

SUPPLEMENTARY DATA

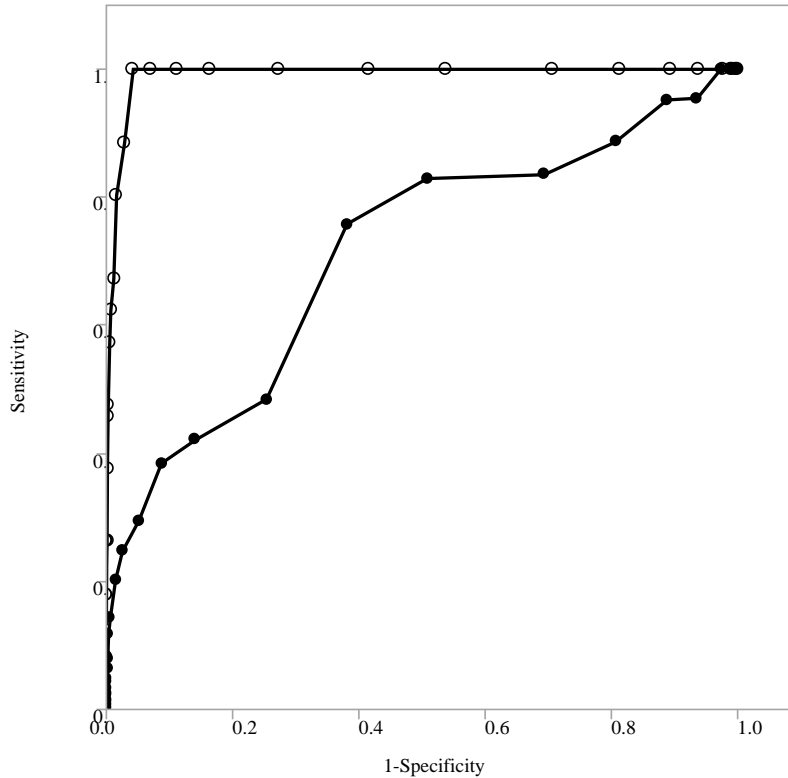
**Supplementary Figure 1.** ROC plots of the performance of HbA<sub>1c</sub> at detecting diabetes in pregnancy and GDM by WHO OGTT criteria.

White circles - Diabetes in pregnancy. AUC = 0.991

Black circles - GDM. AUC = 0.711

ROC plots - Receiver operating characteristic plots, WHO – World Health Organization, OGTT -75g 2-hour oral glucose tolerance test. GDM – gestational diabetes, AUC – area under the curve

ROC plots are based on estimated sensitivity and specificity data; please refer to supplemental tables S2 and S3 for confidence intervals around individual HbA<sub>1c</sub> points.



SUPPLEMENTARY DATA

**Supplementary Table 1.** Performance of HbA<sub>1c</sub> at detecting diabetes in pregnancy before 20 weeks' (≤140days) gestation by WHO OGTT criteria.

HbA <sub>1c</sub> Threshold	Sensitivity % (95% CI)	Specificity % (95% CI)	Positive Predictive Value % (95% CI)	Negative Predictive Value % (95% CI)
HbA <sub>1c</sub> 5.9% 41 mmol/mol	100 (91.8-100)	97.4 (95.5-99.2)	18.8 (15.7-22.4)	100 (100-100)
HbA <sub>1c</sub> 6.0% 42 mmol/mol	93.7 (85.5-100)	98.6 (97.2-100)	26.8 (22.0-31.9)	99.96 (99.9-100)
HbA <sub>1c</sub> 6.1% 43 mmol/mol	89.2 (78.8-99.8)	99.3 (98.3-100)	39.1 (32.4-46.1)	99.9 (99.9-100)
HbA <sub>1c</sub> 6.2% 44 mmol/mol	73.2 (56.6-89.7)	99.6 (98.9-100)	45.4 (36.4-55.3)	99.9 (99.8-99.9)
HbA <sub>1c</sub> 6.3% 45 mmol/mol	70.9 (53.3-88.5)	99.8 (99.3-100)	59.9 (48.2-71.0)	99.9 (99.8-99.9)
HbA <sub>1c</sub> 6.4% 46 mmol/mol	61.1 (42.2-80.1)	99.9 (99.6-100)	74.2 (63.0-82.2)	99.9 (99.8-99.9)

WHO – World Health Organization, OGTT -75g 2-hour oral glucose tolerance test, 95% CI - 95% Confidence Interval

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**Supplementary Table 2.** Performance of HbA<sub>1c</sub> at detecting gestational diabetes before 20 weeks' ( $\leq 140$ days) gestation by WHO / IADPSG OGTT criteria

HbA <sub>1c</sub> Threshold	Sensitivity % (95% CI)	Specificity % (95% CI)	Positive Predictive Value % (95% CI)	Negative Predictive Value % (95% CI)
HbA <sub>1c</sub> 4.8% 29 mmol/mol	100 (100-100)	3.0 (0.9-5.1)	10.5 (10.0-11.0)	100 (100-100)
HbA <sub>1c</sub> 5.9% 41 mmol/mol	18.8 (6.6-31.1)	98.4 (97.0-99.9)	52.9 (48.6-57.1)	92.8 (92.4-93.2)
HbA <sub>1c</sub> 6.0% 42 mmol/mol	13.5 (2.7-24.3)	99.2 (98.2-100)	64.1 (58.5-69.2)	92.0 (91.5-92.4)
HbA <sub>1c</sub> 6.1% 43 mmol/mol	9.9 (0.5-19.2)	99.7 (99.0-100)	75.9 (69.6-81.7)	91.6 (91.2-92.1)
HbA <sub>1c</sub> 6.2% 44 mmol/mol	5.9 (0-13.4)	99.9 (99.4-100)	81.0 (72.6-87.6)	91.5 (91.0-91.9)
HbA <sub>1c</sub> 6.3% 45 mmol/mol	4.0 (0-10.3)	99.9 (99.6-100)	84.4 (74.3-91.5)	91.2 (90.8-91.6)
HbA <sub>1c</sub> 6.4% 46 mmol/mol	3.3 (0-8.9)	100 (99.7-100)	88.9 (82.1-94.6)	91.0 (90.6-91.5)

WHO – World Health Organization, IADPSG – International Association of Diabetes and Pregnancy Study Groups, OGTT -75g 2-hour oral glucose tolerance test, 95% CI - 95% Confidence Interval