

DIFFERENCES IN BASELINE CHARACTERISTICS BETWEEN TYPE 2 DIABETES MELLITUS PATIENTS TREATED WITH DIPEPTIDYL PEPTIDASE-4 INHIBITORS IN RANDOMIZED CONTROLLED TRIALS AND THOSE RECEIVING THE SAME TREATMENT IN REAL-WORLD SETTINGS

Authors: Kostev K, Schokker E, Jacob L

AIMS

The goal was to analyze differences between the baseline characteristics of type 2 diabetes mellitus (T2DM) patients treated with dipeptidyl peptidase-4 (DPP-4) inhibitors in three randomized clinical trials (RCTs) and those receiving the same treatment in a German real-world setting.

MATERIALS AND METHODS

Details of the baseline characteristics of subjects with T2DM from three RCTs focusing on DPP-4 inhibitors were obtained. The present study also included T2DM patients receiving prescriptions for DPP-4 inhibitors who were followed between April 2007 and December 2016 in 1,246 general and diabetologist practices in Germany. Three different DPP-4 inhibitors were considered in the subsequent statistical analyses: sitagliptin, vildagliptin, and saxagliptin. The first outcome was the difference in baseline characteristics between patients in RCTs and those included in the real-world study for the three drugs. The second outcome was the proportion of real-world patients who met exclusion criteria and who could not have been included in RCTs.

RESULTS

Patients being prescribed DPP-4 inhibitors were younger in RCTs than in the real-world setting. RCT participants receiving sitagliptin were also more likely to be men than the patients from the realworld study, whereas the opposite was observed for vildagliptin and saxagliptin. The share of realworld patients who met the exclusion criteria ranged from 20.7% for vildagliptin to 38.1% for sitagliptin. In the case of the proportion of people potentially not included in RCTs, figures ranged from 61.9% for sitagliptin to 79.3% for vildagliptin.

CONCLUSION

Real-world studies should be included in the evaluation of new drugs in the future

Published in: Int J Clin Pharmacol Ther. 2018 Sep;56(9):411-416. doi: 10.5414/CP203285.



If you would like to read any of the studies in its entirety, please, contact us to obtain the full version of a publication. Also, our research director is at your disposal if you have any further questions.

Thank you for your interest!