

1 **Table S1.** Proportion of 5 different time periods in total induction to cord clamping time

	Period1	Period2	Period3	Period4	Period5	Total time
Duration(s)	100.34±131.60	136.76±115.91	118.52±132.78	47.12±39.83	27.70±26.65	430.44±244.87
Percentage (%)	23	32	28	11	6	100

2 Note: Period1: the time of anaesthetic induction; Period2: the time of skin incision; Period3: the time of myometrium incision of uterus; Period4: the time of  
 3 delivery the new-born; Period5: the time of cord clamping

4 **Table S2.** Correlation between the different period of general anaesthesia and blood gas analysis of the umbilical artery

Variable	Period1		Period 2		Period 3		Period 4		Period 5	
	r	P value	r	P value	r	P value	r	P value	r	P value
pH	-0.146	0.311	0.141	0.328	-0.136	0.348	-0.015	0.915	0.043	0.765
PO2(mmHg)	-0.158	0.275	0.181	0.208	-0.008	0.957	-0.143	0.323	-0.047	0.745
PCO2(mmHg)	0.157	0.275	-0.136	0.345	0.172	0.232	0.003	0.981	0.157	0.275
BE (mmol/L)	0.025	0.866	-0.060	0.677	0.057	0.693	0.075	0.606	0.124	0.390
Hb ( g/dL )	0.040	0.784	0.052	0.719	-0.129	0.373	-0.159	0.271	0.109	0.450

5 Note: Period1: the time of anaesthetic induction; Period2: the time of skin incision; Period3: the time of myometrium incision of uterus; Period4: the time of  
 6 delivery the newborn; Period5: the time of cord clamping

**Table S3.** Correlation between the different periods of general anaesthesia and secondary outcomes

Variable		Period 1		Period 2		Period 3			Period 4		Period 5			
		r	P value	r	95% CI	P value	r	95% CI	P value	r	P value	r	95% CI	P value
1-min Apgar score		0.067	0.645	-		0.625	-0.040		0.780	-0.037	0.797	-0.426	-	0.002*
				0.071									0.6300-	
													-0.1680	
5-min Apgar score		0.054	0.711	-		0.184	-0.203		0.154	0.041	0.778	-0.130		0.371
				0.191										
Peak bilirubin		-	0.862	0.347	0.0759-	0.014*	0.411	0.1493-	0.003*	0.081	0.575	-0.289	-0.5254	0.042*
( mg/dL )		0.025			0.5702			0.6183					-0.0119	
Requirement of mask		-	0.617	-		0.325	0.109		0.452	0.213	0.138	0.064		0.657
ventilation (%)		0.073		0.142										
Requirement of chest		-	0.850	-		0.774	-0.119		0.411	0.136	0.347	0.774	0.6312-	<0.000*
compression (%)		0.028		0.042									0.8656	

Need for admission to the neonatal department (%)	0.006	0.969	-	0.494	-0.060	0.679	-0.047	0.747	0.090	0.532
Incidence of pathological jaundice (%)	-	0.998	-	0.914	-0.027	0.850	-0.069	0.636	-0.052	0.720
Requirement of blue-light therapy (%)	0.006	0.969	-	0.494	-0.060	0.679	-0.047	0.747	0.090	0.532

8 \* indicates a significant difference. Abbreviations: r: correlation coefficient, CI: confidence interval. Period 1: the time of anaesthesia induction; Period 2: the  
9 time of skin incision; Period 3: the time of myometrium incision; Period 4: the time of delivery of the baby; Period 5: the time of cord clamping.

10 **Table S4.** Linear regression model of peak bilirubin

Parameter	Estimated value	Standard error	t value	P value
Intercept	9.712	0.581	16.706	<0.001
Period 2	0.006	0.003	2.360	0.023
Period 3	0.006	0.002	2.464	0.018
Period 5	-0.026	0.011	-2.274	0.028

11 Note: Peak bilirubin  $= (9.712 + 0.006 \times \text{Period 2} + 0.006 \times \text{Period 3} - 0.026 \times \text{Period 5})$  ( $R^2=0.313$ ).  $R^2$  is the determinant coefficient of the equation. Period 2: the  
12 time of skin incision; Period 3: the time of myometrium incision; Period 5: the time of cord clamping.

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