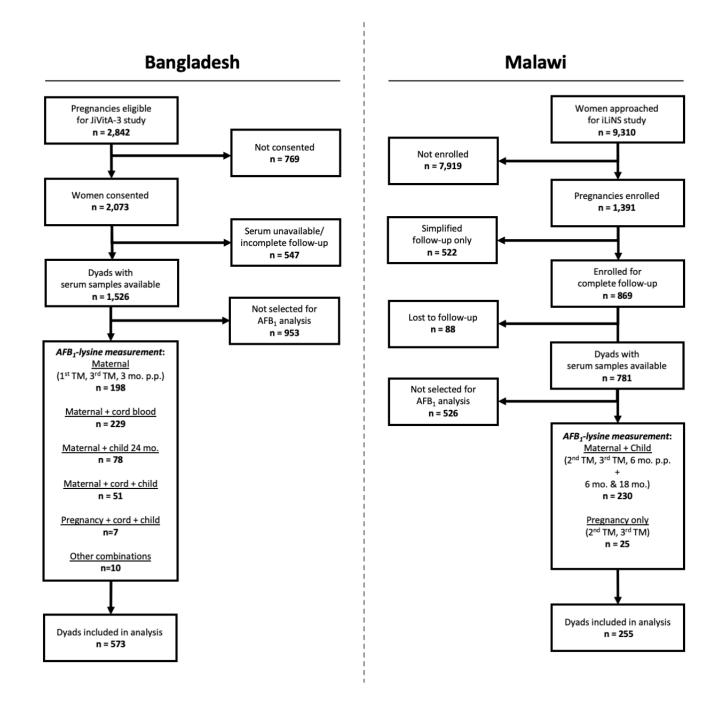
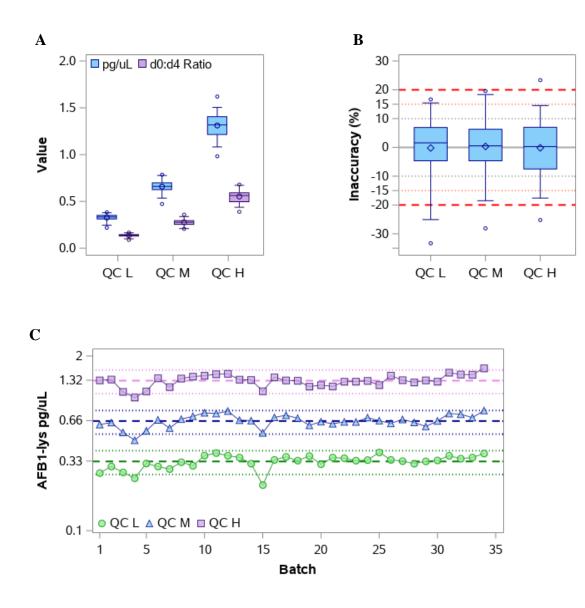
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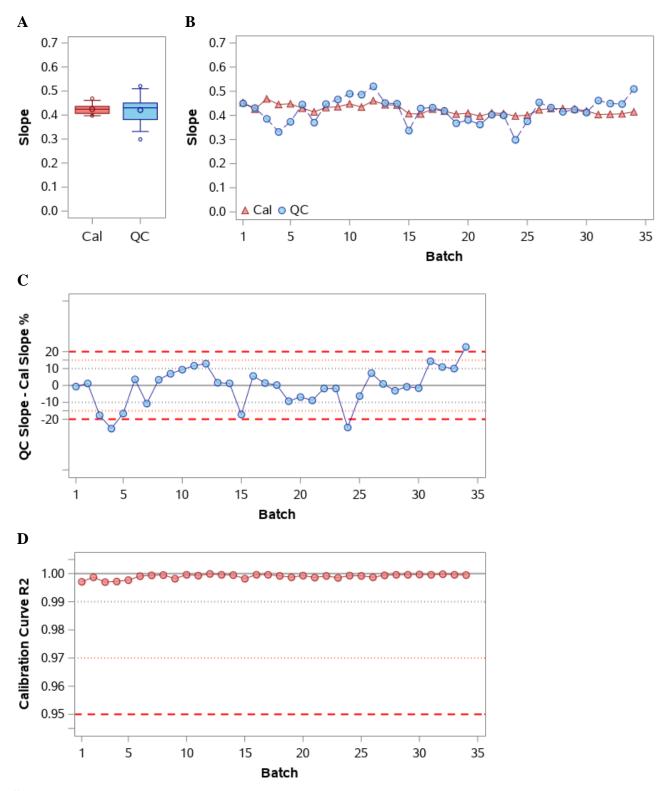
Supplemental Figure 1. CONSORT-style flow diagram summarizing selection and analysis of samples from the JiViTA-3 (Bangladesh) and iLiNS-DYAD-M (Malawi) trials for inclusion in the current study. All pregnancies included in the analysis resulted in singleton live births, with the exception of one pregnancy in Malawi (twins).

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Supplemental Figure 2. Quantitative accuracy stable across ~4,500 injections. **A**) Box plot of the calculated concentrations and peak area ratios of unlabeled (d0) : isotopically labelled (d4) AFB₁-lysine for QC_L, QC_M, and QC_H quality control samples, prepared by diluting AFB₁-dosed rat serum into control human serum. **B**) Boxplot of quantitation inaccuracies for individual QC injections, relative to the consensus mean rat serum AFB₁-lysine concentration, which was calculated from all QC injections. **C**) Longitudinal stability of AFB₁-lysine quantitation across 34 batches with valid data. Dashed lines indicate the theoretical AFB₁-lysine concentration for each QC level; dotted lines indicate $\pm 20\%$ limits.

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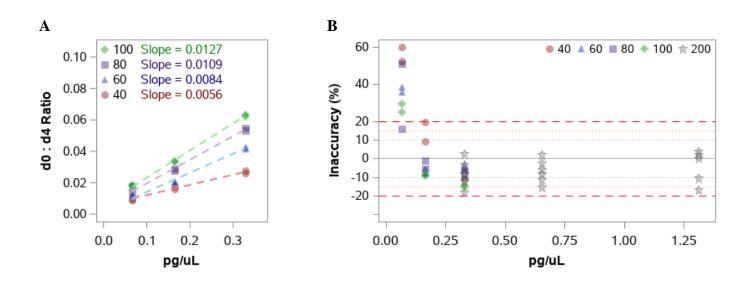
Supplemental Figure 3. Parallelism and stability of calibration curve across ~4,500 injections. **A**) Box plot of linear slopes for AFB₁-lysine calibration curves (in solvent) and QC samples (in serum matrix), across all assay

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batches. B,C) Longitudinal concordance of calibrator and QC slopes. D) Longitudinal performance of

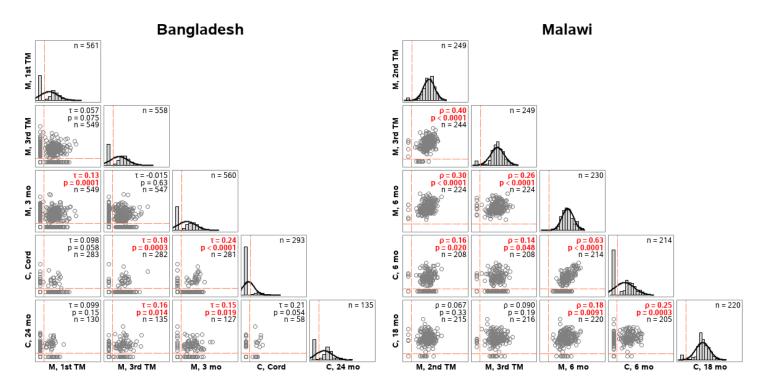
calibration curve linear fit (R^2) .

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Supplemental Figure 4. Linearity of assay using low serum input volumes. **A**) Linearity of assay response at low AFB₁-lysine concentration and low input serum volume (n=2/condition). QC_L samples (100 μ L, 80, μ L, 60 μ L, or 40 μ L) were prepared without dilution (0.33 pg/ μ L) or diluted 2- or 4-fold in human control serum (0.17 pg/ μ L or 0.083 pg/ μ L). Samples were digested using the same protocol as for 200 μ L input, but with PBS (1X, pH 7.2) replacing the omitted serum volume (*e.g.*, 100 μ L serum + 100 μ L PBS; 80 μ L serum + 120 μ L PBS, etc.). Samples were subsequently processed and analyzed as usual. Data show a linear response for all levels of serum input, with decrements in slope proportional to reductions in serum input volume. **B**) Data represent the percentage difference between observed and expected AFB₁-lysine concentrations. Quantitative accuracy of assay is acceptable at concentrations > 0.150 pg/ μ L even with very low input volumes (40 μ L), but decreases with combined low AFB₁-lysine concentration (< 0.08 pg/ μ L) and low input volumes ($\leq 80 \mu$ L).

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Supplemental Figure 5. Bivariate correlation matrices of AFB₁-lysine adduct levels in Bangladeshi and Malawian mothers and children. Scatter plots display log_{10} -transformed AFB₁-lysine adduct concentrations (pg/µL). Diagonal displays histograms, normal distribution probability density functions, and sample sizes for each subgroup. Vertical and horizontal dashed lines within each plot indicate limit of detection (0.01 pg/µL); non-detectable values are imputed at 0.005 pg/µL. Values in red indicate statistically significant ($\alpha = 0.05$) Kendall's tau-b (τ ; Bangladesh) or Spearman rank-order (ρ ; Malawi) correlation coefficients. Axis values are omitted for clarity.