

# Clinical trials of antiplatelets drug for percutaneous coronary intervention in all type of patients

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## 1 6 months DAPT

Trial	Treatments	Patients	Trials design and methods
<b>6-month dual antiplatelet therapy vs 12 months dual antiplatelet</b>			
<b>EXCELLENT , 2011</b> [NCT00698607] n=721/722 follow-up:	dual antiplatelet therapy for six months versus dual antiplatelet therapy for one year	patients with coronary artery disease	
<b>6 months DAPT vs 24 months DAPT</b>			
<b>ITALIC ongoing</b> [NCT01476020] n=NA	-	-	
<b>12 months dual antiplatelet vs 6 months dual antiplatelet</b>			
<b>ISAR-SAFE , 2009</b> [NCT00661206] n=NA follow-up: 12 months	additional 6 month period of clopidogrel versus placebo	Patients on clopidogrel therapy at least 6 months after DES implantation, who do not require a reintervention	Parallel groups double blind

## References

### EXCELLENT, 2011:

Gwon HC, Hahn JY, Park KW, Song YB, Chae IH, Lim DS, Han KR, Choi JH, Choi SH, Kang HJ, Koo BK, Ahn T, Yoon JH, Jeong MH, Hong TJ, Chung WY, Choi YJ, Hur SH, Kwon HM, Jeon DW, Kim BO, Park SH, Lee NH, Jeon HK, Jang Y, Kim HS Six-month versus 12-month dual antiplatelet therapy after implantation of drug-eluting stents: the Efficacy of Xience/Promus Versus Cypher to Reduce Late Loss After Stenting (EXCELLENT) randomized, multicenter study. *Circulation* 2012;125:505-13 [[22179532](#)] [10.1161/CIRCULATIONAHA.111.059022](#)

### ITALIC, :

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### ISAR-SAFE, 2009:

Byrne RA, Schulz S, Mehilli J, Iijima R, Massberg S, Neumann FJ, ten Berg JM, Schmig A, Kastrati A Rationale and design of a randomized, double-blind, placebo-controlled trial of 6 versus 12 months clopidogrel therapy after implantation of a drug-eluting stent: The Intracoronary Stenting and Antithrombotic Regimen: Safety And Efficacy of 6 Months Dual Antiplatelet Therapy After Drug-Eluting Stenting (ISAR-SAFE) study. *Am Heart J* 2009 Apr;157:620-4.e2 [[19332187](#)] [10.1016/j.ahj.2008.12.019](#)

## 2 antiplatelet drugs

Trial	Treatments	Patients	Trials design and methods
<b>cilostazol vs aspirin</b>			
Kunishima , 1997 n=30/40	Cilostazol 200 mg qD unspecified durationg qD versus Aspirin 81 mg qD	-	
<b>cilostazol + aspirin vs aspirin</b>			
Sekiya , 1998 n=63/63	Cilostazol 200 mg qD x6mos Aspirin 81 mg qD versus Coumadin unspecified regimen Aspirin 81 mg qD	-	
<b>ticlopidine + aspirin vs aspirin</b>			
STARS (vs aspirin) , 1998 n=546/557 follow-up:	Ticlopidine 250 mg BID 4 wks Aspirin 325 mg qDDage/pj versus Aspirin 325 mg qD	-	
Hall , 1996 n=13/103	Ticlopidine 250 mg BID 1 mo Aspirin 325 mg qD 5 days versus Aspirin 325 mg qD	-	
<b>ticlopidine + aspirin vs coumadin + aspirin</b>			
STARS (vs coumadin+asp) , 1998 n=546/550 follow-up:	Ticlopidine 250 mg BID x4 wks Aspirin 325 mg qD versus Coumadin INR 2.5-3.0 x4 wks Aspirin 325 mg qDBID	-	
FANTASTIC , 1998 n=243/230	Ticlopidine 250 mg BID 6 wks Aspirin 100325 mg qD versus Coumadin INR 2.5-3.0 6 wks Aspirin 100325 mg qD/pj	-	
ISAR , 1996 n=257/260 follow-up:	Ticlopidine 250 mg BID 4 wks Aspirin 100 mg BIDage/pj versus Coumadin INR 3.5-4.5 4 wks Aspirin 100 mg BID	-	
MATTIS , 1998 n=177/173	Ticlopidine 250 mg BID 30 days Aspirin 250 mg qD versus Coumadin INR 2.5-3.0 x30 days Aspirin 250 mg qDg qD/pj	-	
Foussas , 2000 n=203/201	Ticlopidine 500mg qD 1 mo Aspirin 325 mg qD versus Coumadin INR 2.3-3.0 x4 wks Aspirin 325 mg qDg BID	-	

continued...

Trial	Treatments	Patients	Trials design and methods
<b>cilostazol + aspirin vs ticlopidine + aspirin</b>			
Kozuma , 2001 n=62/63	Cilostazol 200 mg qD x6 mos Aspirin 81162 mg qD versus Ticlopidine 200 mg qD x6 mos Aspirin 81162 mg qD	-	
Ochiai , 1999 n=25/25	Cilostazol 100 mg BID x6 mos Aspirin 81 mg TID versus Ticlopidine 100 mg BID x1 mo Aspirin 81 mg TID	-	
Park , 1999 n=247/243	Cilostazol 100 mg BID x6 mos Aspirin 200 mg qD versus Ticlopidine 250 mg BID x4 wks Aspirin 200 mg qD	-	
Yoon , 1999 n=147/149	Cilostazol 100 mg BID x30 days Aspirin 100 mg qD versus Ticlopidine 250 mg BID x30 days Aspirin 100 mg qD	-	
Kamishirado , 2002 n=65/65	Cilostazol 200 mg qD x6 mos Aspirin 81 mg qD versus Ticlopidine 200 mg qD x6 mos Aspirin 81 mg qD	-	
<b>clopidogrel + aspirin vs ticlopidine + aspirin</b>			
Mller , 2000 n=355/345	Clopidogrel 75 mg qD x4 wks Aspirin 100 mg qD versus Ticlopidine 250 mg BID x4 wks Aspirin 100 mg qD	-	
CLASSICS , 2000 n=345/340	Clopidogrel 300mg x1, 75 mg qD x4 wks Aspirin 325 mg qDyp versus Ticlopidine 250 mg BID x4 wks Aspirin 325 mg qD	-	
TOPPS , 2001 n=494/522	Clopidogrel 300 mg x1, unsp. Dose x2 wks Aspirin 325 mg qD versus Ticlopidine 500 mg x1, unsp. Dose x2 wks Aspirin 325 mg qD	-	
Piamsomboon , 2001 n=37/31	Clopidogrel 300 mg x1, 75 mg qD x4 wks Aspirin 300 mg BID x4 wks, 300 mg qD versus Ticlopidine 250 mg po BID x4 wks Aspirin 300 mg BID x4 wks, 300 mg qD	-	

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Kunishima T, Musha H, Eto F, Iwasaki T, Nagashima J, Masui Y, So T, Nakamura T, Oohama N, Murayama M A randomized trial of aspirin versus cilostazol therapy after successful coronary stent implantation. *Clin Ther* 1997;19:1058-66 [[9385493](#)]

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### **STARS (vs aspirin), 1998:**

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### **STARS (vs coumadin+asp), 1998:**

Leon MB, Baim DS, Popma JJ, Gordon PC, Cutlip DE, Ho KK, Giambartolomei A, Diver DJ, Lasorda DM, Williams DO, Pocock SJ, Kuntz RE A clinical trial comparing three antithrombotic-drug regimens after coronary-artery stenting. Stent Anticoagulation Restenosis Study Investigators. *N Engl J Med* 1998;339:1665-71 [[9834303](#)]

### **FANTASTIC, 1998:**

Bertrand ME, Legrand V, Boland J, Fleck E, Bonnier J, Emmanuelson H, Vrolix M, Missault L, Chierchia S, Casaccia M, Niccoli L, Oto A, White C, Webb-Peploe M, Van Belle E, McFadden EP Randomized multicenter comparison of conventional anticoagulation versus antiplatelet therapy in unplanned and elective coronary stenting. The full anticoagulation versus aspirin and ticlopidine (fantastic) study. *Circulation* 1998;98:1597-603 [[9778323](#)]

### **ISAR, 1996:**

Schmig A, Neumann FJ, Kastrati A, Schlen H, Blasini R, Hadamitzky M, Walter H, Zitzmann-Roth EM, Richardt G, Alt E, Schmitt C, Ulm K A randomized comparison of antiplatelet and anticoagulant therapy after the placement of coronary-artery stents. *N Engl J Med* 1996;334:1084-9 [[8598866](#)]

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Urban P, Macaya C, Rupprecht HJ, Kiemeneij F, Emanuelsson H, Fontanelli A, Pieper M, Wesseling T, Sagnard L Randomized evaluation of anticoagulation versus antiplatelet therapy after coronary stent implantation in high-risk patients: the multicenter aspirin and ticlopidine trial after intracoronary stenting (MATTIS). *Circulation* 1998;98:2126-32 [[9815866](#)]

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Ochiai M, Eto K, Takeshita S, Yokoyama N, Oshima A, Kondo K, Sato T, Isshiki T Impact of cilostazol on clinical and angiographic outcome after primary stenting for acute myocardial infarction. *Am J Cardiol* 1999;84:1074-6, A6, A9 [[10569666](#)]

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### 3 dual antiplatelet therapy

Trial	Treatments	Patients	Trials design and methods
<b>clopidogrel+aspirin vs aspirin</b>			
REAL-LATE, ZEST-LATE , 2010 [NCT00484926] n=1357/1344 follow-up: 19.2 months	clopidogrel plus aspirin versus aspirin alone	patients who had received drugeluting stents and had been free of major adverse cardiac or cerebrovascular events and major bleeding for a period of at least 12 months	Parallel groups open South Korea
<b>Endeavor stent and three months of DAPT vs standard 12-month DAPT and other DES</b>			
RESET [NCT01145079] n=NA follow-up:	-	-	
<b>Monitoring Adjusted Antiplatelet Treatment vs Common Antiplatelet Treatment</b>			
ARTIC adjusted <i>ongoing</i> n=NA	-	-	
<b>high-dose clopidogrel vs normal-dose clopidogrel</b>			
GRAVITAS, 2011 [NCT00645918] n=1109/1105 follow-up: 6 months	High-dose clopidogrel (600-mg initial dose, 150 mg daily thereafter) versus regular clopidogrel dose	patients receiving drug-eluting stents with high residual platelet activity (PRU>=230) on the regular clopidogrel dose (platelet-function tests with the VerifyNow assay 12 to 24 hours after PCI)	Parallel groups open North America

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Park SJ, Park DW, Kim YH, Kang SJ, Lee SW, Lee CW, Han KH, Park SW, Yun SC, Lee SG, Rha SW, Seong IW, Jeong MH, Hur SH, Lee NH, Yoon J, Yang JY, Lee BK, Choi YJ, Chung WS, Lim DS, Cheong SS, Kim KS, Chae JK, Nah DY, Jeon DS, Seung KB, Jang JS, Park HS, Le Duration of dual antiplatelet therapy after implantation of drug-eluting stents. *N Engl J Med* 2010;362:1374-82 [20231231] [10.1056/NEJMoa1001266](https://doi.org/10.1056/NEJMoa1001266)

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Hong M-K A new strategy for discontinuation of dual antiplatelet therapy: real safety and efficacy of 3-month dual antiplatelet therapy following zotarolimuseluting stent implantation: RESET trial Presented at: American College of Cardiology Scientific Session; 2012, March 24; Chicago, IL

### ARTIC adjusted, :

Collet JP, Cuisset T, Rang G, Cayla G, Elhadad S, Pouillot C, Henry P, Motreff P, Carri D, Boueri Z, Belle L, Van Belle E, Rousseau H, Aubry P, Monsu J, Sabouret P, O'Connor SA, Abtan J, Kerneis M, Saint-Etienne C, Barthlmy O, Beygui F, Silvain J, M Bedside Monitoring to Adjust Antiplatelet Therapy for Coronary Stenting. *N Engl J Med* 2012 Nov 4; [23121439] [10.1056/NEJMoa1209979](https://doi.org/10.1056/NEJMoa1209979)

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Price MJ, Berger PB, Teirstein PS, Tanguay JF, Angiolillo DJ, Spriggs D, Puri S, Robbins M, Garratt KN, Bertrand OF, Stillablower ME, Aragon JR, Kandzari DE, Stinis CT, Lee MS, Manoukian SV, Cannon CP, Schork NJ, Topol EJ Standard- vs high-dose clopidogrel based on platelet function testing after percutaneous coronary intervention: the GRAVITAS randomized trial. *JAMA* 2011 Mar 16;305:1097-105 [21406646] [10.1001/jama.2011.290](https://doi.org/10.1001/jama.2011.290)

## 4 prolonged dual antiplatelet therapy

Trial	Treatments	Patients	Trials design and methods
<b>24 months of dual antiplatelet treatment vs 6 months dual antiplatelet</b>			
PRODIGY , 2011 [NCT00611286] n=NA follow-up: 2 years	24 months of dual antiplatelet treatment (clopidogrel plus aspirin) versus 6 months of dual antiplatelet treatment (clopidogrel plus aspirin)	patients (74 with acute coronary syndromes and 26 with stable angina) who underwent stenting	Parallel groups open
<b>18 months dual antiplatelet vs 12 months dual antiplatelet</b>			
ARTIC (extended dual antiplatelet) ongoing [NCT00827411] n=NA follow-up:	Pursuit of a dual oral antiplatelet therapy (aspirin and clopidogrel) beyond one year versus Interruption of clopidogrel therapy after one year	-	
<b>prolonged dual antiplatelet therapy vs 12 months dual antiplatelet</b>			
DES-LATE , 2010 [NCT00484926] n=1357/1344 follow-up: 19.2 mo	dual antiplatelet therapy (clopidogrel plus aspirin) versus aspirin alone	patients who had received drug eluting stents and had been free of major adverse cardiac or cerebrovascular events and major bleeding for a period of at least 12 months	Parallel groups open South Korea
OPTIMIZED ongoing n=NA	-	-	

continued...

Trial	Treatments	Patients	Trials design and methods
<b>DAPT</b> <i>ongoing</i> [NCT00977938] n=20645 follow-up:	additional 18 months of thienopyridine treatment versus placebo	Subjects Undergoing Percutaneous Coronary Intervention With Either Drug-eluting Stent or Bare Metal Stent Placement for the Treatment of Coronary Artery Lesions	

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Valgimigli M, Campo G, Monti M, Vranckx P, Percoco G, Tumscitz C, Castriota F, Colombo F, Tebaldi M, Fuc G, Kubbaheh M, Cangiano E, Minarelli M, Scalone A, Cavazza C, Frangione A, Borghesi M, Marchesini J, Parrinello G, Ferrari R Short- versus long-term duration of dual-antiplatelet therapy after coronary stenting: a randomized multicenter trial. *Circulation* 2012;125:2015-26 [22438530] [10.1161/CIRCULATIONAHA.111.071589](https://doi.org/10.1161/CIRCULATIONAHA.111.071589)

### ARTIC (extended dual antiplatelet), 0:

### DES-LATE, 2010:

Park SJ, Park DW, Kim YH, Kang SJ, Lee SW, Lee CW, Han KH, Park SW, Yun SC, Lee SG, Rha SW, Seong IW, Jeong MH, Hur SH, Lee NH, Yoon J, Yang JY, Lee BK, Choi YJ, Chung WS, Lim DS, Cheong SS, Kim KS, Chae JK, Nah DY, Jeon DS, Seung KB, Jang JS, Park HS, Le Duration of Dual Antiplatelet Therapy after Implantation of Drug-Eluting Stents. *N Engl J Med* 2010 Mar 15;: [20231231] [10.1056/NEJMoa1001266](https://doi.org/10.1056/NEJMoa1001266)

### OPTIMIZED, :

### DAPT, :

Mauri L, Kereiakes DJ, Yeh RW, Driscoll-Shempp P, Cutlip DE, Steg PG, Normand SL, Braunwald E, Wiviott SD, Cohen DJ, Holmes DR Jr, Krucoff MW, Hermiller J, Dauerman HL, Simon DI, Kandzari DE, Garratt KN, Lee DP, Pow TK, Lee PV, Rinaldi MJ, Massaro JM Twelve or 30 Months of Dual Antiplatelet Therapy after Drug-Eluting Stents. *N Engl J Med* 2014 Nov 16;: [25399658] [10.1056/NEJMoa1409312](https://doi.org/10.1056/NEJMoa1409312)

## 5 prolonged dual antiplatelet therapy antiplatelet th

Trial	Treatments	Patients	Trials design and methods
<b>prolonged dual antiplatelet therapy vs 12 months dual antiplatelet</b>			
<b>DES-LATE</b> , 2010 [NCT00484926] n=1357/1344 follow-up: 19.2 mo	dual antiplatelet therapy (clopidogrel plus aspirin) versus aspirin alone	patients who had received drug eluting stents and had been free of major adverse cardiac or cerebrovascular events and major bleeding for a period of at least 12 months	Parallel groups open South Korea
<b>OPTIMIZED</b> <i>ongoing</i> n=NA	-	-	
<b>DAPT</b> <i>ongoing</i> [NCT00977938] n=20645 follow-up:	additional 18 months of thienopyridine treatment versus placebo	Subjects Undergoing Percutaneous Coronary Intervention With Either Drug-eluting Stent or Bare Metal Stent Placement for the Treatment of Coronary Artery Lesions	

## References

### DES-LATE, 2010:

Park SJ, Park DW, Kim YH, Kang SJ, Lee SW, Lee CW, Han KH, Park SW, Yun SC, Lee SG, Rha SW, Seong IW, Jeong MH, Hur SH, Lee NH, Yoon J, Yang JY, Lee BK, Choi

YJ, Chung WS, Lim DS, Cheong SS, Kim KS, Chae JK, Nah DY, Jeon DS, Seung KB, Jang JS, Park HS, Le Duration of Dual Antiplatelet Therapy after Implantation of Drug-Eluting Stents. N Engl J Med 2010 Mar 15;: [20231231] [10.1056/NEJMoa1001266](https://doi.org/10.1056/NEJMoa1001266)

**OPTIMIZED, :**

**DAPT, :**

Mauri L, Kereiakes DJ, Yeh RW, Driscoll-Shempp P, Cutlip DE, Steg PG, Normand SL, Braunwald E, Wiviott SD, Cohen DJ, Holmes DR Jr, Krucoff MW, Hermiller J, Dauerman HL, Simon DI, Kandzari DE, Garratt KN, Lee DP, Pow TK, Lee PV, Rinaldi MJ, Massaro JM Twelve or 30 Months of Dual Antiplatelet Therapy after Drug-Eluting Stents. N Engl J Med 2014 Nov 16;: [25399658] [10.1056/NEJMoa1409312](https://doi.org/10.1056/NEJMoa1409312)

## 6 triple antiplatelet

Trial	Treatments	Patients	Trials design and methods
<b>triple therapy vs dual antiplatelet therapy</b>			
<b>WOEST</b> [NCT00769938] n=284/279 follow-up:	oral anticoagulants, aspirin and clopidogrel versus oral anticoagulants, clopidogrel	-	
<b>triple antiplatelet vs dual antiplatelet therapy</b>			
<b>CILON-T , 2010</b> n=457/458 follow-up: 6 mo	triple antiplatelet therapy with aspirin, clopidogrel, and cilostazol for 6 month versus dual antiplatelet therapy	real-world patients undergoing PCI	Parallel groups

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**WOEST, :**

**CILON-T, 2010:**

Lee SP, Suh JW, Park KW, Lee HY, Kang HJ, Koo BK, Chae IH, Choi DJ, Rha SW, Bae JW, Cho MC, Kwon TG, Bae JH, Kim HS Study design and rationale of 'Influence of Cilostazol-based triple anti-platelet therapy on ischemic complication after drug-eluting stent implantation (CILON-T)' study: A multicenter randomized trial evaluating the efficacy of Cilostazol on ischemic vascular complications after drug-eluting stent implantation for coronary heart disease. Trials 2010;11:87 [20735821] [10.1186/1745-6215-11-87](https://doi.org/10.1186/1745-6215-11-87)

Suh JW, Lee SP, Park KW, Lee HY, Kang HJ, Koo BK, Cho YS, Youn TJ, Chae IH, Choi DJ, Rha SW, Bae JH, Kwon TG, Bae JW, Cho MC, Kim HS Multicenter randomized trial evaluating the efficacy of cilostazol on ischemic vascular complications after drug-eluting stent implantation for coronary heart disease: results of the CILON-T (influence of CILostazol-based triple antiplatelet therapy ON ischemic complication after drug-eluting stenT implantation) trial. J Am Coll Cardiol 2011;57:280-9 [21232664] [10.1016/j.jacc.2010.08.631](https://doi.org/10.1016/j.jacc.2010.08.631)

## 7 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.



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