

Supplement to: Singh S, Swain D. Prevalence and factors associated with caesarean delivery on maternal request and its effect on maternal and foetal outcomes in selected tertiary care hospital, Odisha, Southeastern India. J Glob Health. 2025;15:04073.

Table S1. Association between family and social factor with CDMR (n=192)

Factors	NVD	CDMR	df	χ^2 / FE	P value
	f (%)	f (%)			
Total	132 (100)	60 (100)			
I. Family Factors					
Husband's advice			2	FE=21.695	< 0.001
<i>No recommendation</i>	78 (59.09)	46 (76.67)			
<i>Recommend VD</i>	52 (39.39)	7 (11.67)			
<i>Recommend CD</i>	2 (1.52)	7 (11.66)			
Parent's advice			2	FE=18.976	< 0.001
<i>No recommendation</i>	76 (57.58)	44 (73.33)			
<i>Recommend VD</i>	54 (40.91)	9 (15.00)			
<i>Recommend CD</i>	2 (1.51)	7 (11.67)			
Advice from parents-in-law			2	FE=17.006	< 0.001
<i>No recommendation</i>	77 (58.33)	45 (75.00)			
<i>Recommend VD</i>	53 (40.15)	9 (15.00)			
<i>Recommend CD</i>	2 (16.67)	6 (10.00)			
Family Support			2	FE=2.234	0.28
<i>Low</i>	2 (1.52)	1 (1.67)			
<i>Medium</i>	24 (18.18)	6 (10)			
<i>High</i>	106 (80.30)	53 (88.33)			
II. Social Factors					
Medical staff service			2	FE=1.070	0.72
<i>Good</i>	120 (90.91)	53 (88.33)			
<i>General</i>	11 (8.33)	7 (11.67)			
<i>Poor</i>	1 (0.76)	0 (0.00)			
Delivery mode of friends, family			2	17.144	< 0.001
<i>VD</i>	104 (78.79)	32 (53.33)			
<i>CD</i>	8 (6.06)	15 (25.00)			
<i>The two delivery methods are equal</i>	20 (15.15)	13 (21.67)			
Friend's advice			2	FE=9.988	0.004
<i>No recommendation</i>	95 (71.97)	49 (81.67)			

<i>Recommend VD</i>	37 (28.03)	8 (13.33)			
<i>Recommend CD</i>	0 (0.00)	3 (5.00)			
Doctor's advice			2	FE=7.271	0.019
<i>No recommendation</i>	120 (90.91)	55 (91.67)			
<i>Recommend VD</i>	12 (9.09)	2 (3.33)			
<i>Recommend CD</i>	0 (0.00)	3 (5.00)			
Social Support			2	FE=0.167	1
<i>Low</i>	10 (7.58)	5 (8.33)			
<i>Moderate</i>	117 (88.63)	53 (88.34)			
<i>High</i>	5 (3.79)	2 (3.33)			

χ^2 - Chi-Square test, CD - caesarean delivery, CDMR - caesarean delivery on maternal request, df - degrees of freedom, FE - Fisher's exact test, NVD - normal vaginal delivery, VD - vaginal delivery.

Table S2. Multivariate logistic regression analysis for predictors of CDMR (n=192)

Factors	β	Wald	OR	95% CI		P value
				Lower	Upper	
Previous mode of delivery						
<i>Vaginal delivery</i>						reference
<i>Caesarean section</i>	3.244	4.311	25.642	1.199	548.221	0.03
<i>No previous delivery</i>	0.395	0.08	1.484	0.096	22.969	0.77
Preference of delivery mode						
<i>No clear preference</i>						reference
<i>Vaginal delivery</i>	-1.177	2.657	0.308	0.075	1.269	0.1
<i>Caesarean section</i>	1.84	6.133	6.295	1.468	26.995	0.013

β - regression coefficient, CI - confidence interval, NICU - neonatal intensive care unit, OR - odds ratio.

Table S3. Multivariate logistic regression analysis of birth outcome with CDMR (n=192)

Characteristics	β	Wald	OR	95% CI		P value
				Lower	Upper	
I. Maternal birth outcomes						
Any other (chronic/wound pain)						
No						reference

<i>Yes</i>	3.747	47.565	42.374	14.612	122.887	< 0.001
II. Neonatal birth outcomes						
Breast feeding difficulties						
<i>No</i>						reference
<i>Yes</i>	2.44	12.157	11.469	2.91	45.2	0.001
NICU admission						
<i>No</i>						reference
<i>Yes</i>	-1.315	4.159	0.268	0.076	0.95	0.04

β - regression coefficient, CI - confidence interval, NICU - neonatal intensive care unit, OR - odds ratio.