

**QUESTIONS OF YOUTH FROM RAŠKA AND ANSWERS OF PROF. DR. GORAN BRAJUŠKOVIĆ,
FULL PROFESSOR OF THE FACULTY OF BIOLOGY, UNIVERSITY OF BELGRADE**

1. How is it possible that the vaccine was found so quickly, when we know that other vaccines have been made and tested for years?

The misconception is that the "construction" of these vaccines took a short time. Strategies have evolved over the years. Chinese vaccine was constructed in a standard way, like many vaccines before, and the strategy of mastering the RNA vaccine started 30 years ago. Many branches of science have advanced and we come to some facts in a couple of days now, for which we needed a whole decade until 20 years ago. Science is not standing still and all the achievements have been built into the "construction" of these vaccines.

2. Despite receiving vaccines, people get sick again, and even with more severe symptoms, why if it is effective?

It is a misconception that after vaccination, people who get sick with COVID have more severe clinical pictures. On the contrary, vaccines protect against more severe clinical pictures and death. No vaccine protects 100 percent from the virus, although younger people are more protected by the vaccine than older one.

3. Why do you get more doses of the vaccine?

Many vaccines are given in multiple doses because more effective protection is achieved. We need to get some vaccines every 5 years, such as the hepatitis B virus that attacks the liver, or every 10 years the tetanus vaccine, or every season as the flu one. Some vaccines are enough to receive only once in a lifetime, and some are not.

4. How detailed should the examination be before receiving the vaccine, what parameters should be checked? It seems to us that now the examinations are not detailed enough (blood picture, existing diseases, current number of antibodies in an individual, etc.).

No complex examinations are required for COVID vaccines. It is important that this vaccine is not given while someone has an acute infection or is receiving an antibiotic. To elderly ones with malignant diseases, the vaccine should be given between two doses of therapy. The only contraindications, i.e. the only people who are not allowed to receive the vaccine, are those who are allergic to some of the components of the vaccine, and that is an extremely rare case. In Serbia, a severe allergic reaction was not recorded in the 7 million doses received.

5. Which antibodies are better/more useful - artificial (created by vaccine) or natural (created after the infection)?

Both types of antibodies are good, but it is now clear that natural ones are not enough to protect against re-disease. Artificial ones are also good because they can even prevent infection among younger people, and among those who get sick, they help to overcome the disease more easily.

6. First it was to get two doses of a vaccine, then the third, and now the fourth is announced.

Why is this so and is it known how many doses will be needed in the end?

During the pandemic, it was shown that two doses may not be enough, so the third, booster dose that enhances the immune response created with the first two doses. This booster dose may be the last required dose, but it depends on many factors such as the duration of the pandemic, virus mutations, and the ability of the booster dose to elicit an adequate immune response over months or years. It takes more time to answer this question accurately.

7. Is it necessary to receive vaccines indefinitely, all recommended doses or is it individual?

It is necessary to listen to the opinion of experts, and not decide for yourself how much doses are enough. What I know for sure is that it will certainly not be indefinite.

8. How many antibodies are there after the 3rd dose of the vaccine?

Few people in the world have received the third dose and the effect is still being investigated and it is necessary that this research lasts at least 6 months. Preliminary results are encouraging. It seems that the booster dose will prolong the period in which the immune response adequately reacts in contact with the infection.

9. Why only we sign the consent to receive the vaccine, and our chosen doctor does not do that - that would be a certain confirmation of its safety?

You personally sign the consent for all medical treatments because it is about your body, not the doctor's.

10. Why are there five different vaccine manufacturers?

Five of them met the high criteria for giving consent for the start of use, and at least as many vaccines were constructed that received unsatisfactory marks during the clinical trial, or in the cycle of production and adequate storage, and therefore are not in use.

11. We have heard that the Chinese vaccine is the weakest, is that true?

Chinese vaccine is effective, but perhaps a shade less effective than other vaccines. But those differences are not drastic, so the Chinese vaccine, as an effective vaccine, is in use. If it weren't so, it wouldn't be given.

12. Should those who have had a COVID receive the vaccine and after what time?

Yes. The first term is a month or two after a negative PCR test which confirms that someone has had a COVID and that the infection has passed.

13. Which vaccine is recommended for minors?

To this day, only Pfizer.

14. Is only the Pfizer vaccine recommended for children and young people and how does it work?

Yes. Pfizer vaccine is an RNA vaccine and it also contains iRNA that carries information for the synthesis of spike protein, and this protein activates our immune system.

15. How is it possible that the same vaccine works the same for those aged 15 and 77?

Immune system works on the same principles as the heart or kidneys work regardless of age. However, it is clear that just as the heart beats better in young people, so the immune system is faster and more efficient in young people than in older ones.

16. If we have an autoimmune disease, can we get a vaccine and which one?

Yes, any.

17. How does the vaccine affect people with epilepsy, cardiovascular disease and those with birth defects? Are these people allowed to receive the vaccine and which one?

Existence of any disease is not a contraindication for any of the vaccines in use, i.e. they are not a reason not to receive the vaccine. Such a disease does not exist except for a severe allergy to some components of the vaccine, which is extremely rare.

18. Is there a possibility that young people receiving the vaccine will have a sterility problem in the future?

ABSOLUTELY NOT, but among a small number of young people who got over the infection but with the retention of some symptoms (this condition is called prolonged COVID), they have a risk of developing disorders of the reproductive system.

19. Will there be our vaccine? We would have more trust.

I don't believe there will be our vaccine. Only the most developed countries in the world have managed to develop a vaccine. USA, UK, Russia and China. I don't know why we would have more confidence in our vaccine when at the same time you have more confidence in "BMW" or "Mercedes" cars compared to "Punto".

20. Why a vaccine, why not a cure for corona?

„VAKCINI TREBA TVOJA POMOĆ“ sprovodi Razvojni centar za mlade. Inicijativa je deo šireg projekta „Platforma za odgovorno upravljanje javnim finansijama“ koji sprovodi Program Ujedinjenih nacija za razvoj (UNDP), a finansira Vlada Švedske.

Vaccine protects and a cure cures. Unfortunately, so far no drug has been synthesized that effectively treats the COVID, even if it is being worked on intensively. And even if there is a medicine, it is better to prevent than to cure.

21. Why are they trying to bribe us with 3,000 RSD if the vaccine is really necessary and useful, and why are they forcing us to receive the vaccine with aggressive media campaign?

I don't even know who came up with such an idea. It would be almost offensive to me at your age a well. I have not seen such an aggressive campaign forcing you to get vaccinated. On the contrary, I think that it must be even stronger in order to clarify all doubts and voluntary vaccination. Vaccination against COVID is not obligatory in our country.

22. Why was the movement ban first from 22.00, then from 20.00, as if we could not be infected with the crown before that time?

That's what I'm wondering. Your question strikes at the essence of the futility of such a decision. Green certificate only make sense if it's 24/7.

23. Why does not every country accept all vaccines?

Because some countries only accept vaccines recommended by the World Health Organization, which has recognized everyone except Russian's, and I hope that they will recommend it soon, while some countries follow the advice of the European Medicines Agency, which recommends everything except Russian's and Chinese one. However, most countries decide for themselves which vaccine to recognize or not, and there is certainly little political influence in that decision.

24. Which vaccine should I receive so that I can travel everywhere?

Pfizer or Modern for everywhere :)

25. We do not understand the logic of the crisis headquarters for closing schools, when there were fewer infected we did not go to school, and when there were more we did, why? What the measures that are adopted depends on?

I do not have a logical answer to this question, although the answer lies in the hope that as many of the world as possible will be vaccinated now that vaccines are available to us. Those terrible imprisonments were not illogical because there were no vaccines then.