



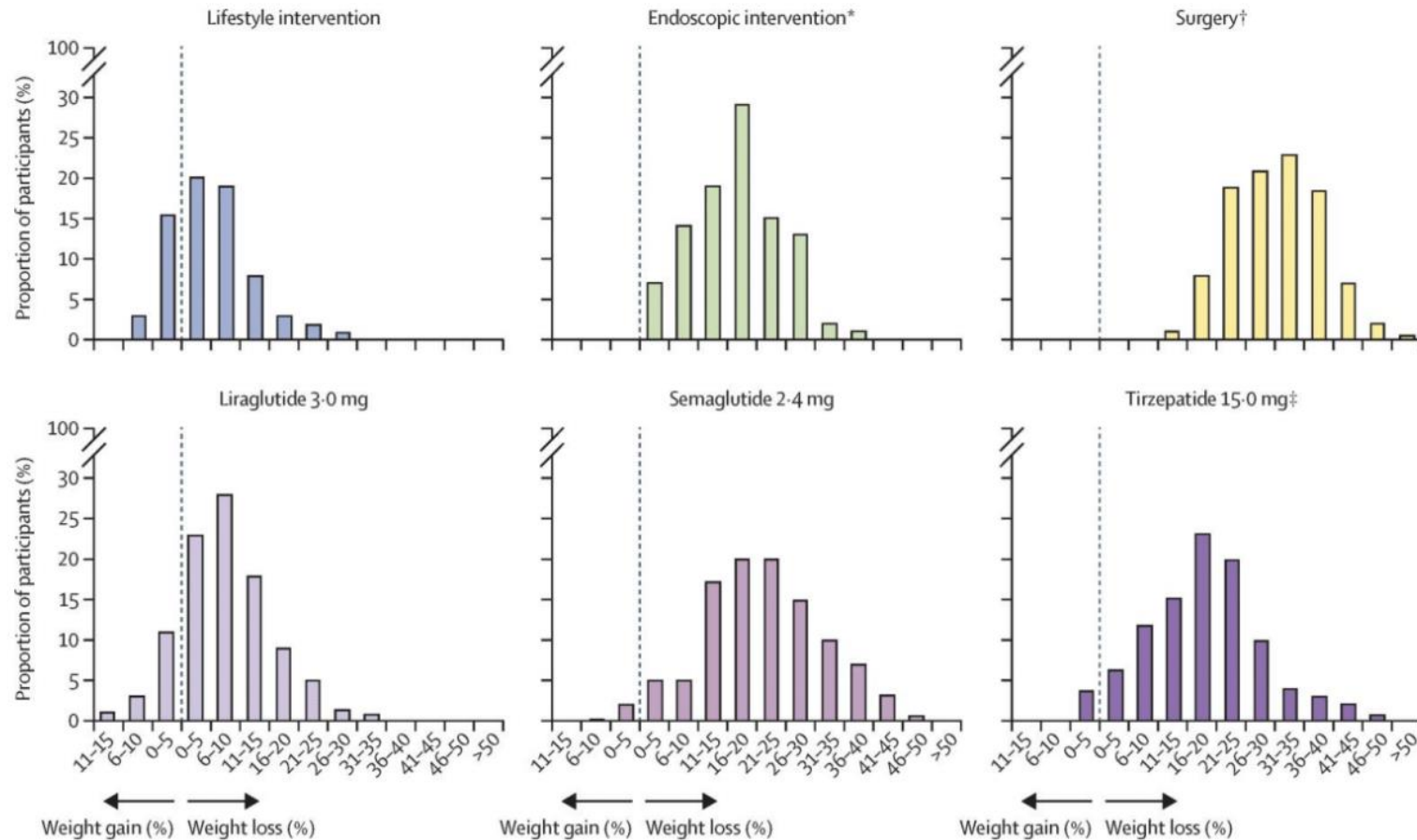
# MyPhenome<sup>®</sup> Test Overview

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MY**PHENOME**

# Obstacles in the Obesity Pandemic

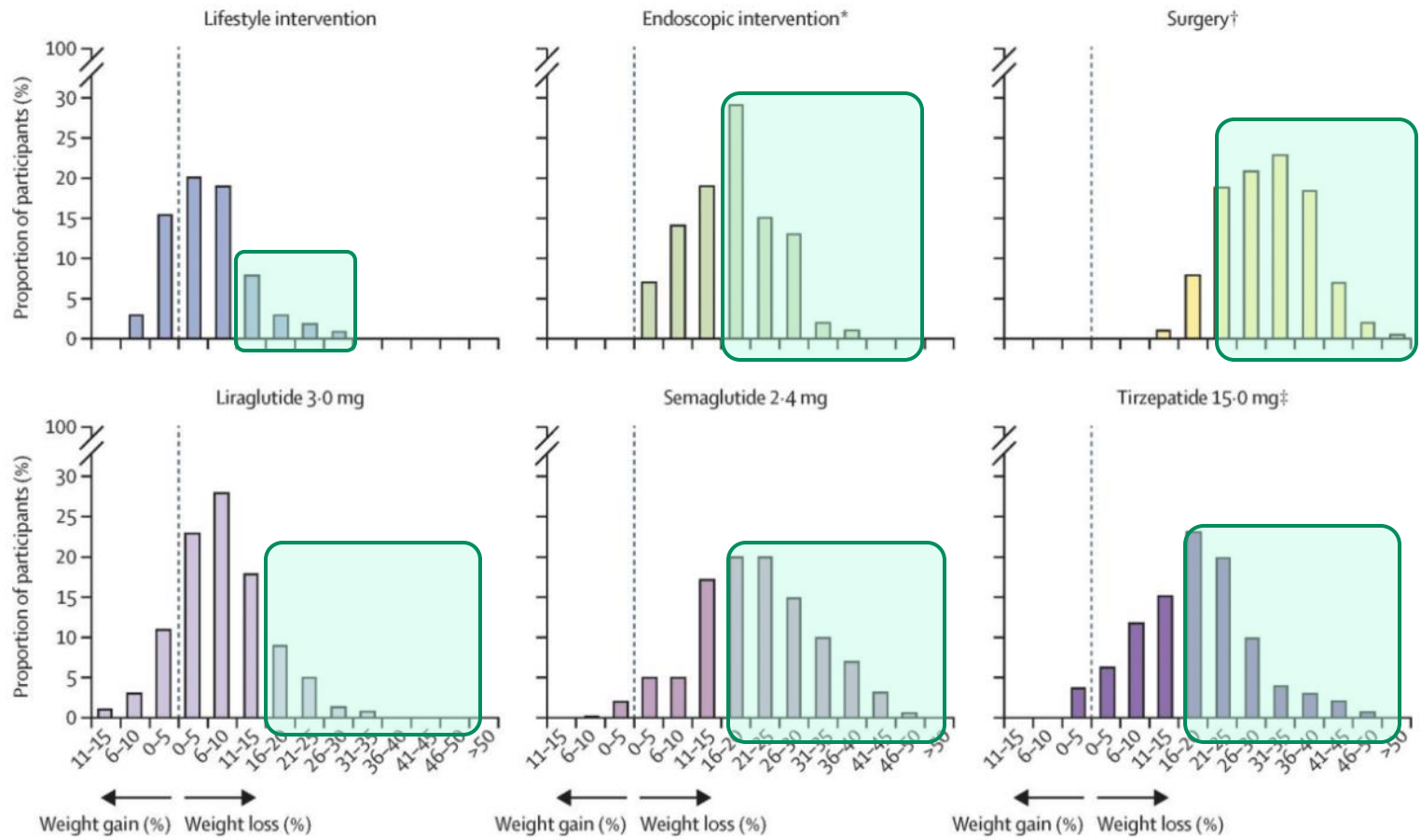
**Non-responders to obesity interventions, even GLP-1 drugs**, due to the well-documented but unsolved variability in patient response.



Opportunities to Tackle

# ~~Obstacles~~ in the Obesity Pandemic

Targeting interventions at patients who will benefit most avoids the time, cost and frustration of inadequate outcomes due to the uncertainty in patient response to interventions



# Why get tested?

Reduce the risk of having a limited response to weight loss interventions

1

**Clinically Demonstrated** – Scientific evidence shows phenotype guidance **improves weight loss outcomes than current approaches**<sup>1-3</sup>

2

**Saves Money** – Less money spent on ineffective interventions

3

**Saves Time** – Eliminates trial-and-error and combats the challenge of “one size fits all”

1. [PhenoDiet Clinical Study in Lancet](#)
2. [Selection of Antiobesity Medications Study in Obesity](#)
3. [Genetic insights into satiation variability to predict response to treatment in Cell Metabolism](#)



## MY PHENOME TEST REPORT

PATIENT		SPECIMEN		PROVIDER	
Name:	John David	Sex:	Male	Collection Date:	December 22, 2024
Patient ID:	619697899	Date of Birth:	November 11, 1999	Specimen ID:	PHX0002251
Height:	6ft 5in	Age:	24	Report Date:	June 02, 2025
Weight:	188.0 lbs	Collection Time:	07:11 AM	Received Date:	June 02, 2025
BMI:	20.32	BMI:	22.26	Client ID:	1316953409

### Test Results



#### POSITIVE for Hungry Gut™

##### Clinical Considerations

**Lifestyle/Diet:** 3-5 meals per day, pre-meal protein, low-calorie

**Medications:** Liraglutide (Saxenda®), Semaglutide (Wegovy®), Tirzepatide (Zepbound®)

**Procedure/Surgery:** Roux-en-Y gastric bypass (S), endo sleeve gastrectomy (P), intragastric balloons (P)

**Hungry Gut** (also known as **Abnormal postprandial satiety**) affects about 40% of patients with obesity.



#### NEGATIVE for Hungry Brain™

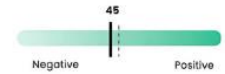
##### Clinical Considerations

**Lifestyle/Diet:** 1-2 meals per day, high-fiber, low-calorie

**Medications:** Phentermine-Topiramate ER (Qsymia®)

**Procedure/Surgery:** Laparoscopic sleeve gastrectomy (S)

Our studies suggest that approximately 60% of patients with obesity do not have the Hungry Brain™ phenotype.<sup>1</sup>



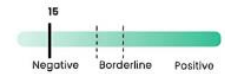
#### NEGATIVE for Emotional Hunger

##### Clinical Considerations

**Lifestyle/Diet:** 3 meals per day, weekly behavioral therapy, low-calorie

**Medications:** Bupropion-Naltrexone SR (Contrave®)

Our studies suggest that approximately 70% of patients with obesity do not have the Emotional Hunger phenotype.<sup>1</sup>



**Next Steps:** After reviewing your results with your provider and discussing your treatment journey, please login to your MyPhenome portal to learn more and access additional resources made available to you on each of the treatment options you'll be moving forward with.

1. Acosta A, Camilleri M, et al. Obesity, 2021  
P = Procedure, S = Surgery

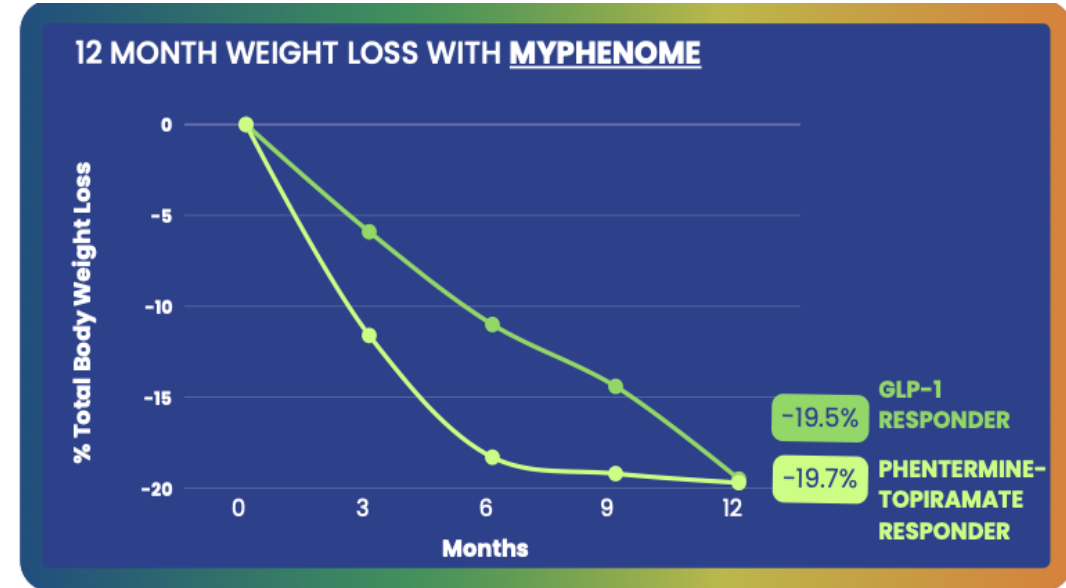
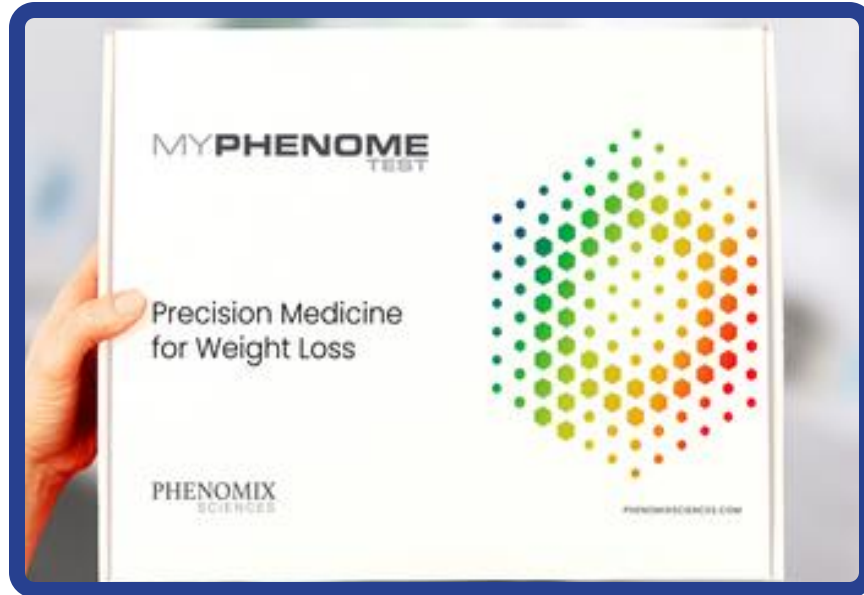
This report tells you about your phenotype. The information about patient response to different phenotypic interventions are based on clinical studies from Mayo Clinic. The number associated with each phenotype (seen above the slider) explains your risk for that specific phenotype. Details of the technical analysis and interpretation are provided at the end of this report. Interpretation of the data performed by Phenomix Sciences, evidence-based discovery by Drs. Acosta and Camilleri at Mayo Clinic.

# Contents

- MyPhenome® Test overview
- MyPhenome® testing process
- MyPhenome® making a clinical difference
- Link to account initiation form for providers ready to get started

# MyPhenome DNA Testing

FIRST therapy guidance test for precision obesity medicine



U.S. News & World Report

Forbes  
HEALTH

TIME

WSJ

CNN

WIRED



MYPHENOME


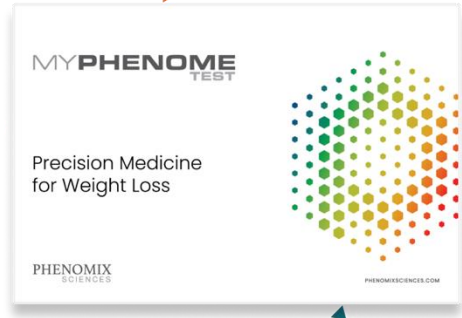
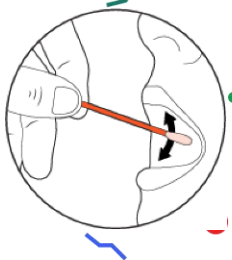
# What is MyPhenome Test?

## Product: Buccal-Swab genetic test

- Measures ~6,000 SNPs across 30+ genes
- Identifies a patient's phenotype(s) which can help inform whether a patient is a responder to a specific weight loss intervention:
  - Lifestyle – Phenotype specific diet and behavior modifications
  - Medication – GLP-1's (Hungry Gut), Qsymia (Hungry Brain), and Contrave (Emotional Hunger)
  - Surgery –Bariatric surgeries, Endoscopic sleeve gastroplasty, and Intra gastric balloons,

## Testing Process:


- Patient has a lab order placed by their provider in the MyPhenome® portal
- Patient collects sample (no eating, drinking, brushing teeth, chewing gum 30 min prior to taking the test)
- Patient signs consent and completes their registration
- Results arrive ~3 weeks after patient ships test to lab for analysis

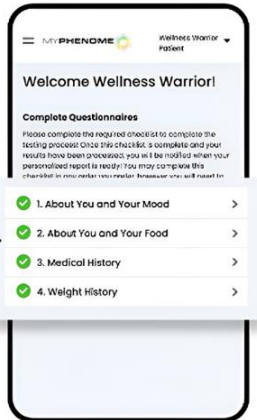


**✓ Patient registration checklist**

- ☐ **1 Check email**  
Look for an email from [no-reply@phenomixsciences.com](mailto:no-reply@phenomixsciences.com) to retrieve your MyPhenome Portal registration link. Check your junk / spam if you do not see it at first.
- ☐ **2 Register**  
Click the registration link in the email to log in to your portal.
  - ☐ **Complete required questionnaires.** Complete the required questionnaires in the home page of the MyPhenome Portal. This is necessary to complete your phenotyping analysis and to provide you with your personalized report.
- ☐ **3 Collect sample and ship to lab**  
Follow the included instruction guide.

**1** Expect to receive your results in 3–5 weeks.

 Track your sample status and access your results in the MyPhenome Portal at [myphenome.phenomixsciences.com](https://myphenome.phenomixsciences.com)



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PHX-KITCRD-SA-01

# Reducing response variability

MyPhenome<sup>®</sup> guided interventions improve outcomes for patients on anti-obesity medications

Weight Loss Medication	Regimen <sup>1</sup>	Efficacy <sup>1</sup>	MyPhenome Guided Efficacy
Phentermine-Topiramate	Once daily in the morning with a meal	Loss of <b>11%</b> total body weight	Loss of <b>~20%</b> total body weight <sup>2</sup>
Bupropion-Naltrexone	Twice daily, best with behavior therapy	Loss of <b>6%</b> total body weight	Loss of <b>12%</b> total body weight <sup>3</sup>
GLP-1	Weekly Injection	Loss of <b>8%–21%</b> total body weight	Loss of <b>~20%</b> total body weight <sup>4</sup>

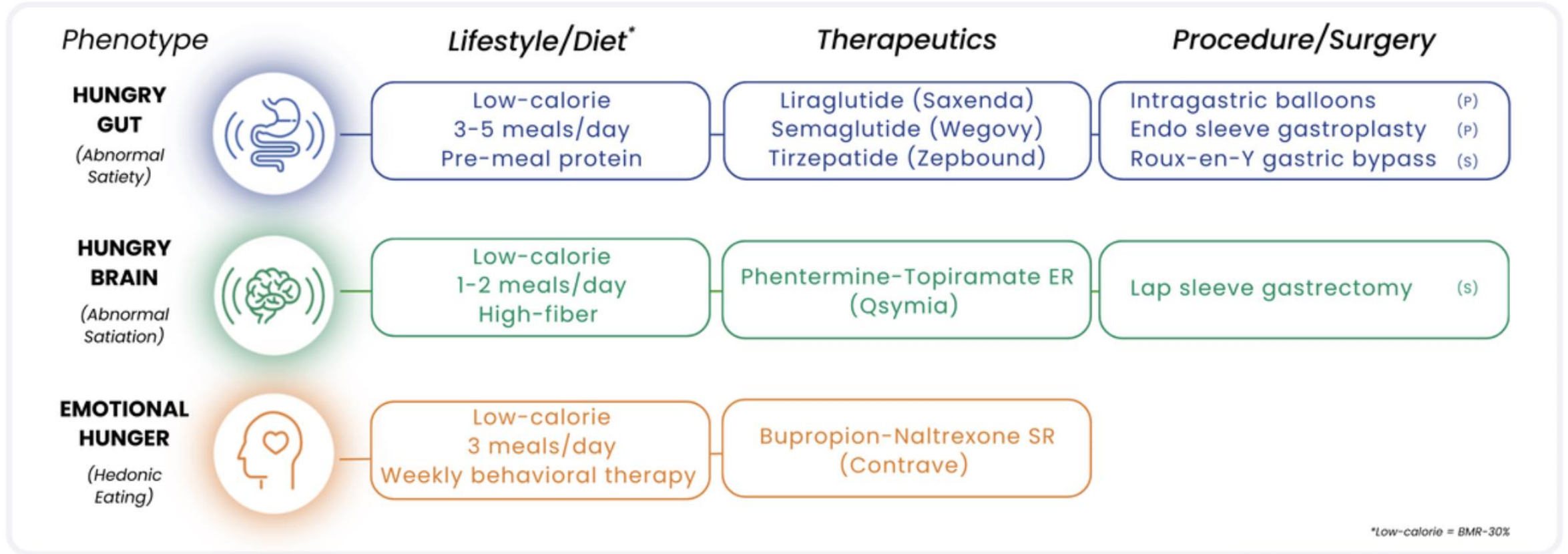
1. Voelker R. Medications for Obesity. JAMA. 2025

2. Research from internal validation study (November 2023)

3. Acosta, Andres et al., Obesity. 2021

4. Research from Mayo Clinic presented by Sima Fansa, M.D. at DDW May 2024

# What are the MyPhenome Guided Interventions?



Acosta A, et al., Gastroenterology. 2015  
 Acosta A, et al., Phys Reports, 2015  
 Halawi H, et al., Lancet GI. 2017

Gomez V, et al., Obesity. 2016  
 Abu Dayyeh BK, et al., Clin Gastro Hepatol. 2017  
 Vargas EJ, et al., BMJ Open Gastroenterol. 2019

Vargas EJ, et al., Clin Gastro Hepat. 2020  
 Acosta A, et al., Obesity. 2021  
 Campos A, et al., Obesity Surgery 2022

Cifuentes L, et al., Lancet Eclinical Med, 2023  
 Vargas EJ, et al, Gut, 2023  
 Gala K, et al., Obesity Surgery, 2023

# Testing Process

# MyPhenome Testing Process

## Registration & Sample Collection

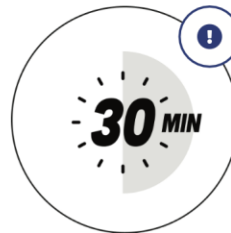
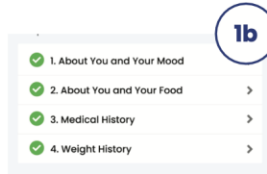
### 1. Complete registration

**i** Registration via your MyPhenome Portal is required to receive your results. The MyPhenome Portal can be accessed via the registration link delivered to your email.

**a** Log in to the portal using the registration link sent to your email from **no-reply@phenomixsciences.com**

**b** Answer **ALL** required registration questionnaires. In order to receive your results, you **MUST** answer **ALL** questions.

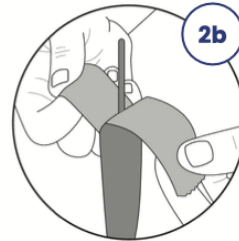
- **Do not eat, drink, brush teeth, chew gum, or smoke for 30 minutes before collecting your sample.**
- Do not touch the swab tip or allow the swab tip to come into contact with any other object.
- Tap the bottom of the tube on a firm surface, gently 2-3 times, to settle the liquid to the bottom of the tube.
- Use the swab included in the kit.



### 2. Collect DNA

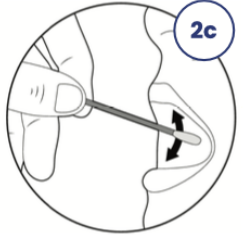
**a** Ensure the tube is standing up on a flat surface. Unscrew the cap to the tube and set the tube upright on a clean, flat surface.

**b** Peel open the bag containing the swab, stick end first, and remove the swab.



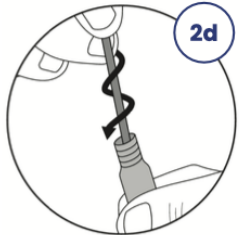
**c** Rub swab tip against the inside of both cheeks 15-20 times each (30-40 total), using light pressure similar to brushing your teeth.

- Rotate swab tip by rolling the handle between your fingertips as you are rubbing the inside of your cheek.
- Cover the entirety of both cheeks from top to bottom and side to side.



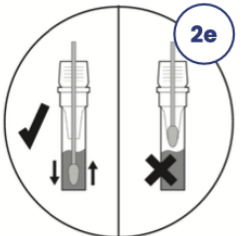
**d** Pick up the tube and hold it steady in one hand. Slowly twist the swab into the tube with a corkscrew motion. There will be resistance, but push the swab to the bottom of tube.

**e** While holding the tube steady, agitate the swab tip in the liquid by moving the swab up and down 10-15 times without moving the swab out of the liquid.



**f** Hold the tube firmly and remove the swab by slowly twisting out with a corkscrew motion. Properly dispose of the used swab in your trash.

**g** Replace the cap tightly back on the tube and place the tube inside the biohazard bag.



**i** Log in to the portal and **complete** your registration. If this step is missed, you will **NOT GET YOUR RESULTS!**

**h** Seal the biohazard bag containing the sample tube and place it back inside the box with the pre-addressed return label.

**i** Seal the box. Place the sealed box, with your sealed sample inside, in your mailbox or bring it to the Post Office.



# MyPhenome Testing Process

## Accessing Results


### 3. View results

- a** Allow 5-7 business days for your sample to arrive at the lab.
- b** Once your sample arrives at the lab it will be analyzed and your results will be ready in **3-5 weeks**.
- c** You will be notified by email when your results are ready to be viewed.

Track your sample status and access your results in the MyPhenome portal at [myphenome.phenomixsciences.com](https://myphenome.phenomixsciences.com)




MYPHENOME



TEST REPORT


PATIENT			SPECIMEN		PROVIDER
Name:	Sex:	Date of Birth:	Collection Date:	Specimen ID:	Institution/Account Name:
John David	Male	November 11, 1999	December 22, 2024	PHX0002251	Myphenome Test
Patient ID:	Height:	Age:	Collection Time:	Report Date:	Provider Name:
519697899	6ft 5in	24	07:11 AM	June 02, 2025	Dr. David Miller
BMI:	Weight:	BMI:	Received Date:		Client ID:
2032.65	188.0 lbs	22.26	June 02, 2025		1316953409

### Test Results




#### POSITIVE for Hungry Gut™

**Clinical Considerations**  
**Lifestyle/Diet:** 3-5 meals per day, pre-meal protein, low-calorie  
**Medications:** Liraglutide (Saxenda®), Semaglutide (Wegovy®), Tirzepatide (Zepbound®)  
**Procedure/Surgery:** Roux-en-Y gastric bypass (S), endo sleeve gastropasty (P), intragastric balloons (P)  
*Hungry Gut (also known as Abnormal postprandial satiety) affects about 40% of patients with obesity.*



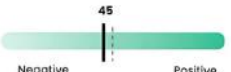
88

Negative Positive




#### NEGATIVE for Hungry Brain™

**Clinical Considerations**  
**Lifestyle/Diet:** 1-2 meals per day, high-fiber, low-calorie  
**Medications:** Phentermine-Topiramate ER (Qsymia®)  
**Procedure/Surgery:** Laparoscopic sleeve gastrectomy (S)  
*Our studies suggest that approximately 60% of patients with obesity do not have the Hungry Brain™ phenotype.<sup>1</sup>*




45

Negative Positive




#### NEGATIVE for Emotional Hunger

**Clinical Considerations**  
**Lifestyle/Diet:** 3 meals per day, weekly behavioral therapy, low-calorie  
**Medications:** Bupropion-Naltrexone SR (Contrave®)  
*Our studies suggest that approximately 70% of patients with obesity do not have the Emotional Hunger phenotype.<sup>1</sup>*



15

Negative Borderline Positive



**Next Steps:** After reviewing your results with your provider and discussing your treatment journey, please login to your MyPhenome portal to learn more and access additional resources made available to you on each of the treatment options you'll be moving forward with.

<sup>1</sup> Acosta A, Camilleri M, et al. Obesity, 2021  
P = Procedure, S = Surgery

This report tells you about your phenotype. The information about patient response to different phenotypic interventions are based on clinical studies from Mayo Clinic. The number associated with each phenotype (seen above the slider) explains your risk for that specific phenotype. Details of the technical analysis and interpretation are provided at the end of this report. Interpretation of the data performed by Phenomix Sciences, evidence based discovery by Drs Acosta and Camilleri at Mayo Clinic

# Provider Account Setup & Kit Ordering

Tests are ordered in bundles with 5 kits per bundle

**Upon Account setup, the provider can make the following selections:**

1. Sample Collection:

**A) Test in-clinic**

**B) Ship Test to Patient's Home**

2. Payment Structure

**A) Account Pays for testing**

**B) Patient Pays PHX directly**

*Some practices choose to pay for the test and include it in a larger health package purchased by the patient. Alternatively, patients can pay Phenomix directly for the test.*

For in-clinic testing: Kits can be ordered directly through the provider's MyPhenome® Portal. (Orders are shipped to the clinic free of charge).



## **MyPhenome Test**

Order a bundle of 5 test kits and pay upon each lab order submission.

**ORDER KIT BUNDLE**

# Placing a lab order for a patient's MyPhenome Test

Providers can place lab orders for patients in their MyPhenome® portals by entering the patient's:

- Name
- DOB
- Email
- Phone #
- Height
- Weight

If the **account** has selected to **pay for the test**, the payment method on file will be charged at the time the lab order is placed.



If the account has selected to have the **patient pay Phenomix directly** for the test, the patient will receive a link to complete payment at the time the lab order is placed.

The screenshot displays the MyPhenome portal interface. On the left is a sidebar menu with options: Clinics, Users Management, Kit Orders, Kit Inventory, Patients (highlighted), Payments, Resources, and Contact Us. The main area features a 'Add Patient' modal form with the following fields: Provider (dropdown), First Name (text), Last Name (text), Sex assigned at birth (dropdown), Date of Birth (text with mm/dd/yyyy format and calendar icon), Email (text), Mobile Phone (text with +1 country code dropdown), and a '+ ADD LAB ORDER' button. Below these are fields for Clinic (dropdown), Sample ID (dropdown), Height (text with 'in' unit dropdown), Waist Circumference (text with 'in' unit dropdown), and Weight (text with 'lb' unit dropdown). At the bottom of the form are 'CANCEL', 'SAVE AS DRAFT', and 'SAVE' buttons. To the right of the form is a table of existing patients with columns for Clinic name, Provider, and Actions. The table lists several entries for 'MyPhenome Clinic 2' and 'HCP 1 Demo'. A search bar at the top right of the table says 'Search for anything'. At the bottom right of the screen, it says 'Rows per page: 10' and '11-20 of 20'.

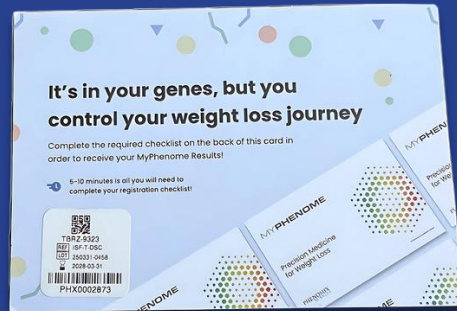
Ordering page for MyPhenome® Test testing in clinic

# Patient Registration

Once a lab order has been placed and payment completed, the patient will receive an email with their link to complete their patient registration.

*If you are testing in clinic,*

*Make sure patients take home their patient registration cards from their kit*

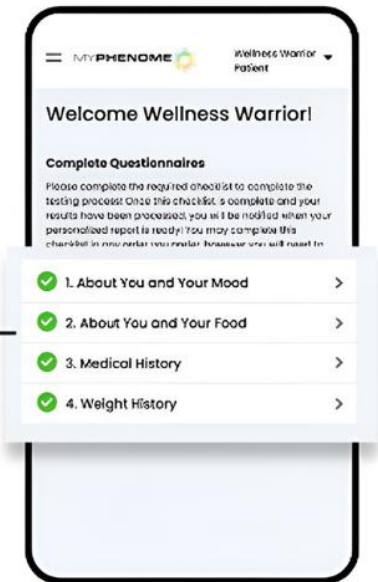


## ✓ Patient registration checklist

- ☐ **1 Check email**  
Look for an email from [no-reply@phenomixsciences.com](mailto:no-reply@phenomixsciences.com) to retrieve your MyPhenome Portal registration link. Check your junk / spam if you do not see it at first.
  - ☐ **2 Register**  
Click the registration link in the email to log in to your portal.
    - ☐ **Complete required questionnaires.** Complete the required questionnaires in the home page of the MyPhenome Portal. This is necessary to complete your phenotyping analysis and to provide you with your personalized report.
  - ☐ **3 Collect sample and ship to lab**  
Follow the included instruction guide.
- i** Expect to receive your results in 3–5 weeks.



Track your sample status and access your results in the MyPhenome Portal at [myphenome.phenomixsciences.com](https://myphenome.phenomixsciences.com)



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# Accessing Results as a Provider

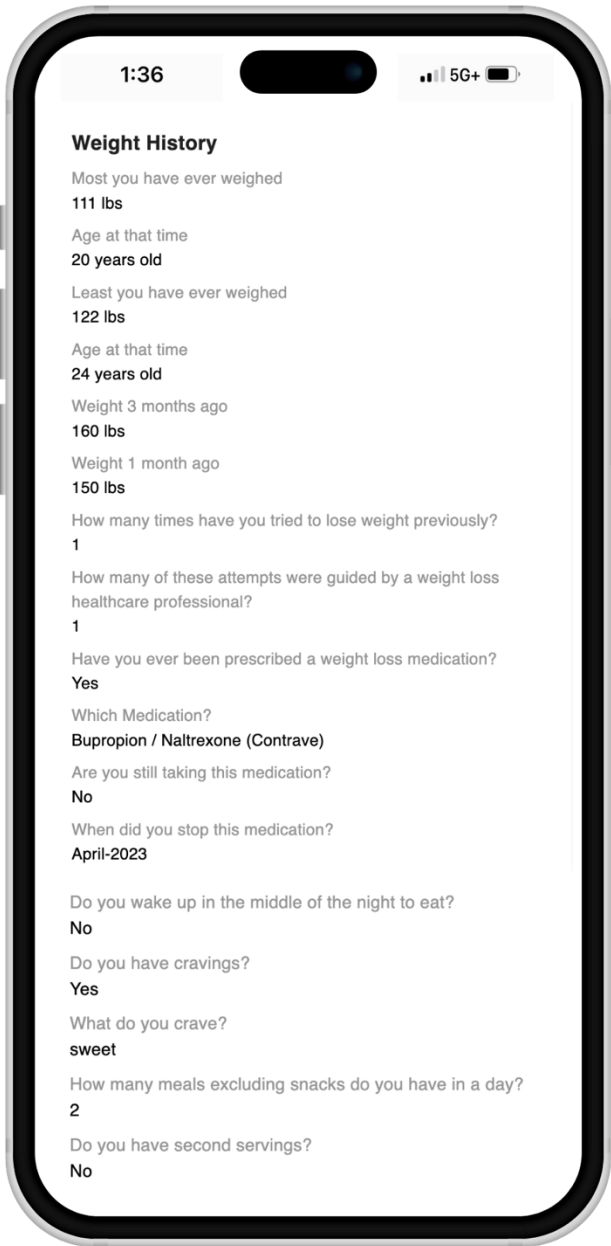
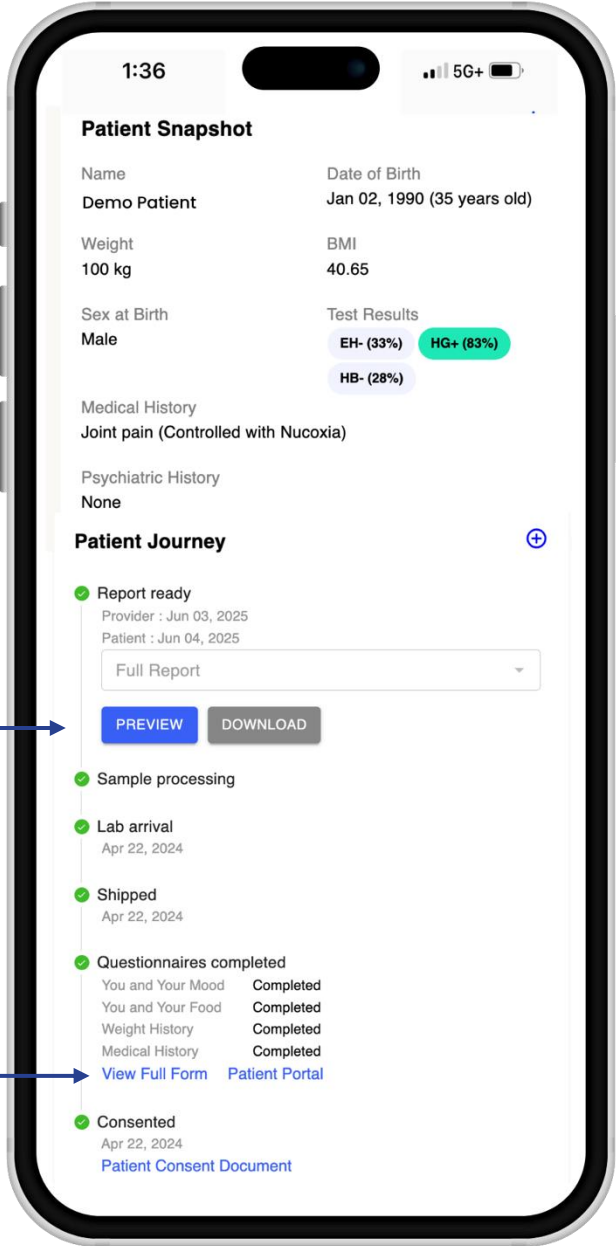
Providers receive access to results 24 hour prior to the patient.

Providers and Patients are notified via email when results are ready.

Via the patient’s profile in the provider portal, Providers will be able to access:

Full patient report  
(to view in the portal or download for off-line viewing)

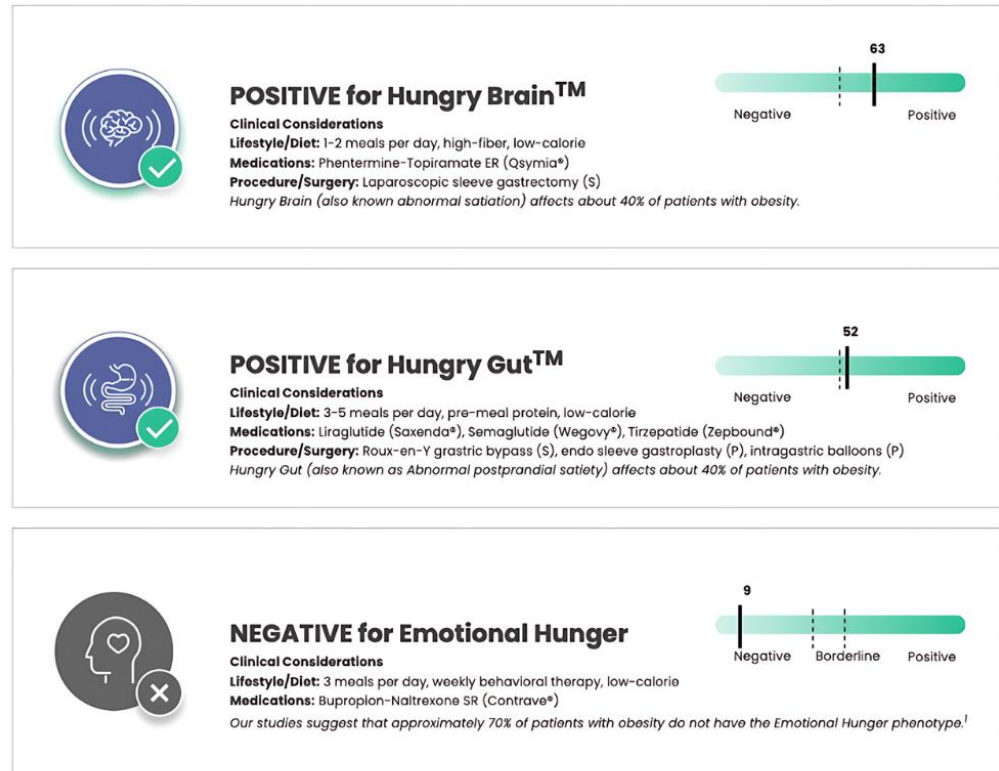
Patient responses  
collected during registration



# Reading Results

Results will be returned within 3-5 weeks

## Test Results



1. Results will reveal whether the patient is **positive or negative** for each phenotype *(with the heterogeneity of obesity, it is not unheard of for a patient to have more than 1 phenotype).*
2. Results are reported in order from **strongest score to weakest score** – allowing the provider to treat the dominant driver of the patient's energy imbalance
3. Reports will include **action plan pages** for each positive phenotype. Action plans will include a dedicated page for lifestyle, medications, and procedures.

# MyPhenome Marketing Materials

Complimentary Marketing Materials can be ordered directly via the *resources* section in the portal

## Resources



### Order MyPhenome Marketing Materials

[VIEW ORDERS](#)[VIEW CART](#)[BACK](#)

#### Brochures

[PREVIEW BROCHURES](#)

− 0 +

Brochures Pack(s)

Max Quantity Available = 1 Pack(s)

1 Pack = 25 Brochures

#### One-Pager

[PREVIEW ONE-PAGER](#)

− 0 +

One-Pager Pack(s)

Max Quantity Available = 1 Pack(s)

1 Pack = 25 One-Pager

#### Office Area Poster

[PREVIEW OFFICE AREA POSTER](#)

− 0 +

Office Area Poster Pack(s)

Max Quantity Available = 1 Pack(s)

1 Pack = 2 Office Area Poster  
(dimensions: 20"24)

#### Table-Tents

[PREVIEW TABLE-TENTS](#)

− 0 +

Table-Tents Pack(s)

Max Quantity Available = 1 Pack(s)

1 Pack = 5 Table-Tents  
(dimensions: 5"7)

#### Patient Room Poster

[PREVIEW PATIENT ROOM POSTER](#)

− 0 +

Patient Room Poster Pack(s)

Max Quantity Available = 1 Pack(s)

1 Pack = 2 Patient Room Poster  
(dimensions: 20"24)



MYPHENOME

# MyPhenome Provider Network

<https://www.MyPhenome®test.com/find-a-provider>

All new Accounts will be added to our find a provider map online for patients to find providers near them offering MyPhenome®.

Providers who are regular test users will be listed at the top of our find a provider map as a

**Premier Provider**

Example:

**Premier Provider**

**Bhatti Weight Loss Center**

1463 White Oak Drive, Chaska , MN 55318

[CLINIC WEBSITE](#) · [VIEW ON GOOGLE MAPS](#)



# MyPhenome Making a Clinical Difference

## Patient A: **16-year-old male**

<b><u>Baseline</u></b>	270lbs BMI 40 kg/m <sup>2</sup>
<b><u>History</u></b>	Patient was put on <b>Semaglutide</b> (not covered by insurance but mother was willing to pay for medication) Patient has <b>gained 20 pounds over the past 3 months</b> Mother wants to know what is happening and why GLP-1 not working
<b><u>Results</u></b>	<ul style="list-style-type: none"><li>✓ <b>Hungry Brain</b></li><li>✗ Hungry Gut</li><li>✗ Emotional Hunger</li></ul>
<b><u>Next Steps</u></b>	<b>Lifestyle:</b> Hungry Brain Diet - 1-2 meals/day high fiber at meal initiation with LCD. 80 to 100 grams of protein daily recommended to help preserve muscle mass. <b>Medication:</b> Topiramate 25mg 2x/daily
<b><u>Outcomes</u></b>	<b>Patient is down 75 lb (BMI: 30) within 6 months</b>

## Patient B: **53-year-old female**

280lbs BMI 40 kg/m <sup>2</sup>
Hyperlipidemia- controlled with rosuvastatin Depression - controlled with sertraline Patient <b>lacks insurance coverage for GLP-1 meds.</b> Patient is <b>willing to pay \$600/month if assured of effectiveness.</b>
<ul style="list-style-type: none"><li>✓ <b>Hungry Gut</b></li><li>✗ Hungry Brain</li><li>✗ Emotional Hunger</li></ul>
<b>Lifestyle:</b> Hungry Gut Diet - 3-4 meals/day, protein 30 min prior to meal, high protein low calorie diet. <b>Medication:</b> Tirzepatide 2.5 mg & titrated to 15 mg
<b>Patient is down &gt;95 lb within 9 months with a BMI &lt;30</b>

# Ready for a MyPhenome Account?

- ❖ If you are ready to get started with a MyPhenome® Account to begin ordering tests for patients, please fill out the account initiation form linked below.
- ❖ Once submitted, you will be redirected to schedule a 30-minute onboarding call where we will walk you through how to place lab orders and how to access / review results.

**[CLICK HERE TO COMPLETE THE ACCOUNT INITIATION FORM](#)**

# Key Take-Aways

- ❖ **Obesity medicine is complex and costly – one size fits NONE**
- ❖ New drugs make a difference, but **variability in response limits their value and adds unnecessary cost and complexity to care**
- ❖ **MyPhenome® DNA testing removes the issue of response variability** in obesity by using precision medicine
- ❖ **MyPhenome® has demonstrated utility in guiding patient care** - revealing each patient's unique phenotype profile allows providers to optimize a patient's lifestyle, medication, and/or procedure recommendations
- ❖ Scientific evidence shows **phenotype guidance improves weight loss outcomes when compared to the current approach**

