

Department of Spine Surgery and Spinal Deformity correction

SKS Hospital
India Pvt. Ltd



Activity Report 2015-2016



Founders

Mrs. Perumayee Ammal and (Late) Mr. Chevalier Sengoda Gounder



Sree Vasantha
(Chairman)

Leadership is the capacity to translate vision into reality

From the managing director's desk....

It gives me immense pleasure to share the activities of our hospital's Department of Spine Surgery and Spinal Deformity Correction.

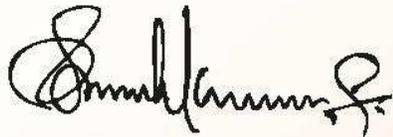
SKS Hospital started the first exclusive Spine Surgery Department in the region in 2013 headed by Dr CS Vishnu Prasath. With his skill and investment in infrastructure the department has been very successful growing 200% in two years and has introduced new treatment options to the region.

Spinal deformities like Scoliosis and Kyphosis are truly debilitating and adversely affect one's lifestyle. Often such individual suffer in silence, shutting themselves from the public out of a sense of shame and lack of knowledge of corrective options. When Dr Vishnu Prasath approached the management with a desire to help such sufferers we wholeheartedly provided the support.

As you will see in the following pages, the department has succeeded beyond our wildest dreams. I'm sure, when you read the success stories and the difference it has made to their lifestyle, it will be difficult to keep your eyes dry. From joining college to driving a two-wheeler for the first time, read on to share their lives.

All this wouldn't be possible without the valuable support of our referral doctors who reaffirm their faith in us each time they send us a patient and the confidence of the patients whenever they cross threshold.

With Regards,



Dr. Suresh Viswanathan, MBBS, MBA (HCA)
Managing Director.



Spine Surgery Department

Clinical Work

Exclusive spine surgery department at SKS hospital was started in year 2013 and it was first of its kind in this part of the state. Since then the department has grown in leaps and bounds and has served people with spine ailments from all walks of life. We present you the statistics of out patient registration and surgeries performed in our spine surgery department.

Out Patient registration

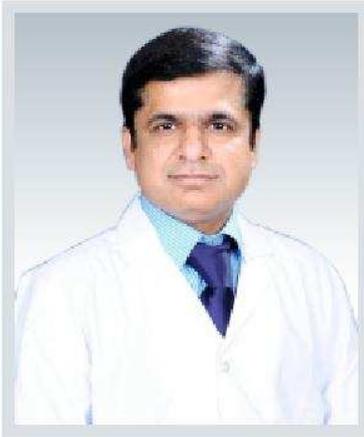
2015-2016	2014-2015	2013-2014
5989	4601	3029

Surgeries done in spine surgery department

Year	2015-2016	2014-2015	2013-2014
Microlumbar discectomy	103	77	60
Lumbar canal stenosis	74	54	42
Spondylolisthesis	63	47	36
Fracture spine	47	42	34
Cervical spine surgery	48	37	22
Spinal infection	38	39	20
Deformity correction	9	4	2
Miscellaneous	6	4	6
Total	388	304	222



Dr. C.S. Vishnu Prasath, Academic Profile



Dr.C.S.Vishnu prasath completed his MBBS from Salem Government Mohan Kumaramangalam Medical College in 2004. He did his M.S(ortho) from post graduate institute of medical sciences – Rohtak ., Haryana in the year 2009. He worked as a senior resident of orthopaedics in Ramakrishna hospitals Coimbatore and Vinayaka Missions Medical College Hospital – Salem between 2009 – 2011. He did his Fellowship in Spine Surgery (FNB Spine surgery) from Ganga hospitals Coimbatore from 2011- 2013. He joined as a consultant spine surgeon in SKS hospital - Salem in July 2013.

Dr. C.S. Vishnu Prasath,
M.S., DNB, FNB (Spine)

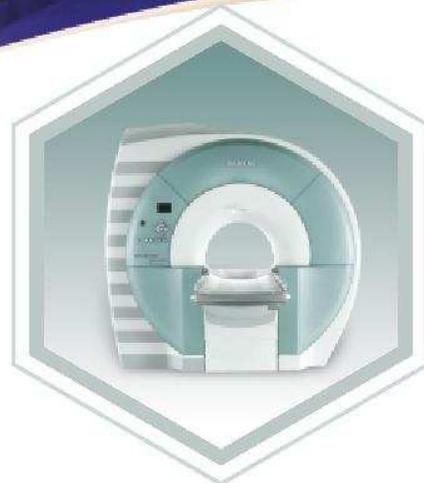
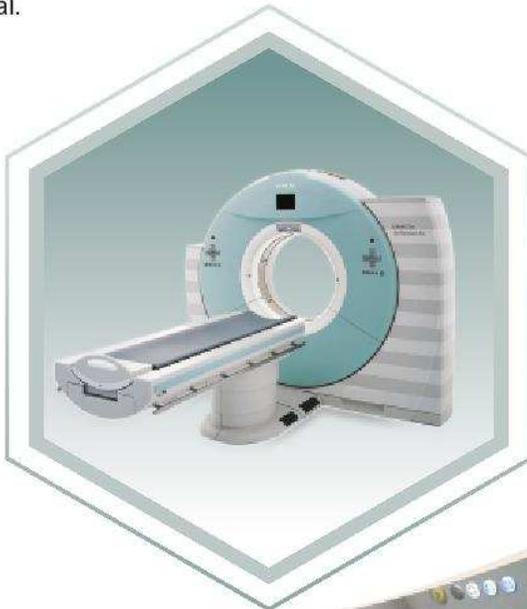
Awards :

- 1. Association of Spine Surgeons of India (ASSI)- Basic sciences award - 2013**
Evaluation of cervical spondylotic myelopathic patients using diffusion tensor imaging(DTI).
- 2. Neuro Spine Surgeons Association (NSSA) - Best paper award - 2013**
Predicting neurological recovery in cervical spine injury patients using diffusion tensor imaging(DTI).
- 3. Indian Medical Association (IMA- Salem)- Dr.Sampath endowment lecture - 2014**
Minimally invasive spine surgery
- 4. Spine week -2016-African spine session – Best paper award**
Posterior only approach in surgical treatment of thoracolumbar tuberculosis.
- 5. Tamil nadu Orthopaedic Association conference (TNOACON - 2017) Best paper award**
Infective Spondylodiscitis - Antibiotic protocol for patients with inconclusive results.



Facilities

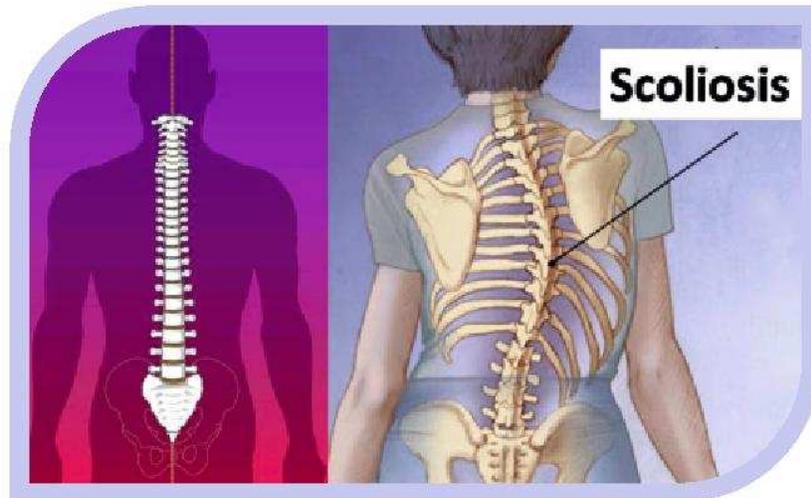
1. A team of orthopaedic spine surgeon and a neurosurgeon giving round the the clock spine care to the patients.
2. Dedicated spine operation theatres fully equipped with operating microscope, C-arm fluoroscopy and well trained staff nurses.
3. Fully equipped 15 bedded intensive care unit to cater the needs of high risk and critically injured spine patients.
4. Round the clock availability of orthopaedic surgeons, general surgeons, neurosurgeon and anaesthetists to take care of polytrauma patients.
5. Physiotherapy unit with experienced therapists for spine rehabilitation.
6. In house 1.5 Tesla MRI, 128 Slice CT scan and Digital X-ray facilities available round the clock.
7. Robotic arm for CT guided interventional procedures is available.
8. Poor and needy patients are offered free surgical treatment under the Chief Minister's Comprehensive Health Insurance Scheme and all major insurance cards are accepted.
9. Minimally invasive spine surgeries such as Microlumbar discectomy, Microscopic cervical spine surgeries, percutaneous pedicle screws & vertebroplasty surgeries are routinely done in Spine department of SKS hospital.



Spinal Deformity

The spine has a series of building blocks called vertebra stacked one on top of another, separated in the front by the discs and in the back by the facets. From the front view, the spine should be straight with the center of the head sitting on a plumb line directly over the pelvis. The side view of the spine has multiple curves that when added together should also have the head sitting directly over the pelvis. Spine is called deformed when this alignment is disturbed.

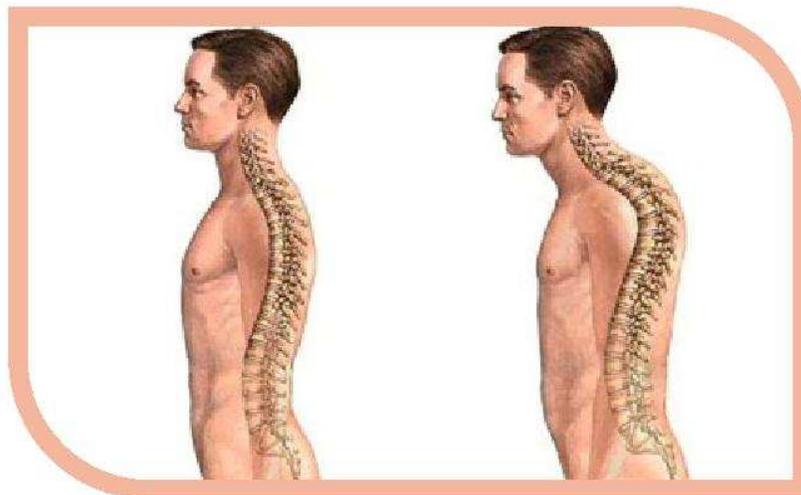
Abnormal sideways curvature of the spine seen from front is called as **scoliosis**.



Normal spinal alignment

Abnormal sideways curvature of spine

Abnormal forward bending of the spine seen from the side is called as **kyphosis**.

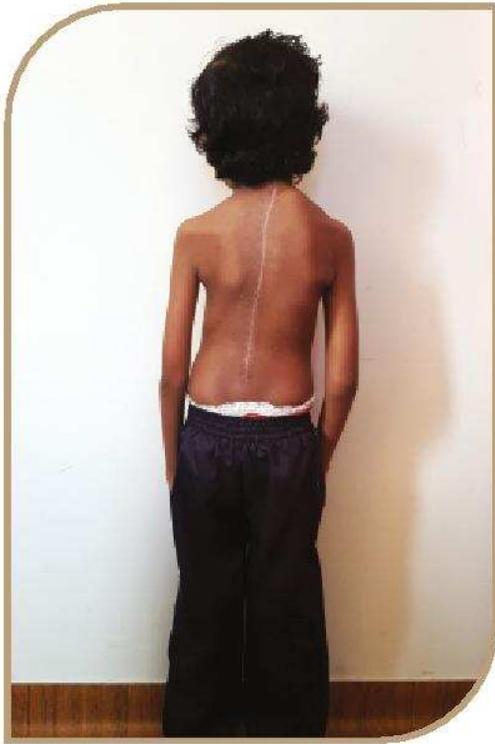


Normal spinal alignment from side

Abnormal forward bending - Kyphosis

The etiology behind Scoliosis and Kyphosis ranges from congenital birth defects to idiopathic developmental anomalies. Abnormal curves of lesser magnitude can be treated conservatively with braces while curves of larger magnitude needs surgical correction.

Spinal deformity correction surgery is a higher end surgery which needs highly equipped operation theatre, experienced anasthetists, state of art patient monitoring during surgery and well equipped ICU for post op care. For the first time in this part of state we at SKS hospital has brought the state of art facilities for spinal deformity correction surgery. We started doing spinal deformity correction surgery in the year 2015 and this booklet is intended to bring out the successful spinal deformity surgeries done at our centre in the last 2 years.



Diagnosis

Right Thoracic scoliosis - Post meningo myelocele repair

Surgery

T2 to L4 Posterior instrumented correction & fusion

Any body who spends few minutes with Periyasamy , a class 5 student from salem would fall in love with him. By the time he was discharged after surgery he had befriended many staffs in the hospital, thanks to his witty nature.He had his first surgery in spine in our hospital when he was just 2 days old newborn for a rare congenital spinal anomaly(meningomyelocele). His mother's confidence in our hospital brought him back to us after 10 yrs for scoliosis correction surgery. Bored of sitting in the first row owing to his short stature, Periyasamy is now happily occupying the back benches thanks to the height gained by scoliosis correction surgery.





Diagnosis

Scheurmans Thoracolumbar Kyphosis

Surgery

T5 to L3 Posterior instrumented correction & fusion



Sakthivel, a 18 yr old boy has made his name at a young age as a cook famous for his skills in making delicious Ambur dum biriyani. Progressive deformity in back with pain crippled him and was about to give up his profession before consulting us. After surgical correction of spinal deformity Sakthivel is back at what he is best at – serving the taste buds of people with his cooking.





Diagnosis

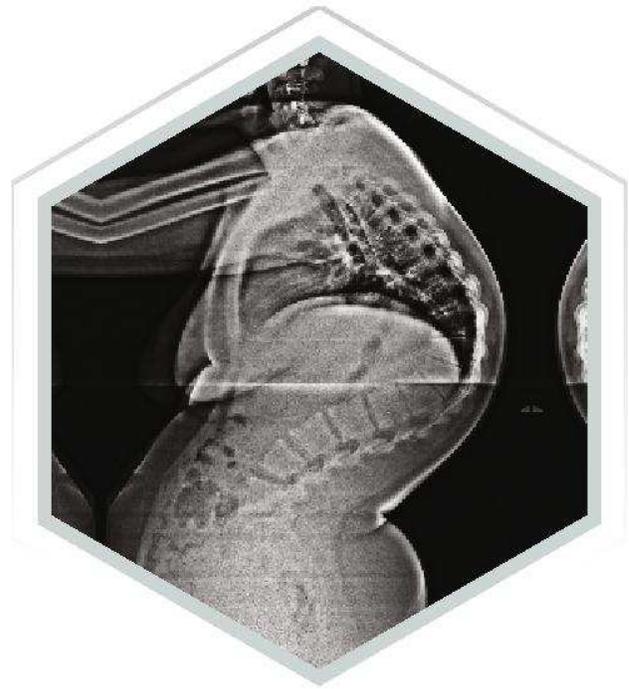
Left Thoracolumbar scoliosis

Surgery

T4 to L3 Posterior instrumented correction & fusion

20 yr old Madesh had just got his heavy vehicle driving liscence before consulting us. Even though he was having a progressive spinal scoliosis deformity , he was unaware that it could be surgically corrected.It was his friends at the driving school who brought him to us after hearing about our spinal deformity correction camp.His only question before surgery was – when can I start driving again after surgery? We kept our promise and he was on wheels just after 3 months of surgery.





Diagnosis

Scheuerman's Thoracolumbar Kyphosis

Surgery

Anterior release and T2 to L4 Posterior instrumented correction & fusion

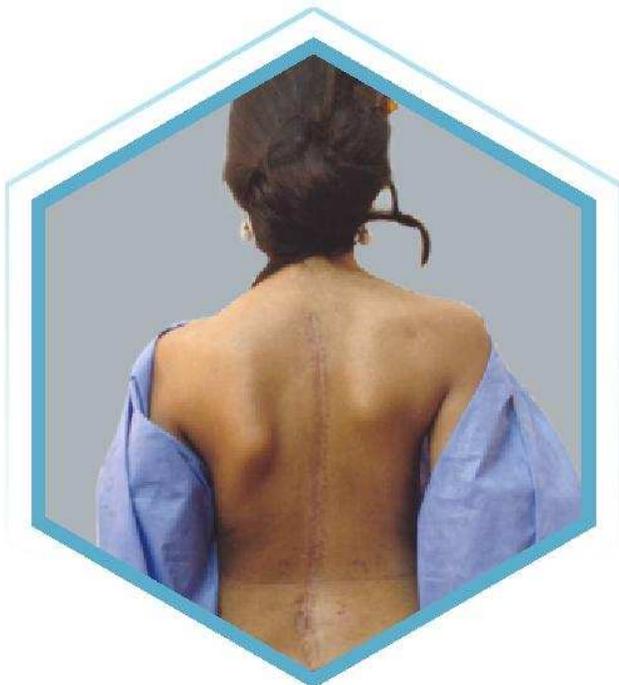
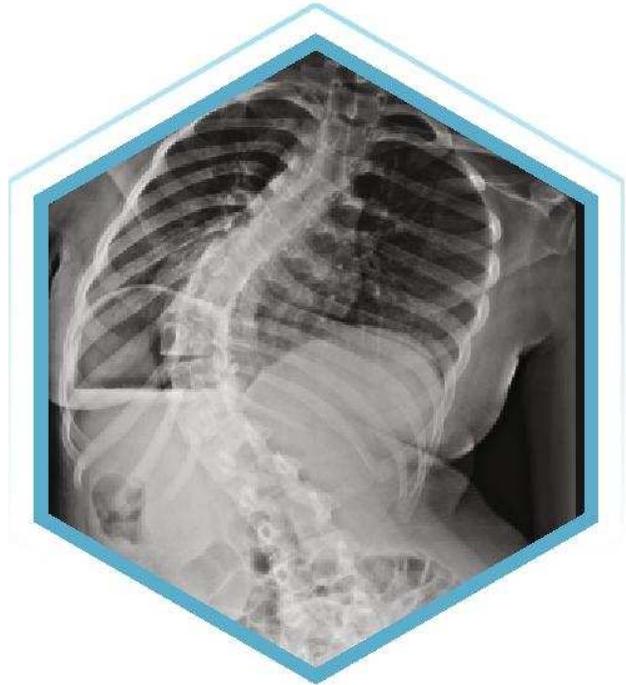


The usual scenario in the spinal deformity clinic would be the parents counseling their kids for surgery. But in case of Tamilarasi who had just completed her schooling, it was she who counseled her parents. When her parents were little reluctant, she was ready to go alone for surgery with her grand parents help. It was this strong will which helped her to recover from surgery which was very complex and took us around 10 hours. With a dream of becoming a lawyer she had just stepped in to the college.

She reminds us of the quote

**Dreams are never just dreams,
they are reality waiting to happen.**





Diagnosis

Left thoracolumbar scoliosis with spinal dysraphism

Surgery

T4 to L3 Posterior instrumented correction & fusion

"A daughter may out grow your lap but she will never outgrow your heart"

Mr Stephen is a perfect example of this quote. Having seen 3 previous surgeries to his daughter for a complex scoliotic deformity with spinal cord anomaly we could understand his anxiety when he waited outside the operation theatre for the fourth surgery with prayers in his heart and tears in his eyes. His love and prayer outweighed our efforts in Susanthikas recovery. Even now we can see him praying when he hand over the scooter to Susanthika for she likes to fly low rather than ride fast.





Diagnosis

Right Thoracic adolescent idiopathic scoliosis

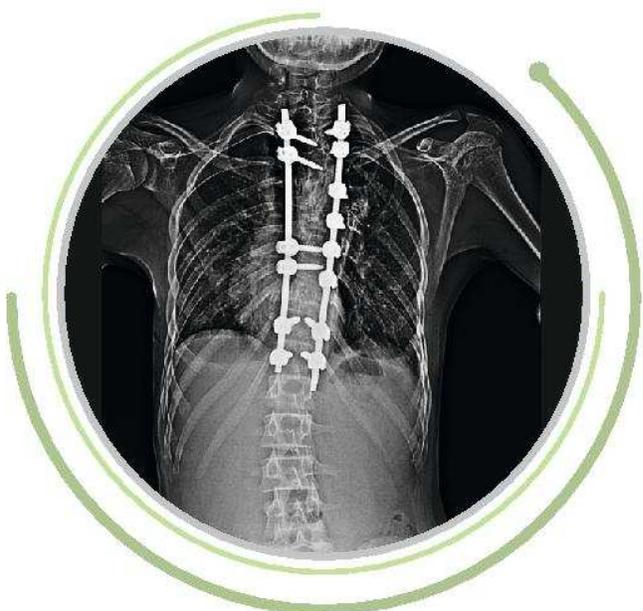
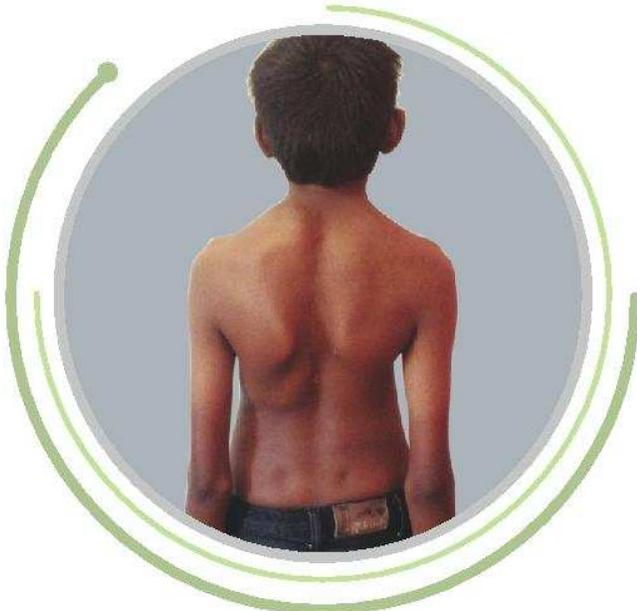
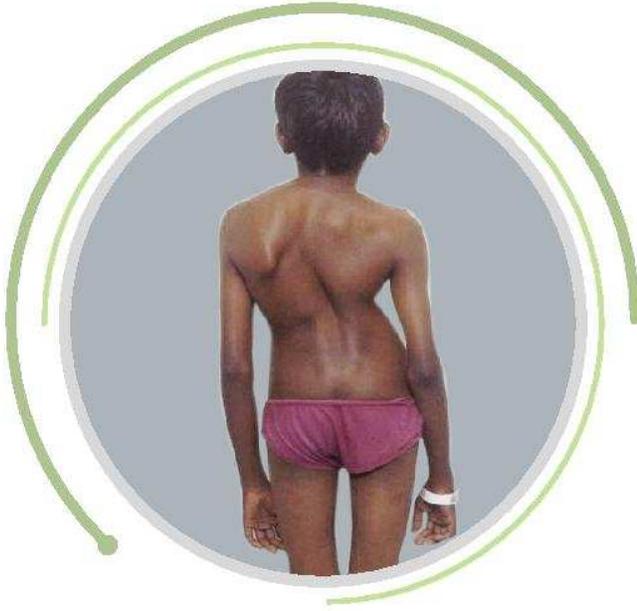
Surgery

T4 to L4 Posterior instrumented correction & fusion



Born and brought up in a small village near Kallakurichi, Saraswathi's world was very small and was happy doing farm work with her parents. When her parents started looking for marriage proposals her spinal deformity came in the way. With very little money saved for her marriage, her father could not afford a surgery. Knowing about our centre, an orthopaedic surgeon referred her to us and she got operated under government health insurance scheme. Back to work after surgery, she is just waiting for a perfect soul mate.





Diagnosis

Left Thoracic Congenital scoliosis with T6 hemivertebra

Surgery

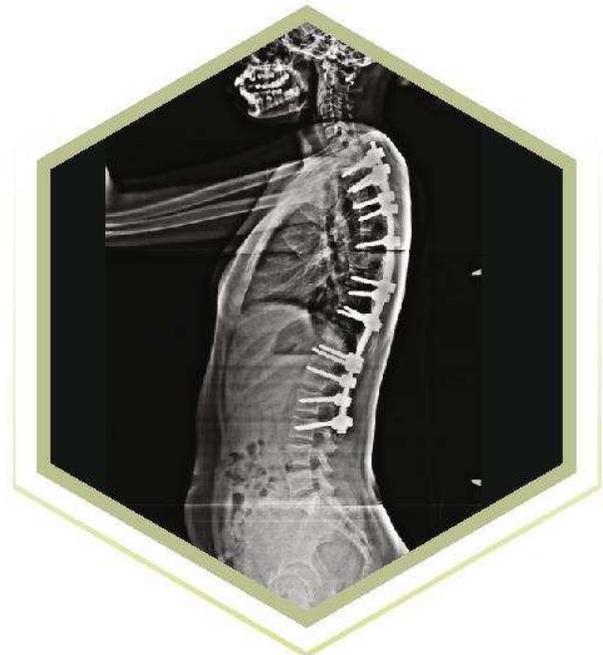
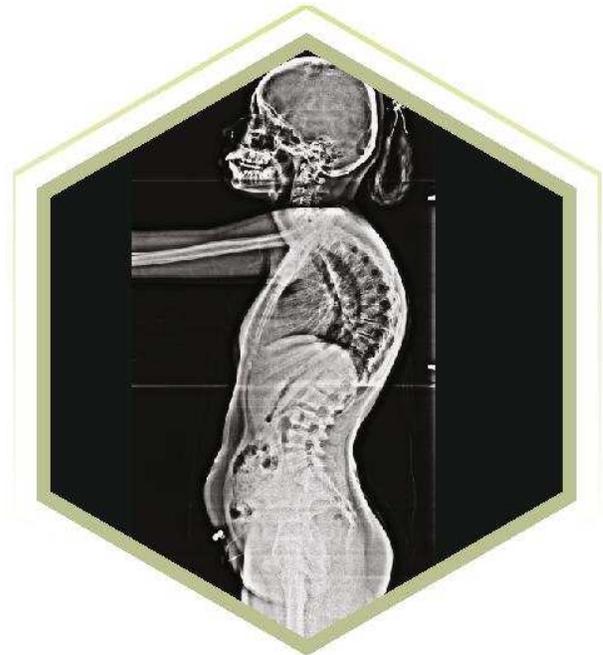
T2 to T12 Posterior instrumented correction & fusion

**I cannot think of any need in childhood
as strong as the need for a fathers protection.**

- Sigmund freud.

Arul pandiyan had a complex spinal cord anomaly (Arnold chiari malformation) along with scoliosis. He needed a two stage surgery and it was his father a perfect example of the above mentioned words, who stood by him through out the process of two staged surgery. Now pursuing his dream of becoming an electronic engineer he also loves to spend some time with his father in the fields.





Diagnosis

Scheuermann's Thoracic Kyphosis

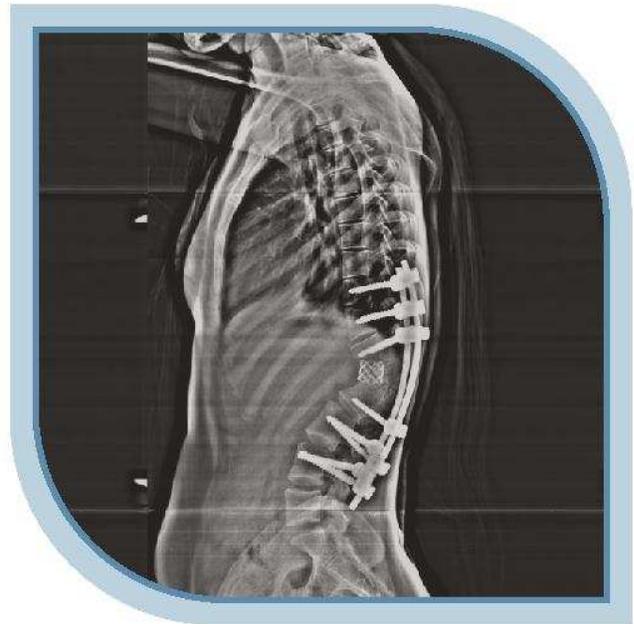
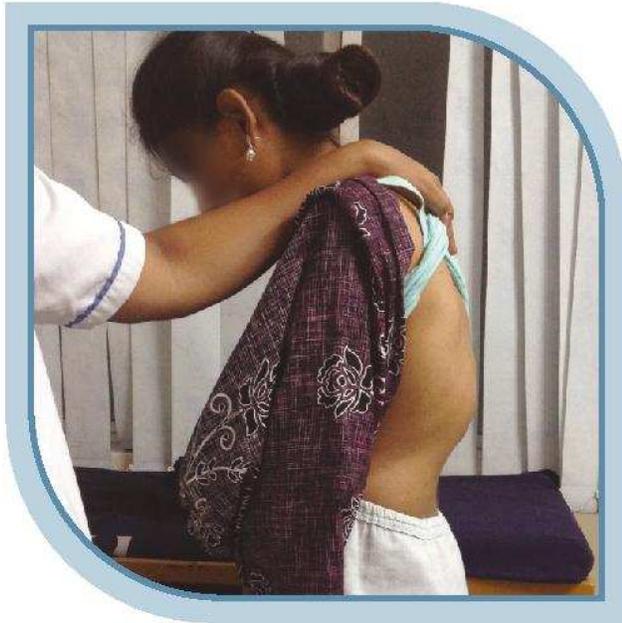
Surgery

T2 to L3 Posterior instrumented correction & fusion

Silence is a source of great strength

We think that these words were uttered keeping Harini in mind. Hardly anybody in the hospital had seen her talking. But she is so strong willed that she walked just after 12 hrs of surgery. Now she is back to school accompanying her brother.





Diagnosis

Congenital Thracolumbar kyphosis with fused Hemivertebrae from T11-L2

Surgery

Vertebral column resection at T12-L1 level with kyphosis correction and instrumented fusion from T9-L4



A caring elder sister to her siblings and a responsible daughter to her parents, it was no wonder to see Naskatharas family members thronging the hospital when she got admitted. A good co-operative patient makes the doctors job easy. With a bright smile always in her face Naskathara is one among them and even in the most painful post operative period we didn't see her smile fading away. Back to college to pursue her degree in English literature she now helps us to motivate kids and parents who are scared of surgery.





Diagnosis

Right thoracic scoliosis

Surgery

Anterior release and T2 to L4 Posterior instrumented correction & fusion

A mother's love for her child knows no law, no pity and crushes down remorselessly all that stands in its path.

— AGATHA CHRISTIE

Jenifer was the first one to reach higher secondary school in her family. But the cosmetic deformity in the back came in the way of continuing her studies. True to the above mentioned words of Agatha Christie, her mother not only fought with poverty but also with her relatives who were against surgery out of ignorance. We felt proud to lend them a helping hand and now Jenifer is back to school happily and enjoys helping her mother in kitchen.



Our Team Of Aneasthetists



**Dr. Karthikeyan., Dr. Prabhu., Dr. Sathya prakash.
Dr. Shankar Subramanian(HOD), Dr. Balaji.**

*He who works with his hand is a surgeon,
he who works with his mind is a physician and
he who works with his hand and mind is an anesthesiologist.*

Our Team Of Radiologists



Dr. Deepak., Dr. Poornaprakash., Dr. Vijay sadasivam, (HOD)

*These are men with penetrating vision and indeed
they are our third eye.*

Spine Team



*Coming together is beginning
Keeping together is progress
Working together is success
-Henry Ford-*

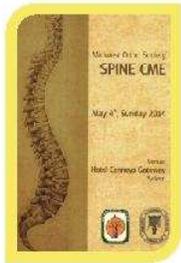
Our Team Of Managers



Mrs. **Anwari begam** (Nursing Superintendent) Mr. **H.K. Basha** (DGM).,
Mr. **Shirpi mani** (CEO)., Mrs. **Bibiya** (Nursing superintendent)

Management is nothing more than motivating
other people

Spine CME and work shop



Midwest Ortho Society Spine CME- 2014

For the first time in our region hands on work shop on Spine decompression and discectomy procedures was conducted using calf spine model . 75 delegates participated including the post graduate students.



Dr. Franklyn Kiruba President	Dr. J. Manimaran Organising Secretary	Dr. C.S. Vishnu Prasath Joint Organising Secretary
Faculty		
 Prof. Rajamani Consultant Spine Surgeon, Madurai	 Prof. Nalli R Uvaraj Head, Spine Surgery Dept, M.M.C, Chennai	
 Dr. Ajoy Prasad Shetty Consultant, Spine Surgeon Ganga Hospitals, Coimbatore	 Dr. Kharunakharan Consultant, Spine Surgeon M.M.C, Chennai	
 Dr. Sivasabapathy Consultant, Spine Surgeon Salem		

Spine Workshop – TNOACON 2015



As a part of **TNOACON-2015 Salem** spine workshop on pedicle screw fixation in lumbar spine and interbody fusion techniques was conducted .More than 40 delegates attended and sawbone model was provided for hands on training.



Faculty:

Dr. Ajoy Prasad shetty, Dr. Parthasarathy, Dr. Karthikeyan, Dr. Karikalan.

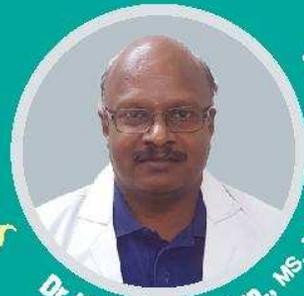
The Brain and Spine Team



Dr. A. Suresh Kumar, M.S., M.Ch., - Neurosurgeon



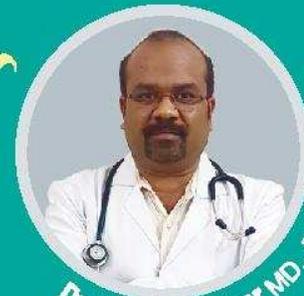
Dr. V. Senthil Kumar M.D., (Read) DM - Neurologist



Dr. K. Parkodalarasan, M.S., M.Ch., - Neurosurgeon



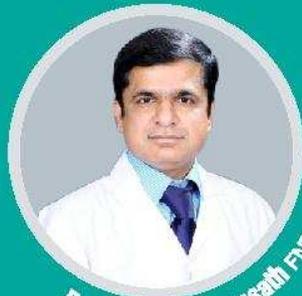
Dr. S. Parthasarathy FNB - Visiting Spine surgeon



Dr. D. Mu thukumar MD., DM., - Neurologist



Dr. G. Balamurall M.D., FRCS., - Visiting Neurosurgeon



Dr. C.S. Vishnu prasath FNB., - Spine Surgeon

SKS Hospital

MISSION

To provide comprehensive health care to the community by using current technologies in a cost and time effective manner through the team work of dedicated and qualified health care providers in a caring environment.

VISION

To transform ourselves in to a center of excellence for Health Care Services, Education and Research in India.



VIVEK GRAPHICS | 9952364434

📍 SKS Hospital Road, (Near New bus stand), Salem - 4. 📞 0427-4033555, 4033333 / Mob : 81224 20061

🌐 www.skshospital.org / <http://www.spinesurgerysalem.com>