



Table S1. Baseline maternal, labor and delivery characteristics of the different IPI groups as compared to women with optimal IPI (reference group).

	Optimal IPI -18-48 months (n=1142)	IPI 7-17 months (n=825)	p value	IPI >49 months (n=387)	p value
Maternal age ^a	32.1±4.6	29.9±5.2	<0.01	34.8±4.3	<0.01
Previous miscarriages	301 (27.3%)	239 (31.7%)	0.04	91 (23.7%)	0.17
Previous miscarriages _{≥3}	34 (3.1%)	26 (3.4%)	0.67	7 (1.8%)	0.19
Gravidity	4.4±2.5	4.5±2.8	0.51	3.9±2	<0.01
Parity	4±2.2	4±2.5	0.87	3.6±1.7	<0.01
Interpregnancy pregnancy interval ^b	29.9±8.4	12.2±3.3	<0.01	66.7±18.4	<0.01
Smoking	21 (2%)	13 (1.8%)	0.79	14 (3.9%)	0.05
Previous cesarean delivery	588 (51.5%)	387 (46.9%)	0.05	216 (55.8%)	0.14
Previous cesarean delivery in twin pregnancy	576 (51.3%)	380 (46.7%)	0.19	208 (54.8%)	0.23
Fertility Treatments	118 (10.7%)	42 (5.6%)	<0.01	76 (19.8%)	<0.01
Hypertensive disorders of pregnancy	14 (1.3%)	8 (1.1%)	0.68	13 (3.4%)	0.01
Diabetes ^c	62 (5.7%)	24 (3.2%)	0.01	31 (8.2%)	0.08
Obesity (BMI>30)	52 (17.7%)	34 (17.8%)	0.99	35 (31.8%)	<0.01
Trial of labor after cesarean	390 (35.4%)	299 (39.6%)	0.06	50 (14.2%)	<0.01
Induction of labor	94 (8.9%)	72 (9.1%)	0.84	109 (28.4%)	0.01
Meconium-stained amniotic fluid	144 (13.1%)	140 (18.5%)	<0.01	53 (13.8%)	0.71
Epidural analgesia	543 (48%)	414 (51.3%)	0.15	186 (48.4%)	0.89

Data are mean± standard deviation; number (%); BMI Body Mass Index. a-years, b-months, c- pre-gestational + gestational.

Table S2. Maternal outcomes of the different IPI groups as compared to women with optimal IPI (reference group).

	Optimal IPI -18-48 months (n=1142)	IPI 7-17 months (n=825)	p value	IPI >49 months (n=387)	p value
Gestational age at delivery	39.2±1.6	39.4±1.6	0.02	38.8±2	<0.01
Gestational age at delivery<37 week	47 (4.3%)	31 (4.1%)	0.87	24 (6.3%)	0.12
Gestational age at delivery<34week	8 (0.7%)	6 (0.7%)	0.94	5 (1.3%)	0.27
Gestational age at delivery<32week	3 (0.3%)	4 (0.5%)	0.41	3 (0.8%)	0.16
Gestational age at delivery<28week	1 (0.1%)	1 (0.1%)	0.82	2 (0.5%)	0.10
Spontaneous preterm birth (<37 weeks)	29 (2.6%)	19 (2.5%)	0.87	9 (2.3%)	0.76
Indicated preterm birth (<37 weeks)	18 (1.6%)	12 (1.6%)	0.94	15 (3.9%)	0.01
Prolonged hospital stays, mother	16 (2%)	7 (1.3%)	0.30	6 (2.2%)	0.85
Placenta Accreta/Percreta	1 (0.1%)	1 (0.2%)	0.80	0 (0%)	0.56
Maternal ICU admissions	1 (0.1%)	0 (0%)	0.40	0 (0%)	0.56
Postpartum hemorrhage	81 (7.4%)	47 (6.3%)	0.37	36 (9.4%)	0.21
Placental abruption	23 (2.1%)	15 (2%)	0.90	7 (1.8%)	0.75
Blood products transfusion	15 (1.9%)	10 (1.8%)	0.92	3 (1.1%)	0.38
In labor cesarean	65 (5.9%)	48 (6.4%)	0.68	38 (9.9%)	0.01
Elective cesarean	189 (17.2%)	77 (10.2%)	<0.01	85 (22.1%)	0.03
Anemia (Hb<11gr%) on admission to labor	91 (11.4%)	87 (15.8%)	0.02	37 (13.6%)	0.36

Data are mean± standard deviation; number (%); IPI Interpregnancy interval; ICU Intensive care unit; N/A Non applicable.

Table S3. Neonatal outcomes of the different IPI groups as compared to women with optimal IPI (reference group).

	Optimal IPI -18-48 months (n=1142)	IPI 7-17 months (n=825)	p value	IPI >49 months (n=387)	p value
Birthweight	3361.5±490.5	3374.4±505.2	0.57	3241.2±519.7	<0.01
Birthweight >4000 grams	83 (7.5%)	64 (8.5%)	0.46	25 (6.5%)	0.50
Large for gestational age	164 (14.9%)	108 (14.3%)	0.75	47 (12.3%)	0.21
Small for gestational age	94 (8.5%)	69 (9.2%)	0.64	29 (7.6%)	0.56
5-Minute Apgar score < 7	13 (1.1%)	8 (1%)	0.72	9 (2.3%)	0.09
Perinatal death	2 (0.2%)	5 (0.6%)	0.11	1 (0.3%)	0.75
NICU admission	34 (3.1%)	18 (2.4%)	0.37	23 (6%)	0.01
Composite adverse neonatal outcome	252 (22.1%)	154 (18.7%)	0.07	98 (25.3%)	0.19

Data are mean± standard deviation; number (%); IPI Interpregnancy interval, NICU Neonatal intensive care unit, TTN transient tachypnea of the newborn; N/A Non applicable.