

# WHAT IS SEMAGLUTIDE?



**Semaglutide** is a medication that belongs to a class of drugs known as glucagon-like peptide- 1 receptor agonists, or GLP-1 RAs. It was originally used to treat Type 2 diabetes, but has been found effective for weight loss.




## Blood Sugar Regulation

GLP-1 acts on the GLP-1 receptor, which is present in various tissues like the pancreas, liver, and brain. When GLP-1 binds to its receptor, it leads to an increase of insulin secretion, inhibits glucagon release, and reduces glucose production by the liver. This results in a lower blood sugar.


## Appetite Regulation

By mimicking GLP-1, semaglutide also slows down the rate at which the stomach empties its contents, leading to a feeling of fullness and reduced appetite. This can help with weight management by reducing food intake.

## HEALTH BENEFITS

-  Blood Sugar Control
-  Weight Loss
-  Reduced Insulin Resistance

## Contact Us

 (734) 667-3426

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# Semaglutide:

## a breakthrough in Weight Loss



### HOW DOES IT WORK?

Semaglutide is a glucagon-like peptide-1 receptor agonist (GLP-1RA). It targets an area in the brain called GLP-1 receptors that help regulate your appetite and how much you eat. When used in conjunction with diet and exercise, it can lead to significant weight loss and a reduced risk of cancer, diabetes, and heart disease in people who are obese or overweight.

### The Mechanism of Action of Semaglutide:

#### Regulates Appetite

Targets areas of the brain that help regulate your appetite and how much you eat. It reduces food intake by lowering your appetite.

#### Slows Down Digestion

Slows digestion down in the stomach, leading to a feeling of fullness, which helps reduce body fat

#### Increases Insulin Production

GLP-1 prompts the body to produce more insulin, which reduces blood sugar (glucose).

# EXPLORING SEMAGLUTIDE: Is it Right for You?

Who are the best candidates for Semaglutide treatment?



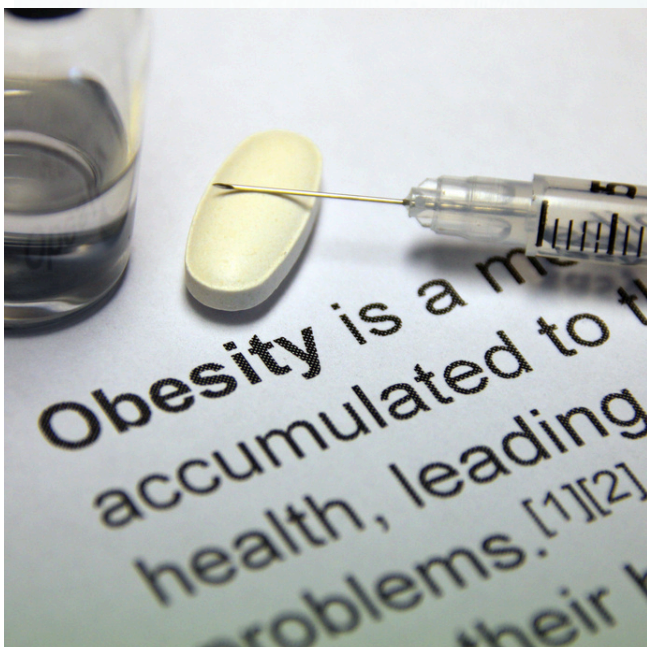
## IDEAL CANDIDATES FOR TREATMENT

- ✓ **Age:** Semaglutide is approved for adults.
- ✓ **Body Mass Index (BMI):** BMI should be 30 or higher. However, adults with a BMI of 27 or greater and have at least one weight-related comorbid condition are also good candidates for treatment.
- ✓ **Weight-Related Comorbid Conditions:** Individuals with weight-related medical conditions like high blood pressure, type 2 diabetes, or lipid disorders are also eligible for treatment with Semaglutide.

## WHO DOES NOT QUALIFY?

✗ Semaglutide treatment should **not** be used for individuals with the following medical conditions:

- Type 1 Diabetes
- Personal or Family History of medullary thyroid carcinoma, or Multiple Endocrine Neoplasia syndrome type 2
- Severe gastrointestinal disorders i.e. gastroparesis
- History of pancreatitis
- Pregnancy
- Known diagnosis of Proliferative Diabetic Retinopathy (PDR), severe Non-Proliferative Diabetic Retinopathy (NPDR), Macular Edema (ME) or Diabetic Macular Edema (DME), unless risk/benefit discussions and have been discussed with your provider.



\*\*\*Please note that the decision to start Semaglutide treatment should be made by a health care professional based on the individual's medical history and current health status.

# SEMAGLUTIDE SIDE EFFECTS-

## what they are, and how to handle them

While Semaglutide can be effective for weight loss, it's not a miracle drug and may have side effects and should be used under the supervision of a health care provider.

### Nausea and Vomiting

Nausea is the most common side effect of Semaglutide. Here are some tips:

- **Eat Slower:** Eating too fast can make nausea worse.
- **Consume Smaller Meals:** Large meals can cause your stomach to stretch, which can worsen nausea.
- **Stay Upright After Eating:** Laying down after eating can slow digestion and increase feelings of nausea
- **Avoid High Fat Meals:** High-fat foods take longer to digest, which can lead to symptoms like bloating and indigestion.



### Diarrhea

If you experience diarrhea while taking Semaglutide, consider the following:

- **Stay Hydrated:** Diarrhea can lead to dehydration. Make sure to drink plenty of fluids.
- **Eat Foods High in Pectin:** Foods like bananas, rice, applesauce, and toast can help solidify stools.



### Constipation

If you experience constipation while taking Semaglutide, these tips may help:

- **Increase Fiber Intake:** Foods high in fiber, like fruits, vegetables, and whole grains, can help stimulate bowel movements.
- **Stay Hydrated:** Drinking plenty of water can help soften stools and make them easier to pass.



### Fatigue

If you're feeling tired or weak during exercise, consider these tips:

- **Have a Snack Before Exercise:** Eating a small snack before any intense exercise lasting longer than 30 minutes can help maintain your energy level.
- **Stay Hydrated:** Dehydration can lead to fatigue. Make sure to drink plenty of fluids before, during, and after exercise.



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Dashermed@dashermed.com

# Eating Right with SEMAGLUTIDE

Semaglutide is a medication that can help manage blood sugar levels and aid in weight loss. However, it's important to pair this medication with a healthy diet for the best results. Here are some dietary recommendations for patients on Semaglutide:

## HEALTHY EATING GUIDELINES

**Whole Foods:** Emphasize lean, whole-food proteins, high-fiber carbohydrates with a low glycemic load, and an array of micronutrient-rich plants and vegetables.

**Fruits and Vegetables:** Include fresh fruits and vegetables in your diet. These provide essential vitamins and minerals and are low in calories.

**Whole Grains and Fiber:** Choose whole grains and foods high in fiber. These can help control blood sugar levels and keep you feeling full.

**Lean Proteins:** Consume a variety of proteins like seafood, lean meats, poultry, or eggs. These provide essential amino acids without adding extra fat.

## FOODS TO AVOID

**High-Fat Foods:** High-fat and greasy foods can slow digestion and cause gastrointestinal upset. These foods can also trigger heartburn, a common symptom people experience when taking Semaglutide.

**Processed Foods:** High-sugar foods and drinks, such as soda, can exacerbate side effects like nausea and vomiting. Try to limit your intake of these foods.


**Alcohol:** Alcohol can interfere with the effectiveness of Semaglutide and increase the risk of side effects.


## ADDITIONAL TIPS

**Small Meals:** Eating regular small meals helps metabolize this medication more seamlessly.

**Hydration:** Staying well-hydrated is important, especially when taking semaglutide.



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Semaglutide is a medication used for weight loss and to lower blood sugar levels in type 2 diabetic patients. However, for optimal results, it's important to pair this medication with increased physical activity.

Exercise may enhance the therapeutic effects of Semaglutide, potentially by improving insulin sensitivity, and aiding in weight management. Exercise stimulates the body to use glucose more efficiently, which can complement the glucose-regulating properties of semaglutide.

# Exercise & Semaglutide

## A Winning Combination

## Guidelines



### Aerobic Exercise

Aim for at least 150 minutes of moderate intensity or 75 minutes of high intensity aerobic activity each week. This could include activities like walking, cycling, or swimming.



### Strength Training

Include strength training exercises in your routine at least two days a week. This could involve lifting weights or doing bodyweight exercises like push-ups and squats.



### Flexibility & Balance Exercises

Incorporate flexibility and balance exercises into your routine. This could include activities like yoga.





# SEMAGLUTIDE for Weight Loss

- 1 What is Semaglutide and how does it work for weight loss?**

Semaglutide is a GLP-1 receptor agonist that helps reduce appetite and increase feelings of fullness, leading to weight loss.
- 2 Who can use Semaglutide for weight loss?**

Adults with a BMI of 30 or more, or adults with a BMI of 27 or more who also have a weight-related medical condition.
- 3 How is Semaglutide administered?**

Semaglutide is available in both injectable and oral forms.
- 4 What are the common side effects of Semaglutide?**

Common side effects include nausea, vomiting, diarrhea, abdominal pain, and constipation.
- 5 How long does it take for Semaglutide to work?**

Semaglutide can work within the first week, with full effect taking 8 weeks or longer.
- 6 What is the difference between the oral and injectable forms of Semaglutide?**

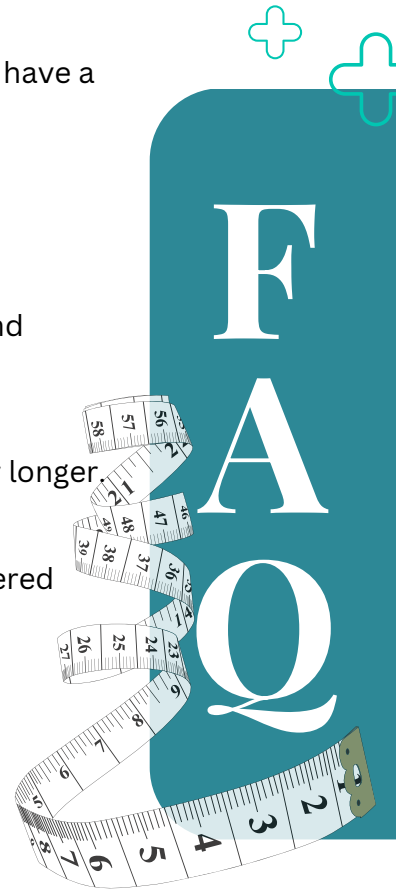
The oral form is taken daily as a tablet, while the injectable form is administered as a subcutaneous injection once a week.
- 7 Can Semaglutide be used for weight loss in individuals without diabetes?**

Yes, Semaglutide is approved for weight loss in certain patients, even those without diabetes.
- 8 Are there any dietary restrictions while taking Semaglutide?**

No specific dietary restrictions, but a healthy diet and regular exercise are recommended for best results.
- 9 Can Semaglutide be used in combination with other diabetes medications?**

Yes, but always consult with a healthcare provider before starting any new medications.
- 10 Are there any long-term risks associated with Semaglutide treatment?**

Long-term risks are still being studied, but some potential risks could include thyroid tumors and pancreatitis.



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# Understanding Obesity

Obesity is a complex disease involving an excessive amount of body fat. It's not just a cosmetic concern. It's a medical problem that increases the risk of other diseases and health problems.

## Body Mass Index (BMI)

For adults, the World Health Organization (WHO) and the Centers for Disease Control and Prevention (CDC) define obesity as having a Body Mass Index (BMI) OF 30 or higher. BMI is calculated using a person's weight and height. A BMI chart is a tool that can quickly help you determine your BMI.

Obesity is frequently subdivided into categories:

Class 1: BMI of 30 to 35

Class 2: BMI of 35 to 40

Class 3: BMI of 40 or higher

Class 3 obesity is sometimes categorized as "severe" obesity.

## Health Risks

Obesity can lead to a number of serious health conditions, including:

**Heart Disease and Stroke:** Extra weight makes it more likely that you'll develop high blood pressure, high cholesterol, and type 2 diabetes.

**Type 2 Diabetes:** Obesity can affect the way your body uses insulin to control blood sugar levels, increasing your risk of insulin resistance and diabetes.

**Certain Cancers:** Obesity may increase your risk of certain types of cancer, including breast, colon, endometrial, kidney, esophagus, and pancreatic cancers.

**Digestive Problems:** Obesity increases the likelihood of developing heartburn, gallbladder disease, and liver problems.



## Managing Obesity

Obesity is a complex, chronic, and multifactorial disease that requires a comprehensive and long-term treatment approach. Lifestyle modifications, including diet and exercise, are the cornerstone of obesity management. However, for some individuals, these interventions may not be enough to achieve or maintain a healthy weight.

Initially used as a diabetes medication, Semaglutide has been found to be effective for weight loss and is now also used for weight management in certain patients. By reducing appetite and increasing feelings of fullness, Semaglutide can lead to weight loss.

