The role of single-nucleotide polymorphism chromosomal microarray analysis in evaluation of early pregnancy loss: a prospective study

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Background
The role of DNA microarray in evaluation of spontaneous abortion is not clear so far. Therefore we conducted a prospective study to identify chromosomal abnormalities in spontaneous abortion using a high-resolution single-nucleotide polymorphism-based microarray (SNP-array) platform.

Methods
- Prospective observational study
- 64 fresh specimens of products of concept from patients with spontaneous abortion
- November 2017 - July 2018 at Seoul St. Mary’s hospital
- Conventional karyotyping and SNP-array analysis (HumanCytoSNP-12SNP array)

Results of analysis by SNP array

Conclusion
Combination of conventional karyotyping and SNP-array will be helpful in the identification of genetic causes and chromosomal abnormalities in early pregnancy loss.