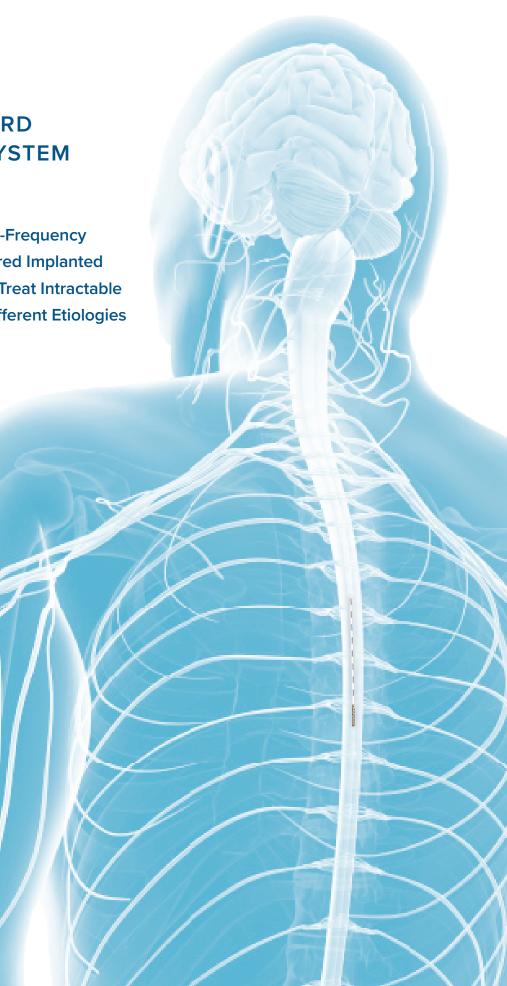


# FREEDOM SPINAL CORD STIMULATOR (SCS) SYSTEM

Spinal Cord Stimulator with High-Frequency
Electromagnetic Coupling-Powered Implanted
Electrode Array and Receiver to Treat Intractable
Chronic Back and Leg Pain of Different Etiologies

Bartolomäus Muskala MD



## STUDY OBJECTIVE:

Analyze the effectiveness of the Freedom Spinal Cord Stimulator System (SCS) for failed back surgery utilizing frequencies of up to 1499 Hz.

#### **KEY RESULTS:**

# Externally powered SCS with a pulse rate of 1499 Hz is effective in the treatment of chronic pain:



# Pain VAS assessments during the available follow-ups for each patient and mean values

Patient	Baseline	Current*
1	7.5	4
2	10	1.5
3	8	3
4	9	1
5	10	2
6	9	3
7	9	2.5
8	8.5	3.5
9	9.5	4
10	9.5	2.5
11	10	1
12	7.5	3.5
Mean	8.94	2.62

<sup>\*</sup>Current assessment after the 6 or 12 months follow-up.

## **Externally powered SCS is safe**



# **Externally powered SCS leads to:**



56% reduction in disability

86% reduction in opioid usage

6 out of 7 subjects using opioids at baseline were able to stop using them.



**125% improvement** in quality of life Mean index score 0.35 improved to 0.79.

76% improvement in duration of sleep

<sup>&</sup>lt;sup>2</sup> Serious adverse event



<sup>&</sup>lt;sup>1</sup> Adverse event