Table S1. Maternal outcomes: Deflation vs Inflation: Supplementary data

Model[*]	Deflated[†] (n=42)	Inflated[‡] (n=54)	Baseline Coef./RR, 95%CI	P	Adjusted Coef./RR, 95%CI	P
			Deflated vs Inflated (reference)			
			Baseline		**Adjusted**	
Weight gain[§]						
Mean (kg) (95% CI)	15·4 (10·8-20·0)	7·6 (3·7-11·5)	7·81 (1·67-13·95)	0·01	5·86 (0·09-11·63)	0·05
Missing, n=	18	23				
Measured at inappropriate timing[¶]	6	6				
Imputed mean (95% CI) [#]	10·1 (6·1-14·2)	6·7 (3·3-10·1)	3·43 (-1·73-8·60)	0.19	4·00 (-1·22-9·24)	0·13
Missing not at random 1[**]	8.1 (4.5-11.6)	3.4 (0.5-6.4)	4.62 (0.59-8.66)	0.02	2.59 (0.03-5.16)	0.05
Missing not at random 2[††]	19.1 (15.6-22.6)	14.6 (11.3-17.8)	4.57 (0.42-8.72)	0.03	2.90 (-0.35-6.14)	0.08
BMI change[‖]						
Mean (kg/m²) (95% CI)	5·6 (4·0-7·1)	2·4 (1·1-3·7)	3·17 (1·16-5·17)	0·003	2·56 (0·63-4·49)	0·01
Missing, n=	18	23				
Imputed mean (95% CI) [#]	3·5 (2·1-4·9)	2·1 (1·0-3·2)	1·42 (-0·34-3·18)	0·11	1·53 (-0·26-3·32)	0·09
Missing not at random 1[**]	2.9 (1.6-4.1)	1.1 (0.1-2.1)	1.80 (0.42-3.18)	0.01	1.10 (0.21-1.98)	0.02
Missing not at random 2[††]	6.2 (4.9-7.5)	3.8 (2.6-5.0)	2.38 (0.72-4.04)	0.01	1.70 (0.24-3.15)	0.02
Gestational Hypertension[‡‡]						
n=(%)	4 (10·5)	0 (0·0)	6·86 (0·83-inf)	0·08	n/a[§§]	n/a
Missing, n=	1	0				
Missing as "cases", n=(%)	5 (12·8)	0 (0·0)	8·73 (1·14-inf)	0·04	n/a	n/a
Missing as "non-cases", n=(%)	4 (10·3)	0 (0·0)	6·68 (0·81-inf)	0·08	n/a	n/a
Pre-eclampsia[¶¶]						
n=(%)	2 (5·0)	0	3·32 (0·25-inf)	0·36	n/a	n/a
Missing, n=	2	0				
Missing as "cases", n=(%)	4 (9·5)	0 (0·0)	7·24 (0·88-inf)	0·07	n/a	n/a
Missing as "non-cases", n=(%)	2 (4·8)	0 (0·0)	3·16 (0·24-inf)	0·38	n/a	n/a
Gestational diabetes[‖‖]						
n=(%)	3 (7·7)	4 (8·0)	0·96 (0·23-4·05)	0·96	0·97 (0·23-3·99)	0·96
Missing, n=	1	0				
Missing as "cases", n=(%)	4 (10·0)	4 (8·0)	1·25 (0·33-4·69)	0·74	1·23 (0·34-4·38)	0·75
Missing as "non-cases", n=(%)	3 (7·5)	4 (8·0)	0·94 (0·22-3·95)	0·93	0·91 (0·22-3·73)	0·90
Labour induced[##]						
n=(%)	13 (31·0)	23 (43·4)	0·71 (0·41-1·23)	0·23	0·70 (0·41-1·22)	0·21
Missing, n=	0	1				
Missing as "cases", n=(%)	13 (31·0)	24 (44·4)	0·70 (0·40-1·20)	0·19	0·69 (0·40-1·18)	0·18
Missing as "non-cases", n=(%)	13 (31·0)	23 (42·6)	0·73 (0·42-1·26)	0·25	0·71 (0·41-1·23)	0·23
Labour spontaneous[º]						
n=(%)	19 (45·2)	23 (43·4)	1·04 (0·66-1·64)	0·86	1·06 (0·67-1·68)	0·81
Missing, n=	0	1				
Missing as "cases", n=(%)	19 (45·2)	24 (44·4)	1·02 (0·65-1·59)	0·94	1·05 (0·66-1·65)	0·84
Missing as "non-cases", n=(%)	19 (45·2)	23 (42·6)	1·06 (0·67-1·68)	0·80	1·09 (0·69-1·73)	0·72
Caesarean section[##]						
n=(%)	21 (50·0)	23 (43·4)	1·15 (0·75-1·77)	0·52	1·15 (0·76-1·75)	0·51
Missing, n=	0	1				
Missing as "cases", n=(%)	21 (50·0)	24 (44·4)	1·13 (0·74-1·72)	0·59	1·12 (0·74-1·70)	0·59
Missing as "non-cases", n=(%)	21 (50·0)	23 (42·6)	1·17 (0·76-1·81)	0·47	1·16 (0·76-1·77)	0·49
Elective CS[***]						
n=(%)	10 (23·8)	8 (15·1)	1·58 (0·68-3·66)	0·29	1·67 (0·80-3·51)	0·17
Missing, n=	0	1				
Missing as "cases", n=(%)	10 (23·8)	9 (16·7)	1·43 (0·64-3·21)	0·39	1·49 (0·72-3·05)	0·28
Missing as "non-cases", n=(%)	10 (23·8)	8 (14·8)	1·61 (0·69-3·73)	0·27	1·68 (0·80-3·53)	0·17
Emergency CS[***]						
n=(%)	11 (26·19)	15 (28·3)	0·92 (0·47-1·80)	0·82	0·96 (0·50-1·85)	0·91
Missing, n=	0	1				
Missing as "cases", n=(%)	11 (26·19)	16 (29·6)	0·88 (0·46-1·70)	0·71	0·90 (0·47-1·71)	0·74
Missing as "non-cases", n=(%)	11 (26·19)	15 (27·8)	0·94 (0·48-1·84)	0·86	0·95 (0·49-1·82)	0·88
Anaemia[***]						
n=(%)	7 (17·1)	9 (16·7)	1·02 (0·41-2·53)	0·96	1·07 (0·41-2·83)	0·89
Missing, n=	1	0				
Missing as "cases", n=(%)	8 (19·1)	9 (16·7)	1·14 (0·48-2·72)	0·76	1·20 (0·48-2·99)	0·70
Missing as "non-cases", n=(%)	7 (16·7)	9 (16·7)	1·00 (0·40-2·49)	1·00	1·06 (0·40-2·81)	0·91
Maternal thromboembolic disease[†††]						
n=(%)	0 (0·0)	2 (3·7)	0·54 (0·00-7·01)	0·64	n/a	n/a
Missing, n=	1	0				
Missing as "cases", n=(%)	1 (2·4)	2 (3·7)	0·64 (0·01-12·64)	1·00	n/a	n/a
Missing as "non-cases", n=(%)	0 (0·0)	2 (3·7)	0·53 (0·0-6·84)	0·63	n/a	n/a

*Patients with missing information first considered to have outcome of interest and classified as "cases". Then considered free of the outcome of interest and classified as "non-cases". †Pregnant women who underwent band deflation pre-pregnancy or during pregnancy. ‡Pregnant women who had band inflation maintained throughout pregnancy. §Weight gain between first and third trimester. Linear regressions. Baseline model adjusted for time of first trimester assessment and number of days between first and third trimester assessments. Adjusted model: baseline model + age, parity, smoking status and BMI at first trimester visit. ¶First measure collected after 84 days and last measure collected before 196 days. ||BMI change between first and third trimester. #Missing information on weight and time of assessment addressed using multiple imputation technique by chained equations under a missing at random framework (50 imputations). All maternal characteristics and outcomes presented in tables 1 and 2 were used in the imputation regression. Time of assessment constrained to be inferior to 85 days or superior to 196 days. Patients with weight/BMI measured at inappropriate periods (n=12) were not considered in these estimations (n=84). **Missing information addressed by assuming that concerned participants had the same profile as the patient with the "maximal" weight lost (initial BMI of 53 kg/m^2, and weight change of -15.5 kg/BMI change of -5.5 kg/m^2. ††Missing information addressed by assuming that concerned participants had the same profile as the patient with the "maximum" weight gain (initial BMI of 33 kg/m^2, and weight change of +35 kg/BMI change of +11.6 kg/m^2. ‡‡Patients with pre-existing hypertension excluded. Exact logistic regression. Baseline model: unadjusted. §§Adjusted model not conducted due to the absence of cases in one group. ¶¶Exact logistic regression. Baseline model: unadjusted. ||||Patients with pre-pregnancy diabetes excluded. Modified Poisson regressions. Baseline model: unadjusted. Adjusted model: baseline model + age, parity, smoking status and BMI at first trimester visit. ##Modified Poisson regression. Baseline model: unadjusted. Adjusted model: baseline model + age, parity, smoking status and BMI at first trimester visit. ***Modified Poisson regression. Baseline model: unadjusted. Adjusted model: baseline model + age, parity, smoking status and BMI at first trimester visit. †††Exact logistic regression.

Table S2. Perinatal outcomes: Deflation vs Inflation: Supplementary data

Model[*]	Deflated[†] (n=42)	Inflated[‡] (n=54)	Baseline Coef./RR, 95%CI	P	Adjusted Coef./RR, 95%CI	P
Birth weight[§]						
Mean weight (g) (95%CI)	3712 (3572-3851)	3380 (3255-3505)	332 (145-518)	0·001	334 (130-537)	0·002
Missing, n=	0	1				
Imputed weight (95%CI) [‖]	3699 (3555-3843)	3361 (3233-3488)	338 (147-530)	0·001	331 (129-533)	0·002
Low birth weight [#]						
n=(%)	0 (0·0)	7 (13·2)	0·14 (0·0-0·99)	0·05	n/a	n/a
Missing, n=	0	1				
Missing as "cases", n=(%)	0 (0·0)	8 (14·8)	0·12 (0·0-0·80)	0·03	n/a	n/a
Missing as "non-cases", n=(%)	0 (0·0)	7 (13·0)	0·14 (0·0-1·01)	0·05	n/a	n/a
Macrosomia[**]						
n=(%)	10 (23·8)	6 (11·3)	2·04 (0·86-4·83)	0·11	2·15 (0·94-4·94)	0·07
Missing, n=	0	1				
Missing as "cases", n=(%)	10 (23·8)	7 (13·0)	1·79 (0·78-4·10)	0·17	1·80 (0·81-4·01)	0·15
Missing as "non-cases", n=(%)	10 (23·8)	6 (11·1)	2·07 (0·87-4·91)	0·10	2·16 (0·94-4·96)	0·07
Mean percentile weight for gestational age[††]						
Mean percentile weight (%) (95%CI)	68.3 (60.0-76.6)	50.4 (41.7-59.1)	17.83 (5.60-30.05)	0.005	16.67 (4.89-28.45)	0.006
Missing, n=	0	1				
Imputed weight (95%CI)[‡‡]	68.3 (60.0-76.5)	50.4 (41.7-59.1)	17.84 (5.73-29.94)	0.004	16.35 (4.65-28.06)	0.007
Small for gestational age (<10th)[#]						
n=(%)	0 (0.0)	6 (11.3)	0.14 (0.00-1.02)	0.053	n/a	n/a
Missing, n=	0	1				
Missing as "cases", n=(%)	0 (0.0)	7 (13.0)	0.23 (0.00-0.84)	0.030	n/a	n/a
Missing as "non-cases", n=(%)	0 (0.0)	6 (11.1)	0.14 (0.00-1.04)	0.056	n/a	n/a
Large for gestational age (>90th)[§§]						
n=(%)	11 (26.2)	5 (9.4)	2.77 (1.04-7.41)	0.041	2.49 (0.98-6.36)	0.056
Missing, n=	0	1				
Missing as "cases", n=(%)	11 (26.2)	6 (11.1)	2.36 (0.94-2.88)	0.066	2.10 (0.88-5.03)	0.096
Missing as "non-cases", n=(%)	11 (26.2)	5 (9.3)	2.83 (1.06-7.55)	0.038	2.51 (0.99-6.40)	0.054
Gestation (weeks)[¶¶]						
Preterm birth <37 weeks, n=(%)	4 (9·5)	7 (13·2)	0·72 (0·23-2·30)	0·58	0·65 (0·21-1·96)	0·44
Missing, n=	0	1				
Missing as "cases", n=(%)	4 (9·5)	8 (14·8)	0·64 (0·21-1·99)	0·44	0·59 (0·20-1·74)	0·34
Missing as "non-cases", n=(%)	4 (9·5)	7 (13·0)	0·73 (0·23-2·35)	0·60	0·67 (0·22-2·06)	0·49
Neonatal unit admission[¶¶]						
n(%)	4 (9·5)	5 (9·6)	0·99 (0·28-3·46)	0·99	0·76 (0·22-2·63)	0·67
Missing, n=	0	2				
Missing as "cases", n=(%)	4 (9·5)	7 (13·0)	0·73 (0·23-2·35)	0·60	0·75 (0·23-2·42)	0·63
Missing as "non-cases", n=(%)	4 (9·5)	5 (9·3)	1·03 (0·29-3·60)	0·97	0·79 (0·23-2·76)	0·72
Low Apgar [#]						
n(%)	0 (0·0)	1 (2·0)	1 (0-39)	1·00	n/a	n/a
Missing, n=	1	5				
Missing as "cases", n=(%)	1 (2·4)	6 (11·1)	0·21 (0·03-1·71)	0·15	0·23 (0·03-1·88)	0·17
Missing as "non-cases", n=(%)	0 (0·0)	1 (1·9)	1 (0, 39)	1·00	n/a	n/a
Congenital abnormalities[¶¶]						
n(%)	1 (2·38)	1 (1·9)	1·24 (0·08-19·25)	0·88	1·04 (0·02-46·93)	0·98
Missing, n=	0	2				
Missing as "cases", n=(%)	1 (2·4)	3 (5·6)	0·43 (0·05-3·98)	0·46	0·59 (0·06-5·56)	0·65
Missing as "non-cases", n=(%)	1 (2·4)	1 (1·8)	1·29 (0·08-20·00)	0·86	1·04 (0·02-48·63)	0·98
Perinatal death[#]						
n= (%)	0(0.0)	1 (1.9)	1 (0-inf)	1.00	n/a	n/a
Missing, n=	0	0				

*Patients with missing information are first considered to have the outcome of interest and are classified as "cases". They are then considered free of the outcome of interest and are considered as "non-cases". †Pregnant women who underwent band deflation pre- or during pregnancy. ‡Pregnant women who had band inflation maintained throughout pregnancy. §Linear regression. Baseline model adjusted for length of gestation. Adjusted model: baseline model + age, parity, smoking status and BMI at first trimester visit. ‖Group mean weight and mean gestation duration assigned to participants with missing weight and length of gestation. #Unadjusted exact logistic regression conducted due to absence/small number of cases in one group. **Modified Poisson regression. Baseline model adjusted for length of gestation. Adjusted model: baseline model + parity, smoking status and age. Macrosomia defined as birthweight >4kg.

††Linear regression. Baseline model: unadjusted. Adjusted model: baseline model + age, parity, smoking status and BMI at first trimester visit. ‡‡Group mean percentile weight assigned to participants with missing weight and length of gestation. §§Modified Poisson regression. Baseline model: unadjusted. Adjusted model: baseline model + parity, smoking status and age. ¶¶Modified Poisson regression. Baseline model: unadjusted. Adjusted model: baseline model + age, parity, smoking status and BMI at first trimester visit.