Marfan's Syndrome





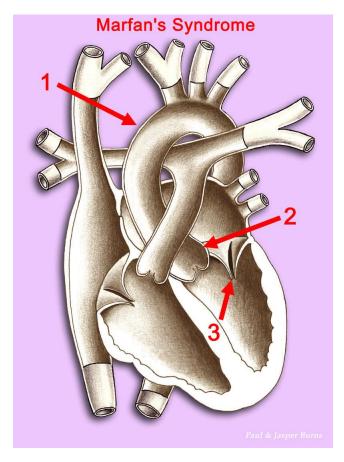
Our lives are dedicated to yours

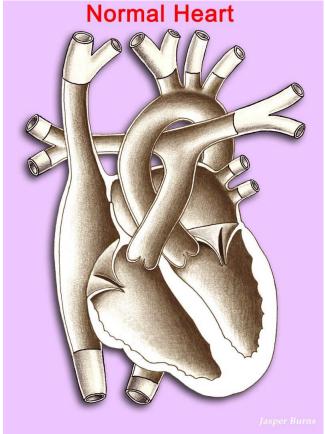
What Is It?

This inherited congenital heart defect involves the enlargement of the aorta - the large vessel that carries blood from the heart to the body's tissues. This enlargement occurs near the aortic valve (2 in diagram) - where the aorta leaves the heart - and may also affect the part of the aorta (1) that carries blood to the body (the ascending aorta).

There may also be abnormalities in the structure of the aortic valve and/or the mitral valve (3), which connects the left atrium and left ventricle.

Marfan's Syndrome (also known as arachnodactyly) is named for Dr. Antonin Marfan, who first described this condition in 1896. It is caused by a genetic defect involving the body's connective tissue and occurs in approximately 1 of every 10,000 people.





Marfan's Syndrome

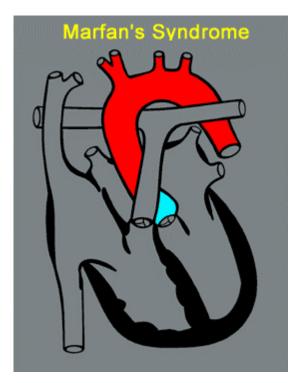
Normal Heart

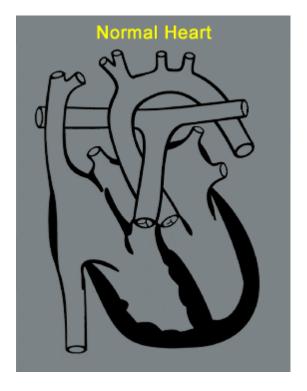
What Are Its Effects?

The enlargement of the aorta (caused by the high blood pressure in this vessel) may cause its walls to become thin and weak. In rare cases, they may actually rupture, sometimes resulting in sudden death.

If the structure of the aortic or mitral valves is abnormal, there may be the leakage of blood at these points, resulting in fatigue, shortness of breath, and an irregular pulse.

People with Marfan's are often very tall and double-jointed, with proportionally long arms, legs, and fingers. They generally have weak connective tissues (such as tendons and ligaments) in various parts of the body, including the skeleton, eyes, heart, and other organs. Besides the difficulties in the heart already described, this may result in curvature of the spine and dislocation of the eye lenses. The severity of the symptoms of Marfan's Syndrome is variable.





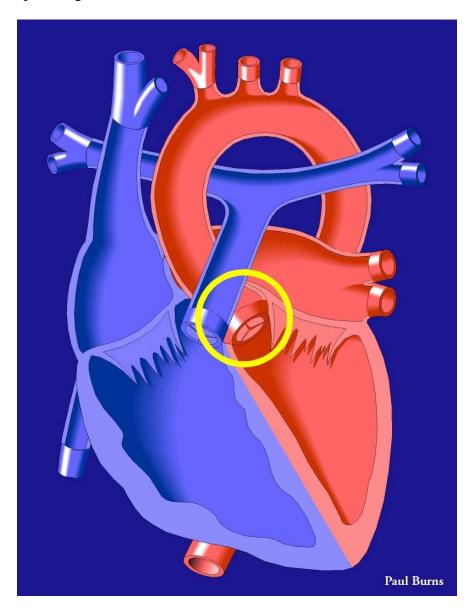
How Is It Treated?

Because the heart symptoms of Marfan's may not be outwardly apparent, it is important for a child with this condition to be examined regularly by a cardiologist.

Medications, such as beta-adrenergic blockers, may be prescribed to keep the aorta from enlarging. In some cases, surgical replacement of an enlarged section of the aorta may become necessary.

A child with Marfan's should also be checked regularly for nearsightedness and for curvature of the spine (scoliosis). The latter may require the patient to wear a removable brace, prescribed by an orthopedic surgeon.

People with the disorder are usually advised to avoid strenuous exercise because of the danger of aortic rupture. However, the treatment of Marfan's is usually quite effective and people with the syndrome may expect long and active lives.



Enlarged Aortic Valve