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Abstract

Background

Type 2 diabetes is a chronic condition that requires pharmacotherapy interventions. Metformin and gliclazide are widely used drugs in monotherapy. However, their complementary action made utilization of the combination of these drugs an appealing approach.

Aims

The study compared major therapeutic potentials of combined metformin/gliclazide treatment over metformin monotherapy based on the following parameters: oxidative stress, lipid profile, and hepatorenal functions.

Subjects and Methods

This is a comparative study was conducted from March 2015 to March 2016. The study screened 80 type 2 diabetic patients, of which 40 patients underwent combined metformin + gliclazide therapy (500 mg BD + 80 mg OD, respectively). The other 40 were matched for age and duration of diabetes mellitus with the previous group and received metformin monotherapy (500 mg BD). The levels of fasting blood glucose (FBG), total glycated hemoglobin (HbA1c), lipid peroxidation, total antioxidant

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