

¹Zhakeyeva Zh.M.*, ¹Adyrbekova G.T., ²Kashkarov A.A.

¹senior lecturers of M.Auezov SKU, Shymkent, Kazakhstan

¹senior lecturers of M.Auezov SKU, Shymkent, Kazakhstan

²candidate of agricultural sciences, senior lecturer Kazakh Agrotechnical University named after S.Seifullin, Astana, Kazakhstan

EVERYONE MAKES THEIR OWN DECISION ABOUT VACCINATION

Corresponding – author: zhzhakeeva@mail.ru

Abstract: The article describes the current pandemic of coronavirus infection caused by the SARS-CoV-2 coronavirus and it has spread all over the world. The outbreak was first reported in Wuhan, in China, in December 2019 on January 30, 2020. The World Health Organization declared the outbreak an international emergency and declared it a pandemic on March 11. As of April 20, 2021, more than 143 million cases have been reported worldwide; more than 3 million people have died and more than 121.7 million have recovered, according to WHO - the World Health Organization. In Kazakhstan, as the mass media write, over the past day /May 20, 2021/ in Kazakhstan, 2267 patients with positive PCR for coronavirus infection were identified. Since February of this year, Kazakhstan has been actively vaccinating the population with the Russian drug Sputnik V. In the reminder of vaccinated people, Gam-COVID-Vac-2020 («Sputnik V» - the trade name of the drug), it is said that 5.7 percent of people experience fever, chills, headache, and body aches. Weakness and malaise, nausea - in ten percent. There may be pain and itching at the injection site, as well as nasal congestion and sore throat. These are individual reactions that take place after one, at most three days. The Gamalea vaccine does not contain the COVID-19 pathogen, so it cannot cause the disease. Contraindications to the introduction of the vaccine, contraindications for the introduction of component II are listed.

Key words: viruses, replication, mutations, hepatitis, capsid, bacteria, HIV virus, proteins, vaccine, myocardial infarction, death, emergency.

Introduction. The current pandemic of coronavirus infection caused by the SARS-CoV-2 coronavirus and it has swept the whole world. The outbreak was first reported in Wuhan, in China, in December 2019. On January 30, 2020 the World Health Organization declared the outbreak an international emergency and declared it a pandemic on March 11. As of April 20, 2021, more than 143 million cases have been reported worldwide; more than 3 million people have died and more than 121.7 million have recovered, according to WHO - the World Health Organization.

In Kazakhstan, as the mass media write, over the past day /May 20, 2021/ in Kazakhstan, 2267 patients with positive PCR for coronavirus infection were identified. By region: Nur-Sultan city - 351, Almaty city - 521, Shymkent city - 74, Akmola region - 134, Aktobe region - 68, Almaty region - 179, Atyrau region - 119, East Kazakhstan region-94, Zhambyl region - 31, West Kazakhstan region - 102, Karaganda region-326, Kostanay region - 40, Kyzylorda region - 27, Mangystau region - 43, Pavlodar region the region - 93, the North Kazakhstan region - 29, the Turkestan region - 36. In total, 371015 cases were detected in the country.

Seven regions of Kazakhstan are in the «red» zone for coronavirus, reports MIA «Kazinform» with reference to the Telegram account of the Ministry of Internal Affairs.

According to the matrix for assessing the epidemiological situation in the regions of Kazakhstan as of May 21, 2021, the «red» zone includes the cities of Nur-Sultan, Almaty, Akmola, Atyrau, Aktobe, West Kazakhstan, and Karaganda regions. In the «yellow» zone: Shymkent, Almaty, Kostanay, Mangistau and Pavlodar regions. In the "green" zone: East Kazakhstan, Zhambyl, Turkestan, Kyzylorda regions and North Kazakhstan region.

«Since February of this year, Kazakhstan has been actively vaccinating the population with the Russian drug Sputnik V. Thanks to the assistance of Russia, the production of this drug has been established in our country. This is a vivid example of successful scientific and industrial cooperation. Such experience is quite possible to scale and implement in other industries, Kassym-Jomart Tokayev said, speaking at a meeting of the Supreme Eurasian Economic

Council. The Head of State added that Kazakhstan has developed a domestic vaccine in parallel. Thus, Kazakhstan became one of the ten countries that have their own vaccine. Clinical studies have proven its effectiveness and safety. At the same time, according to all forecasts, covid disease becomes seasonal.

Main part

As you know, currently Kazakhstanis are vaccinated exclusively with the Russian vaccine «Sputnik V». However, new vaccines will soon arrive in the country: Sputnik Light, China's Sinovac, and the issue of purchasing a Pfizer vaccine is also being resolved. And, finally, the tests of Kazakhstan's QazCovid-In vaccine should be completed in the summer.

The vaccine «Sputnik V» from COVID-19 was developed at the National Center of Epidemiology and Microbiology named after N. Gamalei in Moscow.

And the biotech company BIOCAD in St. Petersburg in its research laboratory produces the vaccine «Sputnik V».

Vaccines train the immune system to produce specific antibodies.

Here are the stories of people who live in the city of Shymkent and have been vaccinated. Make an injection into the arm muscle with a syringe. The injection site is a little sore, some have redness and itching, others do not.

Sputnik V is being introduced in two stages. First, a person receives the first dose with the adenovirus vector of serotype 26. After 21 days - the second dose is based on the adenovirus of the fifth serotype. This is done on purpose: if one of the doses worked poorly, because the body is immune to this type of adenovirus, then the second one is almost guaranteed to provide protection. The two-stage immunization scheme is well known in the world and is considered very effective.

In the media, according to the results of the first and second stage of clinical trials, scientists from the Gamalei Center named the following most common side effects: pain at the injection site, fever, headache, fatigue, muscle and joint pain. The temperature rises to 37-38.4 degrees, the maximum - to 38.5-38.9 degrees.

The first-and second-stage trials were conducted on 120 healthy people aged 18-60 years. All the side effects were mild, and no serious problems were noted. The results confirmed the safety of the vaccine based on human adenovirus vectors and gave grounds for its registration in Russia.

In the reminder of vaccinated people, Gam-COVID-Vac-2020 («Sputnik V» - the trade name of the drug), it is said that 5.7 percent of people experience fever, chills, headache, and body aches. Weakness and malaise, nausea - in ten percent. There may be pain and itching at the injection site, as well as nasal congestion and sore throat. These are individual reactions that take place after one, at most three days.

The Gamalea vaccine does not contain the COVID-19 pathogen, so it cannot cause the disease. If a person became ill after vaccination, it means that at the time of vaccination he was already infected, but because of the absence of symptoms he did not know about it.

If the infection occurred shortly before or on the day of vaccination, then tests conducted before that for the presence of coronavirus and antibodies to it may be negative.

The COVID-19 disease after the first vaccination is a coincidence, a consequence of the fact that a person was infected before vaccination, or caught the virus immediately after vaccination. The effectiveness of the Sputnik V vaccine is 91.4 percent, said Alexander Ginzburg, Director of the Gamalei Center, on the official website.

It is mandatory and strict to wear a mask after vaccination. Immunity is fully formed three weeks after the second dose of the vaccine (the 42nd day after the first injection). During this period, the person is not yet completely protected, so it is necessary to observe all preventive measures. In addition, the mask regime has been in effect on the territory of Kazakhstan since the end of October and no one has canceled it. Everyone should wear a mask in crowded places, regardless of whether a person has been vaccinated against COVID-19 or not.

A vaccinated person can get sick, but he will easily carry the disease. For 700 thousand vaccinated people, only 40 people fell ill. It's not even 1%, it's just a little bit! These are the data of the branch of the «Scientific and Practical Center for Sanitary and Epidemiological Expertise and Monitoring» of the Republic of Kazakhstan. In those who, due to their physiological characteristics, fell into this «percentage», the disease will pass in a much milder form: in the form of a runny nose, cough, possibly with a slight temperature. But the pathogen will not descend into the lungs.

There are cases when people have once had a coronavirus.

In general, there are about 800 cases of repeated coronavirus infection in Kazakhstan, and this is without vaccination.

First in line for the injection are health workers and vulnerable elderly people or those with serious chronic diseases.

The developers of the Russian vaccine used the so-called vector technology, when the delivery of the genetic material of one virus (in this case, SARS-CoV-2) uses the shell of another, from the family of adenoviruses that cause the common cold. This is a proven technology for developing vaccines over the years, for example, this is how the Ebola vaccine was made.

No, this does not mean that you will get infected with adenovirus when vaccinated. The fact is that the gene of the adenovirus that causes the infection is removed. And instead, a gene with the code of the coronavirus protein is embedded. This is a safe technology for the human body, which allows the immune system to react and develop antibodies that should protect against infection. A vaccine injection is, in fact, an organized infection of a healthy person with a virus or bacterium, only with a guarantee of a quick recovery.

One bottle of the vaccine is enough for five people, and the vaccination should be done within two hours after opening the bottle. Therefore, those who have signed up are called to make sure that they will come, and the drug will not be lost.

Contraindications to the administration of the vaccine:

hypersensitivity to any component of the vaccine or a vaccine containing similar components;

severe allergic reactions in the anamnesis;

pregnancy and breastfeeding;

age under 18 and over 65 (due to lack of data on efficacy and safety);

who has HIV AIDS.

Contraindications for the administration of component II: severe post-vaccination complications (anaphylactic shock, severe generalized allergic reactions, convulsive syndrome, temperature of 40°C, etc.) on the introduction of component I of the vaccine.

The drug should be used with caution when:

chronic liver and kidney diseases;

severe disorders of the endocrine system (diabetes mellitus);

severe diseases of the hematopoietic system;

epilepsy, strokes, and other CNS diseases;

diseases of the cardiovascular system (a history of myocardial infarction, myocarditis, endocarditis, pericarditis, coronary heart disease);

primary and secondary immunodeficiency;

autoimmune diseases;

lung diseases, asthma;

in patients with diabetes and metabolic syndrome, with allergic reactions, eczema;

malignant neoplasms, including malignant blood diseases.

Vaccination is carried out in two stages: first, component I at a dose of 0.5 ml, then, after 3 weeks (21 days without taking into account the day of vaccination) - component II at a dose of 0.5 ml. If it is impossible to carry out the vaccination with component II on the 21st day

(coincidence on weekends, holidays, departure to another locality, etc.), it is allowed to carry out the vaccination within 7 subsequent days.

It is recommended not to allow an unreasonable lengthening of the interval between the administration of components I and II, as this may affect the formation of the immune response and lead to a decrease in the effectiveness of vaccination.

The vaccine is intended for intramuscular administration only. Intravenous administration of the drug is strictly prohibited!

The vaccine is injected into the deltoid muscle (the upper third of the outer surface of the shoulder). If it is impossible to inject into the deltoid muscle, the drug is injected into the lateral broad muscle of the thigh.

Conclusion

I believe that the key to success in the fight against the virus is the immunization of the population.

At the same time, according to all forecasts, covid disease becomes seasonal.

Vaccines train the immune system to produce specific antibodies.

Vaccination does not guarantee morbidity, but ensures that you will carry the disease easily and without a fatal outcome.

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Аннотация: В статье описывается текущая пандемия коронавирусной инфекции, вызванная коронавирусом SARS-CoV-2 и она охватила весь мир. Вспышка впервые была в Ухане, в Китае, в декабре 2019 года 30 января 2020 года. Всемирная организация здравоохранения объявила эту вспышку чрезвычайной ситуацией которая имела международное значение, а 11 марта - пандемией. По состоянию на 20 апреля 2021 года зарегистрировано свыше 143 млн случаев заболевания по всему миру; более 3 млн. человек скончалось и более 121,7 млн выздоровело это по сводкам ВОЗ - Всемирной организации здравоохранения.

У нас в Казахстане как пишут средства массовой СМИ за прошедшие сутки /20 мая 2021 года/ в Казахстане выявлено 2267 заболевших с положительным ПЦР на коронавирусную инфекцию.

«С февраля этого года в Казахстане активно ведется вакцинация населения российским препаратом «Спутник V».

В памятке вакцинированных Гам-КОВИД-Вак-2020 («Спутник V» - торговое название препарата) сказано, что у 5,7 процента людей наблюдается повышение температуры, озноб, головная боль, ломота в теле. Слабость и недомогание, тошнота - у десяти процентов. Могут быть боль и зуд в месте укола, а также заложенность носа и боль в горле. Это индивидуальные реакции, которые проходят через один, максимум три дня. В вакцине от Гамалеи нет возбудителя COVID-19, поэтому она не может вызвать болезнь. Перечислены противопоказания к введению вакцины, противопоказания для введения компонента II.

Ключевые слова: вирусы, репликация, мутации, гепатит, капсид, бактерии, вирус ВИЧ, белки, вакцина, инфаркт миокарда, смерть, чрезвычайная ситуация.

Түйін: Мақалада SARS-CoV-2 коронавирусынан туындаған коронавирустық инфекцияның қазіргі пандемиясы сипатталған және ол бүкіл әлемді қамтиды. Ауру алғаш рет Қытайдың Ухань қаласында, 2019 жылдың желтоқсанында, 2020 жылдың 30 қаңтарында болды. Дүниежүзілік денсаулық сақтау ұйымы бұл індетті төтенше жағдай деп жариялады халықаралық маңызы бар және 11 наурызда пандемия болды. 2021 жылғы 20 сәуірдегі жағдай бойынша бүкіл әлем бойынша 143 миллионнан астам жағдай тіркелді; ДДҰ - Дүниежүзілік денсаулық сақтау ұйымының

мәліметтері бойынша 3 миллионнан астам адам қайтыс болды және 121,7 миллионнан астам адам қалпына келді.

Бізде Қазақстанда бұқаралық ақпарат құралдарының жазуынша, өткен тәулікте/ 2021 жылғы 20 мамырда / Қазақстанда коронавирустық инфекцияға оң ПЦР бар 2267 науқас анықталды. «Осы жылдың ақпан айынан бастап Қазақстанда халықты ресейлік Спутник V» препаратымен вакцинациялау белсенді жүргізілуде. Вакцинацияланған Гам-КОВИД-Вак-2020 жаднамасында («Спутник V» - препараттың саудалық атауы) адамдардың 5,7 пайызында дене қызуының көтерілуі, қалтырау, бас ауруы, дененің ауыруы байқалады. Әлсіздік, жүрек айну - он пайыз. Инъекция орнында ауырсыну және қышу, мұрынның бітелуі және жұлдыру болуы мүмкін. Бұл бір, ең көбі үш күннен кейін өтетін жеке реакциялар. Гамалеяға қарсы вакцинада COVID-19 қоздырғышы жоқ, сондықтан ол ауруды тудырмайды. Вакцинаны енгізуге қарсы көрсеткіштер, II компонентті енгізуге қарсы көрсеткіштер көрсетілген.

Кілт сөздер: вирустар, репликация, мутация, гепатит, капсиді, бактериялар, АИТВ вирусы, ақуыздар, вакцина, миокард инфарктісі, өлім, төтенше жағдай.