

ozempic (semaglutide)

Ozempic is an FDA-approved medication for type 2 diabetes that helps regulate blood sugar, reduces cardiovascular risks, and slows kidney disease progression in affected patients.

1 introduction

Class:GLP-1 agonist
Used for : diabetes management

Dosage form: injection

MOA:it works by mimicking a hormone in human body
This hormone works by

- Stimulates insulin production
- Slows digestion
- Reduced liver sugar production
- Controls appetite

pharmacokinetics :Ozempic (semaglutide) is absorbed slowly after subcutaneous injection, reaching peak plasma concentrations in 1-3 days. It has a long half-life of about one week, allowing for once-weekly dosing



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don't take if

- pregnant
- breast feeding
- multiple endocrine neoplasia type 2 (tumors in your glands)
- a personal or family history of medullary thyroid carcinoma (a type of thyroid cancer).

3 dose adjustments

For T2DM and CKD

- After at least 4 weeks on 0.5 mg/week, increase to maintenance dose of 1 mg/week

Dose adjustments :

Renal or hepatic impairment

- No dosage adjustment required

Upper GI tract disease

- PO: No dosage adjustment required



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dosing

Adult

- 2mg/1.5mL (1.34mg/mL); delivers doses of 0.25mg or 0.5mg per injection
- 4mg/3mL (1.34mg/mL); delivers 1mg per injection
- 8mg/3mL (2.68 mg/mL); delivers 2mg per injection

Dosing for T2DM

Initiation dose

- 0.25 mg SC once weekly x 4 weeks
- After 4 weeks, increase to 0.5 mg once weekly

Maintenance

- if additional glycemic control is needed after at least 4 weeks, may increase as follows
- Taking 0.5 mg/week: May increase to 1 mg/week
- Taking 1 mg/week: May increase to 2 mg/week
- Maximum recommended dose: 2 mg/week



6 monitor if patient takes

glimepiride, glipizide, glyburide, ifosfamide, insulin (any type), lenape, somatropin, nateglinide, repaglinide, somapacitan, somatropin

References :

- medscape
- pubmed
- drugs.com

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SIDE EFFECTS



side effects

- inflammation of the pancreas
- vision changes
- low blood sugar levels
- kidney problems
- serious allergic reactions
- and it can also increase the risk of food or liquid getting into your lungs during surgery or a medical procedure

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