

Supplementary Table 1. Baseline characteristics of the enrolled women

	Induced labor (n = 192)	Spontaneous labor (n = 8)
Maternal age, year	31.16± 3.31	28.13± 2.90
Parity		
Nulliparity	159 (82.8)	8 (100.0)
Parity=1	33 (17.2)	0 (0.0)
Maternal height, cm	162.40± 5.17	163.00± 6.19
Gestational age at delivery		
37 weeks 0 days to 37 weeks 6 days	3 (1.6)	1 (12.5)
38 weeks 0 days to 38 weeks 6 days	18 (9.4)	0 (0.0)
39 weeks 0 days to 39 weeks 6 days	69 (35.9)	1 (12.5)
40 weeks 0 days to 40 weeks 6 days	95 (49.5)	6 (75.0)
41 weeks 0 days to 41 weeks 6 days	7 (3.6)	0 (0.0)
Reason for induction		
Beyond 40 weeks of gestational age	69 (35.9)	5 (62.5)
Pre-gestational or gestational diabetes mellitus	20 (10.4)	1 (12.5)
Hypertensive disorders in pregnancy	5 (2.6)	0 (0.0)
Other maternal factors	16 (8.3)	0 (0.0)
Oligohydramnios	35 (18.2)	0 (0.0)
Premature rupture of membranes	17 (8.9)	2 (25.0)
Other fetal factors	5 (2.6)	0 (0.0)
Maternal request	25 (13.0)	0 (0.0)
Bishop score, median (IQR)	4.00 (4.00, 5.00)	5.00 (5.00, 6.00)
Cervical length, cm	1.72± 0.87	1.13± 0.55
Fetal station, cm	-1.72± 0.78	-1.35± 0.56
Cervical position		
Anterior	1 (0.5)	0 (0.0)
Central	156 (81.3)	8 (100.0)
Posterior	35 (18.2)	0 (0.0)
Cervical consistency		
Soft	42 (21.9)	1 (12.5)
Medium	148 (77.1)	7 (87.5)
Hard	2 (1.0)	0 (0.0)

Data are presented as n (%) or mean ± standard deviation unless otherwise specified.

Abbreviations: IQR, interquartile range.

Supplementary Table 2. Univariate and multivariable analyses of VD24 in nulliparous women

Variables	Univariate		Multivariable	
	Odds ratio (95% CI)	P-value	Odds ratio (95% CI)	P-value
Cervical length, cm	0.13 (0.06, 0.29)	<0.001	0.30 (0.11, 0.81)	0.018
Fetal station, cm	9.09 (4.16, 19.86)	<0.001	4.43 (1.63, 12.04)	0.003
Cervical position				
Posterior	Ref		Ref	
Central	1.29 (0.52, 3.18)	0.580	1.86 (0.53, 6.55)	0.333
Anterior	-	-	-	-
Cervical consistency				
Soft	Ref		Ref	
Medium	0.64 (0.28, 1.48)	0.298	0.81 (0.27, 2.42)	0.705
Hard	-	-	-	-
Bishop score	1.22 (0.90, 1.66)	0.197		

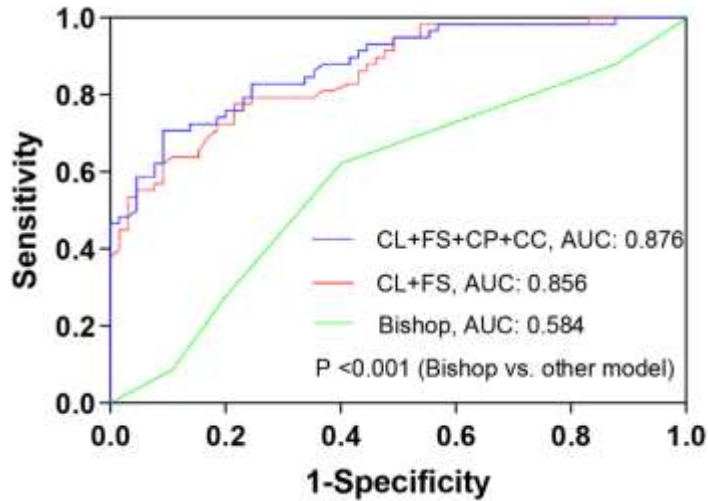
Abbreviations: VD24, vaginal delivery within 24 hours of induction of labor onset; CI, confidence interval.

Supplementary Table 3. Univariate and multivariable analyses of VD24 in women with intact membranes

Variables	Univariate		Multivariable	
	Odds ratio (95% CI)	P-value	Odds ratio (95% CI)	P-value
Cervical length, cm	0.20 (0.11, 0.36)	<0.001	0.45 (0.21, 0.99)	0.046
Fetal station, cm	7.35 (3.70, 14.57)	<0.001	4.24 (1.80, 9.97)	0.001
Cervical position				
Posterior	Ref		Ref	
Central	1.98 (0.80, 4.89)	0.138	0.94 (0.30, 2.96)	0.915
Anterior	-	-	-	-
Cervical consistency				
Soft	Ref		Ref	
Medium	0.50 (0.23, 1.10)	0.085	1.10 (0.41, 2.91)	0.855
Hard	-	-	-	-
Bishop score	1.29 (0.97, 1.71)	0.085		

Abbreviations: VD24, vaginal delivery within 24 hours of induction of labor onset; CI, confidence interval.

Supplementary Figure 1. Receiver operating characteristic curves for modified cervical assessment models and the Bishop score in nulliparous women. Abbreviations: AUC: area under the curve; CL: cervical length; FS: fetal station; CP: cervical position; CC: cervical consistency.



Supplementary Figure 2. Receiver operating characteristic curves for modified cervical assessment models and the Bishop score in women with intact membranes.

Abbreviations: AUC: area under the curve; CL: cervical length; FS: fetal station; CP: cervical position; CC: cervical consistency.

