BioNanoScience 2017 vol.7 N2, pages 360-362

The Possibilities Given by First Trimester Prenatal Screening Data, Uterine Arteries Pulsation Index, and Regulatory Autoantibodies in Predicting Intrauterine Growth Restriction in Females

Zamaleeva R., Cherepanova N., Frizin D., Abachev A., Bukatina S. Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

© 2016, Springer Science+Business Media New York.A combined analysis of pregnancyassociated plasma protein-A (PAPP-A) values, human chorionic gonadotropin, and pulsation index of the uterine arteries was performed as part of a first trimester and serum content of eight regulatory autoantibodies screening. It was found that including autoantibodies to insulin, PAPP-A, and collagen into the analysis significantly improved the sensitivity and specificity of the prognosis and could be employed to form an intrauterine growth restriction (IUGR) risk group.

http://dx.doi.org/10.1007/s12668-016-0367-x

Keywords

Autoantibodies, HCG, Intrauterine growth restriction, PAPP-A, Pulsation index

References

- Goetzinger, K. R., Singla, A., Gerkowicz, S., et al. (2009). The efficiency of first-trimester serum analytes and maternal characteristics in predicting fetal growth disorders. American Journal of Obstetrics and Gynecology, 201(4), 412-416.
- [2] Savelyeva, G.M., Bugerenko, E.Y., Panin, O.B. (2013) Prognostic significance of violations of utero-placental circulation in the I trimester of pregnancy in patients with a history of obstetric history. Bulletin of Medical Sciences. - 2013. - № 7. - S. 4-8.2. -T. 10. - P. 62-67.
- [3] Dugoff, L., Lynch, A. M., Cioffi-Ragan, D., et al. (2005). First trimester uterine artery Doppler abnormalities predict subsequent intrauterine growth restriction. American Journal of Obstetrics and Gynecology, 193(3), 1208–1212.
- [4] Poon, L. C., Stratieva, V., Piras, S., et al. (2010). Hypertensive disorders in pregnancy: combined screening by uterine artery Doppler, blood pressure and serum PAPP-A at 11-13 weeks. Prenatal Diagnosis, 30(3), 216–223.
- [5] Poletaev, A., & Osipenko, L. (2009). General network of natural autoantibodies as immunological homunculus (Immunculus). Autoimmunity Review, 2(5), 264–271.