Higher Rates of Persistence and Adherence in Patients with Type 2 Diabetes Initiating Once-weekly Versus Daily Injectable Glucagon-like Peptide-1 Receptor Agonists in US Clinical Practice (STAY Study)

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Background



Several injectable GLP-1 RAs are available for the treatment of T2D These are either long-acting, with **once-weekly** administration, or short-acting, requiring **daily** injections

The **STAY study** assessed persistence with and adherence to injectable GLP-1 RAs in US clinical practice

The study population was patients (≥ 18 years) with T2D from the IBM MarketScan Explorys Claims-EMR Data Set (1 July 2012–31 January 2019)

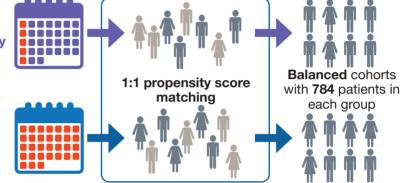


Methods



4311 patients

5639 patients with ≥ 1 claim for **daily** GLP-1 RAs



Persistence

Significantly higher persistence with once-weekly than daily GLP-1 RAs

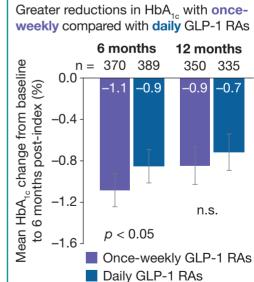
Median stay time
Once-weekly: 333 days
Daily: 269 days

HR: 0.80 (95% CI: 0.71–0.90); p < 0.01

Adherence

Significantly greater adherence with once-weekly than daily GLP-1 RAs Once-weekly GLP-1 RAs Daily GLP-1 RAs $60_{7} p < 0.01$ +23% p < 0.01higher 54 +35% Adherence (%) higher 46 40 44 34 20 6 months 12 months Adherence was defined as proportion of days covered \geq 0.8.

Blood glucose levels



Conclusions

- In our study, once-weekly injectable GLP-1 RAs were associated with significantly higher persistence and adherence than daily regimens over 1 year
- Our study provides evidence that persistence and adherence, which are typically considered to be linked to patient convenience, also have clear clinical benefits

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