9th Yazd International Congress and Student Award on Reproductive Medicine with 4th Congress of Reproductive Genetics

Key Lectures

K-83
Personalized medicine in infertile men

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As in all fields of medicine, each patient has different details in male infertility. Treatments made without taking these details into account are more likely to fail. Today, widely used approaches in the world are generally in the form of applying some close-to-standard procedures that the centers have created for them to the patients. Such approaches are effective on a certain number of patients, but other groups cannot be successful despite repetitive procedures.
Today, thanks to the developing genomic technologies, it is possible to examine thousands of genes and copy number changes in humans at the same time. Considering that hundreds of factors in infertility have entered the literature so far, conducting extensive research is an indispensable need for most patients. The genetic change detected in some of these patients changes the treatment algorithm of the patient significantly, and in some patients, diagnoses that are not possible to treat can be made. In particular, patients in this last group are exposed to repeated in vitro fertilization or other medical practices, even though they have no hope of treatment, and lose time and money.
Although genetic tests were often put at the end of the list of studies to be carried out in infertility practices in recent years, due to the high cost of genetic tests, it is possible to move forward in the examination order due to the fact that these applications have gradually lower costs. One of the most important stages of personalized medicine applications is to evaluate the patient with large genetic panels and to evaluate the effects of other diseases related or unrelated to infertility with very wide eyeglasses.