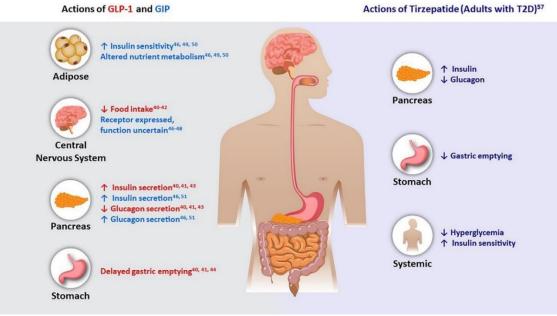


# **Rx Info Blast – November 2023**

# Mounjaro (Tirzepatide)

# How does it work?



Indication: Mounjaro<sup>®</sup> (tirzepatide) is approved by Health Canada for management of Type 2 diabetes in combination with metformin or as monotherapy. Tirzepatide has been approved by the FDA in the United States for weight management as the product Zepbound<sup>®</sup>, but this is not an official Canadian indication.

**Dosing**: 2.5mg subcutaneously once weekly x 4 weeks then 5mg subcutaneously once weekly Dose can be titrated to achieve glycemic targets by 2.5mg every 4 weeks to a **maximum 15mg/ week** 

What if you miss a dose? Missed doses should be taken within 4 days then resume their regular schedule dose. If greater than 4 days, the dose should be skipped to maintain regular dosing day.

Cost: Approximately \$400/28 days. Not covered by ODB and some private plans.

How to manage other diabetic medications when starting tirzepatide?

Insulin: reduction of 20% of the insulin dose if A1C is ≤8%

DPP-4 inhibitor (sitagliptin, linagliptin): discontinue as unlikely to add additional benefit

GLP-1 agonist: discontinue – There are currently no evidence-based guidelines for switching between GLP-1 agonists. A conservative approach would be to discontinue the current GLP-1 agonist and 7 days later start tirzepatide 2.5mg once weekly, titrate accordingly

SGLT-2 inhibitor (dapagliflozin, empagliflozin, canagliflozin): continue Gliclazide: reduce dose by 50% to avoid hypoglycemia

# How is tirzepatide supplied?

In Canada it is available in a **vial only** and will not be available in a prefilled pen for the foreseeable future. It will require a patient, using a 1ml tuberculin or U-100 insulin syringe with a 28-31G needle more than 2.1mm to withdrawal 0.5ml from the vial. <u>Click here for detailed injection instructions</u>. Consider ordering supplies on the prescription to aid with insurance coverage.

Storage: Should be kept in the fridge (2-8 C) until expiry date OR stable at room temperature for 21 days stored in a dark place

# Who should not use Tizepatide?

- Active gallbladder disease
- Active acute kidney injury
- History of pancreatitis

- Family history of medullary thyroid cancer or MEN 2
- Pregnant /breastfeeding
- Pediatric patients (not studied)

# Considerations in patients who have childbearing potential:

Tirzepatide can **<u>REDUCE</u>** the effectiveness of combined oral contraceptives (COCs). Patients should use add a barrier method or switch to non oral contraceptive option. Tirzepatide should be discontinue at least 1 month prior to planned pregnancy.

Drug interactions: Tirzepatide can delay gastric emptying which can change absorption of medications. Narrow therapeutic medications should be monitored (i.e. warfarin) when initiated.

#### Benefits:

#### SURPASS-1 (tirzepatide vs. placebo)<sup>3</sup>

	5mg	10mg	15mg	Placebo
Change in A1C from baseline	-1.87%	-1.89%	-2.07%	+0.04%
Change in Weight from baseline	-7kg	-7.8kg	-9.5kg	-0.7kg

#### SURPASS-2 (tirzepatide vs. semaglutide 1mg)<sup>4</sup>

	5mg	10mg	15mg	Semaglutide 1mg
Change in A1C from baseline	-2.01%	-2.24%	-2.30%	-1.86%
Change in Weight from baseline	-7.6kg	-9.3kg	-11.2kg	-5.7kg

The <u>SURPASS CVOT</u> (effect of tirzepatide vs dulaglutide on major adverse cardiovascular events) is not expected to be completed until 2024. Currently there is not data on the effect of tirzepatide on MACE.

# What are the common side effects?

The side effects are **dose dependent** and are **more common than GLP-1 agonists**. GI upset (Nausea, diarrhea, vomiting – this tends to improve with time), dyspepsia, increased heart rate (1-2bpm). Hypoglycemia occurred in 6-8% of the patients.

#### What are the less common but serious side effects?

Pancreatitis <1%, cholelithiasis 1%, allergic reaction (1.9-4.5%), diabetic retinopathy (greatest risk in patients with history DR)

#### Monitoring:

Baseline: eye exam, A1C, weight Patient's should self-monitor for signs and symptoms of hypoglycemia (<u>Handout</u>), other adverse effects 3 months: A1C, weight, tolerability, retinopathy progression if history of retinopathy

Handouts and Links:

How to draw up and inject Mounjaro<sup>®</sup> Mounjaro<sup>®</sup> Patient Education Brochure Injection site and rotation Video demonstrating use of Mounjaro<sup>®</sup> mymounjaro<sup>®</sup> Support Program – mymounjaro.ca

- Patients can enroll in the program to receive a support card that reduces the cost of the product

- They will be also offered the ability to book injection training through this program

# References:

- 1. Mounjaro [Product Monograph including Patient Medication Information]. Toronto, ON: Eli Lilly Canada Inc. <a href="https://pi.lilly.com/ca/mounjaro-ca-pm.pdf">https://pi.lilly.com/ca/mounjaro-ca-pm.pdf</a>. Published Nov 23, 2022. Accessed Aug 14, 2023.
- 2. Tirzepatide for the treatment of adults with type 2 diabetes: An endocrine perspective. Diabetes Obes Metab. 2023; 25(1): 3-17.
- 3. Efficacy and safety of a novel dual GIP and GLP-1 receptor agonist tirzepatide in patients with type 2 diabetes (SURPASS-1): a double-blind, randomised, phase 3 trial. Lancet. 2021 Jul 10;398(10295):143-155
- 4. Tirzepatide versus Semaglutide Once Weekly in Patients with Type 2 Diabetes N Engl J Med 2021; 385:503-51