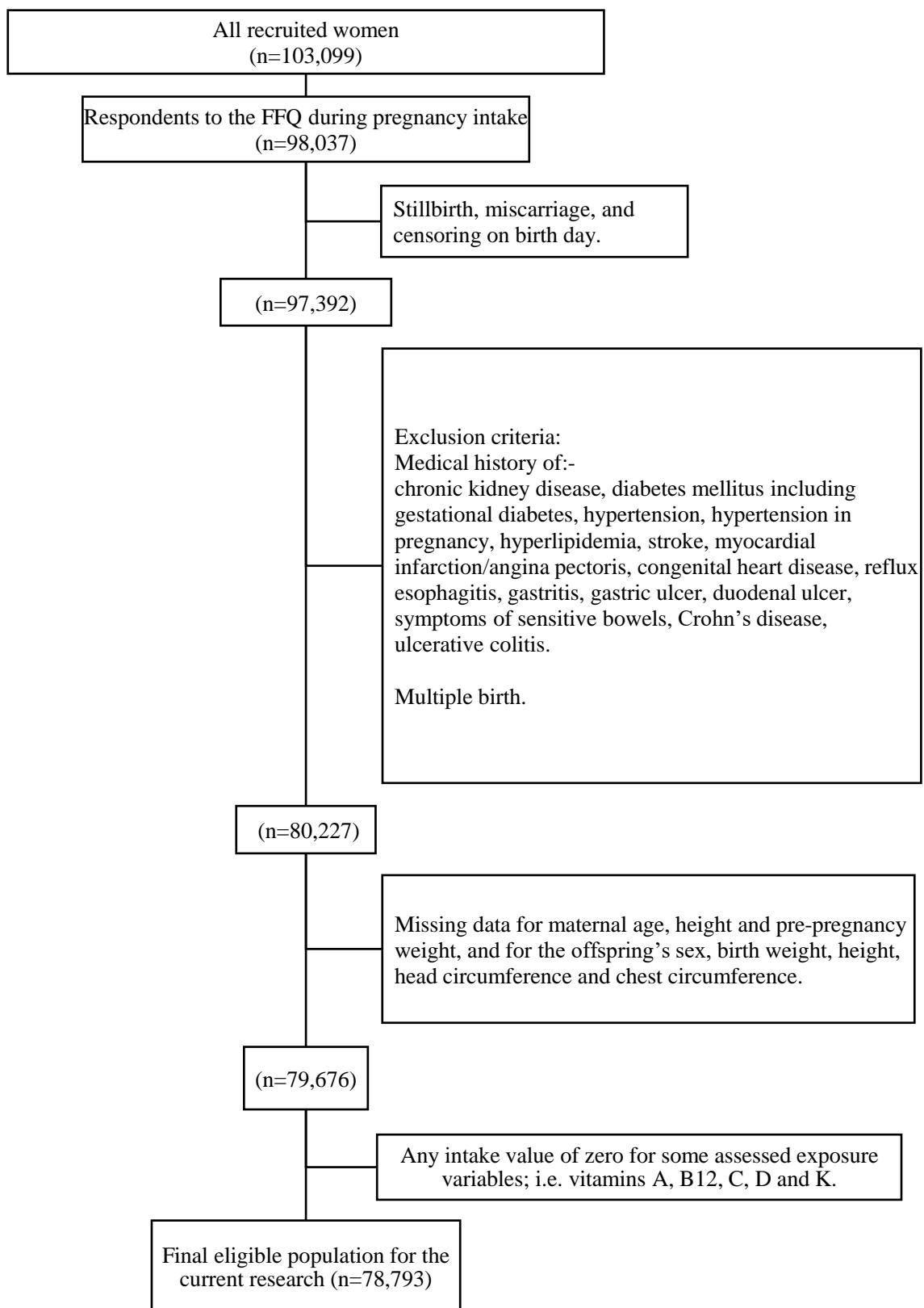


Supplemental Figure I. Participants' flow chart.



Supplemental Table I. Univariate associations of maternal intakes of total energy and macronutrients during pregnancy with offspring birth size

	Quartiles of energy and macronutrients intakes				P-value ¹
	Q1	Q2	Q3	Q4	
Energy, median, kcal	1,119	1,468	1,792	2,389	
Birth weight, mean (SE), g	3,013 (3)	3,029 (3)	3,041 (3)	3,046 (3)	<0.001
Birth length, mean (SE), cm	48.89 (0.02)	48.96 (0.02)	49.00 (0.02)	48.98 (0.02)	<0.001
Head circumference, mean (SE), cm	33.13 (0.01)	33.19 (0.01)	33.21 (0.01)	33.24 (0.01)	<0.001
Chest circumference, mean (SE), cm	31.72 (0.01)	31.77 (0.01)	31.81 (0.01)	31.85 (0.01)	<0.001
Ponderal index, mean (SE), kg/m ³	25.72 (0.02)	25.76 (0.02)	25.80 (0.02)	25.88 (0.02)	<0.001
Carbohydrate, median, E%	46.4	52.9	57.6	63.8	
Birth weight, mean (SE), g	3,027 (3)	3,032 (3)	3,039 (3)	3,031 (3)	<0.001
Birth length, mean (SE), cm	48.92 (0.02)	48.96 (0.02)	49.01 (0.02)	48.95 (0.02)	<0.001
Head circumference, mean (SE), cm	33.19 (0.01)	33.20 (0.01)	33.20 (0.01)	33.18 (0.01)	0.61
Chest circumference, mean (SE), cm	31.78 (0.01)	31.79 (0.01)	31.80 (0.01)	31.78 (0.01)	0.21
Ponderal index, mean (SE), kg/m ³	25.83 (0.02)	25.78 (0.02)	25.78 (0.02)	25.77 (0.02)	0.19
Fat, median, E%	22.6	27.8	31.8	37.3	
Birth weight, mean (SE), g	3,032 (3)	3,035 (3)	3,034 (3)	3,028 (3)	0.10
Birth length, mean (SE), cm	48.97 (0.02)	48.97 (0.02)	48.96 (0.02)	48.93 (0.02)	0.02
Head circumference, mean (SE), cm	33.18 (0.01)	33.20 (0.01)	33.20 (0.01)	33.18 (0.01)	0.55
Chest circumference, mean (SE), cm	31.78 (0.01)	31.80 (0.01)	31.79 (0.01)	31.79 (0.01)	0.71
Ponderal index, mean (SE), kg/m ³	25.76 (0.02)	25.79 (0.02)	25.80 (0.02)	25.81 (0.02)	0.48
Protein, median, E%	11.4	12.9	14.1	15.8	
Birth weight, mean (SE), g	3,029 (3)	3,036 (3)	3,037 (3)	3,027 (3)	0.004
Birth length, mean (SE), cm	48.94 (0.02)	48.98 (0.02)	49.00 (0.02)	48.92 (0.02)	<0.001
Head circumference, mean (SE), cm	33.16 (0.01)	33.19 (0.01)	33.22 (0.01)	33.20 (0.01)	<0.001
Chest circumference, mean (SE), cm	31.78 (0.01)	31.80 (0.01)	31.79 (0.01)	31.78 (0.01)	0.21
Ponderal index, mean (SE), kg/m ³	25.79 (0.02)	25.79 (0.02)	25.76 (0.02)	25.80 (0.02)	0.56
Total dietary fiber, median, g/1000kcal	4.1	5.4	6.4	8.2	
Birth weight, mean (SE), g	3,016 (3)	3,028 (3)	3,041 (3)	3,043 (3)	0.01
Birth length, mean (SE), cm	48.87 (0.02)	48.96 (0.02)	49.00 (0.02)	49.01 (0.02)	<0.001
Head circumference, mean (SE), cm	33.12 (0.01)	33.18 (0.01)	33.23 (0.01)	33.23 (0.01)	<0.001
Chest circumference, mean (SE), cm	31.73 (0.01)	31.78 (0.01)	31.82 (0.01)	31.83 (0.01)	0.07
Ponderal index, mean (SE), kg/m ³	25.80 (0.02)	25.75 (0.02)	25.79 (0.02)	25.81 (0.02)	<0.001

SE: standard error.

¹ Kruskal-Wallis test was used assuming skewed nutritional data.

Supplemental Table II. Univariate associations between maternal intakes of vitamins during pregnancy and offspring birth size

	Quartiles of vitamins intakes				P-value ¹
	Q1	Q2	Q3	Q4	
Vitamin A, median, µg/1000kcal	143	212	286	462	
Birth weight, mean (SE), g	3,026 (3)	3,032 (3)	3,037 (3)	3,034 (3)	0.06
Birth length, mean (SE), cm	48.92 (0.02)	48.95 (0.02)	48.98 (0.02)	48.98 (0.02)	0.11
Head circumference, mean (SE), cm	33.15 (0.01)	33.19 (0.01)	33.23 (0.01)	33.19 (0.01)	<0.001
Chest circumference, mean (SE), cm	31.75 (0.01)	31.79 (0.01)	31.81 (0.01)	31.79 (0.01)	0.008
Ponderal index, mean (SE), kg/m ³	25.79 (0.02)	25.80 (0.02)	25.79 (0.02)	25.77 (0.02)	0.81
Vitamin K, median, µg/1000kcal	51	80	110	172	
Birth weight, mean (SE), g	3,026 (3)	3,034 (3)	3,035 (3)	3,034 (3)	0.03
Birth length, mean (SE), cm	48.87 (0.02)	48.96 (0.02)	49.00 (0.02)	49.02 (0.02)	<0.001
Head circumference, mean (SE), cm	33.16 (0.01)	33.19 (0.01)	33.20 (0.01)	33.21 (0.01)	0.003
Chest circumference, mean (SE), cm	31.78 (0.01)	31.79 (0.01)	31.81 (0.01)	31.78 (0.01)	0.38
Ponderal index, mean (SE), kg/m ³	25.89 (0.02)	25.80 (0.02)	25.75 (0.02)	25.71 (0.02)	<0.001
Vitamin E, median, mg/1000kcal	2.5	3.2	3.8	4.7	
Birth weight, mean (SE), g	3,028 (3)	3,039 (3)	3,038 (3)	3,023 (3)	<0.001
Birth length, mean (SE), cm	48.92 (0.02)	48.98 (0.02)	48.99 (0.02)	48.94 (0.02)	0.004
Head circumference, mean (SE), cm	33.16 (0.01)	33.20 (0.01)	33.22 (0.01)	33.18 (0.01)	<0.001
Chest circumference, mean (SE), cm	31.77 (0.01)	31.81 (0.01)	31.81 (0.01)	31.76 (0.01)	<0.001
Ponderal index, mean (SE), kg/m ³	25.81 (0.02)	25.82 (0.02)	25.79 (0.02)	25.73 (0.02)	0.01
Vitamin D, median, µg/1000kcal	1.0	2.0	2.9	4.4	
Birth weight, mean (SE), g	3,028 (3)	3,035 (3)	3,039 (3)	3,027 (3)	0.01
Birth length, mean (SE), cm	48.93 (0.02)	48.98 (0.02)	48.99 (0.02)	48.94 (0.02)	0.05
Head circumference, mean (SE), cm	33.15 (0.01)	33.21 (0.01)	33.20 (0.01)	33.20 (0.01)	<0.001
Chest circumference, mean (SE), cm	31.77 (0.01)	31.79 (0.01)	31.82 (0.01)	31.77 (0.01)	0.004
Ponderal index, mean (SE), kg/m ³	25.80 (0.02)	25.78 (0.02)	25.80 (0.02)	25.78 (0.02)	0.63
Vitamin C, median, mg/1000kcal	24	38	52	77	
Birth weight, mean (SE), g	3,019 (3)	3,034 (3)	3,041 (3)	3,034 (3)	<0.001
Birth length, mean (SE), cm	48.87 (0.02)	48.98 (0.02)	49.01 (0.02)	48.98 (0.02)	<0.001
Head circumference, mean (SE), cm	33.15 (0.01)	33.20 (0.01)	33.21 (0.01)	33.20 (0.01)	<0.001
Chest circumference, mean (SE), cm	31.74 (0.01)	31.80 (0.01)	31.83 (0.01)	31.78 (0.01)	<0.001
Ponderal index, mean (SE), kg/m ³	25.82 (0.02)	25.77 (0.02)	25.80 (0.02)	25.76 (0.02)	0.23
Vitamin B6, median, mg/1000kcal	0.4	0.5	0.6	0.7	
Birth weight, mean (SE), g	3,027 (3)	3,038 (3)	3,036 (3)	3,028 (3)	0.009
Birth length, mean (SE), cm	48.90 (0.02)	49.00 (0.02)	48.98 (0.02)	48.95 (0.02)	<0.001
Head circumference, mean (SE), cm	33.17 (0.01)	33.20 (0.01)	33.21 (0.01)	33.19 (0.01)	0.02
Chest circumference, mean (SE), cm	31.77 (0.01)	31.81 (0.01)	31.80 (0.01)	31.76 (0.01)	0.006
Ponderal index, mean (SE), kg/m ³	25.83 (0.02)	25.78 (0.02)	25.79 (0.02)	25.75 (0.02)	0.03
Vitamin B9, median, µg/1000kcal	97	126	154	202	
Birth weight, mean (SE), g	3,025 (3)	3,036 (3)	3,037 (3)	3,030 (3)	0.003
Birth length, mean (SE), cm	48.89 (0.02)	48.98 (0.02)	49.00 (0.02)	48.97 (0.02)	<0.001
Head circumference, mean (SE), cm	33.16 (0.01)	33.20 (0.01)	33.21 (0.01)	33.20 (0.01)	<0.001
Chest circumference, mean (SE), cm	31.77 (0.01)	31.80 (0.01)	31.80 (0.01)	31.79 (0.01)	0.18
Ponderal index, mean (SE), kg/m ³	25.84 (0.02)	25.79 (0.02)	25.78 (0.02)	25.74 (0.02)	0.003
Vitamin B12, median, µg/1000kcal	1.1	1.8	2.5	3.7	
Birth weight, mean (SE), g	3,027 (3)	3,033 (3)	3,037 (3)	3,031 (3)	0.13
Birth length, mean (SE), cm	48.94 (0.02)	48.97 (0.02)	49.00 (0.02)	48.93 (0.02)	0.11
Head circumference, mean (SE), cm	33.15 (0.01)	33.20 (0.01)	33.21 (0.01)	33.21 (0.01)	<0.001
Chest circumference, mean (SE), cm	31.77 (0.01)	31.79 (0.01)	31.81 (0.01)	31.79 (0.01)	0.24
Ponderal index, mean (SE), kg/m ³	25.78 (0.02)	25.78 (0.02)	25.77 (0.02)	25.83 (0.02)	0.28

SE: standard error.

¹ Kruskal-Wallis test was used assuming skewed nutritional data.