



RISHENA
瑞神安医疗

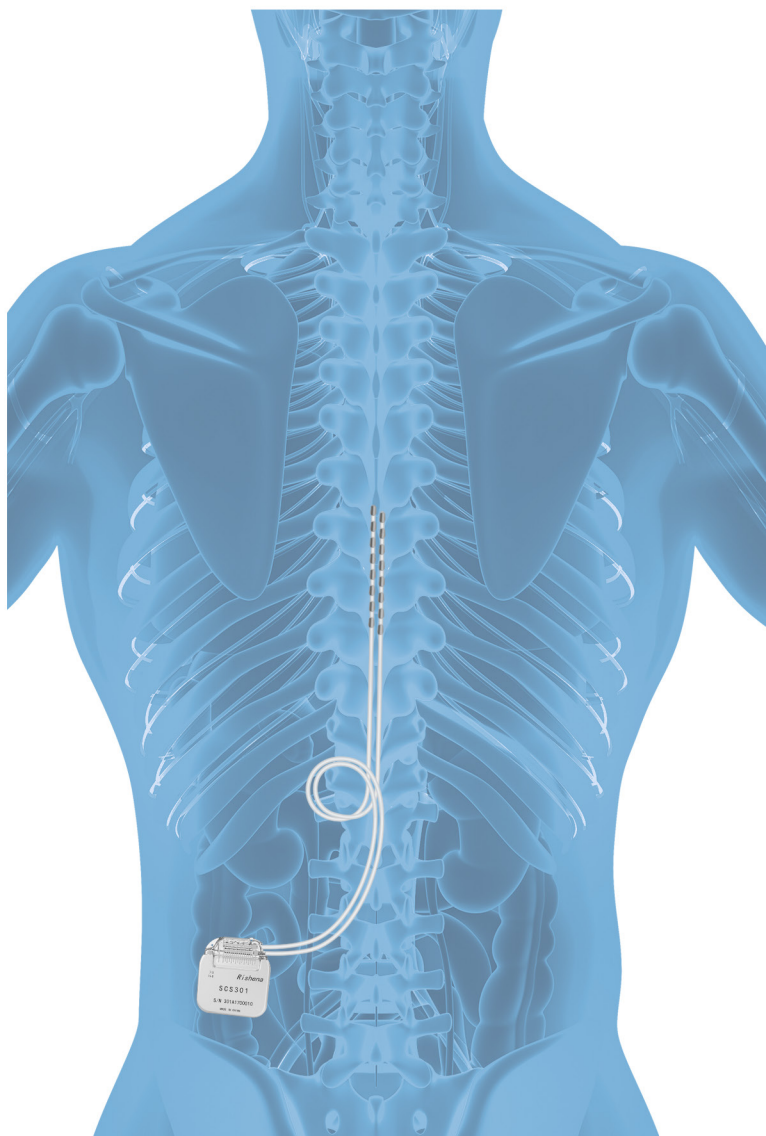
IMPLANTABLE SPINAL CORD STIMULATION SYSTEM (SCS)



MEDICAL
DEVICES

VALUING QUALITY IS ABOUT CARING FOR LIFE

Spinal Cord Stimulation (SCS) is a minimally invasive, reversible, effective, green and safe neuromodulatory therapy that involves implanting electrodes into the epidural space of the spinal canal or near the peripheral nerves. The implanted stimulator emits an electrical pulse signal to stimulate the spinal dorsal column, spinal nerve root, dorsal root ganglion, or peripheral nerves, regulating the function of the nervous system to alleviate pain.



Postherpetic
Neuralgia(PHN)

Failed Back Surgery
Syndrome(FBSS)

Ischemic Pain

Pain after
Spinal Cord Injury

Pain after Brachial
Plexus Injury

Intercostal
Neuralgia

Phantom
Limb Pain

Residual
Limb Pain

Diabetic Foot

Occipital
Neuralgia

Perineal Pain

etc.

The Implantable Spinal Cord Stimulation System (SCS) produced by Rishena Medical, adopts internationally leading technology, fully compatible with multiple stimulation modes, and effectively treats chronic pain in different populations .



(SCS301A)



(SCS301B)



Surgical (Paddle) Lead



Percutaneous (Needle) Lead



Anchor dispenser tool



Extension Lead



Extension Cable



External Spinal Cord Stimulator

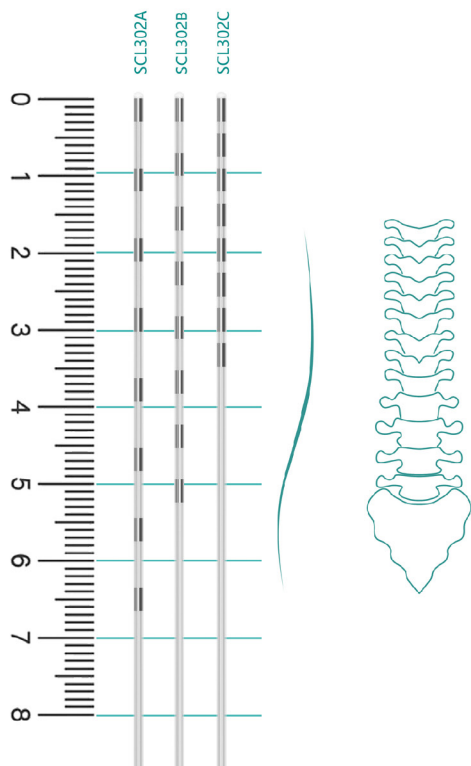


Combined Patient
Programmer and Recharger

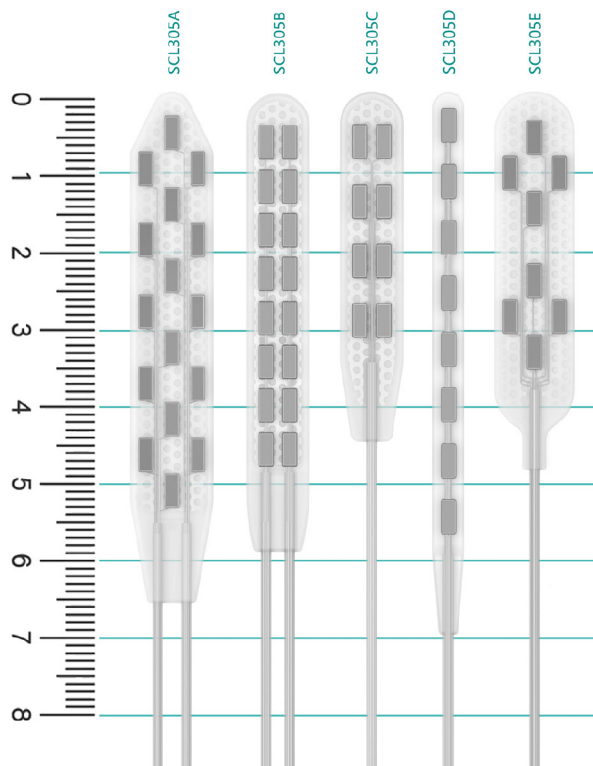


Combined Clinician
Programmer and Recharger

COMPREHENSIVE ELECTRODE TYPE, SUITABLE FOR DIFFERENT CLINICAL APPLICATION SCENARIOS

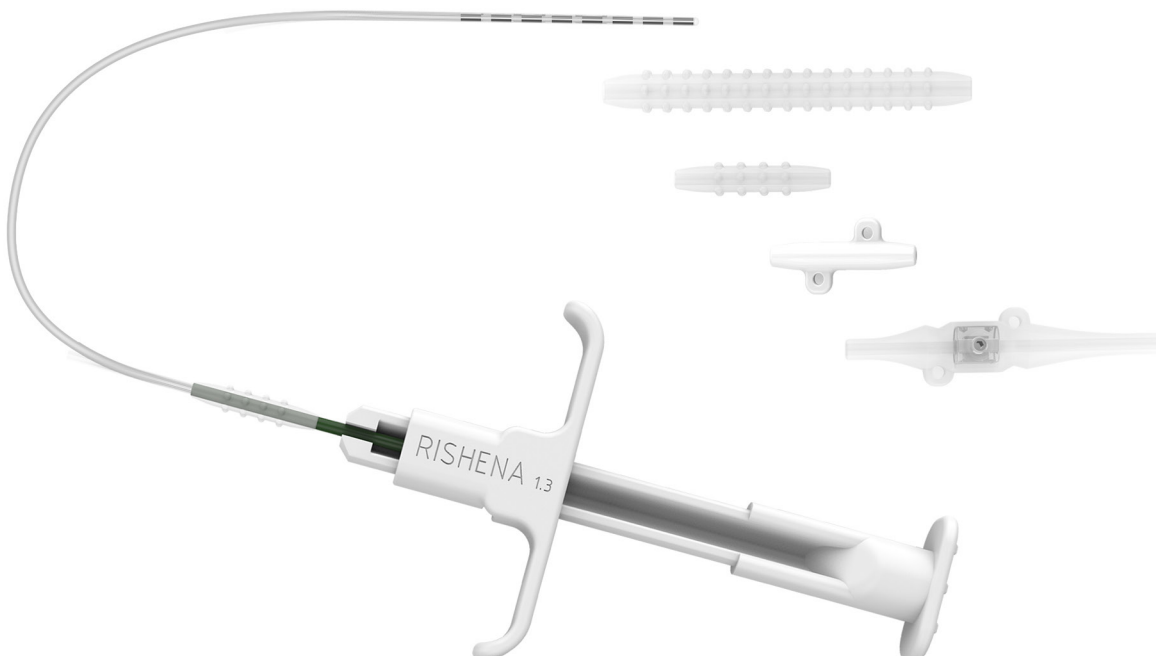


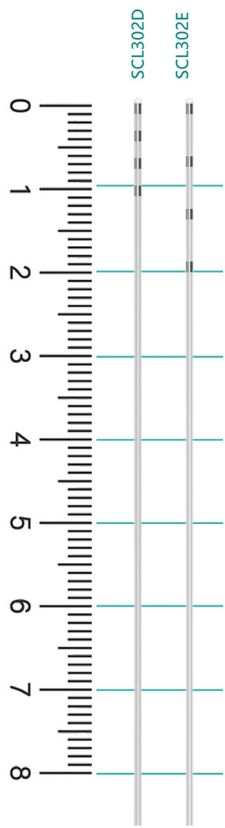
Normal Percutaneous (Needle) Lead



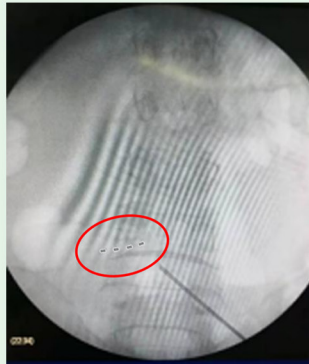
Surgical (Paddle) Lead

MULTIPLE TYPES OF WIRE FIXING DEVICES, INJECTION TYPE TIEDOWN FOR EASY OPERATION AND ELECTRODE DISPLACEMENT RESISTANCE





Dorsal Root Ganglion (DRG) Lead



Intervertebral foramen



Sacral foramen



Foramen ovale

Rishena's SCS registered clinical trial

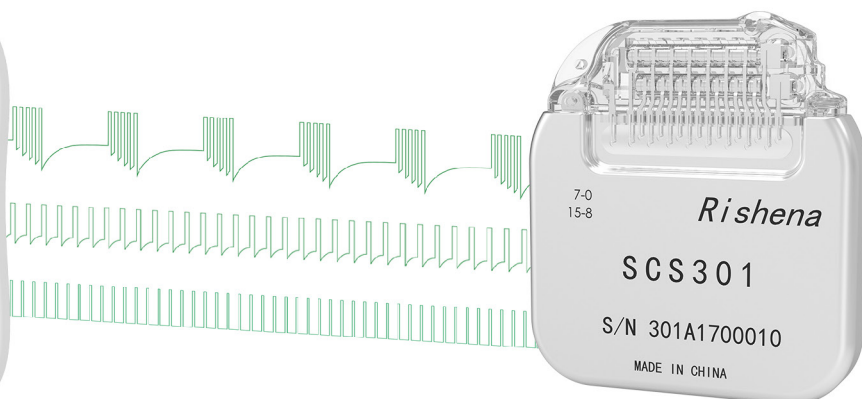
DRG lead

EXTERNAL STIMULATOR AND PERMANENTLY IMPLANTED STIMULATOR

- The external stimulator includes all functions of the permanent stimulator.
- The external stimulator can be transferred to a permanent stimulator with one click.
- Permanently implanted stimulator allows for charging and longer lifespan.



(SCS311)



(SCS301A/B)

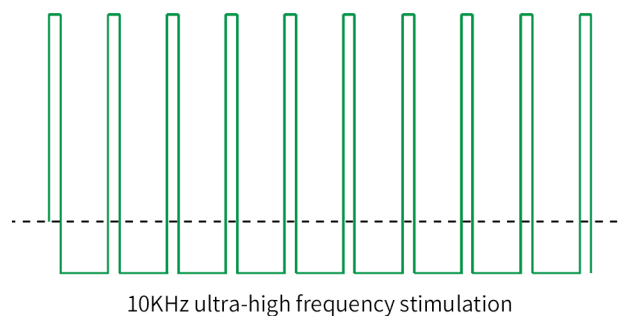
DIVERSIFIED STIMULATION MODES CAN MEET PERSONALIZED PAIN TREATMENT NEEDS

A total of 8 program groups can be set for A-H, and each program group can set 4 different parameters, such as:

Program groups	A	B	C	D	E	F	G	H
Group frequency(Hz)	60	80	10K	100	1000	70	5000	40
P1	Each program group can set 4 different parameters (electrode position, amplitude, pulse width, number of cluster pulses, and step)							
P2								
P3								
P4								
Output mode	06:00-08:00	Stand	Recl.	Lie_B	15:00-16:00	Lie_F	Lie_L	Lie_R

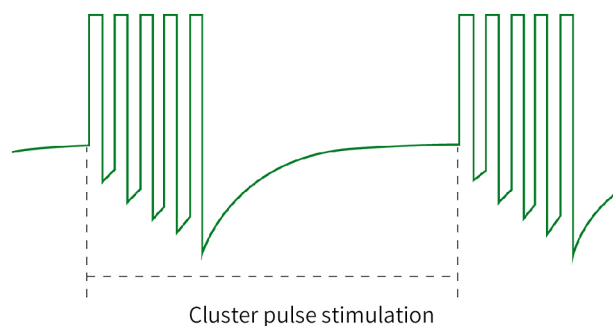
🌀 THE MAXIMUM FREQUENCY CAN BE SET TO 10kHz

Without paraesthesia, studies have shown that patients with poor efficacy of traditional low-frequency stimulation may benefit from 10kHz ultra-high frequency stimulation.



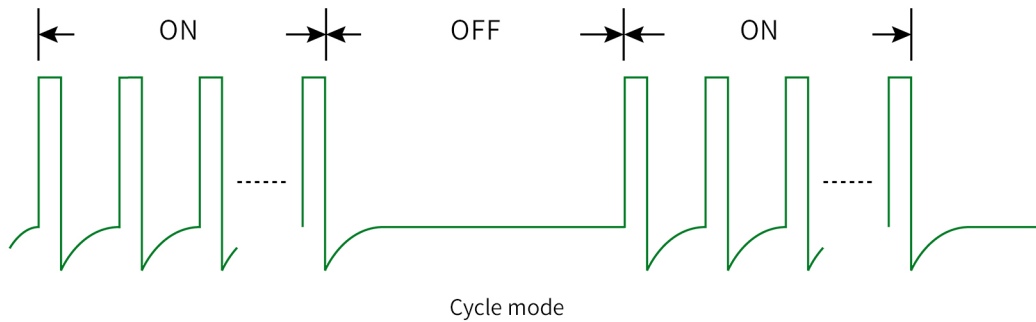
🌀 BURST MODE

After 5 high-frequency stimuli, there is an intermittent period, which research suggests may be more in line with the natural physiological signals of the human body.



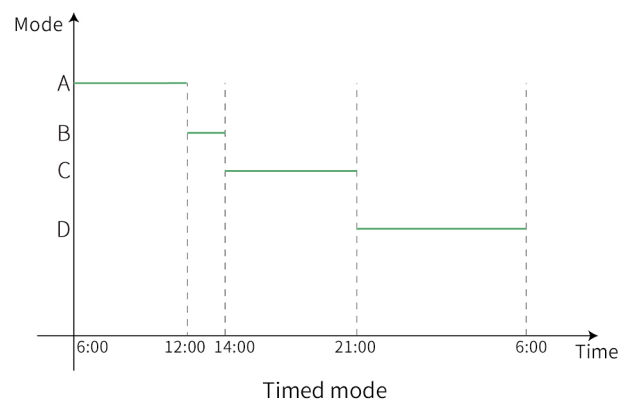
CYCLE MODE

Intermittent stimulation, stimulus on/off time can be set.



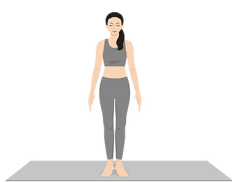
TIMED MODE

Different time periods can be matched with different program groups, and each program group can be set with different frequencies.



POSTURAL MODE

Different stimulation parameters can be set for different postures. Intelligent recognition of patient position and automatic matching of corresponding stimulus parameters.



Stand



Recl.



Lie_B



Lie_F



Lie_L



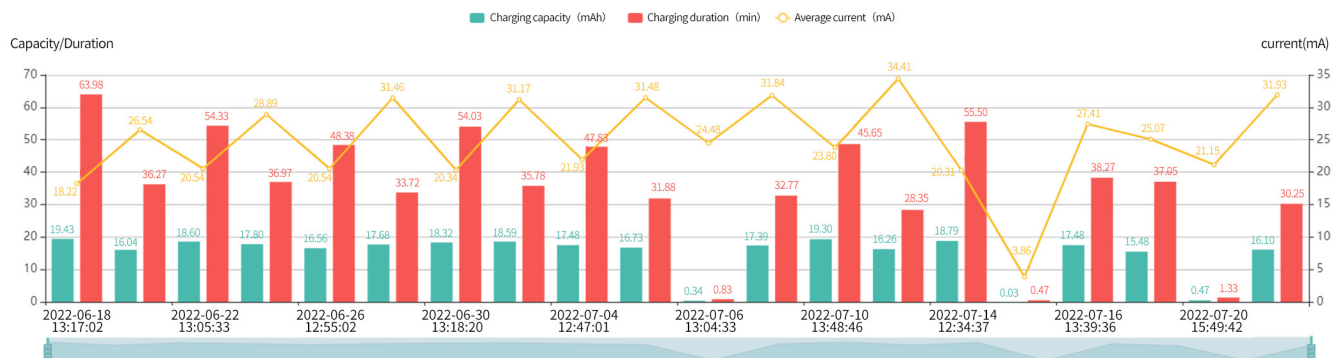
Lie_R

INNOVATIVE PROGRAMMABLE CHARGER

- The programmable charger has both programmable and charging function.
- Real time temperature monitoring, temperature overheating protection, making charging safer.
- Intelligent charging alignment allows for real-time viewing of charging status and improves charging efficiency.



- Visualization of charging efficiency



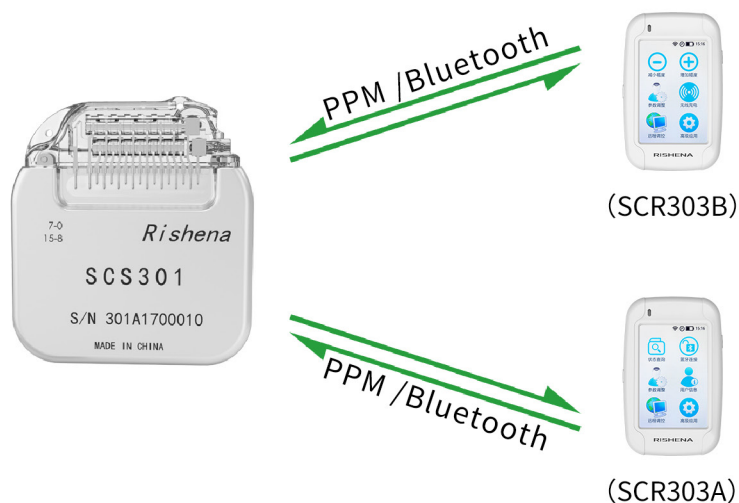
REMOTE PROGRAMMING TECHNOLOGY, PRECISE PROGRAMMING AT HOME

- Both the doctor's and patient's programmable controllers can be connected to WIFI, and remote control functions can be achieved through the programmable controller.



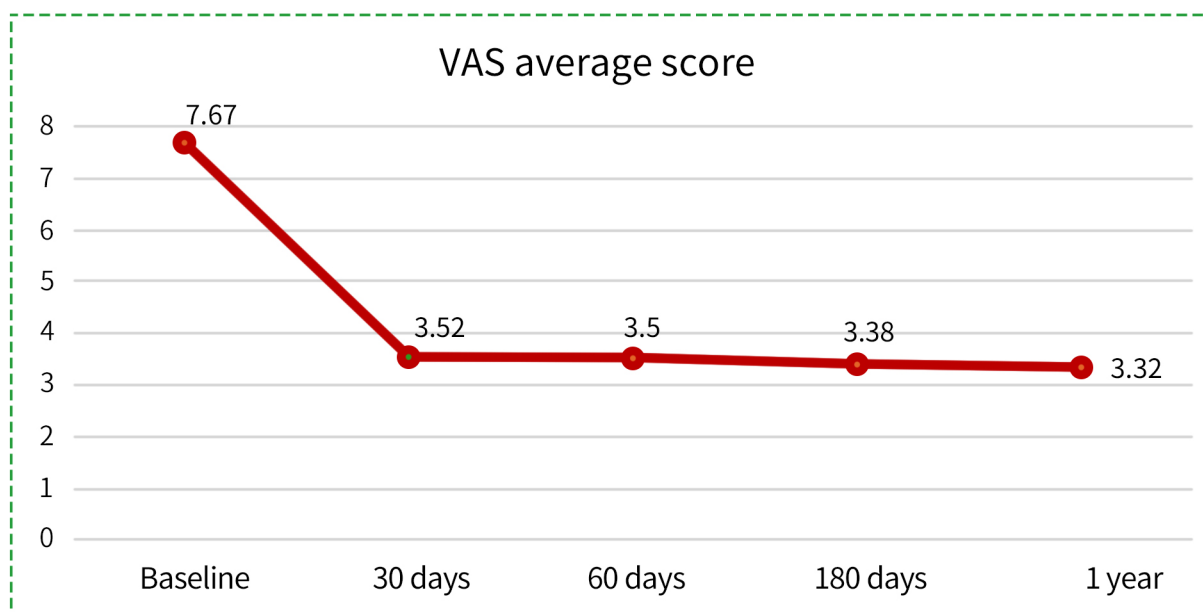
DUAL MODE COMMUNICATION, BALANCING LONG-DISTANCE AND LOW-POWER CONSUMPTION

- PPM communication: no standby power consumption.
- Bluetooth communication: within a communication distance of 3m.
- Combining two communication modes to activate Bluetooth communication through PPM.

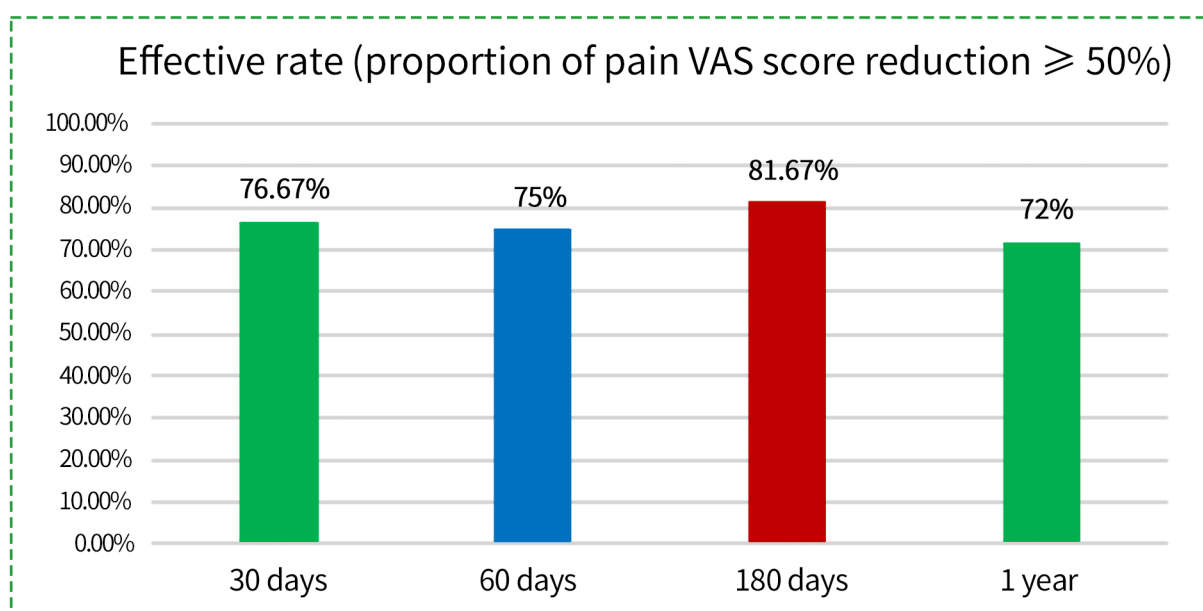


REGISTRATION CLINICAL STUDY

- 66 pain patients completed permanent implantation surgery.
- Types of pain include: FBSS, postherpetic neuralgia, brachial plexus injury, intercostal neuralgia, ischemic pain, phantom limb pain, residual limb pain, perineal pain, occipital neuralgia, etc.
- 180 days follow-up: N=60; 1-year long-term follow-up: N=50.



Mean VAS score after SCS surgery

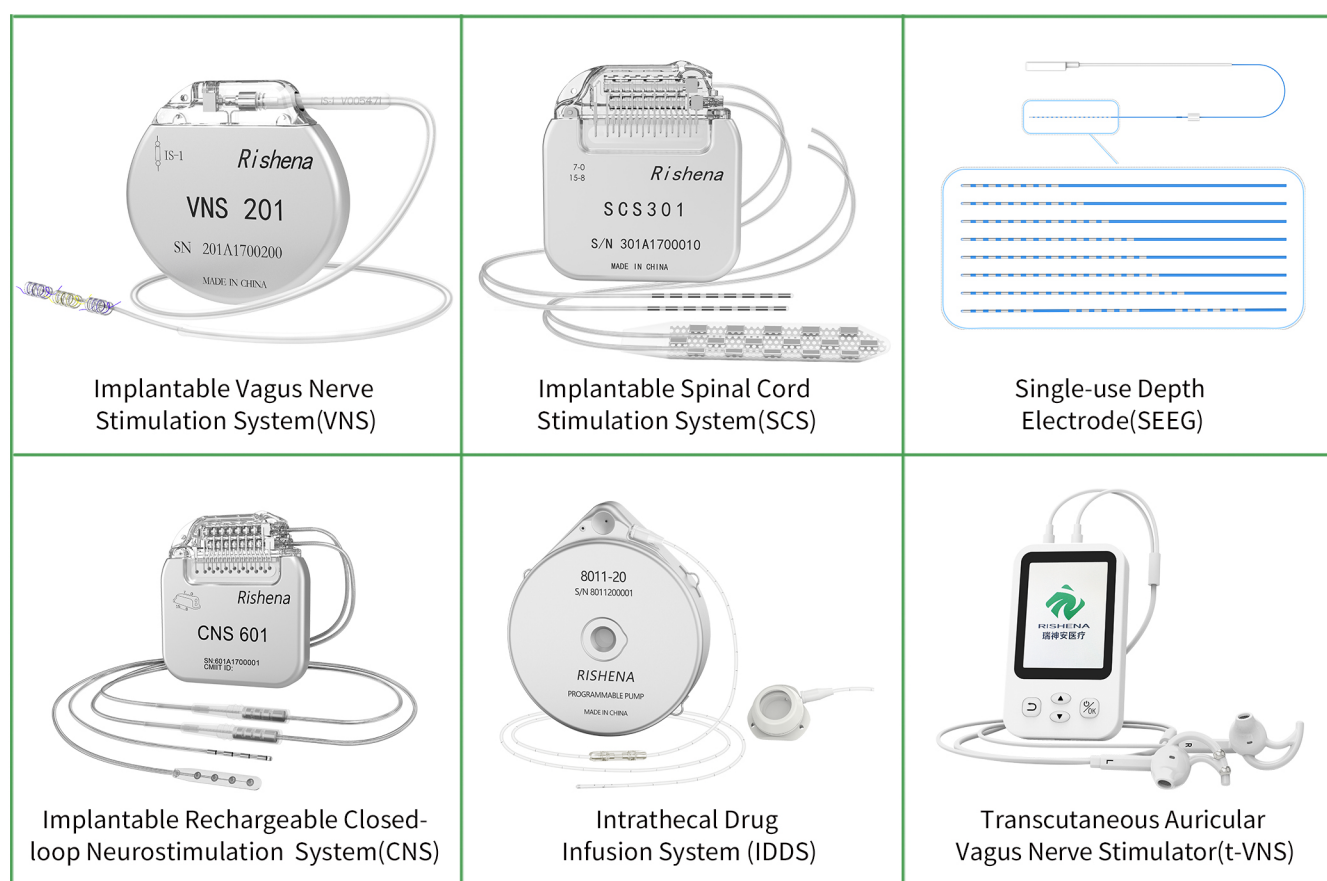


Effective rate after SCS surgery

ABOUT RISHENA MEDICAL

Rishena Medical Co., Ltd. is an innovative enterprise that focuses on the research and development, production, and sales of active implantable medical devices. The founding team of the company graduated from Tsinghua University and was founded with the participation of professors from Tsinghua University, Tsinghua Venture Capital, listed companies, and others.

Since 2010, the team from the School of Integrated Circuits at Tsinghua University has been conducting experimental research on implantable neural stimulators. After years of research and animal experiments, they settled in the Changzhou National Development Zone in Jiangsu Province after being transformed into industry, academia, and research in 2013. Through the long-term efforts of the Rishena team, they have successfully developed multiple products, with product quality and performance reaching international advanced levels.



VALUING QUALITY IS ABOUT CARING FOR LIFE

Rishena quality policy is: 'valuing quality is about caring for life', placing product quality first and striving for excellence in product quality.

The company's goal is to become an international first-class medical device enterprise with social significance, humanistic sentiment, and product value.