What if your brain couldn't tune out your hunger?

A rare genetic disease of obesity could be the cause

Insatiable hunger is an intense hunger that may not go away. It can make it hard for you to focus, and it seems like no matter what you do you continue to gain weight.

This hunger and obesity may be caused by a disease that is preventing your brain from telling you that you're full.

LEAD for RARE OBESITY™

Listen, Empower, Advocate, and Drive change
for rare genetic diseases of obesity

All obesity is not the same

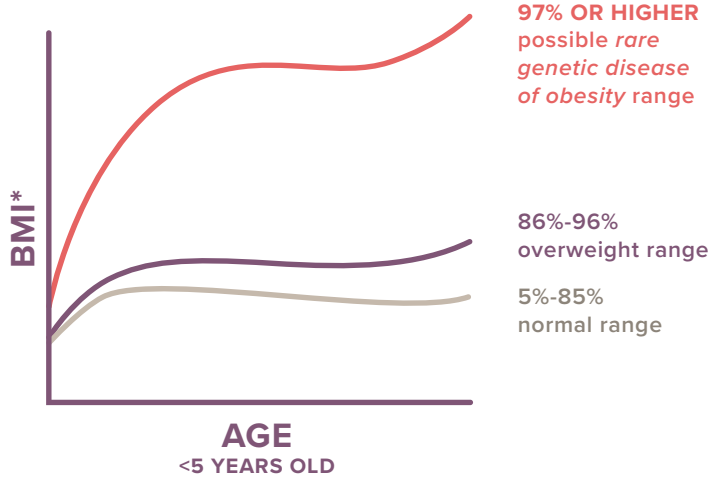
Rare genetic diseases of obesity are caused by changes in a key part of the brain called the MC4R pathway.

This pathway is responsible for controlling hunger by sending signals to your body telling you when to eat and when to stop.

When the pathway doesn't work properly, these important messages can't get through and hunger gets stuck in the “on” position, leading to weight gain.

SIGNS OF RARE GENETIC DISEASES OF OBESITY:

- Extreme weight gain early in life
- Insatiable hunger, also known as hyperphagia



*Body mass index (BMI), determined by comparing height and weight, can be used as a general measure of body fat. The BMI-for-age percentile growth charts are the most commonly used indicator to measure size and growth patterns in children.

A different kind of hunger

Insatiable hunger can be overwhelming.

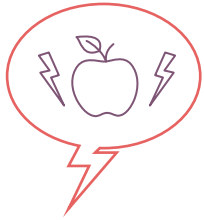
COMMON EXPERIENCES INCLUDE:

Intense hunger that may never go away

Taking a longer time to feel full while eating

Feeling hungry again right after a meal

Thinking about food constantly



Becoming very upset when food is unavailable

Food-seeking behavior (e.g., sneaking or stealing food)

Genetic testing

If these experiences sound familiar, a genetic test could provide important information to you and your doctor. Genetic testing can help inform your diagnosis, your treatment options, and potential eligibility in clinical trials.

Rhythm Pharmaceuticals is sponsoring the **Uncovering Rare Obesity**® program, which offers no-charge genetic testing for eligible individuals who suspect a rare genetic disease of obesity. Rhythm pays for the test, but your doctor may charge for the office visit, sample collection, and other elements.

PROGRAM OVERVIEW:

- Tests are processed through a clinical laboratory
- Your doctor or healthcare professional orders the test — you can take it in the office or at home
- Your doctor receives the genetic test report in about 3 weeks and reviews it with you
- Licensed genetic counselors from PWNHealth are available to answer questions and help interpret results through 2 no-charge, optional genetic counseling sessions, one before and one after your test

gc@pwnhealth.com

1-888-494-7333

Monday – Friday, 9am – 5pm ET

Find more information at **RareObesityTest.com**.

“Having a genetic test gave us answers. It helped us understand that Drake’s challenges weren’t our fault, and they weren’t Drake’s fault.”

DENISE, MOM TO DRAKE, WHO LIVES WITH A RARE GENETIC DISEASE OF OBESITY

LEAD for RARE OBESITY™

LEAD for Rare Obesity is a resource created and sponsored by Rhythm Pharmaceuticals to **L**isten, **E**mpower, **A**dvocate, and **D**rive change for people affected by rare genetic diseases of obesity.

We invite you to explore our website for more information, helpful resources, and stories from people with similar experiences.

Learn more at **LEADforRareObesity.com**.

facebook.com/LEADforRareObesity

Rhythm Pharmaceuticals is dedicated to transforming the care of people living with rare genetic diseases of obesity.

Rhythm PHARMACEUTICALS

UNCOVERING
RARE OBESITY®

If you think there's more to your obesity and hunger, talk to your doctor to find out why

Uncovering Rare Obesity is a program sponsored by Rhythm Pharmaceuticals to help identify rare genetic diseases of obesity. Eligible individuals can receive a genetic test and 2 genetic counseling sessions (one before and one after the test) at no charge. Participants are responsible for doctor visit, sample collection, and other costs.

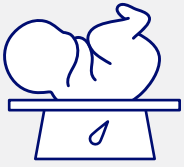
Learn how the **Uncovering Rare Obesity** program may help your search for answers.

Rhythm®
PHARMACEUTICALS

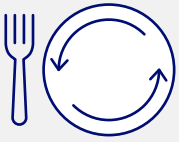
Do you suspect there's more to your obesity than diet or lifestyle?

Some forms of obesity are caused by variants or changes in your genes. Genes are your body's instruction manual. They determine how your body grows, develops, and functions.

Changes in your genes can cause certain diseases, like rare genetic diseases of obesity. In these conditions, a key part of the brain responsible for controlling hunger doesn't work properly and prevents the brain from telling the body that the stomach is full. Without this important signal, hunger is stuck in the "on" position, causing:



severe obesity that begins early in life (known as early-onset obesity)



feelings of intense hunger that may never go away (known as hyperphagia)

These are the hallmark symptoms of rare genetic diseases of obesity. **If this sounds familiar, genetic testing may provide useful information to you and your doctor.**

YOUR PRIVACY IS OUR PRIORITY

As part of the testing program, your de-identified (all personal information removed) information will be shared with Rhythm to help better understand genetic causes of obesity.

You may also choose to share your identifiable health information with Rhythm so we can help determine your eligibility for clinical trials and research studies, and share educational information with you.

JOAN AND HER SON TYSEN, who is living with POMC heterozygous deficiency

By agreeing to participate in this genetic testing program, you are helping support research efforts now and in the future.

GENETIC TESTING: AN IMPORTANT STEP

The Uncovering Rare Obesity program offers a no-charge genetic test that may provide important information to your doctor.

This information can help inform:

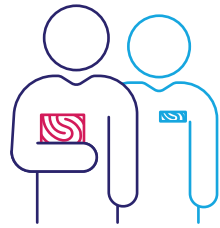
- Potential eligibility for clinical studies
- Appropriate disease management and care options
- A potential diagnosis

The test is conducted by PreventionGenetics, a clinical laboratory. A genetic report with the results from your test will be sent directly to your doctor in approximately 3 weeks.

For more information about this program, visit **RareObesityTest.com**.

SUPPORT THROUGHOUT THE PROCESS

The Uncovering Rare Obesity program includes 2 genetic counseling sessions with a licensed genetic counselor who can answer your questions before testing and review your results after testing. Interpretation is available for multiple languages.



Schedule an appointment with a genetic counselor:

gc@pwnhealth.com

1-888-494-7333
Monday – Friday, 9am – 5pm ET

UNDERSTANDING ELIGIBILITY

A healthcare professional must order the test on your behalf. To qualify, you must be located in the United States and its territories, AND:

≤18 years of age with a BMI **≥97th** percentile

≥19 years of age with a BMI **≥40** and a history of childhood obesity

OR

an immediate family member of select, previously tested patients

showing clinical symptoms which suggest Bardet-Biedl syndrome, as the test may help provide additional evidence to support diagnosis

Even if you've already had a genetic test, retesting may be an option. The program has been expanded to include nearly double the number of obesity genes, so it may provide new information.

"The test was a simple swab. As hard as it was to get the diagnosis, it was a relief to at least have an answer and to know that we were not imagining this and we weren't doing anything wrong."

KAREN, Mom to an Uncovering Rare Obesity program participant

Changing the way our world understands obesity

LEAD for Rare Obesity is a resource created and sponsored by Rhythm Pharmaceuticals to **L**isten, **E**mpower, **A**dvocate, and **D**rive change for people affected by rare genetic diseases of obesity.

Join our community to receive educational materials, support, and resources.

RareObesitySignup.com

facebook.com/LEADforRareObesity

Rhythm® PHARMACEUTICALS