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The term "kyphosis" is usually applied to the curve that results in an exaggerated "round-back."

A variety of disorders may be responsible for this condition.

X-rays of the spine will show if there are any bony abnormalities. X-rays will also let the doctor measure the degree of the kyphotic curve.

Any kyphotic curve that is more than 50 degrees is considered abnormal.

Types of Kyphosis

Postural Kyphosis

Postural kyphosis is the most common type.

It is often attributed to "slouching."

It represents an exaggerated, but flexible, increase of the natural curve of the spine.

This usually becomes noticeable during adolescence. It is more common among girls than boys.

It rarely causes pain.

Exercises to strengthen the abdomen and stretch the hamstrings may help take away associated discomfort.

This condition does not lead to problems in adult life.

Scheuermann's kyphosis.

Like postural kyphosis, it often becomes apparent during the teen years.

However, Scheuermann's kyphosis will present with a significantly worse cosmetic deformity. This is particularly the case in thin individuals.

Scheuermann's kyphosis usually affects the upper (thoracic) spine.

It can also occur in the lower (lumbar) back area. If pain is present, it is usually felt at the apex of the curve.

Activity can aggravate the pain. So can long periods of standing or sitting.

Exercises and anti-inflammatory medication help ease the discomfort.

When X-rays are examined, the vertebrae and disks will appear normal in postural kyphosis. But they are irregular and wedge-shaped in Scheuermann's kyphosis.

Congenital kyphosis.

In some infants, the spinal column does not develop properly while the fetus is still in the womb.

The bones may not form as they should. Several vertebrae may be fused together.

Either of these abnormal situations may cause progressive kyphosis as the child grows.

Surgical treatment may be needed at a very young age.

This can maintain a more normal spinal curve.

Consistent follow-up is required to monitor any changes.





Treatment

Treatment will depend on the reason for the deformity. Most teens with postural kyphosis will do well throughout life. In some, their posture may improve over time. An exercise program may help with back pain, if present.

An initial program of conservative treatment is also recommended for patients with Scheuermann's kyphosis. This includes exercises and anti-inflammatory medications. If the child is still growing, the doctor may prescribe a brace. The child wears the brace until skeletal maturity is reached.

Treatment Options: Surgical

Surgery may be recommended if the kyphotic curve exceeds 75 degrees. The goals of surgery are: Reduce the degree of curvature by straightening and fusing the abnormal spinal segments together Maintain the improvement over time

Alleviate back discomfort, if present preoperatively