

**The incidence, risk factors and maternal and foetal outcomes of uterine rupture
during different birth policy periods: an observational study in China**

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Additional file 1. Number of uterine ruptures by maternal age, parity and number previous caesarean sections over different birth policy periods in 438 hospitals, China.

Maternal characteristics	One-child policy period	Partial two-child policy period	Universal two-child policy period
Number of uterine ruptures (%)			
Maternal age			
<24	242 (14.68)	344 (10.87)	519 (6.39)
24-29	588 (35.68)	1052 (33.25)	2309 (28.43)
30-34	528 (32.04)	1121 (35.43)	3181 (39.17)
≥35	233 (14.14)	553 (17.48)	2045 (25.18)
Missing	57 (3.46)	94 (2.97)	68 (0.84)
Parity			
0	274 (16.63)	266 (8.41)	408 (5.02)
1	1100 (66.75)	2397 (75.76)	6201 (76.35)
2	237 (14.38)	452 (14.29)	1277 (15.72)
≥3	36 (2.18)	49 (1.55)	140 (1.72)
Missing	1 (0.06)	0 (0.00)	96 (1.18)
Previous caesarean sections			
0	411 (24.94)	411 (12.99)	723 (8.90)
1	1090 (66.14)	2434 (76.93)	6273 (77.23)
≥2	139 (8.43)	312 (9.86)	1027 (12.64)
Missing	8 (0.49)	7 (0.22)	99 (1.22)
Total	1648 (100.00)	3164 (100.00)	8122 (100.00)

Additional file 2. Changes in age, parity and previous caesarean section distributions among women in 438 hospitals over different birth policy periods in China.

Maternal characteristics	One-child policy period	Partial two-child policy period	Universal two-child policy period
Maternal age (number of births) (%)			
<24	883,593 (29.73)	542,423 (24.09)	536,954 (15.73)
24-29	120,0114 (40.38)	977,190 (43.39)	1,384,671 (40.56)
30-34	559,339 (18.82)	463,819 (20.59)	973,521 (28.52)
≥35	211,949 (7.13)	187,937 (8.34)	464,017 (13.59)
Missing	117,046 (3.94)	80,738 (3.58)	54,466 (1.60)
Parity (number of births) (%)			
0	1,905,689 (64.12)	1,287,163 (57.15)	1,647,009 (48.25)
1	918,273 (30.90)	822,020 (36.50)	1,504,703 (44.08)
2	125,139 (4.21)	121,091 (5.38)	218,916 (6.41)
≥3	21,212 (0.71)	21,476 (0.95)	35,079 (1.03)
Missing	1674 (0.06)	357 (0.02)	7922 (0.23)
Previous caesarean sections (number of births) (%)			
0	2,634,925 (88.66)	1,913,742 (84.98)	2,731,509 (80.02)
1	298,767 (10.05)	314,749 (13.98)	627,317 (18.38)
≥2	15,138 (0.51)	19,514 (0.87)	45,632 (1.34)
Missing	23,157 (0.78)	4102 (0.18)	9171 (0.27)
Total	2,971,987 (100.00)	2,252,107 (100.00)	3,413,629 (100.00)

Additional file 3. Relative risks according to parity and number of previous caesarean sections among women in different age groups in China.

	Parity ^b					Previous caesarean sections ^b			
	0	1	2	≥3	Missing	0	1	≥2	Missing
Number of uterine ruptures (%)									
<24	191 (17.29)	765 (69.23)	141 (12.76)	6 (0.54)	2 (0.18)	236 (21.36)	763 (69.05)	101 (9.14)	5 (0.45)
24-29	395 (10.00)	2938 (74.40)	541 (13.70)	51 (1.29)	24 (0.61)	549 (13.90)	2954 (74.80)	418 (10.58)	28 (0.71)
30-34	251 (5.20)	3712 (76.85)	758 (15.69)	67 (1.39)	42 (0.87)	467 (9.67)	3738 (77.39)	574 (11.88)	51 (1.06)
≥35	79 (2.79)	2149 (75.91)	485 (17.12)	90 (3.18)	28 (0.99)	235 (8.30)	2211 (78.10)	357 (12.61)	28 (0.99)
Weighted rate, per 100 births^a									
<24	0.01	0.15	0.30	0.09	0.11	0.01	0.61	2.26	0.07
24-29	0.02	0.22	0.28	0.30	0.68	0.02	0.63	1.53	0.17
30-34	0.03	0.32	0.37	0.22	1.29	0.03	0.77	1.49	0.42
≥35	0.05	0.34	0.33	0.23	1.51	0.04	0.82	1.40	0.67
Crude odds ratio^a									
<24	1	12.37 (8.24-18.57)	25.18 (13.53-46.85)	7.99 (3.18-20.06)	9.17 (1.25-67.05)	1	51.66 (35.22-75.78)	192.20 (93.25-396.12)	6.36 (1.91-21.13)
24-29	1	13.31 (8.11-21.84)	16.88 (10.41-27.38)	12.30 (6.78-22.34)	41.49 (21.40-80.42)	1	39.98 (26.54-60.22)	96.98 (63.23-148.72)	10.98 (1.93-62.32)
30-34	1	10.23 (5.82-17.98)	11.87 (6.98-20.17)	6.94 (3.93-12.24)	41.12 (25.08-67.41)	1	26.73 (17.12-41.74)	51.45 (33.86-78.18)	14.43 (2.55-81.75)
≥35	1	6.76 (3.63-12.58)	6.51 (3.94-10.75)	4.48 (2.61-7.71)	29.76 (19.33-45.83)	1	23.20 (14.17-37.98)	39.70 (26.02-60.57)	18.94 (4.79-74.83)
Adjusted odds ratio									
<24	1	1.69 (1.04-2.73)	2.63 (1.59-4.34)	1.20 (0.42-3.41)	-	1	13.57 (8.36-22.03)	26.93 (11.64-62.28)	2.64 (0.76-9.13)
24-29	1	2.07 (1.13-3.78)	2.32 (1.25-4.31)	2.45 (1.25-4.81)	3.14 (0.64-15.45)	1	13.18 (9.09-19.11)	26.22 (16.28-42.23)	1.13 (0.30-4.26)
30-34	1	2.06 (1.16-3.66)	2.53 (1.38-4.62)	2.52 (1.28-4.59)	3.83 (0.91-16.16)	1	9.83 (7.08-13.64)	17.62 (11.22-27.65)	1.45 (0.24-8.81)
≥35	1	1.52 (0.86-2.70)	1.69 (0.96-2.96)	1.97 (1.03-3.78)	5.57 (0.99-31.27)	1	9.61 (6.72-13.76)	17.97 (10.52-30.72)	0.43 (0.06-3.04)

^aWeighted for the sampling distribution of the population covered by the Chinese National Maternal Near Miss Surveillance System. ^bWe did not

adjust for parity in the different parity groups. ^cWe did not adjust for previous caesarean sections in the different groups of previous caesarean sections.