

Table (1): Descriptive clinical data of the studied population

Item	No.= 550	
Age (years)	Range	18 - 42
	Median [IQR]	24 [8]
	Mean \pm SD	25.28 \pm 5.15
Gravidity	1	165 (30.1%)
	2	130 (23.7%)
	3	114 (20.8%)
	\geq4	139 (25.3%)
Education	High education	384 (69.8%)
	Intermediate school	140 (25.5%)
	Non educated	26 (4.7%)
Occupation	Working	10 (1.8%)
	House wife	540 (98.2%)
Socioeconomic status	Low	3 (0.5%)
	moderate	547 (99.5%)
Marriage duration (year)	Range	1 - 25
	Median [IQR]	4 [6.13]
	Mean \pm SD	5.47 \pm 4.75
Previous delivery	PG	90 (16.4%)
	NVD	222 (40.4%)
	CS	238 (43.3%)
Mode of delivery	NVD	226 (41.1%)
	CS	324 (58.9%)
Place of delivery	Home	19 (3.5%)
	Private clinic	51 (9.3%)
	Hospital	480 (87.3%)
Previous abortion	1	40 (7.3%)
	2	12 (2.2%)
	3	5 (0.9%)
	4	1 (0.2%)

Table (2): Occurrence rate (%) of participants with adverse pregnancy outcomes in each sublayer among the 4 pre-pregnancy BMI groups

Item	Number of participants with adverse pregnancy/total					
	Group I No.= 50		Group II No.=67		Group III No.=61	
	N	%	N	%	N	%
Weight gain <2kg	1	2.00%	7	10.45%	6	9.84%
Weight gain 2-3.9kg	1	2.00%	3	4.48%	2	3.28%
Weight gain 4-5.9kg	2	4.00%	5	7.46%	2	3.28%
Weight gain 6-7.9kg	7	14.00%	5	7.46%	4	6.56%
Weight gain 8-9.9kg	7	14.00%	6	8.96%	6	9.84%
Weight gain 10-12.9kg	5	10.00%	6	8.96%	3	4.92%
Weight gain 13-14.9Kg	4	8.00%	3	4.48%	10	16.39%
Weight gain 15-16.9kg	2	4.00%	10	14.93%	7	11.48%
Weight gain 17-19.9kg	8	16.00%	8	11.94%	8	13.11%
Weight gain 20-22.9kg	6	12.00%	12	17.91%	11	18.03%
Weight gain 23-25kg	4	8.00%	1	1.49%	1	1.64%
Weight gain >25kg	3	6.00%	1	1.49%	1	1.64%

Table (3): comparison of complications in relation to BMI categories

Item	Group I No.= 238		Group II No.=222		Group III No.=90		Chi square test
	N	%	N	%	N	%	p-value
Develop complication	50	21.0%	67	30.18%	61	67.7%	<0.0001
Medical complication	19	8.0%	45	20.27%	60	66.67%	<0.0001
DM	4	1.7%	5	2.25%	26	28.89%	<0.0001
Hypertension	1	0.4%	2	0.90%	9	10.00%	0.014
Anemia	15	6.3%	20	9.1%	15	16.67%	<0.0001
Cholecystitis	0	0%	0	0.00%	7	7.78%	<0.0001
Valvovaginitis	18	7.6%	16	7.21%	52	57.78%	<0.0001
UTI	12	5%	35	15.77%	56	62.22%	<0.0001
Obstetric complication	17	7.1%	30	13.51%	59	65.56%	<0.0001
PROM	12	5.0%	25	11.26%	48	53.33%	<0.0001
Malpresentation	5	2.1%	15	6.76%	16	17.78%	<0.0001
Preterm labor	12	5.0%	10	4.50%	41	45.56%	<0.0001
LGA	19	8.0%	30	13.5%	43	47.78%	<0.0001
SGA	13	5.5%	10	4.50%	13	14.44%	0.003
Infant complications	32	13.4%	30	13.51%	56	62.22%	<0.0001

NB: Some patients develop more than 1 type of complications

Table (4): comparison of complications in relation to weight changes during pregnancy

Item	Weight loss No.= 74		weight gain ≤13kg No.=278		weight gain >13kg No.=198		Chi square test
	N	%	N	%	N	%	p-value
Develop complication	30	40.54%	55	19.78%	90	45.45%	<0.0001
Medical complication	24	32.43%	40	14.39%	60	30.30%	<0.0001
DM	2	2.70%	4	1.44%	29	14.65%	<0.0001
Hypertension	1	1.35%	2	0.72%	9	4.55%	0.016
Anemia	15	20.27%	10	3.60%	25	12.63%	<0.0001
Cholecystitis	0	0.00%	0	0.00%	7	3.54%	0.002
valvovaginitis	16	21.62%	20	7.19%	50	25.25%	<0.0001
UTI	34	45.95%	29	10.43%	40	20.20%	<0.0001
Obstetric complication	38	51.35%	20	7.19%	50	25.25%	<0.0001
PROM	15	20.27%	20	7.19%	50	25.25%	<0.0001
Malpresentation	10	13.51%	6	2.16%	20	10.10%	<0.0001
Preterm labor	13	17.57%	20	7.19%	30	15.15%	0.005
LGA	0	0.00%	30	10.79%	62	31.31%	<0.0001
SGA	26	35.14%	6	2.16%	4	2.02%	0.001
Infant complications	26	35.14%	36	12.95%	66	33.33%	<0.0001

NB: Some patients develop more than 1 type of complications