

## عنوان مقاله:

The association between umbilical cord coiling index and prenatal outcomes

## محل انتشار:

اولین کنگره بین المللی پریناتالوژی، هفتمین کنگره سراسری پریناتالوژی و نئوناتالوژی (سال: 1398)

تعداد صفحات اصل مقاله: 2

## نویسنده:

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## خلاصه مقاله:

**Objectives:** This study was conducted to measure the umbilical cord indices (UCI) after birth and to determine its relationship with prenatal complications. **Patients and Methods:** This is an analytic cross - sectional study which was conducted on all pregnant women admitted in Al-Zahra Hospital, Rasht. After birth, the umbilical cord was measured in terms of appearance, number of vascular coils and the umbilical cord length, and the umbilical cord vascular coils index was calculated. Maternal and neonatal variables were evaluated. **Results:** Among 397, the mean number of umbilical cord coils, umbilical cord length and the umbilical cord coiling index were obtained as  $16.02 \pm 4.48$ ,  $51.6 \pm 12.0$  cm and  $0.31 \pm 0.05$ , respectively. In evaluating the state of coil, 9.8% were hypocoil and 10.3% hypercoil, and the rest, 79.85% were normocoil. A significant difference was seen between the umbilical cord coiling index with gestational hypertension and abnormal fetal heart rate ( $P < 0.05$ ). In the final logistic regression model, the umbilical cord length was recognized as a predictor variable for neonatal complications. Also, in multiple analyses of the effects of umbilical cord coiling index on neonatal complications by controlling the interferences, in addition to the coil length, the variables such as maternal age and parity were considered as predictors of neonatal complications. **Conclusion:** The abnormal umbilical cord coiling index was associated with pregnancy blood pressure and abnormal fetus heart rate. Therefore, the diagnosis of antenatal umbilical cord coiling index can be helpful in the recognition of embryos at risk through their faster treatment process.

## کلمات کلیدی:

Umbilical cord, coiling index, prenatal, pregnancy outcomes

## لینک ثابت مقاله در پایگاه سیویلیکا:

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