

## ***9<sup>th</sup> Yazd International Congress and Student Award on Reproductive Medicine with 4<sup>th</sup> Congress of Reproductive Genetics***

---

### **Key Lectures**

---

#### **K-69**

#### **Covid 19, Vaccines and infertility**

**Biglari A.**

*Department of Genetics and Molecular Medicine, School of Medicine, Zanzan University of Medical Sciences (ZUMS), Zanzan, Iran.*

**Email:** biglari@zums.ac.ir, biglari63@hotmail.com

ACE2-based changes in the testicles, hormonal changes in patients, and the possible formation of antisperm antibodies (ASA) can cause male infertility as a complication of coronavirus infection. Although some studies have shown abnormalities in spermatogenesis

and sperm motility, there is still no evidence of long-term persistence of these disorders as chronic complications of the disease.

Also, after the availability of the vaccine against this virus, the possibility of the vaccine affecting the fertility of men and women has been considered. In the case of female infertility, one cause for concern is the presence of a protein called syncytine 1, which is similar to part of the new corona virus spike. It is claimed that corona vaccines can produce antibodies against syncytine 1 and cause infertility in women. Further studies will be needed to conclude, which will be discussed in this article.