Supplementary figures

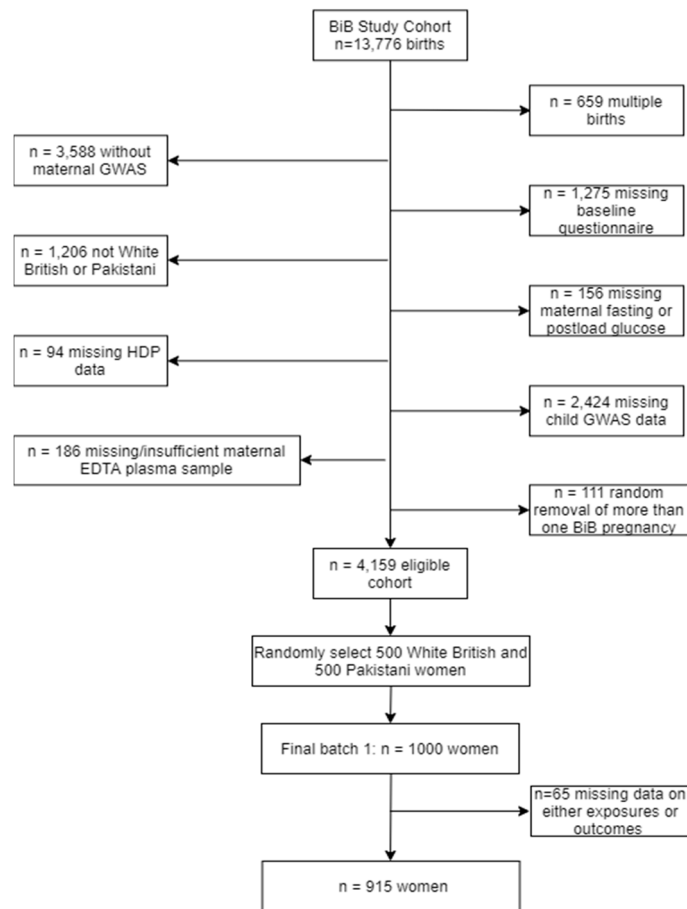**Figure S1a:** Born in Bradford 1,000 flow of participants sample selection

Batch 2 - 2000 women (case-cohort design)

BiB GD cohort n=2000	BiB GHT cohort n=2000	BiB PE cohort n=2000	BiB sPTB cohort n=2000	BiB SGA cohort n=2000	BiB LGA cohort n=2000

Remove cases of other over-sampled pregnancy related disorders

n=285 of over-sampled non-GD cases	n=289 of over-sampled non-GHT cases	n=360 of over-sampled non-PE cases	n=361 of over-sampled non-sPTB cases	n=350 of over-sampled non-SGA cases	n=345 of over-sampled non-LGA cases

BiB GD cohort n=1715	BiB GHT cohort n=1711	BiB PE cohort n=1640	BiB sPTB cohort n=1639	BiB SGA cohort n=1650	BiB LGA cohort n=1612

n=120 missing outcome or exposure data	n=119 missing outcome or exposure data	n=112 missing outcome or exposure data	n=111 missing outcome or exposure data	n=115 missing outcome or exposure data	n=111 missing outcome or exposure data

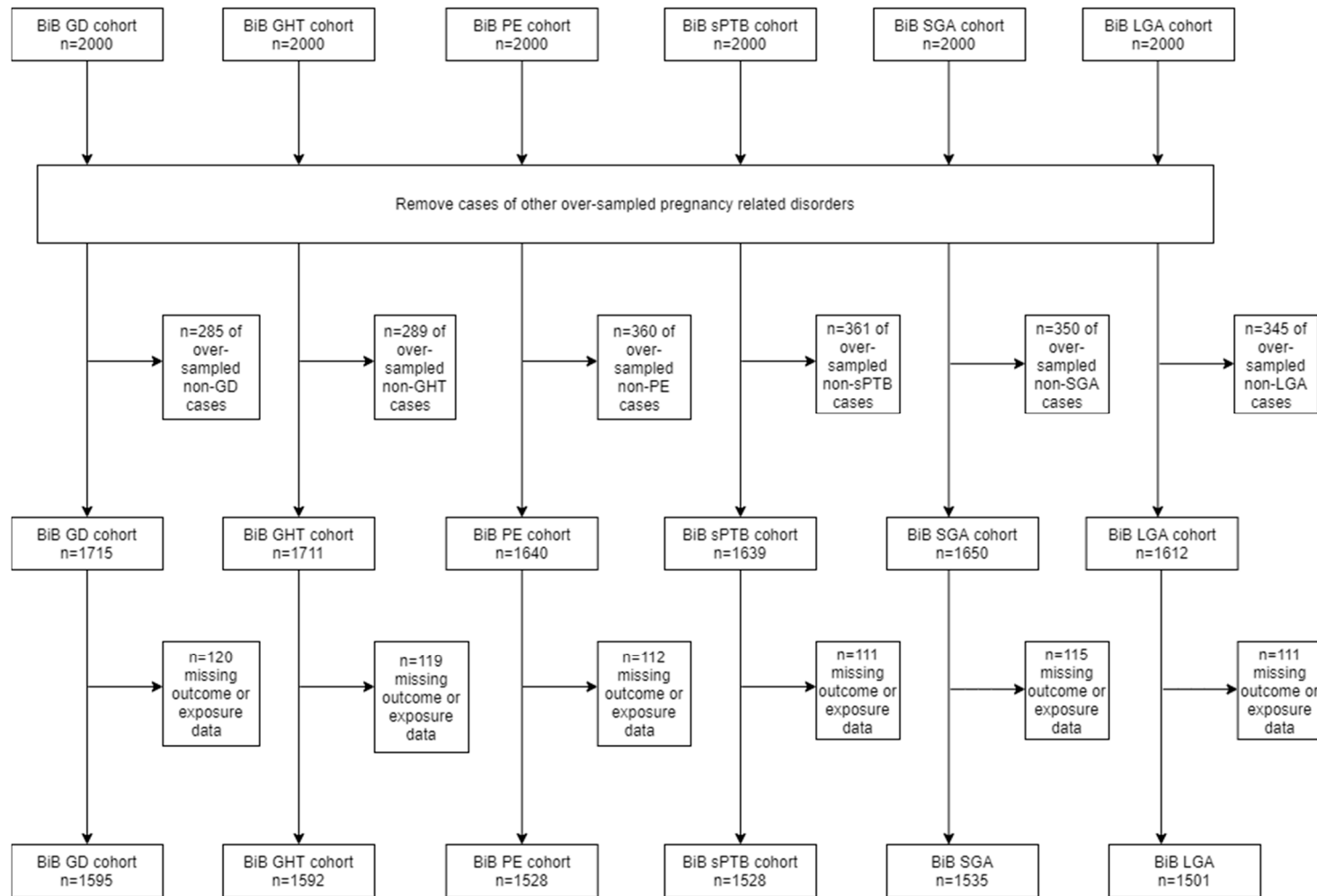| BiB GD cohort n=1595	BiB GHT cohort n=1592	BiB PE cohort n=1528	BiB sPTB cohort n=1528	BiB SGA n=1535	BiB LGA n=1501

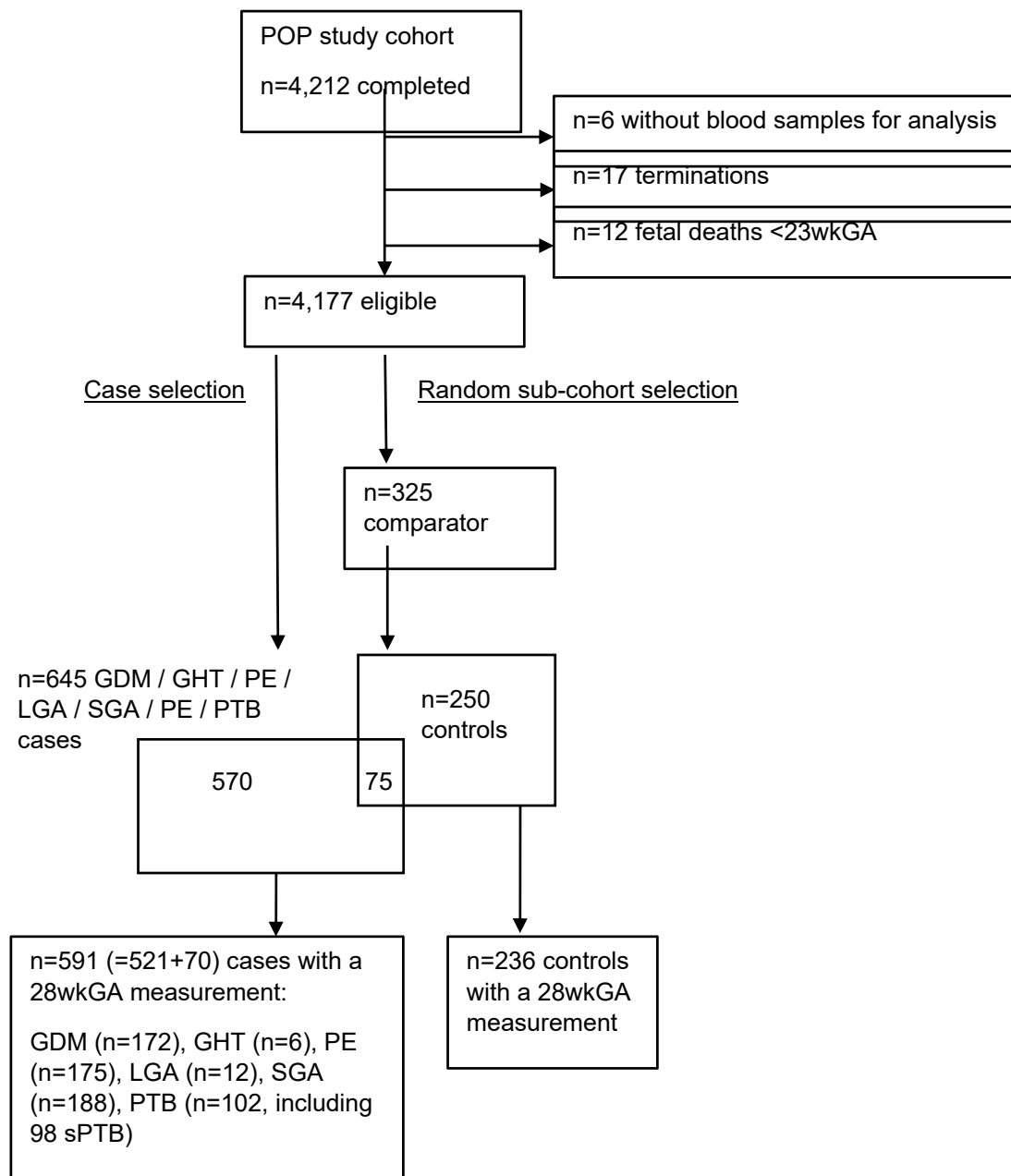**Figure S1b:** Born in Bradford 2,000 flow of participants sample selection

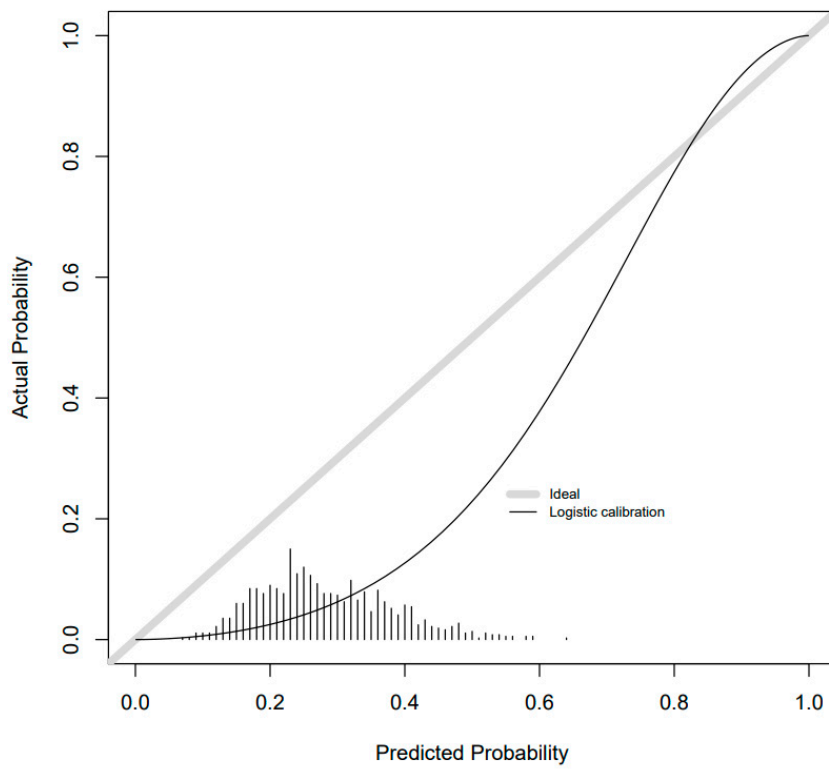**Figure S1c:** Pregnancy Outcome Prediction study sample selection.

Figure S2: The calibration slope for the combined model of gestational hypertension prediction in the Born in Bradford 1000 cohort
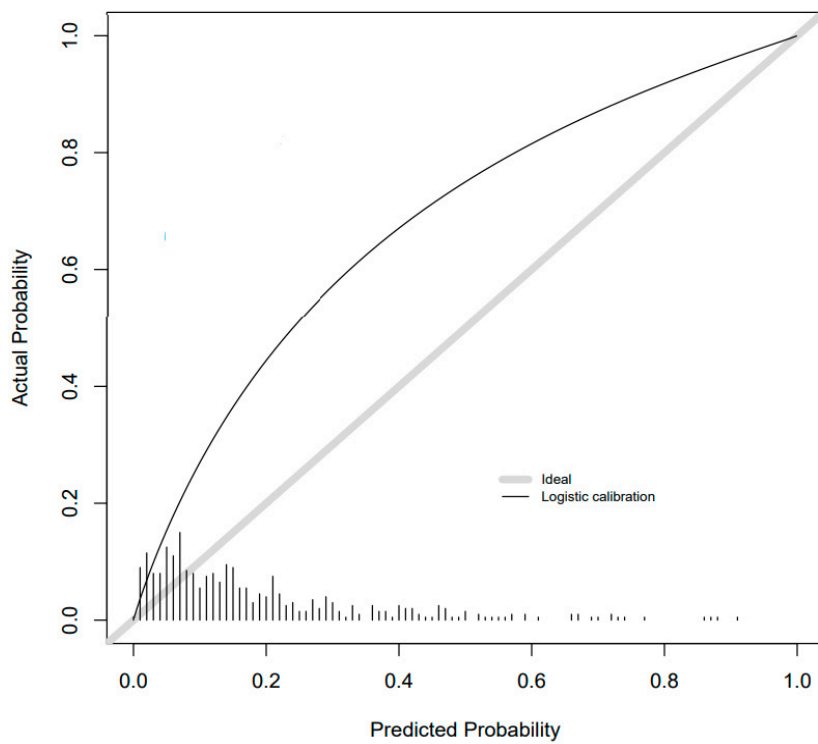

Figure S3: The calibration slope for the combined model of gestational diabetes prediction in the Pregnancy Outcome Prediction study
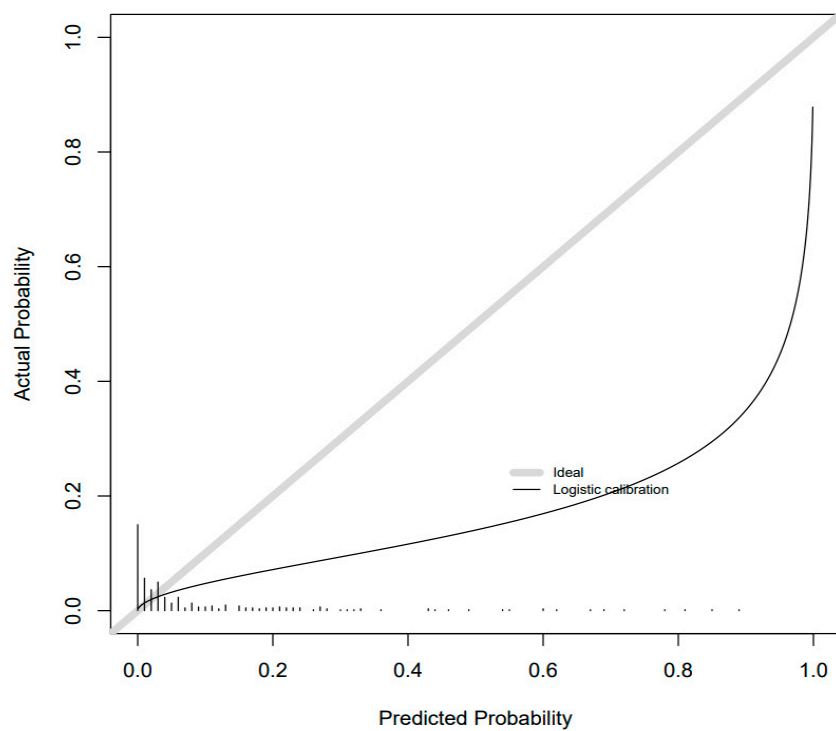
Figure S4: The calibration slope for the combined model of large for gestational age prediction in the Pregnancy Outcome Prediction study
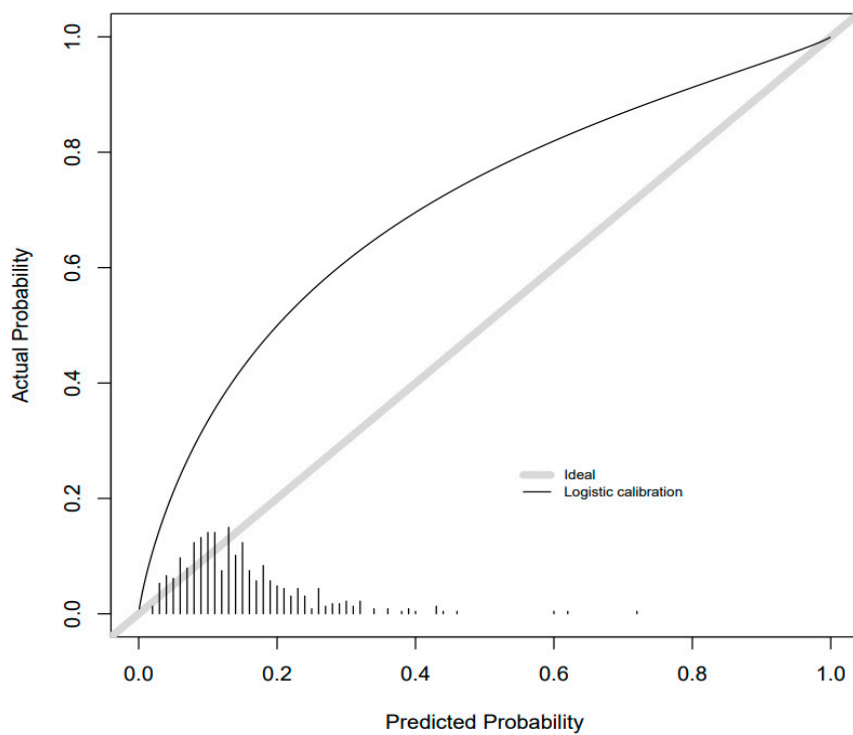

Figure S5: The calibration slope for the combined model of small for gestational age prediction in the Pregnancy Outcome Prediction study
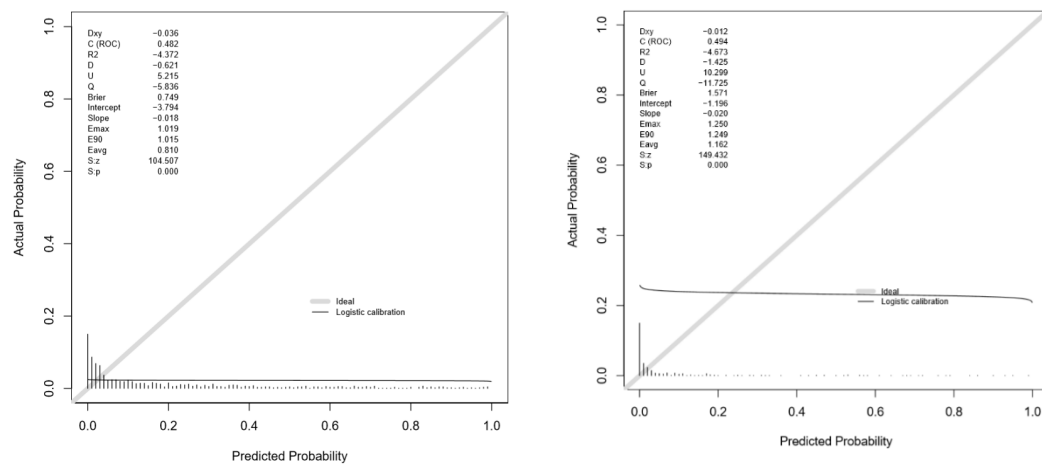
Figure S6: The calibration slope for the combined model of spontaneous preterm birth prediction in the Born in Bradford 1000 cohort and the Pregnancy Outcome Prediction study
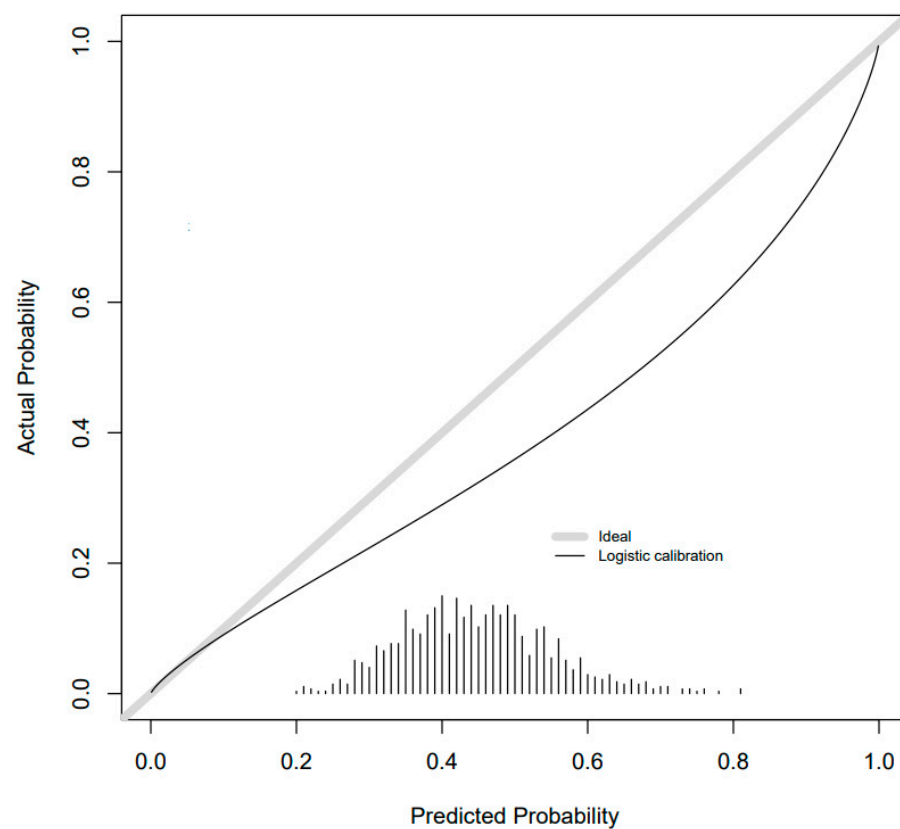

Figure S7: The calibration slope for the combined model of all pregnancy related disorder prediction in the Born in Bradford 1000 cohort