## Serum endothelin in patients with acute myocardial infarction and ischemic heart disease

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Endothelin is newly discovered powerful vasoconstrictorpeptide that may be secreted from the vessel wall endotheliumin response to various stimuli such as hypoxia, or cold. To examine whether endothelin modulates coronary tonein acute myocardial infarction (AMI), plasma immunoreactiveendothelin-l "tr-sr-i II were measured in twenty patients withacute myocardial infarction diagnosed on standardelectrocardiographic changes, and serum enzymes criteria, twenty patients with stable angina pectoris (SAP) two daysafter exercise stress test, and, twenty control subjects. Other investigations were done such as serum uric acid, creatine kinase, fasting blood sugar, cholesterol, andtriglycerides. Wall motion abnormality index (WMAI) wasdone for patients with acute myocardial infarction. Bloodsamples in patients with AMI were taken on the first day ofadmission, on the second day and on the fourteenth day. In patients with SAP, blood samples were taken two daysafter exercise stress test. In patients with AMI, the plasmalevel of ir-ET-I was elevated in the first and seventh days of AMI, and, DROPped by the fourteenth day to normal controllevels. There was no difference between patients with SAP, and, control subjects. The plasma ir-ET level showed a positive correlation with AMI, and, was highest in patients in whomKillip Subset was Class IV.It has been found that:1 --Plasma ir-ETi- I increased in the acute phase of AMI.2 - The elevation in plasma ir-ET I can be considered among other factors partially responsible in establishing AMI.3 -There is a direct correlation between the degree of risein ir-E'l'