

Supplementary materials

Table 1. Characteristics of the participants.

Participant number	Age (years)	Sex	Marital status	Region	Disease history	employment history	Residence
Elderly 1	64	Male	Married	Urban	Hypertension	Labour	Living with children
Elderly 2	61	Male	Married	Urban	Diabetes Mellitus, stroke	Labour	Living with children
Elderly 3	59	Female	Widow	Rural	Stroke	Labour	Living separately from children
Elderly 4	54	Female	Married	Urban	Stroke	Private employee	Living with children
Elderly 5	65	Female	Married	Urban	Stroke	Employee	Living with children
Elderly 6	62	Male	Married	Urban	Hypertension	Private employee	Living with children
Elderly 7	70	Male	Married	Urban	Heart disease	Labour	Living with children
Elderly 8	71	Male	Married	Urban	Stroke	Labour	Living with children
Elderly 9	68	Male	Widower	Rural	Hypertension	Private employee	Living separately from children
Elderly 10	73	Female	Widow	Rural	Stroke	Employee	Living separately from children
Elderly 11	64	Male	Married	Urban	Hypertension	Labour	Living with children

Elderly 12	61	Male	Married	Urban	Diabetes Mellitus, stroke	Labour	Living with children
Elderly 13	59	Female	Widow	Rural	Hypertension	Labour	Living separately from children
Elderly 14	54	Female	Married	Urban	Stroke	Private employee	Living with children
Elderly 15	65	Female	Married	Urban	Stroke	Labour	Living with children
Elderly 16	62	Male	Married	Urban	Stroke	Employee	Living with children
Elderly 17	70	Male	Married	Urban	Heart disease	Labour	Living with children
Elderly 18	71	Male	Married	Urban	Stroke	Labour	Living with children
Elderly 19	68	Male	Widower	Rural	Hypertension	Labour	Living separately from children
Elderly 20	73	Female	Widow	Rural	Stroke	Labour	Living separately from children
Elderly 21	54	Female	Married	Urban	Stroke	Labour	Living with children
Elderly 22	65	Female	Married	Urban	Stroke	Private employee	Living with children
Elderly 23	62	Male	Married	Urban	Heart disease	Labour	Living with children

Table 2. Results of theme analysis.

Result	Beliefs and barriers to COVID-19 Vaccination in elderly stroke history
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Theme 1 Initial resistance to the vaccination program	
Category	Rejection response in the elderly
Codes	Resentment and anger Unwilling to accept the program
Quotation	<p>The covid vaccine program, the excitement, and then the main target of the elderly, upset and angry (W2, P8) If there are many incidents and we become the primary target, even though older adults don't go out, this is what makes us upset (W2, P4).</p> <p>I don't want to accept the COVID-19 vaccine program from the government" (W2, P8). It's okay if I don't want to participate in the COVID-19 vaccine program from the government (W2, P6).</p>
Theme 2 Doubts and disbelief about the benefits of the COVID-19 vaccine	
Category	Doubt and distrust
Codes	Temporary Deep doubts Expression of disbelief Laziness to get vaccinated Not Taking Risks
Quotation	<p>Vaccines are just so that people don't get excited, and I doubt what the vaccine is for" (W2, P8) is the same as the common cold. What is the content of the COVID-19 vaccine" (W2, P4)</p> <p>Many people who have been vaccinated, when the PCR is positive, do not believe in the benefits."(W1, P8). Is just the work of business people, who benefit from the COVID-19 issue, so I don't believe it" (W3, P5).</p> <p>I became lazy, especially when I heard the story of a neighbor, who is a nurse, who had a fever and cough a week after the vaccine (P1, W6)</p> <p>I had a mild stroke, so I am terrified that it will happen again. He said that a mild stroke is only once, and then it will become a severe stroke and even die (W1, P13). I don't dare to take the risk with the vaccine because friends said after the vaccine, it became feverish and sick. I'm afraid (W1, P14).</p>
Theme 3 Fear surrounds Vaccination	
Category	Feelings of fear with physical and psychological symptoms

Codes	Physical symptoms	Anxiety	Negative thoughts of "fear of death"	Vaccines Trigger Stroke
Quotation	<p>My high blood pressure rose when tomorrow is two days before the COVID-19 vaccine (W3, P5)</p> <p>Have trouble sleeping, headaches thinking about the COVID-19 vaccine (W3, P5)</p>	<p>More anxious now because if you fall ill, you are treated and end up with COVID-19 (W3, P5)</p> <p>Already, older people must be very anxious when they want to be injected (W3, P10)</p>	<p>I think I'm afraid to die. My close friends, my family, and my neighbors died because of COVID-19 (W1, P9)</p> <p>My friend's child, who has received the vaccine 2 times, still died from COVID-19 (W3, P5)</p> <p>I'm afraid my son said that on the Internet, there was a 67-year-old elderly who died after a few hours of the vaccine, and it turned out that he had a stroke. Initially, he had hypertension (W1, P11)</p>	<p>The vaccine can trigger a stroke, said my friend. I'm afraid, too, because I have a history of hypertension (W1, P12)</p> <p>I often look for information about the effect of vaccines on stroke because I am terrified that after the vaccine, I will have a stroke. After all, the incident was on TV (W3, P23).</p> <p>There is a lot of information about vaccines for the elderly in the police phone group, but I am still afraid to this day. I have hypertension, and I am worried I will have a stroke due to the effects of the COVID-19 vaccine (W3, P19)</p> <p>I was going to go to the health center for the vaccine, but my son forbade me. He said some children had a stroke because of the vaccine. I have hypertension like this, so I'm afraid</p>

that's why I didn't go (W2, P12).

Theme 4 The compulsion to participate in the vaccination program

Category The most significant source of coercion is external.

Codes The family always invites Health workers Elderly friends

Quotation My son will take me if I want the vaccine (W2, P4)
My wife explains the importance and is ready to accompany me to the health center if I wish to get the vaccine(W1, P9)

The nurse at the health center told me that I had to take the vaccine because I was old so that I wouldn't get sick (W2, P2).

I followed my friends' advice (W3, P10)
I often talk to my friends, so I want to know there's no harm in it either (W2, P4)

Theme 5 Unwillingness to engage in vaccination programs

Category Internal reasons for stroke Effects of the vaccine

Codes Stroke conditions Intensity of stroke attack Vaccine side effects Outside info

Quotation I have had a mild stroke, so I am terrified that it will happen again. He said that a mild stroke is only once, and then it will become a severe stroke and even die well later after vaccination. Our bodies are not stable if my high blood pressure rises. I could have a stroke, so it's okay, I don't need to get vaccinated first (W1, P13)

I've had two more strokes, Mum, so I'm scared, Mum (W1, P20).

Well, this is the reason why I had a stroke, so I didn't get vaccinated(W1, P20).

After the vaccine, there is an effect of fever, pain, and discomfort, so I don't want it (W1, P17).
There was a friend of mine in the village who, after being vaccinated, got sick. He said his head was dizzy, and his whole body hurt (W2, P11).

There is a lot of information about vaccines for the elderly in the police WA group, but I am still afraid to this day. I have hypertension and am so scared of having a stroke due to the effects of the COVID-19 vaccine (W3, P19)
I often look for information about the effect of vaccines on stroke because I am terrified that after the vaccine, I will have a stroke. After all, the incident was on television (W3, P23).
