

# The role of cervical length measurement for preterm delivery prediction in women with cervical dilatation who present with threatened preterm labor Liran Hiersch, Eran Ashwal, Nir Melamed, Amir Aviram, Ron Bardin, Israel Meizner, Arnon Wiznitzer, Yariv Yogev



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## **OBJECTIVE**

To determine whether sonographic cervical length is an effective predictive tool in women with threatened preterm labor (PTL) and cervical dilatation.

#### MATERIALS AND METHODS

- A retrospective cohort study of all women with singleton pregnancies who presented with PTL at less than 34+0 weeks and underwent sonographic measurement of cervical length (2007-2012).
- The accuracy of cervical length in predicting preterm delivery (PTD), defined as delivery <37, <35 or <32 weeks of gestation or within 14 days from examination, was compared between women with (0.5-3cm) and without cervical dilatation.

# **RESULTS**

	Closed cervix group		Cervical dilatation group			
Outcome	Overall		Overall		<b>Cervical Dilatation ≥ 1cm</b>	
	N=792		N=276		N=201	
	OR (95%-CI)	P-value	OR (95%-CI)	P-value	OR (95%-CI)	P-value
Delivery <37+0 weeks	0.95 (0.93-0.96)	<0.001	0.93 (0.90-0.96)	<0.001	0.92 (0.89-0.95)	<0.001
Delivery <35+0 weeks	0.93 (0.91-0.95)	<0.001	0.93 (0.90-0.96)	<0.001	0.92 (0.88-0.96)	<0.001
Delivery <32+0 weeks	0.93 (0.90-0.97)	<0.001	0.95 (0.90-1.01)	0.10	0.93 (0.87-0.99)	0.04
Delivery within 14 days	0.93 (0.90-0.97)	<0.001	0.93 (0.89-0.97)	0.001	0.92 (0.87-0.96)	0.001

## CONCLUSION

Even in women presenting with threatened PTL and cervical dilatation, cervical length is an effective predictive tool for PTD.