





# Increasing Risk of Breast Cancer in IVF Cases

Dariush D. Farhud<sup>1, 2\*</sup>

School of Public Health, Tehran University of Medical sciences, Tehran, Iran

## Abstract:

the increase rate of infertility, the referral rate to infertility treatment centers has also increased. Nowadays, assisted reproductive technology (ART) is used to treat this problem. Considering the possible future implications for mothers who are treated with in-vitro fertilization (IVF) and the offspring as the end product of this method, extensive researches have been conducted in this regard. According to some researches, there is speculation about the increased risk of cancer in mothers and their offspring. In in-vitro fertilization (IVF), drugs such as Clomiphene citrate and gonadotropins are used to stimulate and mature follicles and thus increase ovulation. Based on studies, the long-term use of these drugs can increase estrogen hormones and cause excessive expression of genes, resulting in an increased risk of breast cancer. Breast cancer is one of the most common cancers among women, which is mostly hereditary and afflicted with high and growing severity.

In this article, we are referring to and collecting more than one hundred articles worldwide, which followed the hypothesis that the use of IVF drugs can lead to breast cancer, and our findings completely confirm this. With this in mind, mothers who are going to have infertility treatments should be individually evaluated "personalized medicine" and family history of breast cancer, must be considered prior to treatment.

### **Biography:**

Shaghayegh Zokaei is a researcher at Farhud Genetic Clinic. She holds a BSc in genetic molecular biology at



Islamic Azad University, Tehran Medical Branch. She has been working since 2018 as a trainee in Farhud Genetic Clinic at cytogenetic department, and successfully passed a complete cytogenetic and genetic counselling courses in Prof. Farhud Genetic Clinic. She also has been an employee in research department since June 2018, and submitted several papers to international journals and conferences.

## Publication of speakers:

- 1. Calderon-Margalit R, Friedlander Y, Yanetz R, Kleinhaus K, Perrin M, Manor O, et al. Cancer risk after exposure to treatments for ovulation induction. American journal of epidemiology. 2008; 169(3):365-75.
- 2. Reigstad MM, Larsen IK, Myklebust TÅ, Robsahm TE, Oldereid NB, Omland AK, et al. Risk of breast cancer following fertility treatment—A registry based cohort study of parous women in N orway. International journal of cancer. 2015; 136(5):1140-8.
- 3. Burkman RT, Tang M-TC, Malone KE, Marchbanks PA, McDonald JA, Folger SG. Infertility drugs and the risk of breast cancer: findings from the National Institute of Child

#### Global Summit On Oncology and Breast Cancer | March 05-06, 2020 | Vienna, Austria

**Citation:** Dariush D. Farhud, Shaghayegh Zokaei, Mohammad Keykhaei, Mehdi Hedayati, Marjan Zarif Yeganeh Increasing Risk of Breast Cancer in IVF Cases | Oncology and Breast Cancer 2020, March 05-06, 2020 | Vienna, Austria