



Maternal PARK7 (DJ-1) levels and the preterm premature rupture of membranes: Correspondence

Maternal PARK7 (DJ-1) seviyeleri ve erken membran rüptürü: Yazışma

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Anahtar Kelimeler: PARK7 (DJ-1), membran preterm erken yırtığı, anne

Dear Editor,

We would like to share ideas on the publication “The association between increased maternal Parkinson disease protein 7 (PARK7) (DJ-1) levels and the occurrence of preterm premature rupture of membranes (PPROM) - A randomized prospective study⁽¹⁾.” Turhan and Tatar⁽¹⁾ concluded that “PARK7 is overexpressed in PPRM patients. Due to its anti-inflammatory and antioxidant properties, PARK7 may be a novel marker in better understanding the pathophysiology and prediction of the prognosis PPRM. Further large-scale studies are needed⁽¹⁾.” We agree that PARK7 might be useful for management of PPRM. However, as Turhan and Tatar⁽¹⁾ noted, further studies are required. Other obstetric complication such as pre-eclampsia also affect level of DJ-1⁽²⁾. Also, quality control in analysis of the DJ-1 is necessary. In clinical chemistry, different centrifugation condition can significantly affect measurement of DJ-19⁽³⁾. These factors are important considerations in using maternal DJ-1 as biomarker.

Ethics

Peer-review: Internally peer-reviewed.

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References

1. Turhan U, Tatar B. The association between increased maternal PARK7 (DJ-1) levels and the occurrence of preterm premature rupture of membranes - A randomized prospective study. Turk J Obstet Gynecol 2021;18:279-84.
2. Yang T, Yan J, Han Q, Zhang Q, Liao Q. Expression and significance of Parkinson disease protein 7 in placental, serum and umbilical cord blood in preeclampsia. Ginekol Pol 2020;91:764-8.
3. Salvesen L, Tanassi JT, Bech S, Pålhagen S, Svenningsson P, Heegaard NH, et al. The influence of preanalytical conditions on the DJ-1 concentration in human cerebrospinal fluid. Biomark Med 2014;8:387-94.

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