



Advantages and Limitations of utilizing Clostridium species as Probiotics-A Systematic Review

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Abstract:

Aim: To validate a protocol for noninvasive fetal sex determination in maternal plasma and demonstrate its applicability to clinical practice.

Method: Peripheral blood from 318 pregnant women was collected from 7 to 12 weeks of gestation. Real-time PCR was performed for multicopy DYS14 marker sequence located within the TSPY gene by the TaqMan probe assay. An exogenous spiked-in amplification/ detection system was also used as a positive control for the extraction process. A diagnostic algorithm was designed using a combination of these two markers. Fetal gender determined by noninvasive prenatal diagnosis (NIPD) was compared with ultrasound results. The Fisher exact test (two-sided) was used to determine sensitivity and specificity with 95% confidence intervals (CIs).

Results: A single false-positive result was obtained in all 318 pregnancies. The overall sensitivity and specificity were 100% (95% CI 97.7-100%) and 99.3% (95% CI 96.4-99.9%), respectively. Pregnancy outcome was obtained in all cases, including 154 male-bearing and 164 female-bearing pregnancies.

Conclusions: Primer Design Y-chromosome detection kit for fetal sex determination in plasma of early weeks pregnant is highly accurate and clinically applicable if robust reporting criteria are applied.

Key Words: fetal sex determination; Y-chromosome detection kit; Real-Time PCR

Biography:

Zara Wasim Haidi has done her degree in the University of Tehran, Iran



Recent Publications:

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