## Supplementary Table S4: Estimated Intra-Class Correlations from Null Models for main outcomes<sup>1</sup>

Outcome	Intra-Class Correlation Estimate
Child development outcomes	
ASQ-3 Gross motor z-score	0.037
ASQ-3 Fine Motor z- score	0.017
ASQ-3 Communication z- score	0.027
ASQ-3 Prob. Solving z- score	0.027
ASQ-3 Social Emotional z- score	0.015
MDAT Gross motor z- score	0.029
MDAT fine motor z- score	0.033
MDAT language z- score	0.040
MDAT socioemotional z- score	0.028
Father Engagement	
Father engagement in childcare <sup>2</sup>	0.117
Child growth outcomes	
Height-for-age (HAZ)	0.050
Weight-for-age (WAZ)	0.029
Weight-for-height (WHZ)	0.033
Middle upper arm circumference (MUAC)	0.063
Violence and safety	
Harsh discipline (MICS4) <sup>3</sup> Victimization (female caregivers) <sup>4</sup>	0.029 0.001
Perpetration (male caregivers) <sup>5</sup>	0.001

ASQ-3=Ages and Stages Questionnaire; MDAT=Malawi Developmental Assessment Tool

- 2: Among households with a father (N=524)
- 3: MICS: UNICEF's Multiple Indicator Cluster Survey
- 4: Among female caregivers reporting a current intimate partner at baseline (N=523)
- 5: Among male caregivers reporting a current intimate partner at baseline (N=450)

<sup>1:</sup> ICC estimates for Negative Binomial models were computed based on Leckie G, Browne WJ, Goldstein H, Merlo J, Austin PC. Partitioning variation in multilevel models for count data. Psychol Methods. 2020 Apr 20. doi: 10.1037/met0000265. Epub ahead of print. PMID: 32309962. Results should be interpreted with caution given there is no generally accepted way of estimating ICCs for count models, and this is an ongoing discussion.