

Evaluation frequency of complications observed in people vaccinated with "Sputnik V" vaccine in Ardabil province in 1399.

Abstract:

Background: The new coronavirus, severe acute respiratory syndrome type 2 (SARS-COV2), killed more than one million people in the first six months of the pandemic and caused huge economic and social problems and changes internationally. An effective vaccine is definitely needed to prevent further deaths. To date, using multiple platforms, 44 Covid 19 candidate vaccines are in the clinical development stage and 151 vaccines are in the pre-clinical development stage. During this unprecedented pandemic, vaccine production has been time-dependent and extensive efforts are being made to evaluate vaccines. The cost of designing and producing vaccines is very high and is dominated by international policies. Although some countries may develop vaccines solely on the basis of immunogenicity and safety criteria, the primary purpose of vaccine development is to provide direct evidence of vaccine efficacy in protecting humans against SARS-COV2 and COVID-19 infection. Scientific evaluation and evaluation of the vaccine is needed to show that the benefits of the vaccine in protecting people from disease far outweigh the potential risk. Like all medicines, vaccines can have both side effects and side effects. The glycoprotein S gene is located in the adenovirus genome, so the adenovirus has an antigen on its surface that stimulates the immune system. The aim of this study was to evaluate the side effects observed after injection of Sputnik V vaccine in vaccinated individuals in Ardabil province.

Aim: Determining the frequency of complications observed in people vaccinated with "Sputnik V" vaccine in Ardabil province in 1399

Materials and Methods: Demographic factors such as age and sex, history of drug use, general side effects including respiratory, gastrointestinal and neurological complications and local side effects such as pain, swelling, redness, muscle spasm as well as the onset time and duration of complications in the questionnaire prepared from Vaccinated groups were registered after informed consent.

Results: Among the general complications, body pain had the highest rate with 65.4% and heart rate had the lowest rate with 1.71%. In terms of respiratory complications, sore throat and burning sensation in the throat with 8.3% had the highest rate and runny nose with 3.9% had the lowest. Among gastrointestinal complications, nausea with 13.4% has the highest rate and vomiting with 0.2% has the lowest rate. In terms of local complications at the injection site, injection

site pain was the highest with 50.5% and axillary pain on the injection side was the lowest with 3.9%.

Conclusion: Side effects of the Sputnik V vaccine are usually mild to moderate and acceptable. On the other hand, this vaccine provides good immunogenicity. Accordingly, the use of this vaccine seems appropriate and safe.

Keywords: Sputnik V vaccine, Side effects, Covid-19