LETTERS TO THE EDITOR

Scope
Heart welcomes letters commenting on papers published in the journal in the previous six months. Topics not related to papers published earlier in the journal may be introduced as a letter; letters reporting original data may be sent for peer review.

Presentation
Letters should be:
- not more than 600 words and six references in length
- typed in double spacing (fax copies and paper copy only)
- signed by all authors. They may contain short tables or a small figure. Please send a copy of your letter on disk. Full instructions to authors appear in the July 1996 issue of Heart (page 93).

Evaluation of mortality and morbidity during four years after late thrombolysis in acute myocardial infarction
Sir,-The effect of late coronary reperfusion after acute myocardial infarction (AMI) remains contentious. Coronary angiography is the gold standard for determining vessel patency; however, routine early catheterisation after thrombolytic therapy is not practi-
cal for most patients with AMI. Continuous ST segment monitoring and imaging with "m"Tc-labelled Sestamibi are useful mark-
ers of successful reperfusion and coronary artery patency after thrombolysis. In a pre-
liminary study we found lower 3 year mor-
tality in 87 AMI patients thrombolysed within 20 hours than in 65 AMI patients treated with heparin alone. In present study to determine whether late patency of the infarct-related artery affects the mortality and morbidity in AMI, we studied 228 patients (150 males and 78 females, aged 57 (5) treated with alteplase (rt-PA) (group 1: n = 155) or heparin (group 2: n = 73). Patients were eligible if they were <70 and their duration of pain was > 6 h (from 6-5 to 20 h after onset of symptoms). The efficacy of rt-PA thrombolysis, in terms of patency achieved, was assessed by non-invasive clinical criteria: continuous ST segment monitoring, early MB-CK peak (< 20 h), imaging with "m"Tc-Sestamibi, sudden decrease in chest pain, and serial changes in abnormal wall motion. Four-year mortality was 6% in rt-PA patients (group 1) and 16.6% in those given heparin alone (group 2: n = 20). Reinfarction; need for bypass surgery or PTCA or admission to hospital; symptoms of angina pectoris and congestive heart fail-
ure; return to work; and the requirement for various medications during the four years did not differ significantly between the groups (P = NS). However, the cumulative frequency of patients with ST depressions of > 1 mm at < 100 w of exercise and MIBI-defects was 12% in group 1 and 31% in group 2 (P < 0.05).

Our results show that late thrombolysis with rt-PA in AMI reduced four year mor-
tality but did not have any effect on aspects of morbidity. This study supports the con-
cept that thrombolysis reduced the incidence of residual ischaemia postinfarction,
although it was given late (6-5-20 h) after onset of symptoms.

Catheter ablation for successful management of left posterior fascicular tachycardia: an approach guided by recording of fascicular potentials
Sir,-We read with great interest the paper Katritsis et al (Heart 1996;75:384-8) on catheter ablation of the left posterior fascicle for fascicular tachycardia (FT).

We have successfully used radiofrequency energy to the left posterior fascicle to treat two patients with FT. We confirm the observ-
ations made. We did, however, approach the left ventricular septum using a trans-sep-
tal technique and we believe that approaching the septum through the mitral valve allows better catheter manipulation and stability. One of our patients was treated during fascicular tachycardia. This should be considered as an alternative approach to the retrograde one described by Katritsis et al.

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Dress has correlated with degree of chest pain: a description of patients awaiting revascularisation
Sir,-I congratulate Bengtson et al for estab-
lishing that fear and uncertainty are impor-
tant factors in patients awaiting revascularisation procedures. We too identified fear and uncertainty in patients during a stress-
ful period when they had more silent myocardial ischaemia on ambulatory ST Holter monitoring (together with a concomi-
tant increase in urinary excretion of cortisol and noradrenaline) than they did during a later (non-stressful) period. Fear and uncer-
tainty are therefore relevant as independent risk factors in ischaemic heart disease. Anxiety and depression, both significantly associated with pain in Bengtson's study, have already been identified as important precursors of further ischaemic events and sudden cardiac death. Though it is true that dyspnoea may indeed reflect heart failure, as discussed in Bengtson's paper, hyperventila-
tion is a frequent complication of fear and anxiety, and has been documented in patients with angiographically proven coro-
ary heart disease. Because it not only confounds the clinical picture (vis dyspnoea and increased reports of chest pain) but also low-
ers the threshold to ischaemia, hyperventila-
tion should be looked for and adequately treated.

There is now substantial evidence that

1 Fibinolytic Therapy Trialists (FTT) Collaborative Group. Indications for fibrinolytic therapy in suspected acute myocardial infarction: collaborative overview of early mortality and major morbidity results from all ran-


3 Substantial evidence that