**SUPPLEMENTARY TABLES**

**Table S1**  Distribution of Ages and Stages Questionnaire® version 3 (ASQ-3) tests in study population

|  |  |  |
| --- | --- | --- |
| **ASQ-3 questionnaire employed** | **Twin pregnancies**  **(n=174)** | **Children**  **(n= 327)** |
| ASQ 12 | 7 (4.0) | 13 (4.0) |
| ASQ 14 | 12 (6.9) | 24 (7.3) |
| ASQ 16 | 14 (8.1) | 26 (8.0) |
| ASQ 18 | 4 (2.3) | 7 (2.1) |
| ASQ 20 | 5 (2.9) | 8 (2.5) |
| ASQ 22 | 5 (2.9) | 9 (2.8) |
| ASQ 24 | 10 (5.8) | 20 (6.1) |
| ASQ 27 | 10 (5.8) | 17 (5.2) |
| ASQ 30 | 10 (5.8) | 20 (6.1) |
| ASQ 33 | 15 (8.6) | 26 (8.0) |
| ASQ 36 | 23 (13.2) | 43 (13.2) |
| ASQ 42 | 23 (13.2) | 44 (13.5) |
| ASQ 48 | 18 (10.3) | 35 (10.7) |
| ASQ 54 | 13 (7.5) | 25 (7.7) |
| ASQ 60 | 5 (2.9) | 10 (3.1) |

Data are given as n (%).

**Table S2**  Frequency of abnormal scores attained on Ages and Stages Questionnaire® version 3 (ASQ-3) by infants from complicated monochorionic diamniotic twin pregnancies, according to type of complication (not mutually exclusive)

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Twin pregnancies**  **(n=69)** | **Number of children (n=117)** | **Abnormal ASQ-3 score** |
| Twin-to-twin transfusion syndrome | 41 (59.4%) | 69 (59.0%) | 14 (20.3%) |
| Selective fetal growth restriction | 32 (46.4%) | 60 (51.3%) | 8 (13.3%) |
| Single fetal demise | 15 (21.7%) | 15 (12.8%) | 3 (20.0%) |
| Twin anaemia polycythaemia sequence | 5 (7.2%) | 6 (5.1%) | 0 (0%) |
| Twin Reversed Arterial Perfusion sequence | 3 (4.3%) | 3 (2.6%) | 2 (66.7%) |

Abnormal ASQ-3 score was defined as score of more than 2 SD below mean in any one of five domains.

**Table S3**  Balance table for characteristics of patients before and after propensity-score matching

| **Abnormal ASQ-3 in one or more domain** | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Levels** | **Unmatched characteristics** | | | **Matched characteristics** | | |
|  |  | **No** | **Yes** | **aSMD** | **No** | **Yes** | **aSMD** |
| Parity | Nulliparous, n (%) | 91 (49.2) | 43 (58.9) | 0.196 | 114 (61.6) | 43 (58.9) | 0.056 |
|  | Multiparous, n (%) | 94 (50.8) | 30 (41.1) |  | 71 (38.4) | 30 (41.1) |  |
| Maternal BMI (kg/m2) | Mean (SD) | 27.1 (6.3) | 26 (4.65) | 0.346 | 24.8 (3.92) | 26 (4.65) | 0.012 |
| Gestational Age | (SD) | 35.9 (2.2) | 32.9 (2.71) | 0.346 | 33 (2.9) | 32.9 (2.71) | 0.012 |
| Gender | Female | 89 (48.1) | 44 (60.3) | 0.246 | 104 (56.2) | 44 (60.3) | 0.082 |
|  | Male | 96 (51.9) | 29 (39.7) |  | 81 (43.8) | 29 (39.7) |  |

BMI: body mass index; aSMD: absolute standardized mean difference; SD: standard deviation