Spinal cord stimulation is recommended as a treatment option for adults with chronic pain of neuropathic origin who:

- continue to experience chronic pain (measuring at least 50 mm on a 0–100 mm visual analogue scale) for at least 6 months despite appropriate conventional medical management, and
- who have had a successful trial of stimulation
Novel 10-kHz High-frequency Therapy (HF10 Therapy) Is Superior to Traditional Low-frequency Spinal Cord Stimulation for the Treatment of Chronic Back and Leg Pain

The SENZA-RCT Randomized Controlled Trial

Leonardo Kapural, M.D., Ph.D., Cong Yu, M.D., Matthew W. Doust, M.D., Bradford E. Gliner, M.S., Ricardo Vallejo, M.D., Ph.D., B. Todd Sitzman, M.D., M.P.H., Kasra Amirdelfan, M.D., Donna M. Morgan, M.D., Lora L. Brown, M.D., Thomas L. Yearwood, M.D., Ph.D., Richard Bundschu, M.D., Allen W. Burton, M.D., Thomas Yang, M.D., Ramsin Benyamin, M.D., Abram H. Burgher, M.D.

(Anesthesiology 2015; 123:851-60)

What We Already Know about This Topic

- Spinal cord stimulation (SCS) often relieves radicular pain but is relatively poorly effective for the treatment of back pain
- High-frequency SCS may improve the efficacy of SCS for the treatment of low back pain

What This Article Tells Us That Is New

- This randomized trial involving 198 participants demonstrated that high-frequency spinal cord stimulation (SCS) was superior to conventional SCS for the treatment of back pain and leg pain
- The effects of high-frequency stimulation relative to conventional stimulation persisted for 12 months
Dorsal root ganglion stimulation yielded higher treatment success rate for complex regional pain syndrome and causalgia at 3 and 12 months: a randomized comparative trial

Timetable for SCS

• Appointment with doctor
  Wait of a few weeks
• Appointment with the nurse specialist
  Wait of up to 12 weeks
• Appointment with the psychologist
  Wait of a few weeks
• Final appointment with the doctor – consent and MRSA
  Wait of a few weeks
• Trial – lasts 10 days
• End of Trial assessment
  2 Week wait
• Insertion of battery or removal of wires
Spinal Cord Stimulation for Neuropathic Pain
NICE Guidance HTA59
Spinal Cord Stimulation for Neuropathic Pain
NICE Guidance HTA59

Electrode at L1 DRG – groin pain

Electrode at L4 DRG – knee pain
Our Units Research

ORIGINAL ARTICLE

Microbiological Evaluation of the Extension Wire and Percutaneous Epidural Lead Anchor Site Following a “2-Stage Cut-Down” Spinal Cord Stimulator Procedure

Abdul Ghaaliq Lalkhen, MSc, FFPMRCA, FRCA; Mahindra Chincholkar, FFPMRCA, FRCA; Jiten Patel, MB, ChB

The Manchester and Salford Pain Centre, Salford Royal NHS Foundation Trust, Manchester, U.K.

Regarding the Professionals you have seen

- Understood explanation of SCS: 74% Strongly agree, 26% Agree
- Enough time for discussion: 79% Strongly agree, 21% Agree
- Questions answered: 74% Strongly agree, 26% Agree
- I was listened to: 79% Strongly agree, 21% Agree
- I felt confident & trusted the professionals: 84% Strongly agree, 16% Agree
- I have been treated with respect & dignity: 95% Strongly agree, 5% Agree

n=19

Patient Satisfaction
**Patient Satisfaction**

**Information & Decisions**

- I was given enough info: 69% Strongly agree, 31% Agree
- I understood the risks & benefits: 74% Strongly agree, 26% Agree
- I was involved in decision making: 79% Strongly agree, 21% Agree
- The procedure was explained: 64% Strongly agree, 31% Agree, 5% Undecided
- My questions were answered in a way I understood: 79% Strongly agree, 21% Agree
- I was told what to expect after the procedure: 64% Strongly agree, 26% Agree, 5% Undecided
- I was able to talk to someone about worries / fears: 79% Strongly agree, 21% Agree
- Others were able to discuss SCS with the team: 79% Strongly agree, 21% Agree

**n=19**
Patient Satisfaction

After the procedure

<table>
<thead>
<tr>
<th>I knew of the problems to be aware of on discharge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly agree: 74%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>I knew who to contact with worries on discharge</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongly agree: 84%</td>
</tr>
</tbody>
</table>

Overall how would you rate the care you have received?

<table>
<thead>
<tr>
<th>Overall care rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent: 95%</td>
</tr>
</tbody>
</table>

n=19