**S5 Appendix. Empowerment score diagnostics**

**Figure A** Distributions of the individual dimension factor scores and the total empowerment score overlayed with the standard normal distribution



**Figure B** Correlation between individual dimension and total empowerment scores and the Gender Inequality Index



**Table A** Biserial correlations between the continuous total empowerment and individual dimensions scores and all considered outcomesa

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Empowerment score | Resources score | Decision-making score | Attitudes towards wife-beating score |
| Cognitive development off track | -0.10\*\* | -0.11\*\* | -0.04\*\* | -0.06\*\* |
| Socio-emotional development off track | -0.03\*\* | 0.01 | 0.01 | -0.05\*\* |
| Literacy-numeracy development off track | -0.13\*\* | -0.10\*\* | -0.12\*\* | -0.09\*\* |
| Physical development off track | -0.07\*\* | -0.09\*\* | -0.07\*\* | -0.02\*\* |
| Overall development off track | -0.10\*\* | -0.10\*\* | -0.05\*\* | -0.06\*\* |
| HAZ | 0.06\*\* | 0.06\*\* | -0.05\*\* | 0.06\*\* |
| Stunted (HAZ <-2) | -0.05\*\* | -0.06\*\* | 0.06\*\* | -0.05\*\* |
| Number of learning resources | 0.15\*\* | 0.10\*\* | 0.11\*\* | 0.13\*\* |
| Number of maternal stimulation activities  | 0.10\*\* | 0.06\*\* | 0.16\*\* | 0.06\*\* |
| ≥4 maternal stimulation activities | 0.08\*\* | 0.06\*\* | 0.10\*\* | 0.04\*\* |
| Number of paternal stimulation activities  | 0.15\*\* | 0.11\*\* | 0.13\*\* | 0.10\*\* |
| ≥4 paternal stimulation activities | 0.08\*\* | 0.07\*\* | 0.06\*\* | 0.06\*\* |
| Dietary diversity score | 0.17\*\* | 0.16\*\* | 0.12\*\* | 0.10\*\* |
| Minimum dietary diversity (DDS≥4) | 0.11\*\* | 0.09\*\* | 0.05\*\* | 0.09\*\* |

a Abbreviations used: HAZ, height-for-age Z-score; DDS, dietary diversity score. Statistical significance: \* *p* < 0.05. \*\* *p* < 0.01.

**Table B** Biserial correlations between the total empowerment and individual dimensions quintile categories and all considered outcomesa

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Empowerment quintile categories | Resources quintile categories | Decision-making quintile categories | Attitudes towards wife-beating quintile categories |
| Cognitive development off track | -0.04\*\* | -0.06\*\* | -0.06\*\* | -0.03\*\* |
| Socio-emotional development off track | -0.02\* | 0.00 | -0.02\* | -0.03\*\* |
| Literacy-numeracy development off track | -0.09\*\* | -0.07\*\* | -0.08\*\* | -0.07\*\* |
| Physical development off track | -0.04\*\* | -0.06\*\* | -0.05\*\* | -0.01 |
| Overall development off track | 0.07\*\* | 0.06\*\* | 0.05\*\* | 0.04\*\* |
| HAZ | -0.06\*\* | -0.05\*\* | -0.04\*\* | -0.03\*\* |
| Stunted (HAZ <-2) | -0.04\*\* | -0.06\*\* | -0.05\*\* | -0.02\*\* |
| Number of learning resources | 0.09\*\* | 0.09\*\* | 0.08\*\* | 0.06\*\* |
| Number of maternal stimulation activities  | 0.07\*\* | 0.05\*\* | 0.07\*\* | 0.06\*\* |
| ≥4 maternal stimulation activities | 0.04\*\* | 0.04\*\* | 0.05\*\* | 0.03\*\* |
| Number of paternal stimulation activities  | 0.08\*\* | 0.06\*\* | 0.07\*\* | 0.07\*\* |
| ≥4 paternal stimulation activities | 0.04\*\* | 0.04\*\* | 0.04\*\* | 0.03\*\* |
| Dietary diversity score | 0.05\*\* | 0.05\*\* | 0.05\*\* | 0.04\*\* |
| Minimum dietary diversity (DDS≥4) | 0.03\*\* | 0.02\*\* | 0.03\*\* | 0.04\*\* |

a Abbreviations used: HAZ, height-for-age Z-score; DDS, dietary diversity score. Statistical significance: \* *p* < 0.05. \*\* *p* < 0.01.