Trends in GLP-1 receptor agonist dispensing among US patients without type 2 diabetes using real-world data

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Background

- Obesity is a long-term disease stemming from several biological (genetics, hormonal), socioeconomic, and structural factors.
- Obesity also leads to the development of hypertension (HT), type 2 diabetes (T2D), dyslipidemia, stroke, coronary heart disease, gout, nonalcoholic fatty liver disease, and various cancers.
- Recently, glucacon-like peptide 1 (GLP-1) agonists originally developed for T2D management, have been approved by the regulators for obesity/weight loss applications among those without diabetes.
- These novel applications of GLP-1 agonists will significantly impact the landscape of obesity interventions including surgical options.

Objective

To describe overall monthly trends in dispensing episodes of GLP-1 among person without T2D.

Methods

- Retrospective analysis of health insurance claims from 01 January 2019 to 31 October 2023.
- Inclusion criteria:
- Non-ASO pharmacy and medical benefits
- At least one filled prescriptions of a GLP-1 agonist identified using national drug codes (NDCs), any dosage, Table 1
- At least 12 years of age at time of dispensed prescription
- Never diagnosed with T2D
- Comorbidity of interests were identified using the International Classification of Disease (ICD-10-CM) diagnosis codes:
 - > Hypertension (HT)
 - Stroke

- ≻Gout
- >Nonalcoholic fatty liver disease

Malignant cancers

- Coronary heart disease
- Monthly dispensing rates per 100,000 enrollees were examined and averaged over each study year.

Table 1. List of included GLP-1 products

Product Name	Number of unique NDCs	Compound Name	First Ap
ADLYXIN	3	Lixisenatide	
BYDUREON*	7	Exenatide	
BYETTA	9	Exenatide	
MOUNJARO	12	Tirzepatide	
OZEMPIC	11	Semaglutide	
RYBELSUS	7	Semaglutide	
TANZEUM	5	Albiglutide	
TRULICITY	13	Dulaglitude	
VICTOZA	5	Liraglutide	

