

**Supplementary Table 2.** Paired comparisons between matched HEMI and LEMI cohorts from propensity score matching of sensitivity analysis subgroup

| Outcome                               | LEMI (n = 45) | HEMI (n = 45) | Mean difference | p-value |
|---------------------------------------|---------------|---------------|-----------------|---------|
| Change in upper extremity motor score | 12.7 ± 10.6   | 8.2 ± 8.2     | 4.5             | 0.010*  |
| Change in lower extremity motor score | 9.8 ± 16.4    | 5.0 ± 10.4    | 4.8             | 0.104   |
| Change in total motor score           | 22.5 ± 25.1   | 13.2 ± 13.8   | 9.3             | 0.025*  |
| ≥ 1 AIS grade improvement (%)         | 27 (60.0)     | 30 (66.7)     | -               | 0.606   |

Values are presented as mean ± standard deviation or number (%).

HEMI, high-energy mechanism of injury; LEMI, low-energy mechanism of injury; AIS, American Spinal Injury Association Impairment Scale.

\*p < 0.05, statistically significant differences.