

# Additional file 11. Comparison of score changes in ratio to baseline in primary outcome measures

|                                       | Assessment interval | Group <sup>a</sup> (n = 88) |                  |                  |                  | P-value <sup>b</sup> |
|---------------------------------------|---------------------|-----------------------------|------------------|------------------|------------------|----------------------|
|                                       |                     | Group A (n = 22)            | Group B (n = 24) | Group C (n = 20) | Group D (n = 22) |                      |
| <b>GMPM</b>                           | 0-1 month           | 0.11 (0.04)                 | 0.09 (0.03)      | 0.05 (0.02)      | 0.02 (0.01)      | 0.02 <sup>c</sup>    |
|                                       | 0-3 month           | 0.16 (0.05)                 | 0.13 (0.03)      | 0.06 (0.02)      | 0.06 (0.03)      | 0.14                 |
|                                       | 0-6 month           | 0.20 (0.07)                 | 0.19 (0.04)      | 0.07 (0.02)      | 0.07 (0.03)      | 0.09                 |
|                                       | 0-12 month          | 0.33 (0.09)                 | 0.21 (0.06)      | 0.11 (0.03)      | 0.07 (0.03)      | 0.02 <sup>c</sup>    |
| <b>GMFM</b>                           | 0-1 month           | 0.14 (0.05)                 | 0.10 (0.02)      | 0.12 (0.02)      | 0.10 (0.02)      | 0.69                 |
|                                       | 0-3 month           | 0.27 (0.12)                 | 0.18 (0.03)      | 0.18 (0.03)      | 0.17 (0.03)      | 0.85                 |
|                                       | 0-6 month           | 0.32 (0.12)                 | 0.31 (0.06)      | 0.28 (0.05)      | 0.25 (0.04)      | 0.67                 |
|                                       | 0-12 month          | 0.42 (0.16)                 | 0.38 (0.07)      | 0.34 (0.05)      | 0.29 (0.06)      | 0.47                 |
| <b>BSID-II Mental scale raw score</b> | 0-1 month           | 0.05 (0.01)                 | 0.05 (0.02)      | 0.05 (0.01)      | 0.04 (0.01)      | 0.43                 |
|                                       | 0-3 month           | 0.09 (0.02)                 | 0.10 (0.02)      | 0.08 (0.02)      | 0.09 (0.02)      | 0.96                 |
|                                       | 0-6 month           | 0.14 (0.02)                 | 0.15 (0.03)      | 0.15 (0.03)      | 0.11 (0.02)      | 0.95                 |
|                                       | 0-12 month          | 0.22 (0.04)                 | 0.22 (0.03)      | 0.24 (0.05)      | 0.16 (0.03)      | 0.55                 |
| <b>BSID-II Motor scale raw score</b>  | 0-1 month           | 0.04 (0.02)                 | 0.04 (0.01)      | 0.06 (0.02)      | 0.15 (0.09)      | 0.66                 |
|                                       | 0-3 month           | 0.09 (0.03)                 | 0.09 (0.02)      | 0.09 (0.03)      | 0.24 (0.10)      | 0.87                 |
|                                       | 0-6 month           | 0.09 (0.02)                 | 0.14 (0.03)      | 0.15 (0.03)      | 0.24 (0.12)      | 0.66                 |
|                                       | 0-12 month          | 0.17 (0.03)                 | 0.20 (0.04)      | 0.21 (0.04)      | 0.31 (0.11)      | 0.87                 |

<sup>a</sup>Group A (n = 22) received UCB and EPO, group B (n = 24) received UCB and placebo EPO, group C (n = 20) received placebo UCB and EPO, and group D (n = 22) received placebo UCB and placebo EPO. <sup>b</sup>P-values were calculated for difference among four groups of the score changes in four main functional assessments using Kruskal-Wallis Test. <sup>c</sup>P < .05, when assessed by post hoc analysis after Kruskal-Wallis test on GMPM change ratio at 0-1 month and 0-12 month, *significant difference were shown* among group 1 vs. group 4.

Abbreviations: BSID-II, Korean version of the Bayley scales of infant development, second edition; GMPM, gross motor performance measure; GMFM, gross motor function measure.