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Vaginal Microbiome of Women with Unexplained Recurrent Miscarriages vs. Fertile

Abstract:

Having knowledge of a balanced vaginal microbiome is very helpful in preventing women's diseases and maintaining their reproductive health, and therefore, to obtain vital information on this matter, it is necessary to know the bacterial strains that create this balance. In the present study, the vaginal flora of two groups of women with recurrent abortions (RA) and one group without a history of abortions was compared. Samples were taken from the vaginal wall of 30 patients with RA without a known cause and 30 healthy volunteers, and after culturing in the primary liquid medium and extracting bacteria by the kit, the genus and species of bacteria in the samples were determined by PCR and genus-specific primers. The species was identified by comparison with the bacterial 16S ribosomal RNA gene.

Analysis of real-time PCR data showed that the bacterial population structure is significantly different between the RA group and the control group. The frequency of three strains (*gasseri*, *fermentum*, and *vaginalis*) in the control group, and the high frequency of four strains (*ruminis*, *acidophilus*, *iners*, and *rhamnosus*) in the RA group had a significant difference.

In conclusion, the present results provide experimental evidence of vaginal flora imbalance in Iranian women with recurrent abortions. In order to better understand the unknown causes of the disease, it is necessary to compare and understand the difference in vaginal flora among a larger population of women of reproductive age (healthy and with a history of abortion) and with controlled nutritional and stress patterns.

Biography:

F. Poursmaeilia spent her undergraduate study in Tehran University in Biology and Master Degree in Tarbiat Modares University in Genetics, both Tehran-Iran's. She was later successfully graduated with PhD degree in Molecular Genetics and Molecular Biology from McGill University, Montreal-Canada, and year 1997. Her specific concern is Reproductive Genetics, in particular Women's health like POF, PCOS, and Reproductive Cancer genetics that she would like to follow in an interdisciplinary cooperation in the future. She welcomes any collaboration with the ones who are interested in the above fields.

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