

Retrospective real-life efficacy assessment of teneligliptin in Indian T2DM patients

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Background: Teneligliptin has been introduced recently in the Indian market and data available are limited on Indian patients. Hence, the hospital-based real-life retrospective evaluation was planned to evaluate the efficacy of teneligliptin in type 2 diabetes mellitus in the Indian population. Hence, a study was designed, a retrospective evaluation of the efficacy of teneligliptin in type 2 diabetes mellitus in the Indian population.

Methods: Data of 11400 patients, who were prescribed teneligliptin, was collected from hospital records. Teneligliptin 20mg was prescribed to all patients who were uncontrolled on other OHA and for a mean duration of 8 weeks. Parameters evaluated in this study were change in FBG, PPBG and HbA1c from the baseline at 8 weeks. With profile of outcome i.e. response and failure rates were also assessed with respect to age, gender, BMI and duration of diabetes.

Results: Of 11400 patients enrolled, 6612 were males and 4788 females. The average age was 52.77 years among the study population. The mean duration of diabetes was 23 months. There was a significant change in HbA1c, fasting and postprandial blood glucose levels at 2.55 ± 1.88 months (p=0.001) of teneligliptin therapy. Changes in HbA1c, FPG and PPG from baseline to end of study were -1.35 ± 1.08%

(p=0.001), -49.01 ± 26.48 mg/dl (p=0.001) and -79.80 ± 32.10 mg/dl (p=0.001) respectively. Out of 11400 patients, 1642 (14.4%) were non-responders where it was further sub-analysed with different parameters such as age, gender, BMI and duration of diabetes in order to observe the response of teneligliptin in diabetic patients.

Conclusions: This real-life retrospective evaluation showed the efficacy of teneligliptin in a real-world scenario. It can be an effective alternative to conventional gliptins available for prescription in India.

Speaker Biography

Nikhil Sunil Nasikkar is a postgraduate in internal medicine from the national board of examinations, From Bhabha Atomic Research Centre Hospital Mumbai. Also a postgraduate in diabetology from Annamalai University Tamilnadu, India. Has experience of diabetes management since last 16 years both inpatient and outpatient. Has publications both national and international level. Practising as consultant diabetics specialist and physician in Mumbai. Also working as Assistant Professor in the Department of Medicine and running the department of diabetes and endocrine. Currently working on diabetes and pregnancy with use of flash glucometers. Active member of RSSDI national body for diabetes research in India. Organising co-secretary 48th National RSSDI conference in Mumbai Dec 2020.

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