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## Comparison of Bedside Test Kits for Prediction of Preterm Delivery: Actim Partus versus Fibronectin

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**Aim:** The objective of the study was to compare the effectiveness of bedside Actim Partus test versus Fibronectin test in predicting preterm delivery.

**Methods:** Patients with preterm labour between 24 to 34 weeks of gestation were recruited. Both Actim Partus and fibronectin bedside tests were performed. Tocolysis and steroid therapy were administered to all the recruited patients. Outcome data were collected after delivery.

**Results:** One hundred and eight patients were recruited into the study. Ninety-six patients had complete data for analysis. Among those with negative Actim Partus and fibronectin results, the mean ( $\pm$  standard deviation) gestational ages at delivery were 37.1 weeks ( $\pm$  2.1 weeks) and 36.9 weeks ( $\pm$  2.4 weeks), respectively. Among those with positive Actim Partus and Fibronectin results, the

mean ( $\pm$  standard deviation) gestational ages at delivery were 33.2 weeks ( $\pm$  4.0 weeks) and 33.8 weeks ( $\pm$  4.2 weeks), respectively ( $P < 0.001$  for both Actim Partus and fibronectin). The admission to delivery interval was 2.5 weeks shorter in the group with positive Actim Partus results (3.1 weeks compared with 5.6 weeks) ( $P < 0.001$ ). It is 2 weeks shorter in the groups with positive fibronectin results (3.4 weeks compared with 5.4 weeks) ( $P = 0.005$ ). Both Actim Partus and fibronectin tests have high negative predictive value in predicting risk of delivery within 48 hours, 7 days or 14 days (0.97; 0.90; 0.90 and 0.94; 0.87; 0.87 respectively).

**Conclusion:** Both Actim Partus and fibronectin tests are effective adjuvant bedside test kit for the prediction of preterm delivery in patients presenting with signs or symptoms of preterm delivery.

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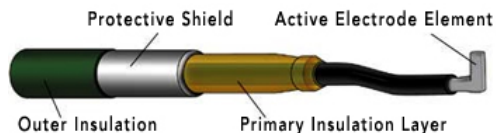
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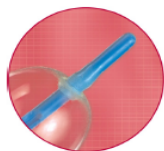


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