HEREDITARY CARDIOVASCULAR DISEASES

Various cardiovascular diseases are inherited as they are the result of a genetic mutation. Most genetic mutations causing cardiovascular conditions are passed down in an autosomal dominant pattern.

Autosomal dominant pattern means that inheriting only one copy of a mutated gene from one biological parent can cause a disease. Therefore, there is a 50% chance of a child inheriting the same cardiovascular condition as the affected parent.

When a close family member is diagnosed with a hereditary cardiovascular disease, other family members should have genetic testing for earlier identification of the same genetic mutation.

SYMPTOMS OF HEREDITARY CARDIOVASCULAR DISEASES

Symptoms of hereditary cardiovascular diseases vary amongst affected individuals, with some experiencing mild to no symptoms, whereas others experience symptoms like:

- Dizziness
- Heart palpitations
- Fainting
- Shortness of breath
- Fatigue
- Chest pain

TREATMENT OF HEREDITARY CARDIOVASCULAR DISEASES

Depending on the specific disease-causing genetic mutation and the cardiovascular condition, a different treatment plan might be suggested by the healthcare provider. Treatment of hereditary cardiovascular disease might include:

- Lifestyle modification
- Medical screenings at key-time intervals
- Medication
- Surgical intervention

HOW IS **Ventrilia** ADMINISTERED?

ASK YOUR DOCTOR ABOUT **Ventrilia**

YOUR DOCTOR WILL COLLECT A SAMPLE USING A BUCCAL SWAB

THE SAMPLE WILL BE SENT TO **NIPD Genetics**

THE SAMPLE WILL BE ANALYZED IN OUR LABORATORY

RESULTS WILL BE SENT TO YOUR DOCTOR WITHIN 2-4 WEEKS FROM SAMPLE RECEIPT

MORE **QUESTIONS**?

If you have additional questions or concerns, please ask your doctor. You may also contact us:

Online Pharmacy 4U
Goods in/out Offices:
Unit 2 Mansfield Woodhouse,
Station Gateway
Signal Way "off Debdale Lane"
Mansfield Woodhouse
Nottingham
NG19 9Qh.

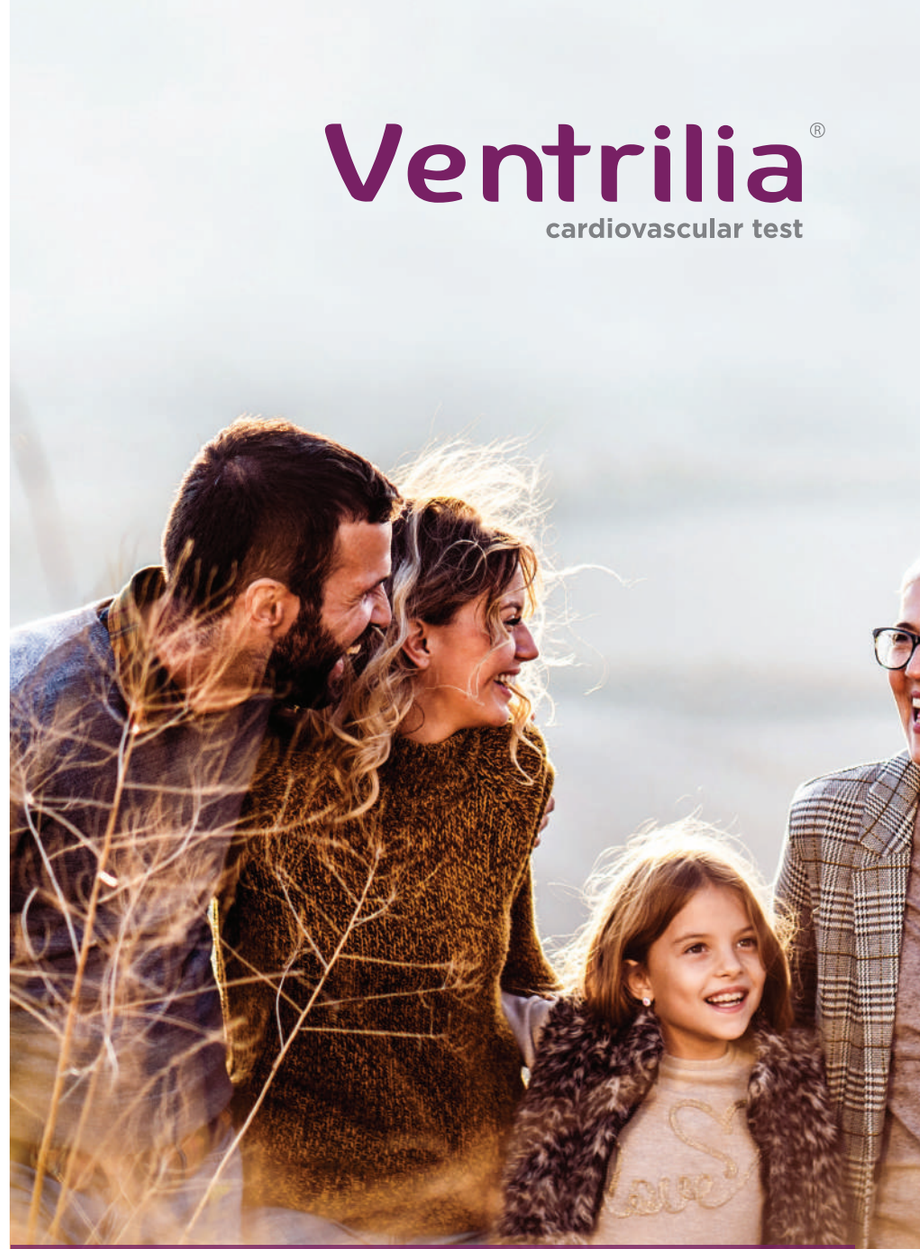
Registered Head Office:
20-22 Wenlock Road,
London
N1 7GU.

01158 823 382
genetics@online-pharmacy4u.co.uk

NIPD GENETICS
A MEDICOVER COMPANY

Ventrilia®

cardiovascular test



Genetic insight about your cardiovascular health

SAFE | SENSITIVE | RELIABLE

WHAT IS **Ventrilia**?

Ventrilia is a new generation genetic test that screens for hereditary cardiovascular syndromes and diseases in individuals.

Ventrilia identifies numerous genetic changes (mutations) that cause multiple cardiovascular conditions with complex symptoms. Early identification of an underlying cardiovascular condition allows for timely intervention and can guide towards more effective treatment and management.

WHY CONSIDER **Ventrilia**?

Cardiovascular diseases are the leading cause of illness and death worldwide, responsible for 31% of all global deaths. There are many types of congenital cardiovascular diseases, ranging from simple to complex diseases with severe life-threatening symptoms. Overlapping symptoms can make it challenging to identify the underlying cardiovascular condition.

Ventrilia can detect mutations that cause cardiovascular diseases and help your healthcare provider to choose an ideal treatment, develop a better clinical management plan and reduce the risk of sudden cardiovascular events, such as stroke or heart attack.

Additionally, Ventrilia can help identify at-risk family members who might be predisposed to hereditary cardiovascular diseases. For high-risk individuals with a cardiovascular genetic mutation that have not yet presented any symptoms, the healthcare provider can recommend appropriate examinations at key time intervals. Early intervention can potentially be lifesaving.

Cardiovascular diseases account for 30% and 33% of premature deaths in Europe in women and men respectively.

WHO IS **Ventrilia** FOR?

- Symptomatic individuals with an unidentified cardiovascular genetic disease
- Individuals with family history of hereditary cardiovascular disease or sudden cardiac death
- Individuals experiencing fainting or unexplained seizures
- Individuals with clinical diagnosis of aortic defect, or irregular cardiovascular anatomy
- Individuals with clinical diagnosis of channelopathies *(irregular heart rhythm)*
- Individuals experiencing symptoms, suspected of having a cardiovascular-associated genetic condition *(shortness of breath, excessive sweating, heart pain, weakness)*
- Individuals in high-risk groups *(eg. high cholesterol)*

HOW DOES **Ventrilia** HELP ME?

- Early identification of underlying cardiovascular conditions
- Accurate detection of genetic mutations
- Improved prognosis
- Guidance towards a more effective treatment based on reliable genetic insight
- Better clinical care
- Prevention of potential cardiovascular disease symptoms, including sudden death

WHY CHOOSE **Ventrilia**?

- **292 GENES** Wide coverage of hereditary cardiovascular disease-causing mutations
- Painless, non-invasive sample collection
- Comprehensive reports
- More effective clinical care
- Superior technology that yields accurate results

Cardiovascular genetic testing is highly recommended by professional societies such as the American College of Cardiology (ACC), American Heart Association (AHA), and the European Society of Cardiology (ESC).

WHAT DOES **Ventrilia** TEST FOR?

Ventrilia is available as **seven disease-specific panels** and **one comprehensive panel**, which includes all genes tested in the disease-specific panels.

AORTOPATHY: A group of diseases that affect the aorta, causing enlargement, dissection or aortic aneurysm

ARRHYTHMIA: Conditions causing irregular, too fast, or too slow heartbeat due to improper electric impulses that coordinate the heartbeat

CARDIOMYOPATHY: A group of diseases of the heart muscle (myocardium) that reduce the efficiency of the heart to pump blood

CONGENITAL HEART DEFECTS (CHD): Defects that are present from birth and affect the heart's structure and efficiency to function

FAMILIAL HYPERCHOLESTEROLEMIA (FH): Common inherited genetic disorder that causes high levels of LDL cholesterol and could lead to heart disease and heart attacks, if left untreated

PULMONARY HYPERTENSION (PH): High blood pressure in the arteries of the lungs and the right side of the heart

RASOPATHIES: A group of genetic conditions that affect the RAS-MAPK pathways and lead to developmental syndromes

MKT-PSN-VEN-PT-EN-V1.2-P4U-1