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INCREASED AMBULATORY ARTERIAL STIFFNESS INDEX CORRELATED WITH MONOCYTE CHEMOATTRACTANT PROTEIN-1 IN PREHYPERTENSIVES

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Objective To investigate increased ambulatory arterial stiffness index correlated with plasma level and expression of monocyte chemoattractant protein-1.

Methods One hundred and eight subjects with prehypertension and 101 optimal normotensive subjects were eligible enrolled. Non-invasive ambulatory blood pressure monitoring was performed using automatic devices (TM-2421 and TM-2430; A&D, Tokyo, Japan) and ambulatory arterial stiffness index was calculated in all participants. Monocyte chemoattractant protein-1 expression was conducted by quantitative real-time reverse transcription-PCR (RT-PCR).

Results Ambulatory arterial stiffness index was $0.48 \pm 0.10\%$ in prehypertensives, higher than that in optimism normotensives (t value=10.689, $P=1$ in prehypertensives).