

Press Release

FIRST TIME IN INDIA - A NEW RAY OF HOPE TO **CURE SPINAL INJURIES- Epidural Stimulation**



were told to spend their lives in a wheelchair.But now epidural stimulation has found a new ray of hope for these payears ago after an unfortunate motorcy- pendent movement. cle accident and spinal cord injury at Dorsal spine D10-11.But now he can take Institute of Brain & Spine Hospital, has rehabilitation few steps. After all attempts at rehabilithe results have finally started.

Amil.

device to relieve the patient of the debili- the assistance of walker. tating neuropathic pain hope that this

undergoing epidural stimulation and electrical stimulation to the spinal cord,- tals. physiotherapy for over 9 months now and Says Dr Sachin Kandhari, Sr Neurosurgeon & MD IBS Hospitals.

prised at what we have been able to taking first of many steps towards being nomic function. do. I think you've got to try the im- completely independent once again, with possible to make the possible. It's a the help of a specially adapted walker. He No cure for complete cord injury. lot of fun - it feels really good," says says standing on his own after a long time, was "the most amazing feeling".

16th Jan 2019 - Most of the time pa- The doctors team led by Dr. Sachin Kand- He can now voluntarily move his toes, way to reverse the damage caused to the tients who suffer from spinal injury they hari, Neurosurgeon at Institute of Brain & hips, knees and ankles, walk on a tread-Spine, New Delhi, who implanted the mill and walk while being supported with going on to develop new treatments,

tients. Md Amil,24 years from Bahruch unexpected bonus will enable many par- Epidural Stimulation can be offered to prove the function of the nerves that Gujarat, who lost the use of legs nearly 5 alyzed people ultimately to regain indepatients with both incomplete and comprehensing after spinal cord injury. However, performed several stimulation surgeries create the most powerful treatment tential. tation he agreed to undergo for the spinal in last 9 months and this achievement is package for Spinal Cord Injury survicord stimulation. His Epidural stimulation first of its kind in India. It has restored vors. Though the therapy is new but has What is Epidural Stimulation. & rehabilitation program was started on faith in various similar recent programs been proved reliable enough to be used 6th March 2018. Amil is the first of many being conducted worldwide to restore as a first concrete step towards cure of Epidural Stimulation is a treatment for patients who have benefited from the motion in partially or completely para- spinal cord injury, Says Dr. Sachin Kand- Spinal Cord Injury which is centred first wave of the treatment. He has been lyzed patients by applying continuous hari, Sr Neurosurgeon & MD IBS Hospi- around an implantable device. The surgi-

Spinal cord injury

Amil can now walk up to 20-25 paces Sandeep, a 25-year-old man from Hary- Spinal cord is a bundle of nerves and Once implanted, the patient learns how to when his implant is turned on and this is ana, he is a student and a cricketfollower other tissues that the vertebrae of the the first time that this has been recorded who loved being out in the field, but one spine contains and protects. A physical movements. in a complete spinal cord injury." I came day his life changed for worse. He was injury leading to the damage of the bony. The implant sends bursts of targeted with relatively no hope as nothing accidently hit by bullet in his spine and protection around the cord often leads to stimulation to the muscles that intend to team, the desperation turned into on 15th July, 2018, after which he under- served by the spinal cord below the level the body's own signaling mechanism. hope for the first time in many went for the surgery on 17th July, 2018. of the injury. The symptoms include-loss years". To me it means a lot. I'm sur- He has shown tremendous fight and is of muscle function, sensation or auto-

Unfortunately, so far there has been no

spinal cord. A lot of research has been prosthesis and medications that may promote nerve cell regeneration or implete injuries. A combination of the Epi- none of the treatments have been sucdural Stimulation implant with modern cessful so far except epidural stimulatherapies undeniably tion, which has shown tremendous po-

cally implanted device sits over the spinal cord protective coating and is connected to the nerve systems where it is able to stimulate locomotor-like activity. control the device and the resulting limb

had worked so far, but just after one got paralyzed from the chest down. He varying level of permanent damage, move. In effect, the stimulation occurs on meeting with Dr. Sachin and his joined Epidural Stimulation program and resulting in the paralysis of the body an as needed basis, roughly mimicking The doctors at Institute of Brain & Spine, New Delhi speculate that some nerve cells are being reactivated or maybe more of them are being created allowed signals from the brain to pass down the spinal cord eventually helping to restore walking ability.

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