ABSTRACT

Objective –

To evaluate the tolerability and efficacy of drug S-Amlodipine with drug Amlodipine upon switching patients from Amlodipine to S-Amlodipine for the treatment of hypertension.

Methods –

This is a prospective, open-label, randomized, parallel and comparative study. 200 Outdoor patients (98 women and 102 men) with mean age 51.32 ± 11.20 years with light to average hypertension became a part of this study and informed consent was obtained. Those patients with a prior history of recent cerebrovascular accident, angina pectoris and myocardial infarction within last 6 months and patients with severe hypertension were excluded from this study. All the patients enrolled in the study were already taking treatment with drug amlodipine 5 mg once a day. 100 patients were continued to be on the Amlodipine 5 mg once a day and evaluated for the period of 8 weeks whereas remaining were switched on to S-Amlodipine 2.5 mg once a day and evaluated for 8 weeks. Patients on combination with Amlodipine e.g. Amlodipine (5 mg) + Drug X (YY mg), was replaced with S-Amlodipine (2.5 mg) + Drug X (YY mg).

Results –

The analysis of results was performed by using student’s t test. The mean systolic blood pressure at baseline was 138.24 ± 5.8075 as compared to 133.06 ± 3.9533 and average diastolic blood pressure at baseline was 90.64 ± 3.596 as compared to 86.97 ± 2.6192 after 2 months in Amlodipine crowd. Average systolic blood pressure at baseline was 133.16 ± 6.0455 as compared to 128.2 ± 3.9903 and average diastolic blood pressure at baseline was 88.68 ± 3.467 as compared to 86.16 ± 2.4232 at the end of eight weeks in S-Amlodipine group. Although both the treatment groups showed significant reduction in the mean diastolic and systolic blood pressure, the diastolic blood pressure decrease was not found to be statistically significant between the two treatment groups.
Conclusion –

S-Amlodipine (2.5 mg) drug was seen comparable in its effectiveness with better acceptability when switched from drug Amlodipine (5 mg) daily for management of hypertension.

Key- words:

Amlodipine, S-Amlodipine, Switching