

# NeuroReformer®

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## Executive Summary

Real-World Evidence | August 2022 - December 2023

125 patients | 1,101 treatments

Avg 9 sessions per patient

### How to Interpret This Report:

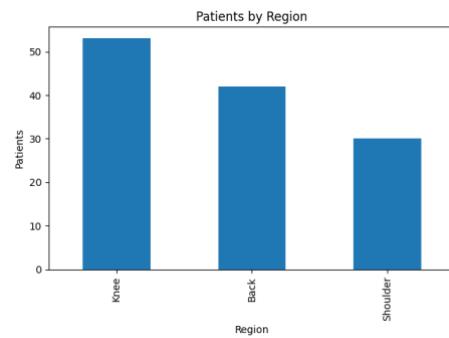
This analysis summarizes real-world clinical and operational outcomes observed during routine use of the NeuroReformer® platform in a live clinical setting. Results describe observed trends over the course of treatment and are not intended to establish causal efficacy or replace controlled clinical studies.

## Clinical Impact

- Moderate–Severe Pain: 100% → 17%
- 83% achieved None–Mild pain
- Mean pain reduction: 7.2 / 10
- Avg ROM gain: 73°
- Rapid response (~5 sessions)

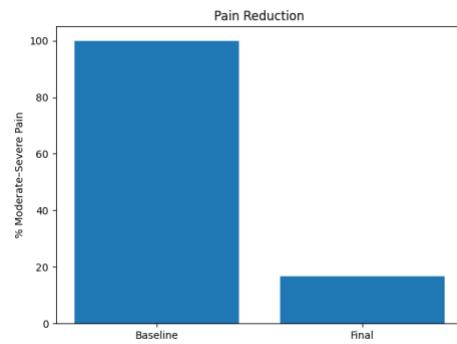
125 patients were treated with the NeuroReformer® for various symptoms related to their knee (42.4%), back (33.6%), and shoulder (24.0%) between August 2022 and December 2023. Data from 1,101 treatment sessions during this period were included in this analysis. On average, patients underwent 9 treatments with similar frequency for back (10), knee (9), and shoulder (8).

The average treatment duration was 76 days (shoulder: 73 days, knee: 75 days, back: 80 days).



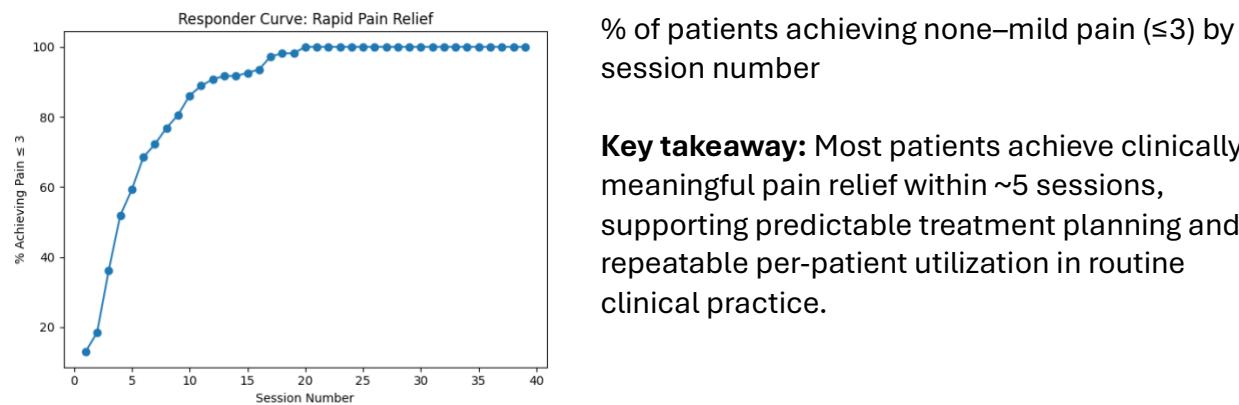
During this time, moderate to severe pain ratings were reduced from 100% at baseline to 17% with 83% of all patients reporting none or mild pain at final assessment.

On average, patients underwent 5.1 treatments to achieve none to mild pain ratings (0-3). Moderate to severe shoulder pain exhibited the most significant reduction, decreasing from 100% at baseline to 10% at the last assessment, with 90% of patients reporting no or mild pain. Similarly, moderate to severe knee pain showed a reduction from 100% to 11%, with 89% of patients reporting no or mild pain. Moderate to severe back pain was reduced from 100% to 29%, with 71% of patients reporting no or mild pain.



At baseline, all patients in this analysis entered treatment with moderate to severe pain (NPRS  $\geq 4$ ), with no patients reporting mild or no pain prior to treatment initiation.

Pain Rating	Baseline	Final Assessment
Moderate to Severe	100%	17%
None to Mild	0%	83%



On the Numeric Pain Rating Scale (0-10/worst), the average magnitude of pain relief was measured at 7.2 points. The greatest pain reduction was observed after shoulder treatments, with a reduction of 7.6/10. Knee treatments resulted in a pain reduction of 7.2/10, while back treatments yielded a reduction of 6.9/10.

Range of motion (ROM) was measured at the beginning and end of each treatment. With the first neuromodulation treatment, ROM improved on average by 9 degrees (knee: 11, shoulder: 10, back: 5) with a mean gain of 5 degrees during consecutive treatment sessions.

From baseline to last treatment, the mean ROM improved by 73 degrees (shoulder: 141 degrees, knee: 74 degrees, back: 24 degrees).

Across all 1,101 treatments, stimulation amplitude (measured in milliamperes, mA) increased on average by 6.1 mA per session. Patients acclimated to an average increase of 79 mA from their first to final treatment.

### **Conclusion**

Following an average of nine (9) NeuroReformer® treatment sessions, patients with shoulder, knee, and back-related symptoms experienced substantial and clinically meaningful reductions in pain, along with significant improvements in range of motion and treatment tolerance.

## **Data Summary**

### **PATIENT POPULATION**

How many patients were included?

Overall: 125

Back: 42

Shoulder: 30

Knee: 53

### **TREATMENT WINDOW**

August 2022 - December 2023

### **TREATMENT UTILIZATION**

How many treatment sessions did patients use?

Overall: 1,101 (total), 8.8/patient

Back: 410 (total), 9.8/patient

Shoulder: 242 (total), 8.1/patient

Knee: 449 (total), 8.5/patient

### **AVERAGE TREATMENT DURATION**

How long did patients undergo treatment?

Date range first to last treatment

Overall: 76 days

Back: 80 days

Shoulder: 73 days

Knee: 75 days

## PAIN RELIEF

What was the distribution of baseline and final assessment pain rating?

**Pain Scale: 0-10 (worst)**

**No Pain: 0**

**Mild Pain: 1-3**

**Moderate Pain: 4-7**

**Severe Pain: 8-10**

Pain Rating	Baseline	Final Assessment
Moderate to Severe	100.0%	16.8%
None to Mild	0.0%	83.2%

At baseline, all patients in this analysis entered treatment with moderate to severe pain (NPRS  $\geq 4$ ), with no patients reporting mild or no pain prior to treatment initiation.

*Overall*

Pain Rating	Baseline	Final
Severe	80.8%	4.0%
Moderate	19.2%	12.8%
Mild	0.0%	45.6%
None	0.0%	37.6%

*Back*

Pain Rating	Baseline	Final
Severe	83.3%	4.8%
Moderate	16.7%	23.8%
Mild	0.0%	42.9%
None	0.0%	28.6%

*Shoulder*

Pain Rating	Baseline	Final
Severe	83.3%	6.7%
Moderate	16.7%	3.3%
Mild	0.0%	53.3%
None	0.0%	36.7%

**Knee**

<b>Pain Rating</b>	<b>Baseline</b>	<b>Final</b>
Severe	77.4%	1.9%
Moderate	22.6%	9.4%
Mild	0.0%	43.4%
None	0.0%	45.3%

How many treatment sessions were required to achieve mild (1-3) to no pain (0)?

**Pain Scale: 0-10 (worst)**

AVERAGE: 5.1 treatments to achieve no to mild pain (0-3)

How much pain relief did patients achieve after their first treatment?

**Pain Scale: 0-10 (worst)**

Overall: 2.3 points

Back: 1.6 points

Shoulder: 2.2 points

Knee: 3.0 points

How much pain relief did patients achieve after each treatment?

**Pain Scale: 0-10 (worst)**

Overall: 1.9 points

Back: 1.5 points

Shoulder: 1.9 points

Knee: 2.3 points

How much pain relief did patients achieve after all treatments?

**Pain Scale: 0-10 (worst)**

**Start: Baseline pain before first treatment**

**End: Pain after last treatment**

Overall: 7.2

Back: 6.9

Shoulder: 7.6

Knee: 7.2

## RANGE OF MOTION (ROM)

How much improvement in ROM did patients achieve after their first treatment?

Overall: 9 degrees

Back: 5 degrees

Shoulder: 10 degrees

Knee: 11 degrees

How much improvement in ROM did patients achieve after each treatment?

Overall: 5 degrees

Back: 2 degrees

Shoulder: 6 degrees

Knee: 7 degrees

How much improvement in ROM did patients achieve after all treatments?

**Start: Baseline pain before first treatment**

**End: Pain after last treatment**

Overall: 73 degrees

Back: 24 degrees

Shoulder: 141 degrees

Knee: 74 degrees