Association between maternal gestational weight gain and preterm birth according to body mass index and maternal age in Quzhou, China

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 $\label{thm:conditional} \textbf{Table S1. Prevalence of preterm birth in each GWG category.}$

	Low (GWG				Adequate GWG						Excess GWG				
	N	n	n1	n2	n3	N	n	nl	n2	n3	N	n	n1	n2	n3	
Overall	965	114	83	18	13	2135	150	118	21	11	1174	51	49	2	0	
		(11.8%)	(8.6%)	(1.9%)	(1.3%)		(7.0%)	(5.5%)	(1.0%)	(0.5%)		(4.3%)	(4.2%)	(0.2%)		
Age groups																
<20	13	4	2	0	2	17	4	2	0	2	17	0	0	0	0	
		(30.8%)	(15.4%)		(15.4%)		(23.5%)	(11.8%)		(11.8%)						
20-29	480	49	37	9	3	1158	76	62	9	5	688	20	18	2	0	
		(10.2%)	(7.7%)	(1.9%)	(0.6%)		(6.6%)	(5.4%)	(0.8%)	(0.4%)		(2.9%)	(2.6%)	(0.3%)		
30-34	283	34	22	7	5	626	38	32	5	1	309	17	17	0	0	
		(12.0%)	(7.8%)	(2.5%)	(1.8%)		(6.1%)	(5.1%)	(0.8%)	(0.2%)		(5.5%)	(5.5%)			
≫35	189	27	22	2	3	331	32	22	7	3	160	14	14	0	0	
		(14.3%)	(11.6%)	(1.1%)	(1.6%)		(9.7%)	(6.6%)	(2.1%)	(0.9%)		(8.8%)	(8.8%)			
Educational level																
Primary	35	7	5	0	2	41	5	3	1	1	20	1	1	0	0	
		(20.0%)	(14.3%)		(5.7%)		(12.2%)	(7.3%)	(2.4%)	(2.4%)		(5.0%)	(5.0%)			
Secondary	455	64	44	13	7	1014	71	51	11	9	620	32	31	1	0	
		(14.1%)	(9.7%)	(2.9%)	(1.5%)		(7.0%)	(5.0%)	(1.1%)	(0.9%)		(5.2%)	(5.0%)	(0.2%)		
College	457	41	33	5	3	1037	73	63	9	1	514	17	16	1	0	
		(9.0%)	(7.2%)	(1.1%)	(0.7%)		(7.0%)	(6.1%)	(0.9%)	(0.1%)		(3.3%)	(3.1%)	(0.2%)		
Post-graduate	18	2	1	0	1	43	1	1	0	0	20	1	1	0	0	
		(11.1%)	(5.5%)		(5.5%)		(2.3%)	(2.3%)				(5.0%)	(5.0%)			
Gravidity (before																
current pregnancy)																
0	263	26	22	2	2	595	47	38	7	2	350	8	6	2	0	
		(9.9%)	(8.4%)	(0.8%)	(0.8%)		(7.9%)	(6.4%)	(1.2%)	(0.3%)		(2.3%)	(1.7%)	(0.6%)		
1-2	481	59	38	13	8	1012	63	46	10	7	561	20	20	0	0	
		(12.3%)	(7.9%)	(2.7%)	(1.7%)		(6.2%)	(4.5%)	(1.0%)	(0.7%)		(3.6%)	(3.6%)			
»3	221	29	23	3	3	528	40	34	4	2	263	23	23	0	0	
		(13.1%)	(10.4%)	(1.4%)	(1.4%)		(7.6%)	(6.4%)	(0.8%)	(0.4%)		(8.7%)	(8.7%)			
Parity (before																
current pregnancy)																
Nullipara	409	50	36	8	6	1034	78	64	10	4	646	14	12	2	0	
		(12.2%)	(8.8%)	(2.0%)	(1.5%)		(7.5%)	(6.2%)	(1.0%)	(0.4%)		(2.2%)	(1.9%)	(0.3%)		
Multipara	556	64	47	10	7	1101	72	54	11	7	528	37	37	0	0	
		(11.5%)	(8.5%)	(1.8%)	(1.3%)		(6.5%)	(4.9%)	(1.0%)	(0.6%)		(7.0%)	(7.0%)			

Pre-pregnancy

BMI(kg/m²)

Underweight	190	15	10	3	2	371	14	12	1	1	134	6	6	0	0
		(7.9%)	(5.3%)	(1.6%)	(1.1%)		(3.8%)	(3.2%)	(0.3%)	(0.3%)		(4.5%)	(4.5%)		
Normal	739	93	67	15	11	1609	117	96	15	6	785	28	28	0	0
		(12.6%)	(9.1%)	(2.0%)	(1.5%)		(7.3%)	(6.0%)	(0.9%)	(0.4%)		(3.6%)	(3.6%)		
Overweight	36	6	6	0	0	155	19	10	5	4	255	17	15	2	0
and Obese															
		(16.7%)	(16.7%)				(12.3%)	(6.5%)	(3.2%)	(2.6%)		(6.7%)	(5.9%)	(0.8%)	
Previous history of															
preterm birth															
Yes	34	8	5	1	2	59	12	8	2	2	26	8	8	0	0
		(23.5%)	(14.7%)	(2.9%)	(5.9%)		(20.3%)	(13.6%)	(3.4%)	(3.4%)		(30.8%)	(30.8%)		
No	522	56	42	9	5	1042	60	46	9	5	502	29	29	0	0
		(10.7%)	(8.0%)	(1.7%)	(1.0%)		(5.8%)	(4.4%)	(0.9%)	(0.5%)		(5.8%)	(5.8%)		
Nullipara	409	50	36	8	6	1034	78	64	10	4	646	14	12	2	0
		(12.2%)	(8.8%)	(2.0%)	(1.5%)		(7.5%)	(6.2%)	(1.0%)	(0.4%)		(2.2%)	(1.9%)	(0.3%)	
Mode of conception															
Nature	946	112	82	18	12	2079	141	112	19	10	1136	48	46	2	0
		(11.8%)	(8.7%)	(1.9%)	(1.3%)		(6.8%)	(5.4%)	(0.9%)	(0.5%)		(4.2%)	(4.0%)	(0.2%)	
ART	19	2	1	0	1	56	9	6	2	1	38	3	3	0	0
		(10.5%)	(5.3%)		(5.3%)		(16.1%)	(10.7%)	(3.6%)	(1.8%)		(7.9%)	(7.9%)		
Prenatal care															
	10	1	0	1	0	11	3	1	0	1	4	0	0	0	0
none	10	1	U	1	U			1	U				U	U	
none	10		U		V				Ü		·	v	O	U	v
		(10.0%)		(10.0%)			(27.2%)	(9.1%)		(9.1%)					
none Our hospital	690	(10.0%) 66	54	(10.0%)	7	1599	(27.2%) 93	(9.1%) 79	10	(9.1%) 4	896	40	39	1	0
		(10.0%)	54 (7.8%)	(10.0%)			(27.2%) 93 (5.8%)	(9.1%) 79 (4.9%)	10 (0.6%)	(9.1%)			39 (4.4%)		0
		(10.0%) 66	54	(10.0%)	7		(27.2%) 93	(9.1%) 79	10	(9.1%) 4		40	39	1	
Our hospital	690	(10.0%) 66 (9.6%)	54 (7.8%)	(10.0%) 5 (0.7%)	7 (1.0%)	1599	(27.2%) 93 (5.8%)	(9.1%) 79 (4.9%)	10 (0.6%)	(9.1%) 4 (0.3%)	896	40 (4.5%)	39 (4.4%)	1 (0.1%)	0
Our hospital	690	(10.0%) 66 (9.6%) 47	54 (7.8%) 29	(10.0%) 5 (0.7%) 12	7 (1.0%)	1599	(27.2%) 93 (5.8%) 54	(9.1%) 79 (4.9%) 37	10 (0.6%)	(9.1%) 4 (0.3%) 6	896	40 (4.5%)	39 (4.4%)	1 (0.1%)	0
Our hospital Other hospitals	690	(10.0%) 66 (9.6%) 47	54 (7.8%) 29	(10.0%) 5 (0.7%) 12	7 (1.0%)	1599	(27.2%) 93 (5.8%) 54	(9.1%) 79 (4.9%) 37	10 (0.6%)	(9.1%) 4 (0.3%) 6	896	40 (4.5%)	39 (4.4%)	1 (0.1%)	0
Our hospital Other hospitals Timing of initiation	690	(10.0%) 66 (9.6%) 47	54 (7.8%) 29	(10.0%) 5 (0.7%) 12	7 (1.0%)	1599	(27.2%) 93 (5.8%) 54	(9.1%) 79 (4.9%) 37	10 (0.6%)	(9.1%) 4 (0.3%) 6	896	40 (4.5%)	39 (4.4%)	1 (0.1%)	0
Our hospital Other hospitals Timing of initiation of prenatal care	690	(10.0%) 66 (9.6%) 47 (17.7%)	54 (7.8%) 29 (10.9%)	(10.0%) 5 (0.7%) 12 (4.5%)	7 (1.0%) 6 (2.3%)	1599 525	(27.2%) 93 (5.8%) 54 (10.3%)	(9.1%) 79 (4.9%) 37 (7.0%)	10 (0.6%) 11 (2.1%)	(9.1%) 4 (0.3%) 6 (1.1%)	896 274	40 (4.5%) 11 (4.0%)	39 (4.4%) 10 (3.6%)	1 (0.1%) 1 (0.4%)	0
Our hospital Other hospitals Timing of initiation of prenatal care 1st-3rd month	690 265 861	(10.0%) 66 (9.6%) 47 (17.7%)	54 (7.8%) 29 (10.9%) 74 (8.6%)	(10.0%) 5 (0.7%) 12 (4.5%) 16 (1.9%)	7 (1.0%) 6 (2.3%) 12 (1.4%)	1599 525 1927	(27.2%) 93 (5.8%) 54 (10.3%)	(9.1%) 79 (4.9%) 37 (7.0%)	10 (0.6%) 11 (2.1%) 19 (1.0%)	(9.1%) 4 (0.3%) 6 (1.1%) 8 (0.4%)	896 274 1045	40 (4.5%) 11 (4.0%) 47 (4.5%)	39 (4.4%) 10 (3.6%) 45 (4.3%)	1 (0.1%) 1 (0.4%) 2 (0.2%)	0
Our hospital Other hospitals Timing of initiation of prenatal care	690	(10.0%) 66 (9.6%) 47 (17.7%) 102 (11.8%) 11	54 (7.8%) 29 (10.9%) 74 (8.6%) 9	(10.0%) 5 (0.7%) 12 (4.5%) 16 (1.9%) 1	7 (1.0%) 6 (2.3%) 12 (1.4%)	1599 525	(27.2%) 93 (5.8%) 54 (10.3%) 130 (6.7%) 16	(9.1%) 79 (4.9%) 37 (7.0%)	10 (0.6%) 11 (2.1%) 19 (1.0%) 2	(9.1%) 4 (0.3%) 6 (1.1%) 8 (0.4%) 2	896 274	40 (4.5%) 11 (4.0%) 47 (4.5%) 3	39 (4.4%) 10 (3.6%) 45 (4.3%) 3	1 (0.1%) 1 (0.4%)	0
Our hospital Other hospitals Timing of initiation of prenatal care 1st-3rd month	690 265 861 88	(10.0%) 66 (9.6%) 47 (17.7%) 102 (11.8%) 11 (12.5%)	54 (7.8%) 29 (10.9%) 74 (8.6%) 9 (10.2%)	(10.0%) 5 (0.7%) 12 (4.5%) 16 (1.9%) 1 (1.1%)	7 (1.0%) 6 (2.3%) 12 (1.4%) 1 (1.1%)	1599 525 1927 185	(27.2%) 93 (5.8%) 54 (10.3%) 130 (6.7%) 16 (8.6%)	(9.1%) 79 (4.9%) 37 (7.0%) 103 (5.3%) 12 (6.5%)	10 (0.6%) 11 (2.1%) 19 (1.0%) 2 (1.1%)	(9.1%) 4 (0.3%) 6 (1.1%) 8 (0.4%) 2 (1.1%)	896 274 1045 120	40 (4.5%) 11 (4.0%) 47 (4.5%) 3 (2.5%)	39 (4.4%) 10 (3.6%) 45 (4.3%) 3 (2.5%)	1 (0.1%) 1 (0.4%) 2 (0.2%)	0 0 0
Our hospital Other hospitals Timing of initiation of prenatal care 1st-3rd month	690 265 861	(10.0%) 66 (9.6%) 47 (17.7%) 102 (11.8%) 11	54 (7.8%) 29 (10.9%) 74 (8.6%) 9	(10.0%) 5 (0.7%) 12 (4.5%) 16 (1.9%) 1	7 (1.0%) 6 (2.3%) 12 (1.4%)	1599 525 1927	(27.2%) 93 (5.8%) 54 (10.3%) 130 (6.7%) 16 (8.6%) 1	(9.1%) 79 (4.9%) 37 (7.0%) 103 (5.3%) 12 (6.5%) 1	10 (0.6%) 11 (2.1%) 19 (1.0%) 2	(9.1%) 4 (0.3%) 6 (1.1%) 8 (0.4%) 2	896 274 1045	40 (4.5%) 11 (4.0%) 47 (4.5%) 3 (2.5%)	39 (4.4%) 10 (3.6%) 45 (4.3%) 3 (2.5%) 1	1 (0.1%) 1 (0.4%) 2 (0.2%)	0
Our hospital Other hospitals Timing of initiation of prenatal care 1st-3rd month	690 265 861 88	(10.0%) 66 (9.6%) 47 (17.7%) 102 (11.8%) 11 (12.5%)	54 (7.8%) 29 (10.9%) 74 (8.6%) 9 (10.2%)	(10.0%) 5 (0.7%) 12 (4.5%) 16 (1.9%) 1 (1.1%)	7 (1.0%) 6 (2.3%) 12 (1.4%) 1 (1.1%)	1599 525 1927 185	(27.2%) 93 (5.8%) 54 (10.3%) 130 (6.7%) 16 (8.6%)	(9.1%) 79 (4.9%) 37 (7.0%) 103 (5.3%) 12 (6.5%)	10 (0.6%) 11 (2.1%) 19 (1.0%) 2 (1.1%)	(9.1%) 4 (0.3%) 6 (1.1%) 8 (0.4%) 2 (1.1%)	896 274 1045 120	40 (4.5%) 11 (4.0%) 47 (4.5%) 3 (2.5%)	39 (4.4%) 10 (3.6%) 45 (4.3%) 3 (2.5%)	1 (0.1%) 1 (0.4%) 2 (0.2%)	0 0 0
Our hospital Other hospitals Timing of initiation of prenatal care 1st-3rd month	690 265 861 88	(10.0%) 66 (9.6%) 47 (17.7%) 102 (11.8%) 11 (12.5%)	54 (7.8%) 29 (10.9%) 74 (8.6%) 9 (10.2%)	(10.0%) 5 (0.7%) 12 (4.5%) 16 (1.9%) 1 (1.1%)	7 (1.0%) 6 (2.3%) 12 (1.4%) 1 (1.1%)	1599 525 1927 185	(27.2%) 93 (5.8%) 54 (10.3%) 130 (6.7%) 16 (8.6%) 1	(9.1%) 79 (4.9%) 37 (7.0%) 103 (5.3%) 12 (6.5%) 1	10 (0.6%) 11 (2.1%) 19 (1.0%) 2 (1.1%)	(9.1%) 4 (0.3%) 6 (1.1%) 8 (0.4%) 2 (1.1%)	896 274 1045 120	40 (4.5%) 11 (4.0%) 47 (4.5%) 3 (2.5%)	39 (4.4%) 10 (3.6%) 45 (4.3%) 3 (2.5%) 1	1 (0.1%) 1 (0.4%) 2 (0.2%)	0 0 0
Our hospital Other hospitals Timing of initiation of prenatal care 1st-3rd month 4th-6th month	690 265 861 88	(10.0%) 66 (9.6%) 47 (17.7%) 102 (11.8%) 11 (12.5%) 0	54 (7.8%) 29 (10.9%) 74 (8.6%) 9 (10.2%)	(10.0%) 5 (0.7%) 12 (4.5%) 16 (1.9%) 1 (1.1%) 0	7 (1.0%) 6 (2.3%) 12 (1.4%) 1 (1.1%)	1599 525 1927 185	(27.2%) 93 (5.8%) 54 (10.3%) 130 (6.7%) 16 (8.6%) 1 (8.3%)	(9.1%) 79 (4.9%) 37 (7.0%) 103 (5.3%) 12 (6.5%) 1 (8.3%)	10 (0.6%) 11 (2.1%) 19 (1.0%) 2 (1.1%)	(9.1%) 4 (0.3%) 6 (1.1%) 8 (0.4%) 2 (1.1%) 0	896 274 1045 120	40 (4.5%) 11 (4.0%) 47 (4.5%) 3 (2.5%) 1 (20.0%)	39 (4.4%) 10 (3.6%) 45 (4.3%) 3 (2.5%) 1 (20.0%)	1 (0.1%) 1 (0.4%) 2 (0.2%) 0	0 0 0
Our hospital Other hospitals Timing of initiation of prenatal care 1st-3rd month 4th-6th month	690 265 861 88	(10.0%) 66 (9.6%) 47 (17.7%) 102 (11.8%) 11 (12.5%) 0	54 (7.8%) 29 (10.9%) 74 (8.6%) 9 (10.2%)	(10.0%) 5 (0.7%) 12 (4.5%) 16 (1.9%) 1 (1.1%) 0	7 (1.0%) 6 (2.3%) 12 (1.4%) 1 (1.1%)	1599 525 1927 185	(27.2%) 93 (5.8%) 54 (10.3%) 130 (6.7%) 16 (8.6%) 1 (8.3%) 3	(9.1%) 79 (4.9%) 37 (7.0%) 103 (5.3%) 12 (6.5%) 1 (8.3%) 2	10 (0.6%) 11 (2.1%) 19 (1.0%) 2 (1.1%)	(9.1%) 4 (0.3%) 6 (1.1%) 8 (0.4%) 2 (1.1%) 0	896 274 1045 120	40 (4.5%) 11 (4.0%) 47 (4.5%) 3 (2.5%) 1 (20.0%)	39 (4.4%) 10 (3.6%) 45 (4.3%) 3 (2.5%) 1 (20.0%)	1 (0.1%) 1 (0.4%) 2 (0.2%) 0	0 0 0
Our hospital Other hospitals Timing of initiation of prenatal care 1st-3rd month 4th-6th month 7th to final month	690 265 861 88 6	(10.0%) 66 (9.6%) 47 (17.7%) 102 (11.8%) 11 (12.5%) 0	54 (7.8%) 29 (10.9%) 74 (8.6%) 9 (10.2%) 0	(10.0%) 5 (0.7%) 12 (4.5%) 16 (1.9%) 1 (1.1%) 0	7 (1.0%) 6 (2.3%) 12 (1.4%) 1 (1.1%) 0	1599 525 1927 185 12	(27.2%) 93 (5.8%) 54 (10.3%) 130 (6.7%) 16 (8.6%) 1 (8.3%) 3 (27.2%)	(9.1%) 79 (4.9%) 37 (7.0%) 103 (5.3%) 12 (6.5%) 1 (8.3%) 2 (9.1%)	10 (0.6%) 11 (2.1%) 19 (1.0%) 2 (1.1%) 0	(9.1%) 4 (0.3%) 6 (1.1%) 8 (0.4%) 2 (1.1%) 0	896 274 1045 120 5	40 (4.5%) 11 (4.0%) 47 (4.5%) 3 (2.5%) 1 (20.0%)	39 (4.4%) 10 (3.6%) 45 (4.3%) 3 (2.5%) 1 (20.0%)	1 (0.1%) 1 (0.4%) 2 (0.2%) 0	0 0 0 0 0
Our hospital Other hospitals Timing of initiation of prenatal care 1st-3rd month 4th-6th month 7th to final month none Pregnancy-induced	690 265 861 88 6	(10.0%) 66 (9.6%) 47 (17.7%) 102 (11.8%) 11 (12.5%) 0	54 (7.8%) 29 (10.9%) 74 (8.6%) 9 (10.2%) 0	(10.0%) 5 (0.7%) 12 (4.5%) 16 (1.9%) 1 (1.1%) 0	7 (1.0%) 6 (2.3%) 12 (1.4%) 1 (1.1%) 0	1599 525 1927 185 12	(27.2%) 93 (5.8%) 54 (10.3%) 130 (6.7%) 16 (8.6%) 1 (8.3%) 3 (27.2%)	(9.1%) 79 (4.9%) 37 (7.0%) 103 (5.3%) 12 (6.5%) 1 (8.3%) 2 (9.1%)	10 (0.6%) 11 (2.1%) 19 (1.0%) 2 (1.1%) 0	(9.1%) 4 (0.3%) 6 (1.1%) 8 (0.4%) 2 (1.1%) 0	896 274 1045 120 5	40 (4.5%) 11 (4.0%) 47 (4.5%) 3 (2.5%) 1 (20.0%)	39 (4.4%) 10 (3.6%) 45 (4.3%) 3 (2.5%) 1 (20.0%)	1 (0.1%) 1 (0.4%) 2 (0.2%) 0	0 0 0 0 0

Gestational diabetes	265	25	17	4	4	428	32	24	7	1	229	13	12	1	0
mellitus															
		(9.4%)	(6.4%)	(16.0%)	(16.0%)		(7.5%)	(5.6%)	(1.6%)	(0.2%)		(5.7%)	(5.2%)	(0.4%)	
Infant Sex															
Male	481	60	43	11	6	1140	96	74	14	8	599	29	28	1	0
		(12.5%)	(8.9%)	(2.3%)	(1.2%)		(8.4%)	(6.5%)	(1.2%)	(0.7%)		(4.8%)	(4.7%)	(0.1%)	
Female	484	54	40	7	7	995	54	44	7	3	575	22	21	1	0
		(11.2%)	(8.3%)	(1.4%)	(1.4%)		(5.4%)	(4.4%)	(0.7%)	(0.3%)		(3.8%)	(3.7%)	(0.1%)	

Data were n/N (%). N means total births records; n means preterm births records; n1 means moderately preterm births records; n2 means very preterm births records; n3 means extremely preterm births records.