



MEDICAL TIPS

OLMEBLU-AM TABLETS

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Effects of Olmesartan and Amlodipine on blood pressure, endothelial function, and vascular inflammation

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- Endothelial dysfunction (ED) may be involved in the initiation and development of vascular inflammation (VI) in hypertensive patients and anti-hypertensive drugs can improve the same.
- Endothelial function and vascular inflammation was evaluated by flow-mediated dilatation (FMD) of the brachial artery and target-to-background ratio (TBR) within the carotid arteries respectively.
- Olmesartan and Amlodipine were randomly assigned to uncontrolled hypertensive patients (N=45) for 6 months in the present study.
- Both anti-hypertensive drugs similarly reduced blood pressure and increased % FMD. TBR values were reduced by Olmesartan ($P < .001$), while blood pressure variability was decreased by Amlodipine ($P = 0.004$).

Olmesartan and Amlodipine may improve endothelial function in patients with essential hypertension by suppressing vascular inflammation and decrease in blood pressure variability.

