

[gw22-e0208]

# THE EFFECTS OF PERIDOPRIL ON VASCULAR INFLAMMATION AND VASCULAR ENDOTHELIUM FUNCTION IN MILD- TO- MODERATE ESSENTIAL HYPERTENSIVE PATIENTS

Zhangqiang Chen *Jiangxi Provincial People's Hospital, Jiangxi, China*

10.1136/heartjnl-2011-300867.348

**Objective** To explore the effects of peridopril tablet on vascular inflammation and vascular endothelium function in mild-to- moderate essential hypertensive (EH) patients.

**Methods** 100 EH patients were divided into peridopril group (50 patients) and control group (50 patients). we examined the blood express levels of high sensitivity C-reactive protein (hs-CRP), Fibrinogen C (FIB-C) and endothelium 1(ET-1), nitric oxide (NO) levels from before treatment in both group, then the patients in peridopril group received peridopril tablet treatment for 4 weeks (4 mg qd), and compared the results with conventional treatment group.

**Results** The EH patient' blood levels of hs-CRP, FIB-C and ET-1 increased significantly compared with control group (all  $p<0.01$ ), NO decreased significantly compared with control group (all  $p<0.05$ ). When the systolic blood and diastolic blood levels of hypertensive patients controlled at the same levels, In peridopril treatment group, the serum levels of hs-CRP, FIB-C and ET-1 decreased significantly (all  $p<0.01$ ), the level of NO increased significantly (all  $p<0.01$ ), compared with pretreatment, while those index above appeared no significant different compared with pretreatment in conventional treatment group.

**Conclusions** Peridopril tablet can inhibit the vascular inflammation and protect the vascular endothelium function of EH patients, probably playing an important role in prevention of thrombotic diseases induced by hypertension.