

Title: Barriers and drivers of positive COVID-19 vaccination behaviours among healthcare workers in Europe and Central Asia: a qualitative cross-country synthesis

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Supplementary information: Rapid Analysis Process (RAP) sheet

Doctors: Being vaccinated against COVID-19

	Location 1		Location 2	
	Summary of discussion	Interesting discussion and good quotes (note minutes in audio)	Summary of discussion	Interesting discussion and good quotes (note minutes in audio)
What heard about COVID-19 vaccine?	The immunologist doctor held a conference on the basis of the polyclinic, in which he told about the vaccine, its benefits for humans, how many doses were received, storage methods, indications and contraindications to vaccination, the composition of vaccines, how to fill out questionnaires for patients. First of all, doctors and teachers had to be vaccinated.	There was provocative information that scared people "If you make a vaccine, you will die in 2 years" (31:40 min). Everyone was afraid of vaccination. There were rumours that the vaccine contains the blood of animals (pigs) and humans. (32:18 min). Because of this, people were afraid. There was information on the Internet that the vaccine affects fertility "You get vaccinated, you won't get pregnant" (35:55 min).	Generally, nurses and feldshers are highly aware of the procedures and have detailed professional awareness of COVID-19 vaccine. Almost all of them are sure that COVID-19 vaccine is important in fighting with pandemic.	"We are afraid to do vaccination to some people who are against COVID-19. We cannot force them to vaccinate because sometimes after vaccination if they have diseases or they are in old age, it will have side effects." (min 29)
About specific brands?	First, (vaccine A) entered the polyclinics, later (vaccine B) came. Most people trust (vaccine C) more. Currently, there are 5 vaccines in the country. A couple of respondents said that they had (vaccine C) in their clinic.	(Vaccine C) was only in large medical institutions, since there were no special refrigerators for its storage in small polyclinics (40:45). (Vaccine C) is a very "gentle" vaccine (41:12)	All respondents mentioned that they firstly mostly started working with (vaccine A). Nowadays most common vaccines are (vaccines D and E). Talking about the vaccine with least side effects, most of the respondents said and agreed that (vaccine F) had less or no side-effects after vaccination. Moreover, they mentioned that (vaccine E) was the strongest and had the most of side effects.	"The least side effects after vaccination were faced after (vaccine F). (Vaccine F) was the lightest"(32:25) "I personally took first two doses of (vaccine A) and after I took (vaccine E), after (vaccine E) my arm was swollen and red, I was sick for one week." (32:50) "But I have heard that (vaccine F) is not being recognised abroad" (34:05)

Where hear this from?	Most doctors heard the information at job (various conferences held by the management of medical institutions). As new vaccines became available, seminars and conferences were held to discuss the specifics of a particular vaccine. One respondent noted that he had heard information from a patient about the ineffectiveness of (vaccine A). One of the respondents noted that people share information on the Internet.		Mostly respondents heard about this because of warrants and protocols. Also they heard about vaccine from training sessions about COVID-19 vaccination	"An order was issued with information - how it all goes, what side effects can be, who can do it and so on"(35:35) "There were teaching seminars" (35:45)
What think of this information?	The doctors noted that they attended all conferences held by medical institutions to get more information about vaccines.		Nurses find this information very useful because it helped to overcome this pandemic. Regarding the sources of information, nurses trust their professional knowledge rather than the information on internet sources.	"It was useful for people too. I think that the number of patients decreased after getting vaccinated" (36:05)
<u>IF UNVACCINATED</u> Do you intend to receive COVID-19 vaccine? Why/why not?	Only one respondent was not vaccinated due to allergies. Said he was giving the vaccine to patients and so developed an allergy. This respondent has a medical withdrawal.	"I was afraid anyway. Still, the employees are vaccinated. I'm the only one not vaccinated. My gloves and masks were changed every two hours, and my robe was changed after three hours. It was a little scary" (43:32)	Nurses and feldshers shared that some of their colleagues were not able to get vaccination due to different health issues. They shared that their colleagues are highly aware of COVID-19 vaccine and some of them would do it if they had relevant health condition. However, they mentioned that there are a lot of medical staff who haven't received any COVID-19 vaccine. All nurses shared that people who are religious, they neglect getting vaccines.	"I think that they may not take it, because the pandemic has stopped and they may think that there are no infections" (41:58) "Their disease may become a reason for leading another issue, they are afraid of it" (43:30) "They were cases when people died after vaccination, they are afraid of such things" (43:39) "In my practice, people who believe in God, they don't want to receive vaccine" (47:04)
What more want to know?	The respondent is looking for sources of information about vaccines himself.	Respondent: I read the information about each vaccination by myself (45:15)		
What heard about effectiveness	The respondent believes that the vaccine is very effective in fighting the virus.			

Producer of vaccine important? Why?	The vaccine manufacturer plays a very important role for the respondent.	The respondent noted that at the moment many patients wish to receive (vaccine E) (46:56), since "With a probability of 97% a person does not get sick" (46:17)		
Messages heard for or against vaccination				
What would convince you to have it?	Feel protected	A person must be ready, it is impossible to specify how and what to do. A person's desire must be voluntary (48:35)		
Who needs to recommend it? Why them?	There should be more information about the vaccine.			
How should this be communicated?				
How prefer to receive the vaccine? what would make it convenient?	At my polyclinic			
When and why then?	During working hours, so that if anything happens, doctors will be nearby.			
Where and why there?	At my polyclinic			
How much time can you spare?				

<u>IF VACCINATED</u> What information convinced you?	First of all, to protect yourself. In order not to get infected and not to infect others, relatives at home. At conferences, they said that all doctors should be vaccinated.	When we were working, we had information that in (neighbouring country) doctors were given pills against the virus. Doctors (here) began to panic "Why don't you give us?" (50:19)"When the first vaccine appeared, I, without thinking about anything, immediately went for vaccination to protect myself" (50:49)	Mostly, they were convinced by information that vaccines are useful and strengthen the immune system. Also, there were other vaccines made before so respondents were highly aware of vaccines. The professional responsibility has also played a role in getting vaccinated.	"At first, they forced us to get vaccinated. ... But after getting vaccinated, I am getting sick less I used to have a flu a lot and my joints don't hurt anymore " (51:03) "We really understand this vaccine well, we get vaccines from childhood. And after COVID-19 vaccination people still get sick but in an easier way and a person won't die (52:50)
Did you have any concerns? If yes what?	At first we were worried, but then we became convinced that there is nothing terrible about the vaccine One of the respondents noted that he had undergone heart surgery and was worried about how the body would react to the vaccine. The immunologist doctor, who was also vaccinated, explained that, on the contrary, it is necessary to be vaccinated for their own safety.		There were no big concerns regarding vaccine. But some of them were unsure due to health risk.	"I was afraid because I was in a risk group" (53:27)

Producer of vaccine matter to you? Why?	Several nurses noted that at first they wanted to get the (vaccine B), but it was injected only to people over a certain age. Everyone was obliged to get the vaccine, so they got (vaccine A). A couple of nurses noted that even if they had a choice between different vaccines, they would still choose (vaccine A).	"For me personally, it didn't matter which vaccine to get. I chose (vaccine A).... It is more effective, probably. There was not enough (vaccine C), we were not allowed. It was intended for the risk group" (53:09) "I chose the (vaccine C) because they are always one step ahead. They were the first to invent this vaccine. Before releasing it, they tried so many things. And I unconditionally received (vaccine A)" (54:15)"It was possible to get any vaccine - it was possible to get (vaccine C), but since we saw these old men who "killed" each other for each dose, we decided to get (vaccine A). Although I think that (vaccine A) is no worse. Everyone read the annotations, everyone read the side effects" (1:02:00)" I trusted (vaccine A) because the pandemic quickly subsided in Wuhan" (1:04:49)	The producer of vaccine is important for everyone. (Vaccine E) turned out to be one of the most trustful vaccines.	"The reason we chose (vaccine E) is because in instructions it was stated that people above 12 and pregnant can get vaccination. That's why it is less harmful and it strengthens the immune system. We looked at this and got (vaccine E)" (56:50)
Did anyone help you decide? Why were they convincing?	Other doctors-colleagues called for vaccination. One of the respondents noted that no one could convince her as much as a pediatrician Most doctors made the decision to vaccinate themselves.		According to majority, all of the medical staff mentioned about the vaccine.	"Yes, my doctor affected my decision" (59:00)
What made it convenient?	Respondents noted that they did not prepare. Received during/ at the end of the working day at their workplace (polyclinics).	"Since we got sick, we waited for the vaccine, I don't know how. We decided that we would go first. The whole polyclinic was already focused on us: alive, not alive, as they moved" (1:01:30)	All said it was convenient because the vaccination points were at the same place where the nurses worked. The location and the schedule at vaccination points were flexible that's why it was easy and convenient to get vaccinated.	"You could come at any time from 8 am till 8 pm, even 24/7. you can come at any time and doctor on-duty can give a vaccination" (13:40)

What have you heard about booster doses?	The booster dose is received as a revaccination. Those who have received the (vaccine E) can get (vaccine A or C). Those who have received (vaccine A or C) can receive any vaccine.		Booster dose is strengthening the immune system more. All of the mentioned the importance of booster dose.	"It is strengthening my immune system, I can confidently live with booster dose, I won't infect/harm anyone" (1 hour 7 mins)
Views on mandatory vaccination for HWs			Most of the think that there should be a law and it should be mandatory. But also they mentioned that they cannot force people to get vaccinated.	"I cannot force them. If I force them, they get mad. I try to explain and they get it optionally and voluntary" (1 hour 11 min 50 sec)
Other				