

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

Key Lectures

K-66

Pharmacogenomics in infertility

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With 80 million couples worldwide having difficulty to conceive a child naturally, infertility sounds to be a real serious medical issue that requires a great attention. Despite the carried out studies and the great efforts to understand this problem, there is still a gap between our current knowledge/capabilities and the available

options for the treatment. One possible reason for such a gap may be related to factors other than advanced maternal age, ovarian reservation, cigarette smoking, and hormonal changes. Pharmacogenetics is a relatively new approach that has been considered to fill in this gap, and utilized to develop personalized therapies. The main aim of pharmacogenetics is to study the genetic variations in order to optimize the success and minimize adverse effects of drugs. Therefore, the approach has been used to study the molecular changes in various biochemical markers involved in reproduction. It is being put forward as an alternative to the “one-size-fits-all” approach that has been ineffective in many conditions.