	Minimum	Quartile 1	Quartile 2	Quartile 3	Maximum
Propensity Score Model for Exercise Exposure					
Full Cohort					
≥ Physical Activity Guidelines for Americans (7.5 MET	0.53	0.80	0.94	1.10	6.14
hours per week)					
≥ 75 th percentile (13.2 MET hours per week)	0.38	0.87	0.97	1.08	13.46
Any vigorous intensity exercise	0.37	0.84	0.96	1.10	5.21
Stratified by prepregnancy weight status					
Underweight & Normal weight					
≥ Physical Activity Guidelines for Americans (7.5 MET	0.48	0.76	0.91	1.10	5.57
hours per week)					
≥ 75 th percentile (13.2 MET hours per week)	0.31	0.83	0.94	1.10	36.50
Any vigorous intensity exercise	0.36	0.78	0.93	1.11	5.62
Overweight & Obese					
≥ Physical Activity Guidelines for Americans (7.5 MET	0.56	0.81	0.96	1.10	5.47
hours per week)					
≥ 75 th percentile (13.2 MET hours per week)	0.47	0.88	0.97	1.09	12.86
Any vigorous intensity exercise	0.46	0.85	0.97	1.09	4.77

Supplemental Table 1. Distribution Parameters for the Stabilized Weights Used in the Inverse Probability of Treatment Weighting Analyses.

MET= metabolic equivalent

Supplemental Table 2. Characteristics of the PETALS Study women excluded* (N= 255) versus included the analytic cohort of the present study (N= 2,246), Kaiser Permanente Northern California, 2013-2017.

	Excluded	Analytic Cohort
	(N= 255)	(N= 2,246)
	n (%)	n (%)
Age (years)		
≤25 years	67 (26.3)	465 (20.7)
25-35 years	133 (52.2)	1,310 (58.3)
35+ years	55 (21.6)	471 (21.0)
Prepregnancy BMI		
Underweight	11 (4.3)	60 (2.7)
Normal weight	84 (32.9)	914 (40.7)
Overweight	80 (31.4)	646 (28.8)
Obese	80 (31.4)	626 (27.9)
Married* (n= 2,497)	154 (60.4)	1,521 (67.8)
Race-ethnicity		
Hispanic	113 (44.3)	937 (41.7)
White	61 (23.9)	481 (21.4)
Asian American/Pacific Islander	46 (18.0)	530 (23.6)
African American	29 (11.4)	219 (9.8)
Other	6 (2.4)	79 (3.5)
Parity* (n= 2,497)		
0	108 (42.4)	986 (44.0)
1	76 (29.8)	828 (36.9)
2+	71 (27.8)	428 (19.1)
Education* (n= 2,498)		
High school or less	57 (22.4)	304 (13.6)
Some college	103 (40.6)	872 (38.9)
College graduate	57 (22.4)	638 (28.4)
Postgraduate	37 (14.6)	430 (19.2)

PETALS= Pregnancy Environment and Lifestyle Study; BMI= body mass index * Excluded due to contraindications to physical activity (n= 6), reporting implausible volumes of physical activity (n= 72), or missing outcome data (n= 177)

^a Chi-square P < .05

Supplemental Table 3. Estimates of the Causal Risk Differences for Meeting or Exceeding the Timepoint Specific Diagnostic Thresholds of Carpenter and Coustan if All had Exercised at or Above the Cohort-Specific 75th Percentile for Moderate to Vigorous Intensity Exercise, Versus Not, the PETALS Study, Kaiser Permanente Northern California, 2013-2017.

	Fasting 1-hour			2-hour	3-hour			
	Risk Difference (95% CI)	Р	Risk Difference (95% CI)	Р	Risk Difference (95% CI)	Р	Risk Difference (95% CI)	Р
No. above threshold, n (%)	67 (3.0)		187 (8.3)		149 (6.6)		51 (2.3)	
Cohort 75 th percentile (≥ 13.2 MET hours per								
week)								
Crude								
Unadjusted IPTW	-0.0136 (-0.0299, 0.00263)	.10	-0.0183 (-0.0447, 0.00809)	.17	-0.0290 (-0.0528, -0.00526)	.02	-0.00176 (-0.0160, 0.0125)	.81
Adjusted								
Stabilized IPTW ^a	-0.0163 (-0.0297, -0.00280)	.02	-0.0134 (-0.0435, 0.0168)	.38	-0.0234 (-0.0505, 0.00370)	.09	0.00520 (-0.0167, 0.0272)	.64
TMLE								
User specified ^b	-0.0137 (-0.0275, 0.0000209)	.05	-0.0113 (-0.0427, 0.0201)	.48	-0.0223 (-0.0505, 0.00585)	.12	0.00540 (-0.0173, 0.0281)	.64
Data adaptive with defaults ^c	-0.0118 (-0.0257, 0.00218)	.10	-0.0120 (-0.0380, 0.0139)	.36	-0.0261 (-0.0477, -0.00438)	.02	0.000941 (-0.0145, 0.0163)	.90
Data adaptive with defaults and extra	-0.0123 (-0.0262, 0.00153)	.08	-0.0125 (-0.0379, 0.0128)	.33	-0.0248 (-0.0469, -0.00270)	.03	0.000765 (-0.0146, 0.0161)	.92
learners ^d			· · · · ·				· · · · · · · · · · · · · · · · · · ·	

PETALS= Pregnancy Environment and Lifestyle Study; IPTW= inverse probability of treatment weighting; MET= metabolic equivalent; TMLE= targeted maximum likelihood estimation

^a Logistic regression for the propensity score model included the baseline covariates maternal age, prepregnancy BMI, marital status, race-ethnicity, educational attainment, parity, daily caloric intake, exercise prior to pregnancy, gestational weight gained through study visit, and gestational age at study visit; *P* and 95% CIs from proc genmod with independence as the identity matrix for robust/sandwich estimator of the variance to provide conservative inference

^b Logistic regression with the same baseline covariates to specify the propensity score and outcome models

• SuperLearner with defaults learners only (i.e., Wrapper for Glm, Choose A Model By AIC In A Stepwise Algorithm, and Wrapper Function For SuperLearner Prediction Algorithm) and the same baseline covariates to specify the propensity score and outcome models

^d SuperLearner with defaults plus additional learners (i.e., SL Wrapper For Biglasso, Elastic Net Regression Including Lasso and Ridge, Wrapper For Kernlab's SVM Algorithm, Wrapper For Lm, SL Wrapper For Ranger, and Wrapper For Speedglm) and the same baseline covariates to specify the propensity score and outcome models