## Pregnancy and birth outcomes in relation to various gestational weight gains according to IOM recommendations for all BMI groups combined based on international and Asian classifications

	IOM weight gain recommendations applied to international BMI classification				IOM weight gain recommendations applied to Asian BMI classification			
	Inadequate	Recommended	Excessive	Overall p value	Inadequate	Recommended	Excessive	Overall p value
Mean birthweight (g)	3110	3208	3338	<b>‡ 0.000***</b>	3087	3226	3309	\$
SD	379	427	388	•	370	427	396	0.000***
N	285	169	60		259	177	78	
Mean number of AN visits	10.0	10.2	10.9	± 0.073	9.8	10.3	10.9	<b>‡ 0.015*</b>
SD	3.8	3.4	3.2		3.8	3.5	3.3	
Ν	273	163	58		248	171	75	
Mean gestation at delivery	38.9	40.1	39.7	± 0.053	38.9	40.0	39.7	<b>‡ 0.088</b>
SD	2.6	2.2	2.5	7 01000	2.7	2.3	2.3	7 01000
N	107	57	18		101	56	25	
Haemoglobin <11.0g/dl in	103/221	56/137	21/49	0.558	96/205	58/139	26/63	0.566
trimester 2	(46.6%)	(40.9%)	(42.9%)	01000	(46.8%)	(41.7%)	(41.3%)	0.000
Haemoglobin <11.0g/dl in	85/228	39/132	16/48	0.326	79/208	41/139	20/61	0.255
trimester 3	(37.3%)	(29.5%)	(33.3%)	0.520	(38.0%)	(29.5%)	(32.8%)	0.200
Induction	19/250	16/151	7/51	0.310	17/224	15/162	10/66	0.177
Induction	(7.6%)	(10.6%)	(13.7%)	0.510	(7.6%)	(9.3%)	(15.2%)	0.177
Spontaneous vaginal	241/289	134/166	49/61	0.714	218/260	144/178	62/78	0.583
delivery	(83.4%)	(80.7%)	(80.3%)	0./14	(83.8%)	(80.9%)	(79.5%)	0.365
Caesarean section	36/293	29/167	8/61	0.313	31/264	30/179	12/78	0.305
Caesarean section	(12.3%)	(17.4%)	(13.1%)	0.313	(11.7%)	(16.8%)	(15.4%)	0.305
LBW <2.5kg	9/285	6/169	0/60	80.44	9/259	5/177	1/78	0.599
	(3.2%)	(3.6%)	(0%)	<b>§0.417</b>	(3.5%)	(2.8%)	(1.3%)	0.599
M			· · ·			· · · ·		0
Macrosomia >4.0kg	2/285	6/169	2/60	§0.058	1/259	6/177	3/78	§0.020*
22.	(0.7%)	(3.6%)	(3.3%)	0.405	(0.4%)	(3.4%)	(3.8%)	0.054
SGA	18/102	4/56	1/18	0.105	18/97	3/54	2/25	0.054
	(17.6%)	(7.1%)	(5.6%)		(18.6%)	(5.6%)	(8.0%)	
LGA	2/102	3/56	2/18	§0.122	2/97	1/54	4/25	§0.014*
	(2.0%)	(5.4%)	(11.1%)		(2.1%)	(1.9%)	(16.0%)	
Born < 37 weeks	25/107	5/57	3/18	0.068	24/101	5/56	4/25	0.066
	(23.4%)	(8.8%)	(16.7%)		(23.8%)	(8.9%)	(16.0%)	
Born $\geq$ 42 weeks	8/107	12/57	2/18	0.039*	8/101	11/56	3/25	0.097
	(7.5%)	(21.1%)	(111%)		(7.9%)	(19.6%)	(12.0%)	
Postpartum Haemorrhage	15/263	9/157	7/58	0.183	13/236	9/168	9/74	0.097
	(5.7%)	(5.7%)	(12.1%)		(5.5%)	(5.4%)	(12.2%)	
Sutures excluding CS	108/244	77/135	26/49	0.050	99/221	84/146	28/61	0.049*
č	(44.3%)	(57.0%)	(53.1%)		(44.8%)	(57.5%)	(45.9%)	
Initial feed at breast	269/284	152/168	55/61	0.169	242/256	163/178	71/79	0.278
	(94.7%)	(90.5%)	(90.2%)		(94.5%)	(91.6%)	(89.9%)	
Breastfeeding at discharge	210//275	131/166	46/59	0.820	187/247	139/176	61/77	0.670
	(76.4%)	(78.9%)	(78.0%)		(75.7%)	(79.0%)	(79.2%)	
Back pain	1/261	12/161	6/58	0.000***	1/235	10/171	8/74	0.000***
	(0.4%)	(7.5%)	(10.3%)	5.000	(0.4%)	(5.8%)	(10.8%)	5.000
Baby admitted to intensive	2/252	3/157	2/55	§0.178	2/226	2/167	3/71	§0.161
care unit	(0.8%)	(1.9%)	(3.6%)	80.110	(0.9%)	(1.2%)	(4.2%)	20.101

IOM, institute of medicine

BMI, Body mass index

SD, standard deviation

n, number

AN, antenatal

LBW, low birth weight

SGA, small for gestational age

LGA, large for gestational age

\*= p<0.05, \*\* = p<0.01, \*\*\* = p<0.001

Chi-square test used for categorical data

‡ Kruskal - Wallis Test for continuous variables due to non-normality of distribution within each category

§ Exact test used where Chi-square test assumptions violated (expected count <5 in >20% of cells)