|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |
| Rat # | **Intact rats (Fig. 1)** | **SCI Rats (Fig. 3)** | **EMG Analysis (Fig. 4)** | **Long-term efficacy (Figure 3-Figure supplement 3)** | **Posture : SCI severity (Fig. 5)** | **Posture : Recovery (Fig. 5)** | **Motor maps (Fig. 6)** | **Ipsilateral modulation (Fig. 7)** | **Contra ablation (Fig. 8)** | **Long-train stimulation (Fig. 9)** | **Injury severity group** |
| 1 | **√** | **√** | **√** | **√** | **√** | **√** | **√** |  |  |  | **Moderate** |
| 2 | **√** | **√** | **√** | **√** | **√** | **√** | **√** |  |  |  | **Severe** |
| 3 | **√** |  |  |  | **√** | **√** | **√** |  |  | **√** | **Moderate** |
| 4 | **√** | **√** | **√** |  | **√** |  | **Array failure** |  |  |  | **Moderate** |
| 5 | **√** | **√** | **√** |  | **√** | **√** | **√** | **√** |  | **√** | **Mild** |
| 6 | **√** | **√** | **√** |  | **√** | **√** | **√** |  |  | **√** | **Severe** |
| 7 |  | **√** | **√** |  | **√** | **√** | **√** |  |  |  | **Mild** |
| 8 |  | **√** | **√** |  | **√** | **√** | **√** | **√** |  | **√** | **Moderate** |
| 9 |  |  |  |  | **√** | **√** | **Array failure** |  |  | **√** | **Moderate** |
| 10 |  |  |  |  | **√** | **√** | **√** |  |  | **√** | **Moderate** |
| 11 |  |  |  |  | **√** | **√** | **√** |  |  |  | **Severe** |
| 12 |  |  |  |  | **√** | **√** | **√** |  |  |  | **Moderate** |
| 13 |  |  |  |  | **√** | **√** | **√** |  |  |  | **Mild** |
| 14 |  |  |  |  | **√** | **√** | **Array failure** |  |  |  | **Severe** |
| 15 |  |  |  |  | **√** | **√** | **Array failure** |  |  |  | **Moderate** |
| 16 |  |  |  |  | **√** | **√** | **√** |  |  |  | **Severe** |
| 17 |  |  |  |  |  |  |  |  |  | **Ketamine** |  |
| 18 |  |  |  | **√** |  |  |  |  |  | **Ketamine** |  |
| 19 |  |  |  | **√** |  |  |  |  |  | **Ketamine** |  |
| 20 |  |  |  | **√** |  |  |  |  |  | **Ketamine** |  |
| 21 |  |  |  |  | **√** |  |  |  | **√** |  |  |
| 22 |  |  |  |  | **√** |  |  |  | **√** |  |  |
| 23 |  |  |  |  | **√** |  |  |  | **√** |  |  |
| 24\* |  |  |  |  | **√** |  |  |  |  |  | **Severe** |
| 25\* |  |  |  |  | **√** |  |  |  |  |  | **Moderate** |
| 26\* |  |  |  |  | **√** |  |  |  |  |  | **Moderate** |
| 27\* |  |  |  |  | **√** |  |  |  |  |  | **Mild** |
| 28\* |  |  |  |  | **√** |  |  |  |  |  | **Moderate** |
| 29\* |  |  |  |  | **√** |  |  |  |  |  | **Moderate** |
| 30\* |  |  |  |  | **√** | **√** |  |  |  |  | **Moderate** |
| 31\* |  |  |  |  | **√** | **√** |  |  |  |  | **Mild** |
| 32\* |  |  |  |  | **√** | **√** |  |  |  |  | **Moderate** |
| 33\* |  |  |  |  | **√** | **√** |  |  |  |  | **Moderate** |
| 34\* |  |  |  |  | **√** | **√** |  |  |  |  | **Moderate** |
| 35\* |  |  |  |  | **√** | **√** |  |  |  |  | **Moderate** |
| 36\* |  |  |  |  | **√** | **√** |  |  |  |  | **Mild** |
| 37\* |  |  |  |  | **√** | **√** |  |  |  |  | **Moderate** |
| 38\* |  |  |  |  | **√** | **√** |  |  |  |  | **Severe** |
| 39\* |  |  |  |  | **√** | **√** |  |  |  |  | **Mild** |
| 40\* |  |  |  |  | **√** | **√** |  |  |  |  | **Moderate** |
| 41\* |  |  |  |  | **√** | **√** |  |  |  |  | **Moderate** |
| 42\* |  |  |  |  | **√** | **√** |  |  |  |  | **Severe** |
| 43\* |  |  |  |  | **√** | **√** |  |  |  |  | **Moderate** |
| 44\* |  |  |  |  | **√** | **√** |  |  |  |  | **Moderate** |
| 45\* |  |  |  |  | **√** | **√** |  |  |  |  | **Moderate** |
| 46\* |  |  |  |  | **√** | **√** |  |  |  |  | **Moderate** |
| 47\* |  |  |  |  | **√** | **√** |  |  |  |  | **Mild** |
| 48\* |  |  |  |  | **√** | **√** |  |  |  |  | **Moderate** |