Supplementary Table 1. Summary of means and standard deviations (SD) for all variables used to assess differences between groups. P-values are obtained from single variable Mann-Whitney U tests. SVM: Spontaneous volitional movement. Non-SVM: No spontaneous volitional movement.

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| Variable | SVM group (n=4) | non-SVM group (n=3) |
| Age (years) | Mean | 49.25 | 38.00 |
| SD | 7.63 | 13.11 |
| p-value | 0.285 |
| Years Post-injury (years) | Mean | 9.31 | 6.46 |
| SD | 5.84 | 4.07 |
| p-value | 0.426 |
| Anteroposterior spinal cord differences from normal above the injury (mm) | Mean | -2.11 | -1.18 |
| SD | 0.81 | 0.42 |
| p-value | 0.114 |
| Transverse spinal cord differences from normal above the injury (mm) | Mean | -2.33 | -0.77 |
| SD | 0.65 | 1.44 |
| p-value | 0.212 |
| Anteroposterior spinal cord differences from normal below the injury (mm) | Mean | -0.63 | -0.37 |
| SD | 0.95 | 0.20 |
| p-value | 0.4 |
| Transverse spinal cord differences from normal below the injury (mm) | Mean | -1.28 | -0.70 |
| SD | 0.70 | 0.98 |
| p-value | 0.4 |
| MAS baseline score | Mean | 2.44 | 0.17 |
| SD | 1.12 | 0.29 |
| p-value | 0.048 |
| Total stimulation used (hours) | Mean | 239.35 | 276.63 |
| SD | 156.56 | 42.57 |
| p-value | 0.629 |
| Average daily stimulation (hours per day) | Mean | 13.46 | 14.00 |
| SD | 8.07 | 1.90 |
| p-value | 1 |