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VACCINATION AGAINST CORONAVIRUS INFECTION IN FERGANA REGION FOR THE PERIOD 2021-2022

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Article history:		Abstract:
Received:	December 11 th 2022	Immunization is one of the key components of primary health care, and the
Accepted:	January 11 th 2023	right to immunization is an inalienable human right. Vaccines are also crucial
Published:	February 20 th 2023	for preventing and suppressing outbreaks of infectious diseases. They are at the heart of global health security and will remain a vital tool in the fight against antimicrobial resistance

Keywords: vaccination, booster, pandemic, Ferghana region.

The 2019 coronavirus disease (Covid-19) pandemic has claimed about 15 million lives worldwide. The rapid development of several Covid-19 vaccines has been a triumph for biomedical research, with billions of doses of the vaccine being administered around the world. Existing vaccines may not provide sustained high levels of protection against omicron challenge or transmission, even after multiple booster vaccinations and after the introduction of updated omicron-specific vaccines. Thus, recommendations for booster therapy should consider not only peak neutralizing antibody titers, but also long-term prevention of severe Covid-19 disease. Such protection is likely to require a combination of humoral and cellular immunity, with an emphasis on long-term rather than short-term immune response. However, to date, the research area has mainly focused on short-term neutralizing antibody responses. Revaccination plans should be based on sound scientific evidence that shows a significant and sustained improvement in the prevention of serious illness, and not on a short-term increase in neutralizing antibody titers. Ideally, Covid-19 boosters should be recommended no more than once a year, and preferably less frequently, and a variety of booster options should be available to the public. The use of vaccine platforms with increased durability is highly desirable.

In the Ferghana region, for the entire period of the pandemic until October 2022, 2,171,208 people (67.9%) over 18 years of age were vaccinated, 1,641,024 people (76%) received a full course, 1,582,485 (96.4%) received a booster dose. Of these, people over 50 years of age accounted for 93.3%, medical workers - 92.8%, teachers - 76.2%, employees of preschool institutions - 81.1%, people with chronic diseases - 65.7%, other 52.8% .

131,146 children aged 12 to 18 were vaccinated, of which only 53,203 received a booster dose, which is 40.6%.

If we consider in the context of cities and districts of the Fergana region, out of all 67.9% of people over 18 years of age covered by vaccination, the largest percentage falls on the districts of Uzbekistan 80.3%, Altaryk 77.8%, Sokh 77.7%. The smallest number of vaccinated is in the city of Ferghana - 57.4%, Buvaidu district - 54.6%.

In children from 12 to 18 years old, low rates of booster vaccination in the districts of Tashlak 13.2%, Uchkuprik 13.1%, the city of Kuvasay were not vaccinated among children.

The percentage of different types of vaccines: the total number of vaccinated 1641024 persons, of which 129050 persons were vaccinated with the Astra Zeneka vaccine (7.9%), 176759 persons were vaccinated with the Pfizer vaccine (10.8%), 956450 persons were vaccinated with the ZF-UZvac vaccine (58.2%). %), 149,184 persons were vaccinated with the Moderna vaccine (9.1%), 136,200 persons were vaccinated with the Sinovac vaccine (8.3%), 174,065 persons were vaccinated with the Sputnik vaccine (4.5%), 193,166 persons were vaccinated with the Sputnik light vaccine (1.2%).

CONCLUSIONS:

In some regions of the region, booster vaccination among people over 50 years old, employees of preschool institutions, people with chronic diseases does not reach 50%, among the rest of the population, the indicator of the region is 52.8%.

Booster vaccination among children aged 12-18 was carried out only by 40.6%, and in the city of Kuvasay it was not carried out at all, which leaves the risk of possible outbreaks of coronavirus among the child population, with the possibility of epidemic outbreaks in certain regions.

Although vaccination rates in the Ferghana region are close to the 70% threshold, and booster vaccination in the region is 96.4% to achieve herd immunity, attention should be paid to the low percentage of vaccination of children 12-18 years old, as well as the general population.



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In some districts of the Fergana region, vaccination coverage does not reach 70% of the threshold for creating herd immunity, which leaves the risk of epidemic outbreaks in these regions.

The data of the statistical report for the period 2021-2022 allow us to draw the following conclusion: the promotion of vaccination is a priority task for every medical worker. It is necessary to increase medical literacy about the benefits and effectiveness of vaccines, to warn the public about the dangers of antivaccination campaigns that are widely distributed on the Internet.

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