

# Clinical trials of drug-eluting stents

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

## 1 acute myocardial infarction

| Trial   | Treatments  | Patients  | Trials design and methods          |
|---|---|---|------------------------------------|
| <b>drug-eluting stents vs bare-metal stent</b>  |   |   |                                    |
| <b>DEDICATION , 2008</b><br>[NCT00192868]<br>n=313/313<br>follow-up: 8 mo (15 mo, 3y) | DES currently used with or without distal protection<br>versus<br>BMS with or without distal protection | patients referred within 12 hours from symptom onset of an ST-elevation myocardial infarction | Factorial plan<br>open<br>Denmark. |
| <b>PASEO , 2009</b><br>n=180/90<br>follow-up: 4.3 years                               | paclitaxel-eluting stents and sirolimus-eluting stents<br>versus<br>bare metal stent                    | patients with ST-elevation myocardial infarction within 12 hours from symptom onset           | Parallel groups<br>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>

## 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]

## 2 stable angina

| Trial  | Treatments   | Patients  | Trials design and methods                |
|--|--|---|--|
| <b>drug-eluting stents vs bare-metal stent</b>                                     |  |   |  |
| <b>ISAR-CABG</b> <i>ongoing</i><br>[NCT00611910]<br>n=NA<br>follow-up:             | DES<br>versus<br>BMS   | Bypass Graft Lesions  | open                                     |
| <b>PCI with drug-eluting stents vs CABG</b>  |  |   |  |
| <b>SYNTAX (diabetic) , 2010</b><br>[NCT00114972]<br>n=NA<br>follow-up: 1 year      | paclitaxel-eluting stents<br>versus<br>surgical revascularization                        | sub group of diabetic patients with left main and/or 3-vessel disease | Parallel groups                          |
| <b>FREEDOM , 2012</b><br>[NCT00086450]<br>n=953/947<br>follow-up: 3.8 yrs (median) | percutaneous coronary stenting<br>versus<br>CABG   | patients with diabetes and multivessel coronary artery disease        | Parallel groups<br>open<br>international |
| <b>PCI with drug-eluting stents vs CABG</b>  |  |   |  |
| <b>Hong , 2005</b><br>n=119/70<br>follow-up: 9 months                              | drug-eluting stents<br>versus<br>invasive direct coronary artery bypass (MIDCAB) surgery | proximal left anterior descending (LAD) coronary artery stenosis      | Parallel groups<br>open                  |
| <b>VA CARDS</b> <i>ongoing</i><br>[NCT00326196]<br>n=NA<br>follow-up:              | percutaneous coronary stenting with drug eluting stents<br>versus<br>CABG                | angiographically significant coronary artery disease in diabetes      | Parallel groups<br>open                  |
| <b>drug-eluting stents vs CABG</b>   |  |   |  |
| <b>Leipzig</b> <i>ongoing</i><br>[NCT00176397]<br>n=NA<br>follow-up:               | PCI With DES<br>versus<br>CABG   | left main coronary stenosis   |  |

More details and results :

- myocardial revascularization for stable angina in all type of patient at <http://www.trialresultscenter.org/go-Q25>

- myocardial revascularization for stable angina in single vessel disease at <http://www.trialresultscenter.org/go-Q27>
- myocardial revascularization for stable angina in multivessels disease at <http://www.trialresultscenter.org/go-Q28>
- myocardial revascularization for stable angina in diabetic patients at <http://www.trialresultscenter.org/go-Q29>

## References

### ISAR-CABG, 0:

ongoing trial NCT00611910

### SYNTAX (diabetic), 2010:

Banning AP, Westaby S, Morice MC, Kappetein AP, Mohr FW, Berti S, Glauber M, Kellett MA, Kramer RS, Leadley K, Dawkins KD, Serruys PW Diabetic and nondiabetic patients with left main and/or 3-vessel coronary artery disease: comparison of outcomes with cardiac surgery and paclitaxel-eluting stents. J Am Coll Cardiol 2010;55:1067-75 [[20079596](#)]

### FREEDOM, 2012:

Farkouh ME, Domanski M, Sleeper LA, Siami FS, Dangas G, Mack M, Yang M, Cohen DJ, Rosenberg Y, Solomon SD, Desai AS, Gersh BJ, Magnuson EA, Lansky A, Boineau R, Weinberger J, Ramanathan K, Sousa JE, Rankin J, Bhargava B, Buse J, Hueb W, Smith CR, Muratov Strategies for Multivessel Revascularization in Patients with Diabetes. N Engl J Med 2012 Nov 4;: [[23121323](#)] [10.1056/NEJMoa1211585](#)

### Hong, 2005:

Hong SJ, Lim DS, Seo HS, Kim YH, Shim WJ, Park CG, Oh DJ, Ro YM Percutaneous coronary intervention with drug-eluting stent implantation vs. minimally invasive direct coronary artery bypass (MIDCAB) in patients with left anterior descending coronary artery stenosis. Catheter Cardiovasc Interv 2005;64:75-81 [[15619278](#)]

### VA CARDS, 0:

ongoing trial NCT00326196

### Leipzig, 0:

ongoing trial NCT00176397

## 3 coronary artery disease

| Trial  | Treatments  | Patients  | Trials design and methods          |
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| <b>drug-eluting stents vs bare-metal stent</b>   |   |   |                                    |
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continued...

| <b>Trial</b>   | <b>Treatments</b>   | <b>Patients</b>   | <b>Trials design and methods</b>         |
|--|---|---|--|
| <b>PASEO , 2009</b><br>n=180/90<br>follow-up: 4.3 years                            | paclitaxel-eluting stents and<br>sirolimus-eluting stents<br>versus<br>bare metal stent     | patients with ST-elevation myocardial<br>infarction within 12 hours from symptom<br>onset | Parallel groups<br>open                  |
| <b>ISAR-CABG</b> <i>ongoing</i><br>[NCT00611910]<br>n=NA<br>follow-up:             | DES<br>versus<br>BMS  | Bypass Graft Lesions  | open                                     |
| <b>PCI with drug-eluting stents vs CABG</b>  |   |   |  |
| <b>SYNTAX (diabetic) , 2010</b><br>[NCT00114972]<br>n=NA<br>follow-up: 1 year      | paclitaxel-eluting stents<br>versus<br>surgical revascularization                           | sub group of diabetic patients with left<br>main and/or 3-vessel disease                  | Parallel groups                          |
| <b>FREEDOM , 2012</b><br>[NCT00086450]<br>n=953/947<br>follow-up: 3.8 yrs (median) | percutaneous coronary stenting<br>versus<br>CABG  | patients with diabetes and multivessel<br>coronary artery disease                         | Parallel groups<br>open<br>international |
| <b>PCI with drug-eluting stents vs CABG</b>  |   |   |  |
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| <b>drug-eluting stents vs CABG</b>   |   |   |  |
| <b>Leipzig</b> <i>ongoing</i><br>[NCT00176397]<br>n=NA<br>follow-up:               | PCI With DES<br>versus<br>CABG  | left main coronary stenosis   |  |

More details and results :

- myocardial revascularization for coronary artery disease in all type of patient at <http://www.trialresultscenter.org/go-Q26>
- myocardial revascularization for coronary artery disease in diabetic patients at <http://www.trialresultscenter.org/go-Q30>
- myocardial revascularization for coronary artery disease in multivessels disease at <http://www.trialresultscenter.org/go-Q31>
- myocardial revascularization for coronary artery disease in single vessel disease at <http://www.trialresultscenter.org/go-Q32>

- Drug eluting stent for coronary artery disease in all type of patients at <http://www.trialresultscenter.org/go-Q206>
- Drug eluting stent for coronary artery disease in acute myocardial infarction at <http://www.trialresultscenter.org/go-Q208>
- Drug eluting stent for coronary artery disease in bypass graft lesion at <http://www.trialresultscenter.org/go-Q210>
- Drug eluting stent for coronary artery disease in unprotected left main artery stenosis at <http://www.trialresultscenter.org/go-Q212>

## References

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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]

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Entry terms: CYPHER TAXUS Promus Xience Biomatrix Nobori Endeavor, Drug-Eluting Stents, Drug Eluting Stents, Drug-Eluting Stent, Drug-Coated Stents, Drug Coated Stents, Drug-Coated Stent,