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**THE CORRELATION BETWEEN TISSUE FACTOR
PATHWAY INHIBITOR AND CORONARY HEART DISEASE**

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Objectives To investigate the changes of plasma quantity of TFPI in different type of CHD patients and the association between in Coronary Heart Disease.

Methods This study was conducted with 66 CHD patients and 22 healthy adults. The blood specimens were collected before using LMWH in ACS patients; and the blood specimens of SAP patients and healthy adults were collected on the second morning with a fasting status. After centrifugal treatment, the plasma was saved in an Ultra-low temperature refrigerator. Coronary angiography was carried out on each one of the selected objects, and the quantity levels of total TC, TG, HDL-C and LDL-C was detected. The plasma TFPI quantity was measured by ELISA. The data were statistically analysed by SPSS software.

Results (1) The plasma TFPI-1 antigen levels were higher in the AMI and UAP groups than in the SAP and control groups (32.05 ± 8.52 and 31.49 ± 10.61 ng/ml vs 19.93 ± 9.22 and 19.21 ± 9.60 ng/ml, $p < 0.05$), there was no significant difference between the AMI group and UAP group, SAP group and control group. (2) The plasma TFPI-2 antigen levels were higher in the AMI and UAP groups than in the SAP and control groups (4.56 ± 0.96 and 4.73 ± 1.04 ng/ml vs 2.43 ± 1.07 and 2.06 ± 0.64 ng/ml, $p < 0.05$), there was no significant difference between the AMI group and UAP group, SAP group and control group. (3) The plasma TFPI-1 was higher in those patients who had 3 sick coronaries and 2 coronaries than those who had 1 sick coronary ($p < 0.05$), there was no difference of TFPI-2 among the three groups ($p > 0.05$). (4) There was a positive relationship between the level of plasma TFPI-1 and the level of serum TC, LDL-C ($r = 0.633$ and $r = 0.386$, $p < 0.01$), between the level of plasma TFPI-2 and the quantities of serum TC, LDL-C ($r = 0.248$ and $r = 0.235$, $p < 0.01$), there were no significant relationship between TFPI-1, TFPI-2 and the level of TG, HDL-C ($p > 0.05$). (5) Spearman analysis showed there was no positive relationships between the plasma TFPI-1 and TFPI-2 and the number of involved branches of coronary arteries ($p > 0.05$).

Conclusions The plasma TFPI antigen levels of ACS patients are higher than those of SAP patients and healthy adults, There were positive relationships between plasma TFPI-1, TFPI-2 quantities and serum TC, LDL-C quantities.