# Pharmacotherapy for obesity management

- Pharmacotherapy should be considered as an adjunct to medical nutrition therapy, physical activity and psychological interventions.
- Goals of pharmacotherapy should include the concept of best weight, the weight a person can achieve and maintain while living their healthiest and happiest life.
- The need for long-term treatment should be reviewed with the patient to ensure a comprehensive, shared approach to therapy selection is provided.
- Follow-up should focus on incremental, personalized behaviour changes that align with the individual's core values, with healthcare providers offering consistent follow-up to reinforce self-efficacy and intrinsic motivation.

#### Pharmacotherapy options below are recommended for adults with:

- BMI of 30 kg/m<sup>2</sup> or greater
- BMI of 27 kg/m<sup>2</sup> or greater with at least one adiposity-related complication (e.g., HTN, T2DM, dyslipidemia)

Body Mass Index (BMI) does not directly measure body fat or health risks, fails to account for body fat distribution or muscle mass, and is less accurate for various populations such as women, ethnic minorities, and those with disabilities.

#### Benefits of pharmacotherapy typically require long-term treatment and may include:

- Weight loss
- Reduction in symptoms of adiposity-related comorbidities
- Improved quality of life (QoL)
- Prevention of weight regain
- Reduction in risk of cardiovascular disease (CVD)

## Pharmacotherapy indicated for obesity management

| Medication                    | Features<br>(* = placebo subtracted)                                                                                                                                                                                                                                        | Dosing and onset                                                                                                                                                                                                                       | Adverse drug reactions,<br>warnings and contraindications                                                                                                                                                                                                                                                                                                   | Cost and coverage (3-month supply) |  |  |  |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--|--|--|
| Helps regulate a              | Glucagon-like peptide-1 (GLP-1) receptor agonist Helps regulate appetite and reduce caloric intake, stimulates insulin secretion, and inhibits glucagon secretion in a glucose-dependent manner.                                                                            |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                             |                                    |  |  |  |
| liraglutide                   | <b>Weight loss (%)*:</b> ↓ 5.4% at 1 year and                                                                                                                                                                                                                               | Initial: 0.6mg subcut daily                                                                                                                                                                                                            | 3 Side effects:                                                                                                                                                                                                                                                                                                                                             | \$1250-1500                        |  |  |  |
| (Saxenda®)                    | ↓ 4.2% at 3 years                                                                                                                                                                                                                                                           | <b>Titration:</b> ↑ by 0.6mg every week to target a dose of 1.2, 1.8, 2.4 or 3mg subcut once daily                                                                                                                                     | CNS: headache, dizziness, fatigue                                                                                                                                                                                                                                                                                                                           | ODB: X                             |  |  |  |
| 0.6mg, 1.2mg,                 | ≥ 5% ↓ at 1 year*: 36.1%                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                        | GI: nausea, vomiting, diarrhea, constipation, abdominal pain, dyspepsia                                                                                                                                                                                                                                                                                     | NIHB: X                            |  |  |  |
| 1.8mg, 2.4mg,<br>3mg/dose     | ≥ 10% ↓ at 1 year*: 22.5%                                                                                                                                                                                                                                                   | Target: 3mg subcut daily                                                                                                                                                                                                               | <ul> <li>CV: ↑ heart rate</li> <li>▲ Warnings:</li> <li>Risk of medullary thyroid tumours in rodents; unknown risk in humans</li> <li>↑ heart rate, caution in conditions that may worsen with increased HR (tachyarrhythmias)</li> <li>Hypoglycemia risk with insulin or sulfonylureas</li> <li>Intestinal obstruction and ileus</li> </ul>                |                                    |  |  |  |
| Pre-filled pen<br>(multi-use) | <b>■ A1c*</b> : ↓ 1% at 1 year                                                                                                                                                                                                                                              | Onset: 2 weeks                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                             |                                    |  |  |  |
|                               | <b>CVD outcomes</b> : CVD benefit demonstrated in type 2 diabetes                                                                                                                                                                                                           | Plateau: 34-40 weeks  Plateau: 34-40 weeks  Plateau: No adjustment necessary in CKD, however ↑ side effects (fatigue, GI). Not recommended in ESRD (eGFR < 15 mL/min).  Plateau: Not recommended for patients with hepatic impairment. |                                                                                                                                                                                                                                                                                                                                                             |                                    |  |  |  |
|                               | HR*: ↑ 2.4 bpm                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                             |                                    |  |  |  |
|                               | BP*: ↓ 2.87 mmHg SBP<br>↓ 0.73 mmHg DBP                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                             |                                    |  |  |  |
|                               | <ul> <li>★ May be preferred for patients with:</li> <li>Abnormal satiety (hungry gut)</li> <li>Cravings</li> <li>Prediabetes and type 2 diabetes</li> <li>Dyslipidemia</li> <li>Hypertension</li> <li>Obstructive sleep apnea (BMI &gt; 30 kg/m²)</li> <li>MASLD</li> </ul> |                                                                                                                                                                                                                                        | <ul> <li>Cholelithiasis and pancreatitis</li> <li>Contraindications:</li> <li>Personal or family history of medullary thyroid cancer</li> <li>Personal history of MEN 2</li> <li>Pregnancy, breastfeeding (stop 2 months before pregnancy)</li> <li>Interactions:</li> <li>May affect absorption of medications due to delayed gastric emptying.</li> </ul> |                                    |  |  |  |



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| Medication                                                                                                                                                                                       | Features<br>(* = placebo subtracted)                                                                                                                                                                                                                                                                                                                                                | Dosing and onset                                                                                                                                                                                                                                                                                                                                                 | Adverse drug reactions,<br>warnings and contraindications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Cost and coverage (3-month supply)               |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--|--|
| Glucagon-like peptide-1 (GLP-1) receptor agonist Helps regulate appetite and reduce caloric intake, stimulates insulin secretion, and inhibits glucagon secretion in a glucose-dependent manner. |                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                  |  |  |
| (Wegovy®)  0.25mg, 0.5mg, 1mg, 1.7mg, 2.4mg/dose Pre-filled (multi-dose) and single-dose pens                                                                                                    | Weight loss (%)*: ↓ 12.5% at 1 year, not studied long-term  ≥ 5% ↓ at 1 year*: 54.9%  ≥ 10% ↓ at 1 year*: 57.1%  A1c*: ↓ 1.2% at 1 year  HR*: ↑ 4.2 bpm  BP*: ↓ 5.1 mmHg SBP  ↓ 2.4 mmHg DBP  CVD outcomes: ↓ MACE and ↓ CV death  May be preferred for patients with:  Abnormal satiety (hungry gut)  Cravings  Prediabetes and type 2 diabetes  Dyslipidemia  Hypertension  MASLD | Initial: 0.25mg subcut once weekly x 4 weeks  Titration: ↑ every 4 weeks to target a dose of 0.5, 1, 1.7 or 2.4mg subcut once weekly  Target: 2.4mg subcut once weekly  Onset: 4 weeks  Plateau: 52-60 weeks  Renal: No adjustment necessary in CKD. Not recommended in ESRD (eGFR < 15 mL/min).  Phepatic: Not studied; use with caution in hepatic impairment. | ② Side effects: CNS: headache, dizziness, fatigue GI: nausea, vomiting, diarrhea, constipation, abdominal pain, dyspepsia CV: ↑ heart rate  ▲ Warnings:  • Risk of medullary thyroid tumours in rodents; risk unknown in humans  • ↑ heart rate, caution in conditions that may worsen with increased HR (tachyarrhythmias)  • Hypoglycemia risk with insulin or sulfonylureas.  • Intestinal obstruction and ileus  • Cholelithiasis and pancreatitis  • Diabetic retinopathy  Contraindications:  • Personal or family history of medullary thyroid cancer  • Personal history of MENS 2  • Pregnancy, breastfeeding (stop 2 months before pregnancy)  Interactions:  • May affect absorption of medications due to delayed gastric emptying. | \$1250-1500<br><b>ODB</b> : X<br><b>NIHB</b> : X |  |  |



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| Medication                                                                          | Features<br>(* = placebo subtracted)                                                                                                                                                                                                                                                                                                                           | Dosing and onset                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Adverse drug reactions,<br>warnings and contraindications                                                                                                                                                      | Cost and coverage (3-month supply) |  |  |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|--|--|
|                                                                                     | Opioid receptor antagonist - Norepinephrine and dopamine reuptake inhibitor<br>Affects the regulation of food intake in the hypothalamus (appetite regulatory centre) and mesolimbic dopamine circuit (reward system).                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                |                                    |  |  |
| naltrexone-<br>bupropion<br>(Contrave®)<br>8mg/90mg<br>extended-<br>release tablets | Weight loss (%)*: ↓ 4.8% at 1 year, not studied long-term ≥ 5% ↓ at 1 year*: 32% ≥ 10% ↓ at 1 year*: 18%  ■ A1c*: ↓ 0.5% at 1 year  ■ CVD outcomes: Trial ongoing (INFORMUS)  HR*: ↑ 1.1 bpm  ■ May be preferred for patients with:  • Cravings • Tobacco/nicotine dependence • Depression (monitor closely for any worsening symptoms or behavioural changes) | Initial: 1 tablet in the morning daily Titration: ↑ by 1 tablet (8mg/90mg) every week until dose of 2 tablets in the morning and 2 tablets in the evening Target: 2 tablets twice daily Onset: 4 weeks Plateau: 28-36 weeks Plateau: 28-36 weeks Renal: Moderate to severe impairment (eGFR 15-59 mL/min): 1 tablet in the morning and 1 tablet in the evening Phepatic: Mild to moderate impairment (Child-Pugh A & B): 1 tablet in the morning Severe impairment (Child-Pugh C): Contraindicated Consider a tapering approach (if appropriate) when discontinuing after long-term use. | ② Side effects:  CNS: headache, sleep disturbance, nervousness, dizziness, fatigue GI: nausea, vomiting, diarrhea, Anticholinergic: dry mouth, constipation, blurred vision CV: ↑ blood pressure, ↑ heart rate | \$750-1000<br>ODB: X<br>NIHB: X    |  |  |



| Medication  | Features<br>(* = placebo subtracted)                                                                                                                                                                                                                                                                                                         | Dosing and onset                                                                                                                                                                                                                                                                             | Adverse drug reactions,<br>warnings and contraindications                                                                                                                                                                                                                                                                                                                                                                                                                    | Cost and coverage (3-month supply) |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
|             | al lipase inhibitor me lipase in the lumen of the stomach and sm  Weight loss (%)*: ↓ 2.9% at 1 year and ↓ 2.8% at 4 years ≥ 5% ↓ at 1 year*: 21% ≥ 10% ↓ at 1 year*: 12%  A1c*: ↓ 0.4% at 1 year  CVD outcomes: Not studied  HR*: ⇔ no change  BP*: ↓ 1.7 mmHg SBP ↓ 0.71 mmHg DBP  May be preferred for patients with: • Income insecurity | 1 11 1 4 1 1 7 1 7 1 1 1 1 1                                                                                                                                                                                                                                                                 | on of dietary fats, resulting in decreased caloric intake and weight loss.  ② Side effects: GI: oily spotting and loose stools, flatus with discharge, fecal urgency and increased defecation CV: slight ↓ in BP, no change in HR  ▲ Warnings:  • Use with caution in pre-existing disease of the large bowel or rectum  • Liver failure  • Kidney stones  ② Contraindications:  • Cholestasis  • Chronic malabsorption syndrome  • Pregnancy, breastfeeding ② Interactions: | \$500-650<br>ODB: X<br>NIHB: X     |
|             |                                                                                                                                                                                                                                                                                                                                              | <ul> <li>May affect absorption of fat-soluble vitamins and medications such as levothyroxine, cyclosporin, oral anti-coagulants and anti-convulsants.</li> <li>In cases of severe diarrhea, use a backup contraceptive method.</li> <li>Recommended to take a multivitamin daily.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                    |
|             | peptide-1 (GLP-1) receptor agonist and g<br>te and caloric intake, stimulates insulin secret                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                    |
| tirzepatide | <b>Weight loss (%)*+:</b> ↓ 12 – 18% at 72                                                                                                                                                                                                                                                                                                   | Initial: 2.5mg subcut once weekly x 4 weeks                                                                                                                                                                                                                                                  | 3 Side effects:                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Not available                      |

(Zepbound®) 2.5mg, 5mg, 7.5mg, 10mg, 12.5mg, 15mg/ dose

In pre-filled pens or singledose vials

**Currently not** available or approved for obesity in Canada

weeks, not studied long term  $\geq$  5%  $\downarrow$  at 72 weeks\*+: 50.6 – 56.4%

≥ 10% ↓ at 72 weeks\*+: 49.7 – 64.7%

**A1c\*+**: ↓ 0.4 – 0.51% at 72 weeks

**CVD outcomes:** Trial ongoing (SURMOUNT-MMO)

HR\*: 1-3 bpm BP\*: ↓ 6.2 mmHg SBP ↓ 4 mmHg DBP

### May be preferred for patients with:

- Abnormal satiety (hungry gut)
- Type 2 diabetes
- Dyslipidemia
- Hypertension
- Obstructive sleep apnea (BMI > 30 kg/m²)
- + 5, 10 and 15mg results reported

**Titration:** ↑ by 2.5mg every 4 weeks to target a dose of 5, 10 or 15mg subcut once weekly

Target: 5, 10 or 15mg subcut once weekly

Onset: 4 weeks

Plateau: 60-72 weeks

Renal: No adjustment necessary in CKD. Not recommended in ESRD (eGFR < 15 mL/min).

**P** Hepatic: Use with caution in hepatic impairment.

CNS: headache, sleep disturbance, nervousness, dizziness, fatigue

GI: nausea, vomiting, diarrhea

**CV:** ↑ heart rate

## **▲** Warnings:

- Risk of medullary thyroid tumours in rodents; risk unknown in humans
- Caution in heart conditions that may worsen with increased HR (tachyarrhythmias)
- Hypoglycemia risk with insulin or sulfonylureas
- Intestinal obstruction and ileus
- Cholelithiasis and pancreatitis
- Diabetic retinopathy
- Risk of malnutrition

### **Contraindications:**

- Personal or family history of medullary thyroid cancer
- Personal history of MENS 2
- Pregnancy, breastfeeding (stop 2 months before pregnancy)

### Interactions:

- May affect absorption of medications due to delayed gastric emptying.
- If taking oral contraceptives, switch to non-oral method or add a barrier method for 4 weeks after initiation and each dose escalation.

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# Pharmacotherapy indicated for type 2 diabetes (with obesity management benefits)

| Medication                                                                                 | Features (* = placebo subtracted)                                                                                                                                                                                                                                                             | Dosing and onset                                                                                                                                                                                                                                                                                                                                                                      | Adverse drug reactions,<br>warnings and contraindications | Cost and coverage (3-month supply)                                                                                                                                |
|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                            | e-1 (GLP-1) receptor agonist<br>and reduce caloric intake, stimulates insulin so                                                                                                                                                                                                              | ecretion, and inhibits glucagon secretion in a glucose-de                                                                                                                                                                                                                                                                                                                             | ependent manner.                                          |                                                                                                                                                                   |
| liraglutide<br>(Victoza®)<br>0.6mg, 1.2mg, 1.8mg/<br>dose<br>Pre-filled pen<br>(multi-use) | Weight loss*: ↓ 1.1-1.3kg at 26 weeks  ↑ A1c*: ↓ 1.1% at 26 weeks  ↑ CVD outcomes: ↓ MACE and ↓ CV death  HR*: ↑ 3 bpm  BP*: ↓ 1.2 mmHg SBP  ↑ 0.6 mmHg DBP                                                                                                                                   | Initial: 0.6mg subcut daily  Titration: ↑ by 0.6mg every week to target a dose of 1.2 or 1.8mg subcut once daily  Max: 1.8mg subcut daily  Onset: 2 weeks  Plateau: 34-40 weeks  Renal: No adjustment necessary in CKD. Not recommended in ESRD (eGFR < 15 mL/min).  P Hepatic: No adjustment in hepatic impairment.                                                                  | Refer to Saxenda® above for more information              | \$1000-1250<br>ODB: X<br>NIHB: X                                                                                                                                  |
| semaglutide (Ozempic®) 0.25mg, 0.5mg, 1mg/ dose Pre-filled pen (multi-use)                 | Weight loss*: ↓ 3.5-4.5kg at the 0.5-1mg dose, with additional weight loss of ~1kg at the 2mg dose  ■ A1c*: ↓ 1-1.3% at the 0.5-1mg dose, with an additional A1c reduction of ~0.3% at the 2mg dose  ■ CVD outcomes: ↓ MACE and ↓ CV death  HR*: ↑ 3 bpm  BP*: ↓ 1.2 mmHg SBP  ↑ 0.6 mmHg DBP | Initial: 0.25mg subcut once weekly  Titration: ↑ every 4 weeks to target a dose of 0.5, 1 or 2mg subcut once weekly  Max: 2mg subcut once weekly  Onset: 4 weeks  Plateau: 52-60 weeks  Renal: No adjustment necessary in CKD. Not recommended in ESRD (eGFR < 15 mL/min).  Phepatic: Not studied; use with caution in hepatic impairment.                                            | Refer to Wegovy® above for more information               | \$750-1000<br>(at 1mg dose)<br>\$1500<br>(at 2mg dose)<br><b>ODB</b> : \$\sqrt{LU 665, 667}<br>(T2DM + metformin failed or contraindicated)<br><b>NIHB</b> : \$\$ |
| semaglutide<br>(Rybelsus®)<br>3mg, 7mg, 14mg<br>Oral tablets                               | Weight loss*: ↓ 0.9-2.3kg at 26 weeks  A1c*: ↓ 0.9-1.1% at 26 weeks  CVD outcomes: Non-inferior to placebo for MACE and CV death. Did not reach statistical significance for superiority for MACE.  Trial ongoing to re-assess CV outcomes (SOUL).  HR*: ↑ 1 – 3 bpm  BP*: ↔ no change        | Initial: 3mg PO once daily for 30 days  Titration: ↑ to 7mg PO daily for 30 days, then can stay or ↑ 14mg PO daily.  Max: 14mg PO once daily  Onset: < 12 weeks  Plateau: 30-36 weeks  Renal: Post-marketing reports of acute renal failure and worsening CKD. Safety and efficacy established in moderate CKD (eGFR 30 to 59mL/min).  PHepatic: No adjustment in hepatic impairment. | Refer to Wegovy® above for more information               | \$750-1000  ODB: ✓ LU 662,663,664  (T2DM + metformin failed or contraindicated)  NIHB: ✓ LU (in addition to other antihyperglycemics)                             |



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| Medication                                                                                                                                                                                                                    | Features<br>(* = placebo subtracted)                                                                                                                                     | Dosing and onset                              | Adverse drug reactions,<br>warnings and contraindications | Cost and coverage (3-month supply) |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------------|------------------------------------|--|--|--|
| Glucagon-like peptide-1 (GLP-1) receptor agonist and gastric inhibitory polypeptide (GIP) Regulates appetite and caloric intake, stimulates insulin secretion, and inhibits glucagon secretion in a glucose-dependent manner. |                                                                                                                                                                          |                                               |                                                           |                                    |  |  |  |
| tirzepatide<br>(Mounjaro®)                                                                                                                                                                                                    | <b>Weight loss (%)*+:</b> ↓ 5.3-6.8kg at 40 weeks                                                                                                                        | Refer to Zepbound® above for more information | Refer to Zepbound® above for more information             | \$1000-1250<br>ODB: X              |  |  |  |
| 2.5mg, 5mg, 7.5mg,<br>10mg, 12.5mg, 15mg/<br>dose<br>Pre-filled pen (multi-<br>use) currently not<br>available in Canada                                                                                                      | TA1c*+: ↓ 1.6-1.7% at 40 weeks  CVD outcomes: Trial ongoing (SURPASS-CVOT)  HR*: ↑ 1.3 – 3.3 bpm  BP*: ↓ 4-7 mmHg SBP  ↓ 1-2 mmHg DBP  + 5, 10 and 15mg results reported |                                               |                                                           | NIHB: X                            |  |  |  |

### Legend:

**BP** = blood pressure; **CNS** = central nervous system; **CV** = cardiovascular; **CVD** = cardiovascular disease; **DBP** = diastolic blood pressure; **ESRD** = end-stage renal disease; **GI** = gastrointestinal; **HR** = heart rate; **HTN** = hypertension; **MAOI** = monoamine oxidase inhibitors; **MEN 2** = multiple endocrine neoplasia syndrome type 2; **MACE** = major-adverse cardiovascular event; **MASLD** = metabolic dysfunction-associated steatotic liver disease; **SBP** = systolic blood pressure; **T2DM** = type 2 diabetes mellitus

**Combination** of anti-obesity drug therapy has limited data to support use.

Coverage is a barrier to access. Individuals may need to self-advocate with their employer to gain access to pharmacotherapy.

**Drug cost** is an approximate range for a 3-month supply (including mark-up of 10% and dispensing fee of \$12.99) at the target dose.

**Follow-up** may be more frequent during the titration phase to monitor the efficacy and safety of the chosen treatment. Once a patient is stabilized, follow-up appointments can occur at regular points up to the clinician's discretion.

**Onset** is the time at which weight-loss begins to occur.

**Plateau** is the time at which the weight-loss begins to level-off.

**Titration** protocols can be completed at a slower pace than outlined above based on clinician discretion and patient tolerability/satisfaction.



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<sup>\*</sup> Placebo subtracted – placebo ranged from 7-33% depending on the medication and amount of weight loss