Dynamics of erythrocyte surface cellular composition in patients with diabetes mellitus type 2 with arterial hypertension under correction of arterial blood pressure with losartan

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Summary. We have conducted a quantitative morphological evaluation of changes of erythrocyte surface cellular composition in patients with diabetes mellitus type 2 with arterial hypertension under correction of arterial blood pressure with losartan and with considering of glycaemic control level and microalbuminuria. It is shown that in the patients with diabetes mellitus in a compensation and subcompensation with arterial hypertension and microalbuminuria observed moderate degree violations of erythrocyte surface cellular composition, as a result of this is a significant increase in the relative content of reversibly transformed cells. Insufficient glycaemic control in patients has been accompanied by considerable increase of reversible and irreversible transformed cells, especially in patients with microalbuminuria. The standard treatment for 1 year there has been a gradual increase in the degree of erythrocyte transformation. Inclusion of losartan in the treatment does not influence significantly the reversible transformation of erythrocytes, contributes to the normalization of the level of irreversibly transformed cells in patients with normalbuminuria and stabilizes them level with microalbuminuria, prevents the reduction of normal disk cells level.

Key words: diabetes mellitus type 2, arterial hypertension, erythrocyte cellular composition, reversibly and irreversibly transformation, losartan.

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