

Table 1 Logistic regression model of two classification variable assignment table

Variable	Name of variable	Statement
Dependent variable	sIUGR	0=No,1=Yes
	Age /year	Measured value
	Fertilization way	1=Natural ,2= IVF
	Pregnancy /time	Measured value
	Gestational weeks/month	Measured value
	Gestational hypertension	0=No,1=Yes
Independent variable	Gestational diabetes mellitus	0=No,1=Yes
	Type of chorion	1=Monochorionic,2=Dichorionic
	Weight of newborn babies (big) /g	Measured value
	Weight of newborn babies (small) /g	Measured value
	Length of newborn babies (big) /cm	Measured value
	Length if newborn babies (small) /cm	Measured value
	Asphyxia of the newborn babies	0=No,1=Yes

Selective intrauterine growth restriction (sIUGR), in vitro fertilization (IVF).

Table 2 Comparison of the general data in monochorionic twin and dichorionic twin

Variable	Subgroup	Group		t/Z/ χ^2	P
		Monochorionic	Dichorionic		
Age/year^a		28.36±4.79	31.04±5.13	-5.251	<0.001
Pregnancy/time ^b		2.12±1.38	2.21±1.25	-1.094	0.274
Delivery/time ^b		2.19±0.82	2.27±0.85	-0.846	0.398
Gestational week /month ^b		35.10±2.69	35.32±2.66	-0.905	0.365
Fertilization way^c	Natural	123 (80.6)	122 (39.5)	65.444	<0.001
	ART	46 (19.4)	198 (60.5)		
Prenatal hospital stay /day ^b		2.53±5.83	4.16±9.29	-1.553	0.120
Bad pregnant history ^c	No	123 (81.3)	247 (74.3)	2.633	0.105
	Yes	46 (18.7)	73 (25.7)		
First delivery ^c	No	72 (42.4)	132 (41.9)	0.012	0.914
	Yes	97 (57.6)	188 (58.1)		
Delivery way^c	Natural	106 (62.7)	135 (47.5)	7.598	<0.005
	Surgical	63 (38.3)	185 (52.5)		

Data are presented as $\bar{x} \pm s / n(\%)$; a means statistical significance determined by t test; b means statistical significance determined by Mann-Whitney U test; c means statistical significance determined by Chi-square test. Assisted reproductive technology (ART).

Table 3 Comparison of the complications in monochorionic twin and dichorionic twin

Variable	Subgroup	Group		Z/ χ^2	P
		Monochorionic	Dichorionic		
Gestational hypertension ^a	No	132 (87.8)	281 (85.3)	-0.656	0.512
	Yes	37 (12)	39 (14)		
Gestational deabetes ^c	No	129 (85.4)	271 (81.5)	1.016	0.313
	Yes	40 (14.6)	49 (18.5)		
Intrahepatic cholestasis of pregnancy ^b	No	169 (100.0)	320 (99.7)	-	1.000
	Yes	0 (0)	1 (0.3)		
Late abortion ^b	No	166 (98.6)	318 (99.7)	-	0.220
	Yes	3 (1.4)	2 (0.3)		
Premature rupture of membranes ^c	No	148 (85.6)	280 (93.7)	7.944	0.005
	Yes	21 (14.4)	40 (6.3)		
Rupture of membranes ^b	No	137 (82.7)	278 (87.1)	-	0.283
	Yes	32 (15.5)	52 (12.5)		
Premature delivery ^c	No	61 (37.4)	121 (40.8)	0.452	0.502
	Yes	108 (62.6)	199 (59.2)		
Anemia ^a	No	95 (61.2)	206 (63.0)	-0.291	0.771
	Yes	74 (39.0)	114 (37.0)		
Placental abruption ^b	No	168 (99.0)	315 (98.4)	-	0.329
	Yes	1 (1)	5 (1.6)		
Placenta previa ^d	No	164 (97.1)	309 (96.6)	0.001	0.976
	Yes	5 (2.9)	11 (3.4)		
SIUGR^c	No	93 (59.0)	243 (75.9)	2.347	0.005
	Yes	76 (41.0)	77 (24.0)		
Postpartum hemorrhage ^c	No	161 (94.2)	286 (89.3)	2.824	0.093
	Yes	8 (5.8)	34 (10.7)		

Data are presented as $\bar{x} \pm s / n(\%)$; a means statistical significance determined by Mann-Whitney U

test ; b means statistical significance determined by Fisher's exact test; c means statistical significance

determined by Chi-square test ; d means statistical significance determined by correction of continuity

Chi-square test. Selective intrauterine growth restriction(sIUGR).

Table 4 Comparison of the perinatal infant result in monochorionic twin and dichorionic twin

Variable	subgroup	Group		statistic	P
		Monochorionic	Dichorionic		
Weight of newborn babies (big) /g^a		2326.28±501.18	2516.83±428.57	-4.636	0.001
Weight of newborn babies (small) /g^a		1967.17±511.24	2213.05±443.93	-5.833	0.001
Length of the newborn babies (big) /cm ^a		46.14±3.62	46.12±4.18	0.036	0.971
Length of the newborn babies (small) /cm ^a		44.40±3.83	44.78±4.34	-0.855	0.393
Neonatal transfer rate^c	No	82 (59.4)	257 (80.3)	-3.091	0.001
	Yes	56 (40.6)	63 (19.6)		
Asphyxia of the newborn babies ^b	No	131 (95.6)	297 (93.1)	-1.058	0.290
	Mild	6 (4.4)	16 (5.0)		
	Severe	0 (0)	6 (1.9)		
Fetal anomaly ^d	No	135 (97.8)	316 (99.1)	2.739	0.372
	Yes	3 (2.2)	3 (0.9)		

Data are presented as $\bar{x} \pm s / n(\%)$; a means statistical significance determined by t test; b means

statistical significance determined by Mann-Whitney U test; c means statistical significance determined

by Chi-square test; d means statistical significance determined by Fisher's exact test.

Table 5 SIUGR influence factors of binary classification logistic regression analysis results ($n=460$)

Variable	Estimated value	Standard error	χ^2	P	OR	OR 95%CI	
						Lower limit	Upper limit
Standard variable	-41.548	4.739	76.872	<0.001	-	-	-
Gestational weeks /month	1.628	0.183	79.426	<0.001	5.095	3.561	7.288
Weight of newborn babies (big) /g	0.003	0.001	18.652	<0.001	1.003	1.002	1.005
Weight of newborn babies (small) /g	-0.011	0.001	90.213	<0.001	0.989	0.986	0.991
Type of chorion	0.017	0.001	0.002	<0.001	1.017	0.492	2.105

Variable selection used Forward: LR method.