

# **Antiplatelet therapy in PCI for SCAD**

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## Early and Long-Term Risk of Ischemic Events

**Peri-procedural MI  
and acute  
stent thrombosis**

 **Within 48 hours**


 **Incidence: 6-8%**

**Subacute stent  
thrombosis and  
spontaneous MI**

 **Within 30 days**

 **Incidence: 6.5-8.5%**

**Death or MI**

 **1 year**

 **Incidence: 10-12%**

**Complications of PCI / Stent Placement**

**Complications of Atherothrombotic Disease**

## Recommendations for antithrombotic treatment in SCAD patients undergoing PCI

Recommendations for PCI	Class <sup>a</sup>	Level <sup>b</sup>	Ref <sup>c</sup>
<b>Pretreatment with antiplatelet therapy</b>			
Treatment with 600 mg clopidogrel is recommended in elective PCI patients once anatomy is known and decision to proceed with PCI preferably 2 hours or more before the procedure.	I	A	789–792
Pretreatment with clopidogrel may be considered in patients with high probability for significant CAD.	IIb	C	
In patients on a maintenance dose of 75 mg clopidogrel, a new loading dose of 600 mg or more may be considered once the indication for PCI is confirmed.	IIb	C	
<b>Antiplatelet therapy during PCI</b>			
ASA is indicated before elective stenting.	I	B	776,793,794
ASA oral loading dose of 150–300 mg (or 80–150 mg i.v.) is recommended if not pre-treated.	I	C	
Clopidogrel (600 mg loading dose or more, 75 mg daily maintenance dose) is recommended for elective stenting.	I	A	795–798
GP IIb/IIIa antagonists should be considered only for bail-out.	IIa	C	
<b>Antiplatelet therapy after stenting</b>			
DAPT is indicated for at least 1 month after BMS implantation.	I	A	791,799–801
DAPT is indicated for 6 months after DES implantation.	I	B	799,802,803
Shorter DAPT duration (<6 months) may be considered after DES implantation in patients at high bleeding risk.	IIb	A	804,805
Life-long single antiplatelet therapy, usually ASA, is recommended.	I	A	776,794
Instruction of patients about the importance of complying with antiplatelet therapy is recommended.	I	C	-
DAPT may be used for more than 6 months in patients at high ischaemic risk and low bleeding risk.	IIb	C	-
<b>Anticoagulant therapy</b>			
Unfractionated heparin 70–100 U/kg.	I	B	806
Bivalirudin (0.75 mg/kg bolus, followed by 1.75 mg/kg/hour for up to 4 hours after the procedure) in case of heparin-induced thrombocytopenia.	I	C	-
Bivalirudin (0.75 mg/kg bolus, followed by 1.75 mg/kg/hour during the procedure) in patients at high bleeding risk.	IIa	A	783–785
Enoxaparin i.v. 0.5 mg/kg.	IIa	B	786,788,807

# Cessation of dual antiplatelet treatment and cardiac event after percutaneous coronary intervention (PARIS): 2 year results from a prospective observational study

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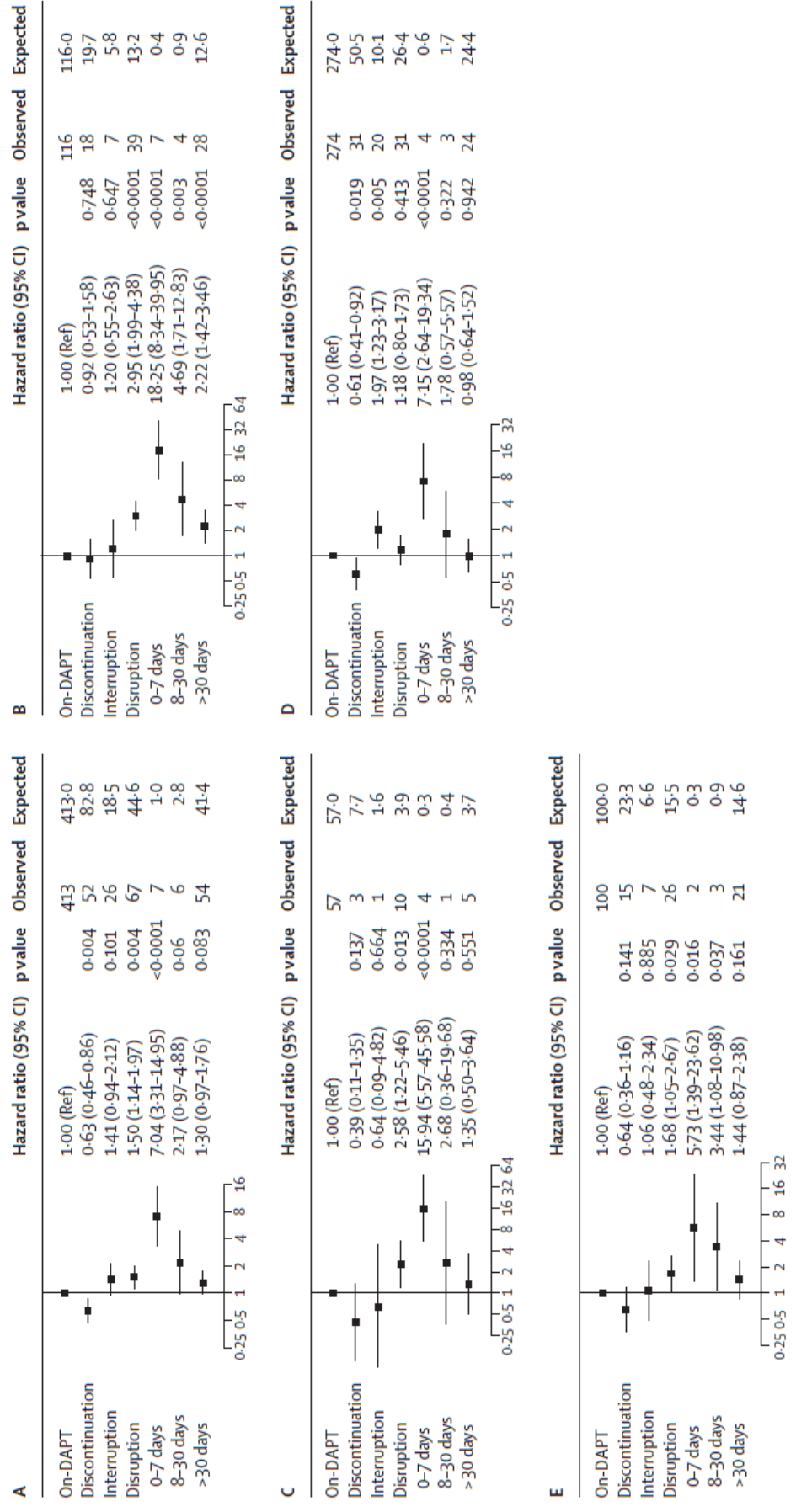


Figure 3: Risk of ischaemic endpoints. Results of Cox model analyses for risk of major adverse cardiovascular event (MACE; A), spontaneous myocardial infarction (B), definite or probable stent thrombosis (C), target lesion revascularisation (D), and cardiac death (E). Boxes are hazard ratio point estimates and error bars are 95% CIs. DAPT=dual antiplatelet therapy.