



JV by SECOM & TOYOTA TSUSHO, JAPAN

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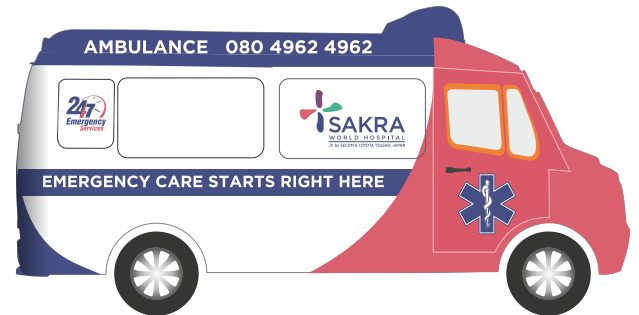
Sakra Super Specialties

Institute of:

- Neurosciences
- Cardiac Sciences
- Bone and Joints
- Renal Sciences
- Rehabilitation Sciences
- Women & Child Health
- Digestive & HPB Sciences



For any medical emergency,
call: **080 4962 4962**



Sakra Scoliosis Centre

'unwinding the curves'

Sakra Institute of Neurosciences

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What is Scoliosis?

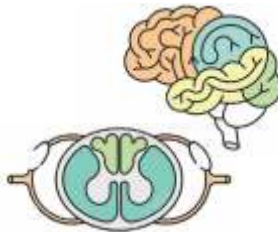
Scoliosis is an abnormal sideward “C” or “S” curvature of spine.

Causes



Idiopathic: The most common type of scoliosis is Adolescent Idiopathic Scoliosis (AIS) & the cause is not known.

Neuromuscular



Congenital

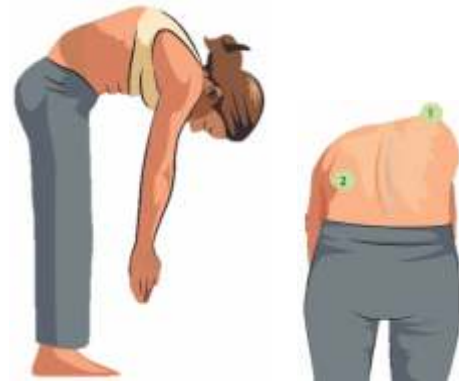
Genetic / Syndromic



Scoliosis is more often seen in girls..

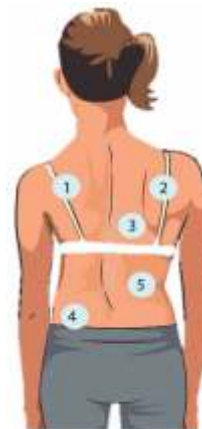
Idiopathic scoliosis is most common in adolescent age group between 10 -18 yrs of life, with prevalence of 5.2 %. Scoliosis is more often seen in girls during pubertal growth spurt. They are usually asymptomatic with no pain, no neurological weakness, and parents of the girl might notice abnormal posture, change in walking style, back hump, etc.

Postural Screening - The 7 signs of detection



Adam's Forward Bending Test: Bend forward to reach till knee level and visualize from back

1. Prominent rib hump 2. Prominent loin hump



Examination from behind:

1. Uneven shoulder
2. Prominent shoulder blades
3. Visible spine curve
4. Uneven hips
5. Asymmetric waist



Scoliometer is a type of protractor used to measure the degree of vertebral rotation and rib humping in Adams Forward Bending Test.

Abnormal > 7 degree

A complete clinical examination in addition to scoliometer measurement is needed



Cobb's angle

Cobb angle is a measure of lateral curvature of spine

Scoliosis > 10 degree



“Diagnose early
- Don't risk your child”



Bracing:

Bracing is recommended for curves < 40 degrees, in skeletally immature kids. The aim of the brace is not to treat but to limit the progression until maturity.



Growth rod:

Growth rod is recommended for kids under 10 years, during the early stages of scoliosis, with curves > 40 degrees, to preserve growth till maturity, so as to perform fusion surgery at maturity.

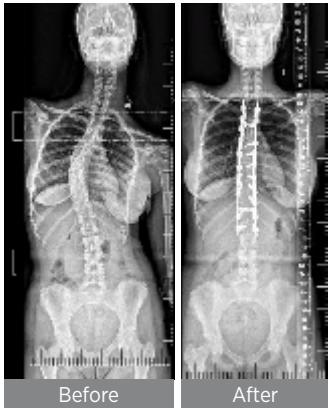


Fusion:

Fusion is a surgical procedure, usually done after maturity, in which multiple pedicle screws are inserted in to spinal bones and are used as anchor points to correct the sideward curvatures. Once corrected, these screws are connected to each other using rods, and patient's bones are applied to the spine for growth of new bones between the spinal bones. This procedure is performed on curves > 40 degrees.

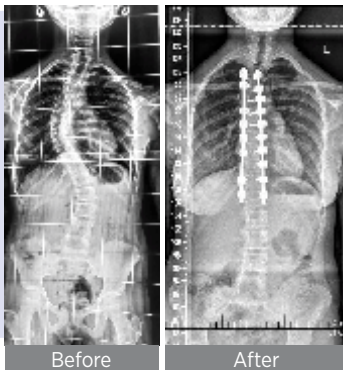
“Scoliosis is treatable, never delay treatment”

A 13 year girl with thoracic scoliosis was treated with brace in 2018. She recovered without a surgery. She is off the brace now. She swims regularly, and performs core strengthening exercises to keep her back fit and strong.



A 15 year girl with thoracic scoliosis, was operated with fusion in April 2017. Post her successful surgery, she won a district level basketball game.

A 14 year girl with double major curves was operated with selective thoracic fusion in 2017. For flexibility, her mobile part of spine was not fixed. Today, her lumbar curve has completely disappeared, and she's doing extremely well.



Why Sakra?

- Sakra Institute of Neurosciences and Spine surgery center has successfully treated more than 2000's of spine surgeries from inception (2014)
- Our team of surgeons have expertise of managing all spectrum of scoliosis since 25 years, and their overall experience in spine surgery is more than 15000
- A comprehensive management of scoliosis from conservative bracing therapy to complex spinal deformity correction surgeries are being performed in our world class hospital
- Sakra hospital is first and only hospital in the country, where scoliosis surgery is done with high technology using "Spine suite" comprising hybrid biplanar OR, Intraoperative CT scan with 2D and 3D acquisition along with Navigation technology.
- Considering the safety of the patient and surgery, the center has in-house intraoperative spinal cord & nerve monitoring technology with trained neurophysiologist and Neuroanaesthetist.
- With all the available facilities and experts the stay in hospital is also kept minimum to an average of only 3 days with less pain.
- Sakra Spine Center has done innumerable scoliosis surgeries with success rate of more than 99%, and all patients are leading an active and unrestricted social life.

