

Supplementary Online Content

Esplin MS, Elovitz MA, Iams JD, et al; for the nuMoM2b Study. Predictive accuracy of serial transvaginal cervical lengths and quantitative vaginal fetal fibronectin levels for spontaneous preterm birth among nulliparous women. *JAMA*. doi:10.1001/jama.2017.1373

eTable 1. Baseline Characteristics for Women With and Without Pregnancy Outcome Data Available

eFigure 1. Sensitivity and Specificity for Visit 3 Cervical Length Cutoffs Predicting Spontaneous Preterm Birth <37 Weeks' Gestation

eFigure 2. Sensitivity and Specificity for Visit 3 Fetal Fibronectin Cutoffs Predicting Spontaneous Preterm Birth <37 Weeks' Gestation

This supplementary material has been provided by the authors to give readers additional information about their work.

eTable 1

Baseline Characteristics for Women With and Without Pregnancy Outcome Data Available

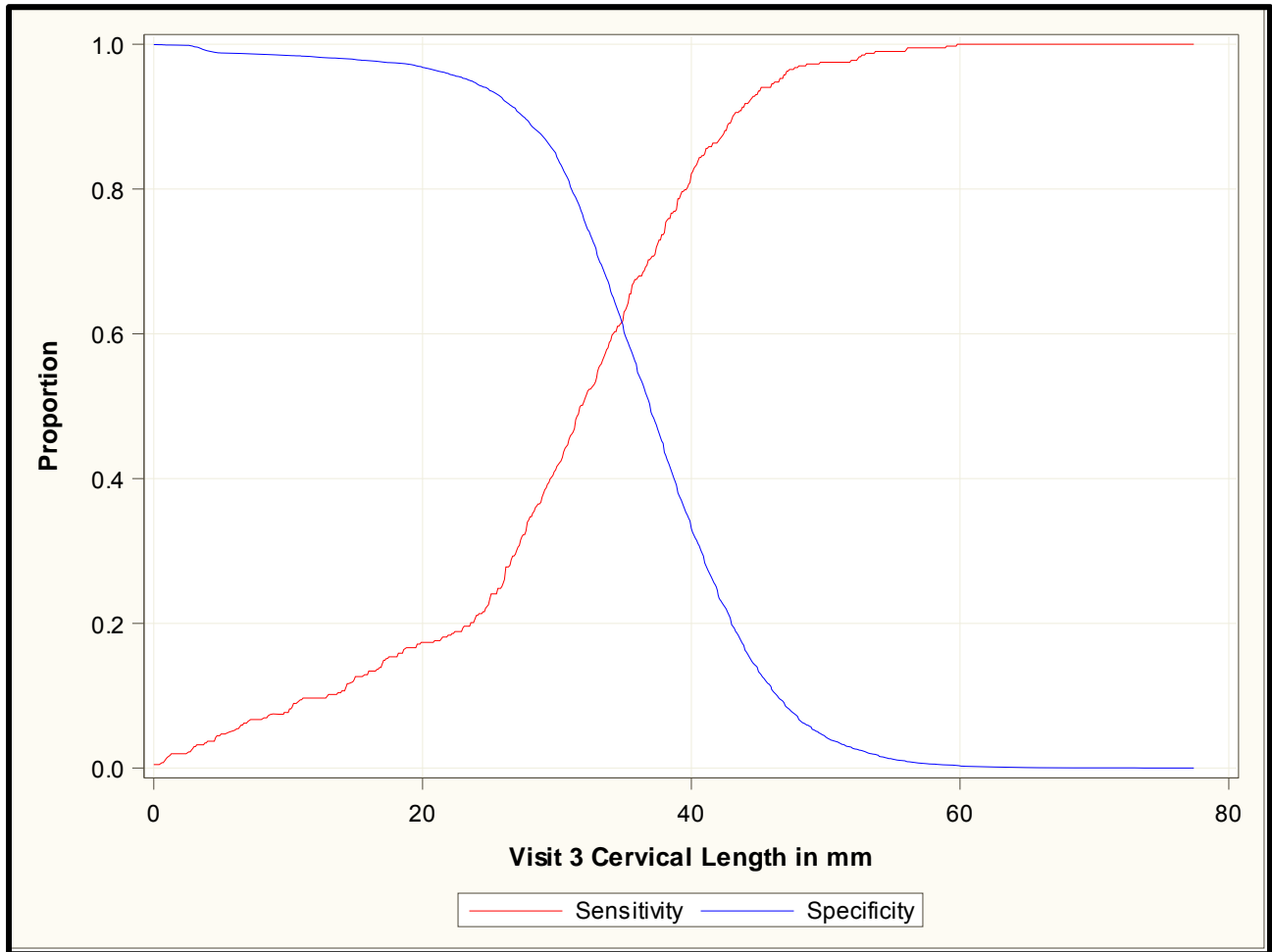
Baseline Characteristics	Outcome Data Available (N = 9,579)	Outcome Data Unavailable (N = 459)	P-value ^a
Maternal age, in years			
Median (IQR)	27.0 (9.0)	26.0 (9.0)	P<.001
Category: n (%)			0.002
13-21	2,007 (21.0)	126 (27.9)	
22-35	6,926 (72.3)	296 (65.5)	
>35	643 (6.7)	30 (6.6)	
Maternal race/ethnicity: n (%)			P<.001
White Non-Hispanic	5,779 (60.3)	210 (46.5)	
Black Non-Hispanic	1,332 (13.9)	86 (19.0)	
Hispanic	1,599 (16.7)	101 (22.3)	
Asian	383 (4.0)	24 (5.3)	
Other	483 (5.0)	31 (6.9)	
BMI, in kg/m²			
Median (IQR)	24.6 (7.2)	24.6 (7.0)	0.26
Category: n (%)			0.37
<25	4,972 (53.0)	223 (52.1)	
25 to <30	2,326 (24.8)	118 (27.6)	
≥30	2,086 (22.2)	87 (20.3)	
Gravidity: n (%)			0.99
1	7,104 (74.2)	334 (73.9)	
2	1,829 (19.1)	87 (19.2)	
3+	643 (6.7)	31 (6.9)	
Smoked during 3 months prior to pregnancy: n (%)			0.24
Yes	1,693 (17.7)	89 (19.9)	
No	7,877 (82.3)	359 (80.1)	
Maternal education obtained: n (%)			0.004
less than high school	774 (8.1)	42 (9.3)	
completed high school or GED	1,111 (11.6)	60 (13.3)	
some college	1,833 (19.2)	115 (25.5)	
associate or technical degree	965 (10.1)	40 (8.9)	
completed college	2,663 (27.8)	109 (24.2)	
degree work beyond college	2,223 (23.2)	85 (18.8)	
Marital status: n (%)			P<.001
single, never married	3,729 (39.0)	216 (48.0)	
married	5,728 (59.9)	219 (48.7)	
widowed	8 (0.1)	0 (0.0)	
divorced	81 (0.8)	11 (2.4)	
separated	17 (0.2)	4 (0.9)	

Abbreviations: IQR = inter-quartile range; BMI = body mass index

^a P-values shown are from chi-square tests for outcome data availability and the categorical baseline characteristics and from Wilcoxon rank sum tests for outcome data availability and continuous baseline characteristics.

eFigure 1

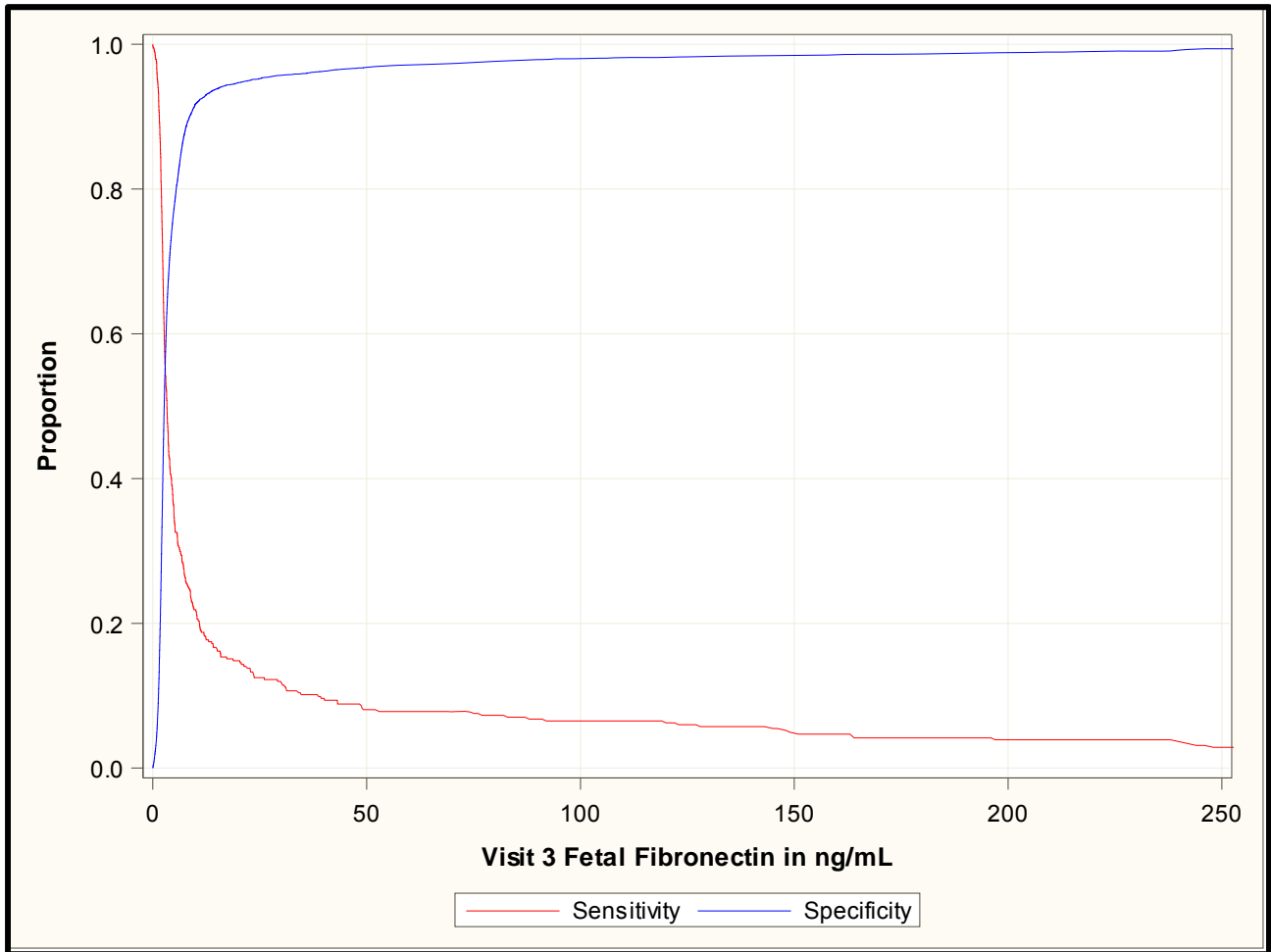
Sensitivity and Specificity for Visit 3 Cervical Length Cutoffs Predicting Spontaneous Preterm Birth <37 Weeks' Gestation



Sensitivity and specificity pairs for spontaneous preterm birth <37 weeks' gestation are shown over a range of cutoff values for cervical length, including all measurement obtained. Sensitivity is defined as the proportion with a cervical length \leq cutoff among women with spontaneous preterm birth <37 weeks' gestation. Specificity is defined as the proportion with a cervical length $>$ cutoff among women without spontaneous preterm birth <37 weeks' gestation. The ultrasound used for the cervical length measurement was taken at the nuMoM2b Visit 3, scheduled 22-30 weeks' gestation. At a cutoff of approximately 34.80, sensitivity equals specificity. At a cutoff of 31.70, sensitivity plus specificity is maximized.

eFigure 2

Sensitivity and Specificity for Visit 3 Fetal Fibronectin Cutoffs Predicting Spontaneous Preterm Birth <37 Weeks' Gestation



Sensitivity and specificity pairs for spontaneous preterm birth <37 weeks' gestation are shown over the range of cutoff values for fetal fibronectin, 0 to 250 ng/mL. Sensitivity is defined as the proportion of women with fetal fibronectin \geq cutoff among women with spontaneous preterm birth <37 weeks' gestation. Specificity is defined as the proportion of women with fetal fibronectin < cutoff among women without spontaneous preterm birth <37 weeks' gestation. The sample used for the fetal fibronectin assay was taken at the nuMoM2b Visit 3, scheduled 22-30 weeks' gestation. At a cutoff of approximately 2.880, sensitivity equals specificity. At a cutoff of 7.077, sensitivity plus specificity is maximized.