

HEMODYNAMIC AND METABOLIC CHANGES DURING EKLIPS PLUS (LOSARTAN/HYDROCHLORTHIAZIDE) TREATMENT IN PATIENTS WITH ARTERIAL HYPERTENSION

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THE AIM of the study was to evaluate hemodynamic and metabolic changes during EKLIPS Plus (losartan 50 mg /hydrochlorthiazide 12.5mg) treatment in patients with arterial hypertension.

METHODS. We studied 20 patients (14 men, 6 women, mean age 49.6 ± 4.3 years) with arterial hypertension grade I (according to ESH/ESC guidelines).

This was an open controlled trial with EKLIPS Plus (Sanovel,Turkey) administered once daily. 24-hour blood pressure monitoring and 24-hour ECG monitoring were performed. Blood glucose, LDL cholesterol, triglycerides, creatinine, uric acid, potassium, and sodium were assessed.

Duration of the study was 3 months.

RESULTS. Target BP was reached in 84.3 % patients. BP monitoring revealed significant lowering of systolic and diastolic BP.

There was no reflex activation in heart rate (from 68.4 ± 5.7 beats/min to 70.1 ± 3.7 beats/min).

EKLIPS Plus does not interfere with metabolic parameters; in fact, fasting blood glucose (from 92.8 ± 7.4 mg/dL to 91.9 ± 5.7 mg/dL), LDL cholesterol (from 110.4 ± 40.3 mg/dL to 109.8 ± 37.4 mg/dL) and serum triglycerides (from 136.4 ± 35.4 mg/dL to 133.7 ± 37.9 mg/dL) show similar values.

Renal function was not affected (serum creatinine from 0.9 ± 0.2 to 0.8 ± 0.1). Serum uric acid was significantly reduced from 5.9 ± 1.3 mg/dL to 4.9 ± 1.2 mg/dL, while serum sodium (from 140.3 ± 2 mEq/I to 139.9 ± 3.4 mEq/I) and potassium(from 4.5 ± 0.5 mEq/I to 4.6 ± 0.7 mEq/ I) were not affected.

24-hour ECG monitoring showed a reduction in ectopic ventricular beats (from $89.7 \pm 22.6/24$ hours to $5.3 \pm 3.4/24$ hours), while early normal supraventricular beats did not change (from $3.0 \pm 4/24$ h to 1.9 ± 1.7).

Therapy with EKLIPSPlus was well tolerated, and no serious drug-related adverse events were observed in any patient.

CONCLUSIONS. We conclude that EKLIPS Plus is an effective and well-tolerated treatment for hypertension.

Keyword: Arterial hypertension, losartan/ hydrochlorthiazide, Hemodynamic and metabolic changes