</b>	<b>Treatments</b>	<b>Patients</b>	<b>Trials design and methods</b>
<b>MISSION , 2008</b> [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
<b>SESAMI , 2007</b> [NCT00288210] n=160/160 follow-up: 12 months	Cypher versus BX stent, Cordis	AMI	Parallel groups open Italy
<b>TYPHOON , 2006</b> [NCT00232830] n=356/359 follow-up: 12 months	Cypher or CypherSelect versus any commerciallyavailable uncoated stent	AMI	Parallel groups open Worldwide (15 countries)
<b>sirolimus eluting stent vs paclitaxel eluting stent</b>			
<b>PROSIT , 2006</b> n=154/154 follow-up: 1 year	SES Cordis versus PES Boston Scientific	AMI or persistent ischaemia 12-24h	Parallel groups open Korea
<b>SORT OUT II , 2008</b> [NCT00388934] n=1065/1033 follow-up:	Cypher stent versus Taxus stent(Boston Scientific Corp)	Unselected patients (included ST-segment elevation myocardial infarction (STEMI), non-STEMI or unstable angina pectoris, and stable angina)	Parallel groups open Denmark.
<b>zotarolimus eluting stent vs paclitaxel eluting stent</b>			
<b>ZEST AMI (vs PES) , 2009</b> [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
<b>zotarolimus eluting stent vs sirolimus eluting stent</b>			
<b>SORT-OUT-3 , 2010</b> [NCT00660478] n=1162/1171 follow-up: 9 months (18 mo,3yrs)	Zotarolimus-eluting stents versus sirolimus-eluting stents (SES)	Patients With Coronary Artery Disease undergoing PCI for any indication	open
<b>ZEST AMI (vs SES) , 2009</b> [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, Klwgaard 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, Klwgaard 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](https://doi.org/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]

**GENIUS-STEMI, 2009:**

Cervinka A Randomized Comparison of Genous Stent Versus Chromium-Cobalt Stent for Treatment of ST-Elevation Myocardial Infarction: A 6-Month Clinical, Angiographic, and IVUS Follow-up: GENIUS-STEMI trial ACC.09/i2, Orlando, FL, March 2009

**HAAMU-STENT, 2006:**

Tierala I, Syaenne 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](https://doi.org/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:**

**PROSIT, 2006:**

**SORT OUT II, 2008:**

**ZEST AMI (vs PES), 2009:**

**SORT-OUT-3, 2010:**

**ZEST AMI (vs SES), 2009:**

## 2 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.