

Supplementary Tables

Table S1: Crude and Adjusted Odds Ratios with 95% Confidence Intervals for the Association of Maternal Glycemic Subgroups with Preterm Birth

Maternal Glycemic Subgroups	Crude		Adjusted*	
	OR [95%CI]	p-value	OR [95%CI]	p-value
T1	reference		reference	
T2	1.04 [0.85-1.28]	0.678	1.06 [0.86-1.30]	0.583
T3	1.03 [0.83 -1.28]	0.759	1.04 [0.83 -1.29]	0.736
Gestational DM	1.95 [1.56-2.44]	<0.001	2.12 [1.66-2.70]	<0.001
Pregestational DM	2.99 [2.29-3.90]	<0.001	2.87 [2.16-3.80]	<0.001

Preterm birth - gestational age < 37 weeks

T1 – 1h glucose 50-95mg/dl

T2- 1h glucose 96-116mg/dl

T3- 1h glucose 117-201mg/dl

*adjusted for maternal age, parity, race, educational status, smoking in index pregnancy, body mass index, sex of infant, birth weight

p-value <0.05 -significant

Table S2: Sensitivity analysis - Crude and Adjusted Odds Ratios with 95% Confidence Intervals for the Association of Maternal Glycemic Subgroups with Spontaneous Preterm Birth

Maternal glycemic subgroups	Crude		Adjusted	
	OR [95%CI] value	p-	OR [95%CI] value	p-
T1	Ref		Ref	
T2	0.95[0.74-1.21]	0.67	0.98[0.76-1.25]	0.87
T3	1.07 [0.83-1.39]	0.59	1.14[0.87-1.48]	0.34
Gestational DM	1.87[1.43-2.44]	<0.001	2.25[1.68-3.00]	<0.001
Pregestational DM	2.15 [1.53-3.01]	<0.001	2.26[1.59-3.22]	<0.001

T1 – 1h glucose 50-95mg/dl

T2- 1h glucose 96-116mg/dl

T3- 1h glucose 117-201mg/dl

*adjusted for maternal age, parity, race, educational status, smoking in index pregnancy, body mass index, sex of infant, birth weight

p-value <0.05 -significant

Table S3: Association of Maternal Glycemic Subgroups with Birth Weight

Crude and Adjusted β-coefficient (β) and Standard Errors(SE) of the Association of Maternal Glycemic Subgroups with Birth Weight						
Maternal Glycemic Subgroups	Crude			Adjusted*		
	β	SE	p-value	β	SE	p-value
T1	reference	reference	reference	reference	reference	reference
T2	53.74	30.18	0.075	31.68	24.07	0.118
T3	166.43	32.09	<0.001	132.61	25.83	<0.001
Gestational DM	146.82	36.86	<0.001	192.89	30.70	<0.001
Pregestational DM	-82.33	46.59	0.077	76.87	38.25	0.045

Crude and Adjusted Odds Ratios with 95% Confidence Intervals for the Association of Maternal Glycemic Subgroups with High Birth Weight				
Maternal Glycemic Subgroups	Crude		Adjusted*	
	OR [95%CI]	p-value	OR [95%CI]	p-value
T1	reference		Reference	
T2	1.60 [1.09-2.34]	0.015	1.47 [1.01-2.19]	0.044
T3	1.96[1.33-2.88]	0.001	1.68 [1.13-2.50]	0.010
Gestational DM	3.99 [2.74-5.82]	<0.001	3.62 [2.42-5.41]	<0.001
Pregestational DM	1.88 [1.11 – 3.18]	0.018	1.89 [1.09-3.28]	0.019

High birth weight – birth weight $\geq 4000\text{g}$

T1 – 1h glucose 50-95mg/dl

T2- 1h glucose 96-116mg/dl

T3- 1h glucose 117-201mg/dl

*adjusted for maternal age, parity, race, educational status, smoking in index pregnancy, body mass index, sex of infant and preterm birth

p-value <0.05 -significant

Table S4: Crude and Adjusted Odds Ratios with 95% Confidence Intervals for the Association of Maternal Glycemic Subgroups with Cesarean section

Maternal Glycemic Subgroups	Crude		Adjusted*	
	OR [95%CI]	p-value	OR [95%CI]	p-value
T1	reference		reference	
T2	1.26 [1.06-1.50]	0.010	1.16 [0.97 -1.39]	0.106
T3	1.24 [1.03- 1.49]	0.022	1.06 [0.87 -1.28]	0.560
Gestational DM	2.30 [1.87 -2.82]	<0.001	1.63 [1.31-2.02]	<0.001
Pregestational DM	3.24 [2.50-4.20]	<0.001	2.20 [1.68-2.89]	<0.001

T1 – 1h glucose 50-95mg/dl

T2- 1h glucose 96-116mg/dl

T3- 1h glucose 117-201mg/dl

*adjusted for maternal age, parity, race, educational status, smoking in index pregnancy, body mass index, sex of infant, preterm birth

p-value <0.05 -significant

Table S5: Crude and Adjusted Odds Ratios with 95%CI for the Association of Maternal Glycemic Subgroups with Preterm Birth among NHB, Hispanic and Women of Other Race-ethnicities

Maternal Glycemic Subgroups	Crude		Adjusted*	
	OR [95% CI]	p-value	OR [95% CI]	p-value
Non-Hispanic Black women				
T1	1.00 [Ref]		1.00 [Ref]	
T2	1.08 [0.79-1.47]	0.648	1.10 [0.80-1.52]	0.550
T3	0.92 [0.65- 1.32]	0.657	0.93 [0.64-1.34]	0.692
Gestational DM	1.54 [1.03-2.30]	0.036	1.65 [1.07-2.55]	0.024
Pregestational DM	3.73 [2.43-5.74]	<0.001	3.66 [2.31-5.80]	<0.001
Hispanic women				
T1	1.00 [Ref]		1.00 [Ref]	
T2	0.89[0.53-1.52]	0.680	0.86 [0.51-1.49]	0.610
T3	0.76[0.42-1.36]	0.352	0.79[0.44-1.42]	0.430
Gestational DM	2.04 [1.22-3.39]	0.006	2.09 [1.19-3.68]	0.010
Pregestational DM	2.75 [1.48-5.11]	0.001	2.68[1.37-5.24]	0.004
Women of other race-ethnicities[†]				
T1	1.00 [Ref]		1.00 [Ref]	
T2	1.08[0.79-1.46]	0.627	1.10[0.81-1.51]	0.528
T3	1.23[0.90-1.68]	0.185	1.25[0.92-1.72]	0.170
Gestational DM	2.19[1.57-3.06]	<0.001	2.40[1.69-3.43]	<0.001
Pregestational DM	2.54[1.68-3.87]	<0.001	2.35[1.52-3.64]	<0.001

Preterm birth - gestational age < 37 weeks

T1 – 1h glucose 50-95mg/dl

T2- 1h glucose 96-116mg/dl

T3- 1h glucose 117-201mg/dl

*adjusted for maternal age, educational status, parity, smoking in index pregnancy, body mass index, sex of infant, birth weight

[†]Other race-ethnicities include non-Hispanic White and Asian

Table S6: Crude and Adjusted β -coefficient and Standard Errors (SE) for the Association of Maternal Glycemic Subgroups with Birth Weight among NHB, Hispanic and Women of Other Race-ethnicities

Maternal Glycemic Subgroups	Crude			Adjusted*		
	β	SE	p-value	β	SE	p-value
Non-Hispanic Black women						
T1	Reference			Reference		
T2	38.44	49.17	0.434	29.53	37.67	0.433
T3	177.73	54.37	0.001	127.88	42.15	0.002
Gestational DM	140.58	67.62	0.038	172.47	53.60	0.001
Pregestational DM	-160.23	78.66	0.042	96.25	62.20	0.122
Hispanic women						
T1	Reference			Reference		
T2	77.03	75.50	0.308	54.49	63.89	0.394
T3	231.30	80.66	0.004	175.65	68.07	0.010
Gestational DM	203.70	79.53	0.011	218.53	72.56	0.003
Pregestational DM	43.12	102.12	0.673	114.01	90.12	0.206
Women of Other Race-ethnicities[†]						
T1	Reference			Reference		
T2	49.67	44.39	0.263	33.54	35.79	0.349
T3	126.17	45.92	0.006	126.88	37.32	0.001
Gestational DM	92.16	53.94	0.088	174.62	44.69	<0.001
Pregestational DM	-93.80	70.34	0.182	39.63	57.94	0.494

T1 – 1h glucose 50-95mg/dl

T2- 1h glucose 96-116mg/dl

T3- 1h glucose 117-201mg/dl

*adjusted for maternal age, educational status, parity, smoking in index pregnancy, body mass index, sex of infant, preterm birth

p-value <0.05 -significant

[†]Other race-ethnicities include non-Hispanic White and Asian

Table S7: Crude and Adjusted Odds Ratios with 95%CI for the Association of Maternal Glycemic Subgroups with High Birth Weight among NHB, Hispanic and Women of Other Race-Ethnicities

Maternal Glycemic Subgroups	Crude		Adjusted*	
	OR [95% CI]	p-value	OR [95% CI]	p-value
Non-Hispanic Black women				
T1	1.00 [Ref]		1.00 [Ref]	
T2	1.74[0.96-3.16]	0.070	1.67 [0.90-3.08]	0.101
T3	2.64 [1.45-4.79]	0.001	2.01 [1.08-3.74]	0.028
Gestational DM	4.79 [2.58-8.92]	<0.001	3.87 [1.97-7.59]	<0.001
Pregestational DM	1.70[0.70-4.15]	0.244	1.85 [0.72-4.76]	0.201
Hispanic women				
T1	1.00 [Ref]		1.00 [Ref]	
T2	1.72 [0.57-5.13]	0.334	1.47[0.48-4.52]	0.498
T3	2.54 [0.86-7.49]	0.092	2.31[0.77-7.00]	0.137
Gestational DM	4.92 [1.80-13.41]	0.002	3.97[1.36-11.74]	0.012
Pregestational DM	3.58 [1.09-11.74]	0.035	3.15[0.89-11.17]	0.075
Women of other race-ethnicities[†]				
T1	1.00 [Ref]		1.00 [Ref]	
T2	1.48[0.85-2.57]	0.168	1.37[0.78-2.41]	0.273
T3	1.43[0.80-2.53]	0.224	1.29[0.72-2.33]	0.394
Gestational DM	3.32[1.91-5.79]	<0.001	3.17[1.76-5.70]	<0.001
Pregestational DM	1.46[0.63-3.35]	0.375	1.40[0.59-3.37]	0.447

High birth weight - BW ≥4000g

T1 – 1h glucose 50-95mg/dl

T2- 1h glucose 96-116mg/dl

T3- 1h glucose 117-201mg/dl

*adjusted for maternal age, educational status, parity, smoking in index pregnancy, body mass index, sex of infant, preterm

p-value <0.05 -significant

[†]Other race-ethnicities include non-Hispanic White and Asian

Table S8: Crude and Adjusted Odds Ratios with 95%CI for the Association of Maternal Glycemic Subgroups with Cesarean Section among NHB, Hispanic and Women of Other Race-ethnicities.

Maternal Glycemic Subgroups	Crude		Adjusted*	
	OR [95% CI]	p-value	OR [95% CI]	p-value
Non-Hispanic Black women				
T1	1.00 [Ref]		1.00 [Ref]	
T2	1.17 [0.89-1.55]	0.254	1.09 [0.82 -1.44]	0.566
T3	1.19 [0.87-1.61]	0.273	1.04 [0.76 -1.43]	0.789
Gestational DM	2.00 [1.39-2.88]	<0.001	1.55 [1.06-2.27]	0.024
Pregestational DM	3.08 [2.02 – 4.70]	<0.001	2.12 [1.36-3.30]	0.001
Hispanic women				
T1	1.00 [Ref]		1.00 [Ref]	
T2	1.28 [0.81-2.03]	0.283	1.10[0.69-1.77]	0.685
T3	1.47 [0.91-2.38]	0.120	1.37[0.83-2.26]	0.225
Gestational DM	1.51 [0.94-2.43]	0.091	0.95 [0.55-1.62]	0.841
Pregestational DM	3.92 [2.14-7.18]	<0.001	2.68 [1.40-5.15]	0.003
Women of other race-ethnicities				
T1	1.00 [Ref]		1.00[Ref]	
T2	1.32[1.02-1.72]	0.035	1.24[0.95-1.63]	0.112
T3	1.22[0.93-1.60]	0.152	1.03[0.77-1.36]	0.841
Gestational DM	3.17[2.33-4.32]	<0.001	2.32[1.68-3.21]	<0.001
Pregestational DM	3.08[2.076-4.58]	<0.001	2.14[1.41-3.25]	<0.001

T1 – 1h glucose 50-95mg/dl

T2- 1h glucose 96-116mg/dl

T3- 1h glucose 117-201mg/dl

*adjusted for maternal age, educational status, parity, smoking in index pregnancy, body mass index, sex of infant, birth weight, preterm birth

p-value <0.05 -significant