

Identifying Barriers and Improving Adherence with the Use of Injectable **GLP-1** Receptor Agonists

Paige Summers, PharmD. Candidate, Morgan Rankins, PharmD. Candidate, Usama Ahmad,

Pharm. D.

SCHOOL OF PHARMACY

BACKGROUND

- GLP-1 Receptor Agonists are injectable medications used for Type 2 Diabetes Mellitus (T2DM) and obesity.
- These drugs enhance insulin release, reduce glucose levels, slow gastric emptying, and promote weight loss.
- Increased media coverage and patient demand have led to drug shortages, impacting adherence.
- Common barriers to adherence include medication access challenges, high drug costs, and intolerable gastrointestinal side effects.

METHODS

Study Design & Setting

- · This study was conducted at SSM Health Outpatient Pharmacy at St. Louis University Hospital.
- A cross-sectional survey was used to assess patient adherence and barriers to GLP-1 receptor agonists.

Patient Selection & Data Collection

- Patient records were accessed to identify individuals who filled a GLP-1 prescription within the past year- a total of 190 patients were identified.
- The survey was conducted via phone interviews, and participants provided verbal consent before proceeding.
- 63 patients participated, with responses recorded manually in a secure spreadsheet.

Survey Design

- The survey collected demographic information, prescription details, insurance coverage, access issues, and adherence challenges.
- · Questions were designed to be clear, concise, and relevant to patient experiences with GLP-1 medications.

Data Analysis

- Responses were quantified and summarized using percentages and frequency distributions.
- The main adherence barriers were identified and categorized for analysis.

Ethical Considerations

- Patient confidentiality was maintained throughout the study.
- · Participation was voluntary, and no personal identifiers were used in data reporting.

RESULTS

60

50

Ъ 30

ber

₹ 20

10

With Insurance

Survey Participation & Demographics

- Total Participants: 63 patients.
- Average Age: 47.5 years old.
- Diabetes Status:
 - 71% (45 patients) had Type 2 Diabetes Mellitus (T2DM).
 - 29% (18 patients) did not have a T2DM diagnosis.

Medication Access & Insurance Coverage

- 87% (55 patients) had insurance coverage for their GLP-1 receptor agonist.
- 13% (8 patients) were uninsured.

• 62% of respondents reported experiencing issues accessing their medication due to shortages or high costs.

Adherence Rates & Discontinuation Factors

- 65% (41 patients) were still taking their prescribed medication at the time of the survey.
- 35% had discontinued use, citing multiple barriers. **Barriers to Adherence (See Pie Chart)**







Insurance Status

REFERENCES



Without Insurance

KEY OBSERVATIONS

- Cost and side effects were the most commonly reported adherence barriers.
- Patients who received pharmacist outreach were more likely to request refills, indicating that direct patient engagement could improve adherence.
- Insurance did not guarantee accessibility-even insured patients struggled with high copays or coverage issues.
- Medication shortages significantly impacted adherence, with many patients unaware of supply chain disruptions before the study.

LESSONS LEARNED

- Access and affordability remain major obstacles for patients.
- · Pharmacist-led interventions, such as patient educations and outreach, can enhance adherence.
- Medication shortages significantly impact patient satisfaction and compliance.
- Patients appreciated proactive communication regarding their refills and availability.

CONCLUSION

- GLP-1 Receptor Agonist adherence is influenced by multiple factors, including cost, side effects, and availability.
- Pharmacists play a vital role in mitigating adherence barriers through patient education and engagement.
- Future interventions should focus on structured outreach programs, collaboration with healthcare providers, and improving access to these essential medications.
- Shaefer CF Jr, Kushner P, Aguilar R. User's guide to mechanism of action and clinical use of GLP-1 receptor agonists. Postgrad Med. 2015;127(8):818-26. doi: 10.1080/00325481.2015.1090295
- American Diabetes Association (ADA). Improving Care and Promoting Health in Populations: Standards of Care in Diabetes-2024. Diabetes Care. 2024;47(Supplement 1):S11 S19. doi: 10.2337/dc24-S001
- Curkendall SM, Thomas N, Bell KF, Juneau PL, Weiss AJ. Predictors of medication adherence in patients with type 2 diabetes mellitus. Curr Med Res Opin. 2013;29(10):1275-1286. doi: 10.1185/03007995.2013.821056
- Collins L, Costello RA. Glucagon-Like Peptide-1 Receptor Agonists. StatPearls [Internet]. Updated 2024 Feb 29. Available from: NCBI Bookshelf.
- Weiss T, Carr RD, Pal S, Yang L, Sawhney B, Boggs R, Rajpathak S, Iglay K. Real-World Adherence and Discontinuation of GLP-1 Receptor Agonist Therapy in Type 2 Diabetes Mellitus Patients in the United States. Patient Prefer Adherence. 2020;14:2337-2345. doi: 10.2147/PPA.S277676.