



Clinical Symptoms, Diagnosis and Treatment of Marfan Syndrome

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DESCRIPTION

The Marfan syndrome is a genetic disorder that affects the body's connective tissue. Connective tissue is the material that gives shape and support to organs, bones, and other tissues throughout the body. In people with Marfan syndrome, the connective tissue is abnormal, which can lead to a wide range of physical symptoms and health problems.

Causes

Marfan syndrome is caused by a mutation in the *FBN1* gene, which provides instructions for making a protein called fibrillin-1. Fibrillin-1 is an important component of connective tissue, and its abnormal production can lead to the features of Marfan syndrome. The abnormal gene is inherited by the majority of individuals with Marfan syndrome from a parent who has the disorder. Each affected parent's kid has a 50/50 chance of inheriting the defective gene. The abnormal gene comes from neither parent in approximately 25% of individuals with Marfan syndrome. In these instances, a new mutation appears on its own.

Symptoms

The symptoms of Marfan syndrome can vary widely from person to person, but commonly include:

Tall and thin physique: Individuals with Marfan syndrome are often taller than average and have long arms, legs, and fingers. They may also have a sunken or protruding chest, curved spine, or other skeletal abnormalities.

Cardiovascular problems: Marfan syndrome can affect the heart and blood vessels, leading to aortic aneurysm (a bulge in the aorta), mitral valve prolapse (a condition in which the valve between the heart's left atrium and left ventricle doesn't close properly), and other heart problems.

Eye problems: Marfan syndrome can cause the lens of the eye to dislocate, leading to blurry vision or other visual disturbances.

Other eye problems associated with Marfan syndrome include nearsightedness, glaucoma, and cataracts.

Joint problems: Marfan syndrome can lead to joint pain, stiffness, and instability, particularly in the knees, hips, and shoulders.

Stretch marks: Marfan syndrome can cause stretch marks on the skin, particularly on the back, shoulders, and hips.

Diagnosis

Diagnosing Marfan syndrome involves a thorough medical history, physical examination, and various tests. These tests may include electrocardiogram (ECG), echocardiogram, imaging tests to assess the aorta and other organs, and genetic testing to confirm the presence of the *FBN1* mutation.

Treatment

Treatment options for Marfan syndrome depend on the severity and type of symptoms. In many cases, treatment may involve regular monitoring and follow-up exams to detect and manage complications. Medications may be prescribed to manage symptoms such as high blood pressure, while surgery may be necessary to repair or replace the aorta or other affected organs.

Prevention

Marfan syndrome is an inherited condition, which means that it cannot be prevented. However, early diagnosis and appropriate management can help to prevent serious complications and improve quality of life for affected individuals. Genetic counseling may be recommended for individuals with Marfan syndrome or a family history of the condition to help them understand the risks and options for managing the condition.

CONCLUSION

Marfan syndrome is a complex genetic disorder that can affect many different parts of the body. Understanding the causes, symptoms, diagnosis, and treatment options for Marfan syndrome is important for individuals and families affected by the condition. By working closely with healthcare providers, individuals with Marfan syndrome can manage their symptoms and prevent serious complications, allowing them to live full and healthy lives.

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