

Table 11. Perioperative Prophylactic Anti-Ischemic Medications and Cardiac Morbidity

Author	Procedure	n	Control	Drug	Ischemia*		MI		Death	
					Control	Drug	Control	Drug	Control	Drug
<i>Nitroglycerin</i> Coriat 1984 (183)	Carotid endarterectomy	45	0.5 mcg per kg per min nitroglycerin	1 mcg per kg per min nitroglycerin intraoperatively	14/22 (64%)	4/23* (17%)	0/22 (0)	0/23 (0)		
Dodds 1993 (184)	Noncardiac	45	Placebo	0.9 mcg per kg per min nitroglycerin intraoperatively	7/22 (32%)	7/23 (30%)	1/22 (5%)	0/23 (0)		
<i>Calcium channel blockers</i> Godet 1987 (185)	Vascular	30	Placebo	3 mcg per kg per min diltiazem intraoperatively	11/15 (73%)	6/15 (40%)	0/15 (0)	0/15 (0)		
<i>Beta-adrenergic blockers</i> Pasternack 1987 (186)	Abdominal aortic aneurysmorrhaphy	83	Case-control	50 mg PO metoprolol preoperatively			9/51 (17.6%)	1/32† (3.1%)		
Pasternack 1989 (58)	Vascular	200	Unblinded	50 mg PO metoprolol preoperatively	1.8+3.2* episodes	0.8+1.6 episodes	0/39 (0)	0/89 (0)		
Stone 1988 (55)	Noncardiac Mild hypertension	128	Placebo	labetalol atenolol olprenolol	11/39 (28%)	2/89* (2%)				
Poldermans 1999 (252)	Vascular	112	Unblinded	PO preoperatively 5 to 10mg PO			9/53 (17%)	0/59 (0)	9/53 (17%)	2/59 (3%)
Raby 1999 (307)	Vascular	26	Placebo	bisoprolol IV esmolol	8/11 (13%)	5/15 (33%)				
Wallace 1998 (305)/ Mangano 1996 (251)	Noncardiac	200	Placebo	10 to 20 mg IV or 50 to 100 mg PO atenolol	39/101 (39%)	24/99 (24%)			(at 6 months) 10/101 (10%)	1/99 (1%)
<i>Alpha agonists</i> McSPI Group 1997 (309)	Noncardiac	300	Placebo	0.75 mcg per kg per h 1.5 mcg per kg per h	35/103 (34%)	20/98 (20%)	6/103 (6%)	2/98 (2%)		
Ellis 1994 (311)	Noncardiac	61	Placebo	mivazerol 0.2 to 0.3 mcg clonidine	5/24 (21%)	1/28 (4%)				
Oliver 1999 (308)	Noncardiac Vascular	1897 904	Placebo	1.5 mcg per kg per h mivazerol			79/941 (8%)	78/946 (8%)	25/940 (3%)	13/946 (1%)
Stuhmeier 1996 (310)	Vascular	297	Placebo	2 mcg per kg PO clonidine	59/152 (39%)	35/145 (24%)	4/152 (3%)	0/145 (0)	1/152 (1%)	2/145 (1%)

IV indicates intravenous; MI, myocardial infarction; PO, by mouth.

*Myocardial ischemia.

†p less than 0.05 for drug vs. control.