

**Table S1. Maternal characteristics of women in PPG (1978-1993) and CSL (2002-2008) by adherence to IOM recommendations for gestational weight gain**

Characteristic	PPG n=333			p-value	CSL n=358			p-value
	n=74 IOM under <sup>1</sup>	n=118 IOM within	n=141 IOM over		n=62 IOM under	n=95 IOM within	n=201 IOM over	
Maternal age (at delivery), years	25.6 ± 5.2	26.7 ± 4.8	26.5 ± 5.1	0.33	28.2 ± 6.0	27.7 ± 5.9	27.3 ± 6.1	0.53
Married, yes <sup>a</sup>	41 (22.1)	89 (77.4)	94 (69.1)	0.02	39 (62.9)	56 (59.0)	122 (60.7)	0.88
Race				0.15				0.02
White	56 (75.7)	103 (87.3)	123 (87.2)		30 (48.4)	57 (60.0)	138 (68.7)	
Black	17 (23.0)	13 (11.0)	17 (12.1)		20 (32.3)	18 (19.0)	31 (15.4)	
Other	1 (1.3)	2 (1.7)	1 (0.7)		12 (19.3)	20 (21.1)	32 (15.9)	
Nulliparous, yes	43 (58.1)	59 (50.0)	64 (45.4)	0.21	26 (41.9)	50 (52.6)	107 (53.2)	0.28
Pre-pregnancy BMI (kg/m <sup>2</sup> )	21.9 ± 2.9	22.0 ± 2.7	24.4 ± 3.6	<.0001	27.2 ± 7.2	26.3 ± 6.6	27.0 ± 5.7	0.62
Pre-pregnancy BMI category				<.0001				0.007
Underweight (BMI<18.5 kg/m <sup>2</sup> )	4 (5.4)	7 (5.9)	0 (0.0)		2 (3.2)	3 (3.2)	1 (0.5)	
Normal (18.5 kg/m <sup>2</sup> ≤BMI<25.0 kg/m <sup>2</sup> )	67 (90.5)	103 (87.3)	83 (58.9)		33 (53.2)	53 (55.8)	82 (48.8)	
Overweight (25.0 kg/m <sup>2</sup> ≤BMI<30.0 kg/m <sup>2</sup> )	1 (1.4)	7 (5.9)	48 (34.0)		12 (19.4)	15 (15.8)	70 (34.8)	
Obese (BMI≥30.0 kg/m <sup>2</sup> )	2 (2.7)	1 (0.9)	10 (7.1)		15 (24.2)	24 (25.3)	48 (23.9)	
Pre-pregnancy Overweight/Obese (BMI≥25.0 kg/m <sup>2</sup> )	3 (4.1)	8 (6.8)	58 (41.1)	<.0001	27 (43.6)	39 (41.1)	118 (58.7)	0.007
Gestational Weight Gain (kg)	7.2 ± 3.9	13.4 ± 1.8	18.9 ± 4.0	<.0001	4.9 ± 5.3	11.6 ± 3.0	18.8 ± 5.7	<.0001
Preeclampsia, yes	13 (17.6)	17 (14.4)	20 (14.2)	0.78	10 (16.1)	9 (9.5)	36 (17.9)	0.17
Previous cesarean section, yes <sup>a</sup>	16 (21.9)	40 (33.9)	49 (34.8)	0.13	15 (25.9)	22 (25.3)	49 (25.4)	1.00
Cesarean section, yes	50 (67.6)	84 (71.2)	99 (70.2)	0.86	37 (59.7)	59 (62.1)	143 (71.1)	0.13
Large-for-gestational age	22 (29.7)	44 (37.3)	68 (48.2)	0.02	15 (24.2)	30 (31.6)	86 (42.8)	0.01

Mean ± SD are shown for all continuous variables and n(%) are shown for categorical variables

LGA was defined as infants with a birthweight >90th percentile, adjusted for age, sex and race.

<sup>a</sup> PPG: Marital status missing for 11 women; CSL: Previous cesarean section missing for 20 women.