

factor increases greatly in CHD patients, Pigment epithelium-derived factor may be an important factor of atherosclerosis.

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# THE CHANGE OF SERUM LEVEL OF PIGMENT EPITHELIUM-DERIVED FACTOR IN CORONARY HEART DISEASE

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**Objectives** To investigate the change of serum level of Pigment epithelium-derived factor (PEDF) in coronary heart disease patients.

**Methods** 40 coronary heart disease patients, 29 males and 11 females were recruited into this study, which contains acute myocardial infarction 6 cases, unstable angina pectoris 15 cases, stable angina 19 cases, according to the New York Heart Association (NYHA) diagnostic criteria, ruling out infectious diseases, tumour, renal inadequacy, diabetes, Hepatic function damage, cardiac inadequacy, hyperthyrea, anaemia and hyperthermy. Control group contains 35 healthy people with similar gender, age and social background. Venous blood on an empty stomach were drawn next day after admission and were put in tubes, and were centrifuge in 1000 rpm for 10 min, then blood serum were imbibed and stored under  $-80^{\circ}\text{C}$ . The serum of normal control group were taken in similar ways. Serum level of PEDF and IL-6 were determined by ELISA Kits (Bought from USCN life science Company, Wuhan, China and KeyGEN Biotech Company, Nanjing China). Meanwhile, serum level of total cholesterol, triglyceride and lipoprotein cholesterol were determined. Degree of stegnosis of coronary by Gensini scoring system based on the result of coronary arterion-graphy.

**Results** The serum level of PEDF (8.39–2.64  $\mu\text{g/ml}$ ) and IL-6 (7.40–4.41  $\text{pg/ml}$ ) in coronary heart disease group were higher than PEDF (6.952.92  $\mu\text{g/ml}$ ) and IL-6 (4.09–3.70  $\text{pg/ml}$ ) in control group ( $p<0.05$ ). There was no deference between two groups in serum level of total cholesterol, triglyceride and lipoprotein cholesterol. There was no correlativity between serum level of PEDF and Gensini scores by Pearson correlation analysis ( $r=-0.166$ ,  $p>0.05$ ), but there was correlativity between serum level of PEDF and IL-6 ( $r=0.241$ ,  $p<0.05$ ).

**Conclusions** The results suggest that Pigment epithelium-derived