

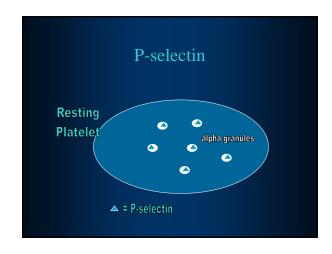
Platelet activation is increased in peripheral arterial disease

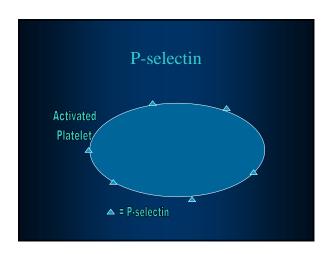
K. Cassar, MD, FRCS(Ed), P. Bachoo, FRCS(Gen Surg), I. Ford, PhD, M. Greaves, MD, FRCP, FRCPath, and J. Brittenden, MD, FRCS(Gen Surg), Aberdem, Scaland

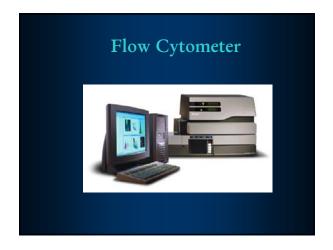
(J Vasc Surg 2003;38:99-103.)

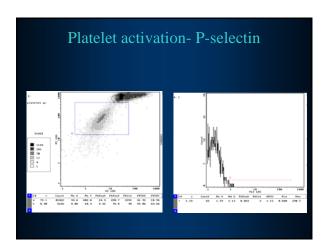
Observational study: controls, claudicants, criticals — 100 subjects

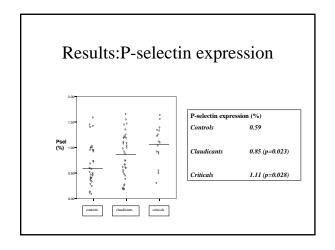
P-selectin — marker of platelet activation



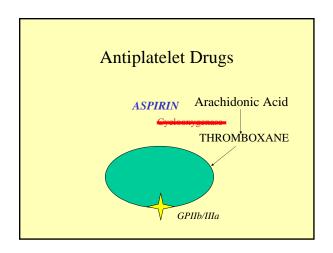






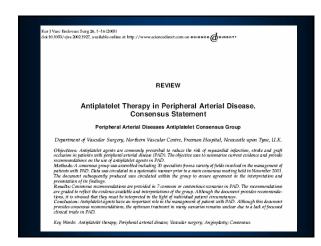








Joint British recommendations: 1998 • Patients with PAD should be managed in the same way as those with established coronary heart disease



Anti-thrombotic Trialists' Collaboration Meta-analyses (2002)• 3123 patients with intermittent claudication in 26 trials No (%) of vascular events No of trials Allocated Adjusted Observed-Category of trial with data antiplatelet control expected Variance Peripheral arterial disease: Intermittent claudication 26 201/3123 249/3140 -22.3 86.6 (7.9)(6.4)



Are National Cardiac Guidelines being Applied by Vascular Surgeons?

K. Cassar, ¹ J. J. F. Belch ² and J. Brittenden^{1*}

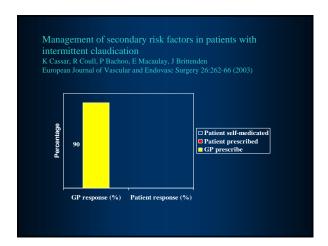
¹Vascular Surgical Unit, University of Aberdaen, Aberdaen, and ²Peripheral Vascular Disease Research Unit, University of Dander, Durine, Scotland, UK

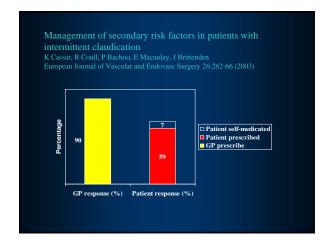
Introduction, National conine, guideline command the patients with internation databation beautiful to managed in the same caps at these with confident command, beat family best databate. This inverse is the internation databation beat thinks of occular consultants to risk factor management in one patient attending their cale patient clinic.

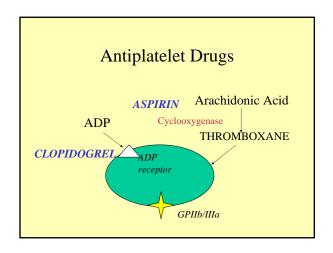
Methods, An amongment postal questionaire uses sent and 181 Amenher of the Vascular Surgical Society in June 200.

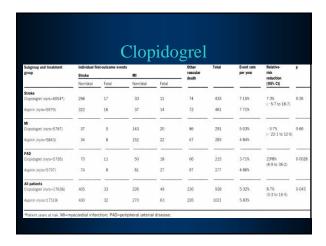
Questions user asked about the foliastiving measures serum dotaterol levels, the presence of abatete, antiquisated though, exceive regiones, bold pressure, throughpathic, moobing and the confidentiality for leading them and experts. 45% would not be a confidential to the confidence and experts and a deal one as infault chapterol lacering theograp. Once a guarre of confination scould a recommend historical theory. Only 50% had acces 10m accessfrom a confidence of the vascular to promound in control through the patients of the confidential control and the score to a vascular physical, and 65% would profess have the approach and the score to a vascular physical, and 65% would profess have the approach and the score of the analysis of the prevention of coronary disease in clinical practice are not being applied to classificants.

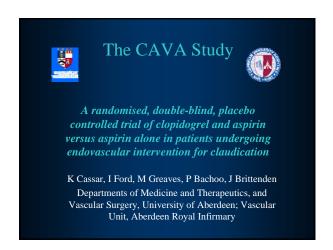
Eur J Vasc Endowasc Surg 26, 623–628 (2003)

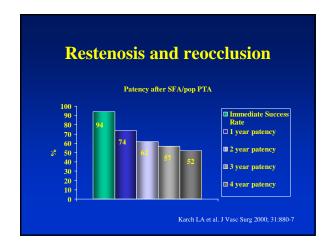






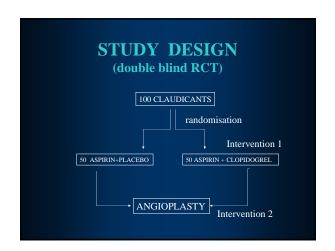


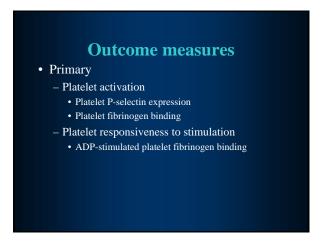


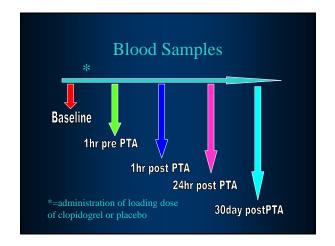


Hypothesis

- In patients undergoing PTA/stenting clopidogrel and aspirin in combination reduce platelet activation and platelet responsiveness more effectively than aspirin alone
- Power calculation: 100 patients p<0.05, α=0.8





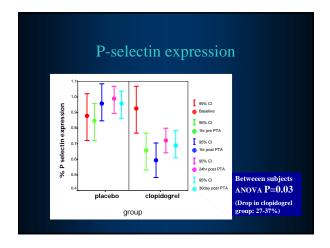


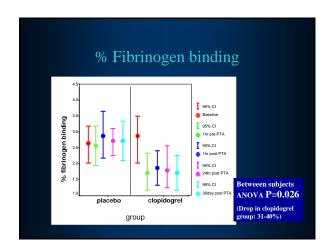
Statistical Analysis

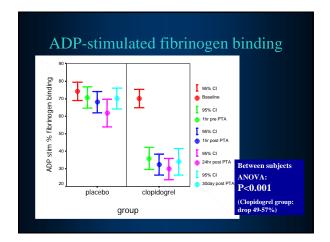
- SPSS Version 10.1
- ANOVA:mixed factorial
- P<0.05 statistically significant
- Chi-squared test/Fisher's exact test: differences in adverse events between the two groups

Resi	ults: flow o	f j	participants	
	Randomi	ised	I n=132	
	65: (75mg Aspirin + Placebo)		67: (75mg Aspirin + 75mg Clopidogrel	
	49 Angioplasty		54 Angioplasty	
	No patients wer	e lo		

Characteristic	Placebo (n=65)	Clopidogrel (n=67)	
Males:females	50:15	52:15	
Mean Age/years (Range)	65.4 (46-80)	66.1 (43-80)	
Smoking (%)			
never	3 (4.6)	5 (7.5)	
ex-smoker > 1year	27 (41.5)	28 (41.8)	
ex-smoker < 1 year	13 (20.0)	11 (16.4)	
smoker	22 (33.8)	23 (34.3)	
Diabetes (%)	11 (16.9)	12 (17.9)	
Mean Serum cholesterol mmol/L (STD)	3.68 (2.23)	4.15 (2.02)	
Ankle Brachial Pressure Index	0.63	0.65	







Adverse Events

- No difference in bleeding complications
- No patients required surgical intervention for bleeding

Results

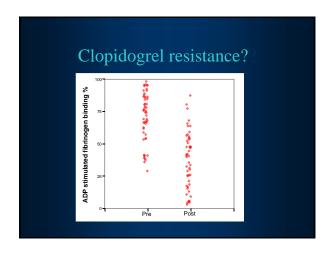
 Clopidogrel-aspirin combination compared to aspirin alone significantly reduces: platelet activation and platelet responsiveness to stimulation

Conclusion

- The combination of aspirin-clopidogrel may:
 - reduce the risk of cardiovascular events
 - reduce the incidence of restenosis and reocclusion after peripheral angioplasty in claudicants
- Need for Randomised controlled trials with clinical outcome measures

Is the antiplatelet drug having an antiplatelet effect in this patient?

Aspirin Resistance



Future research

- Development of reliable simple point-ofcare test of platelet function:
 - To allow correlation between platelet activation and risk of vascular events
 - to guide use of antiplatelet treatment

