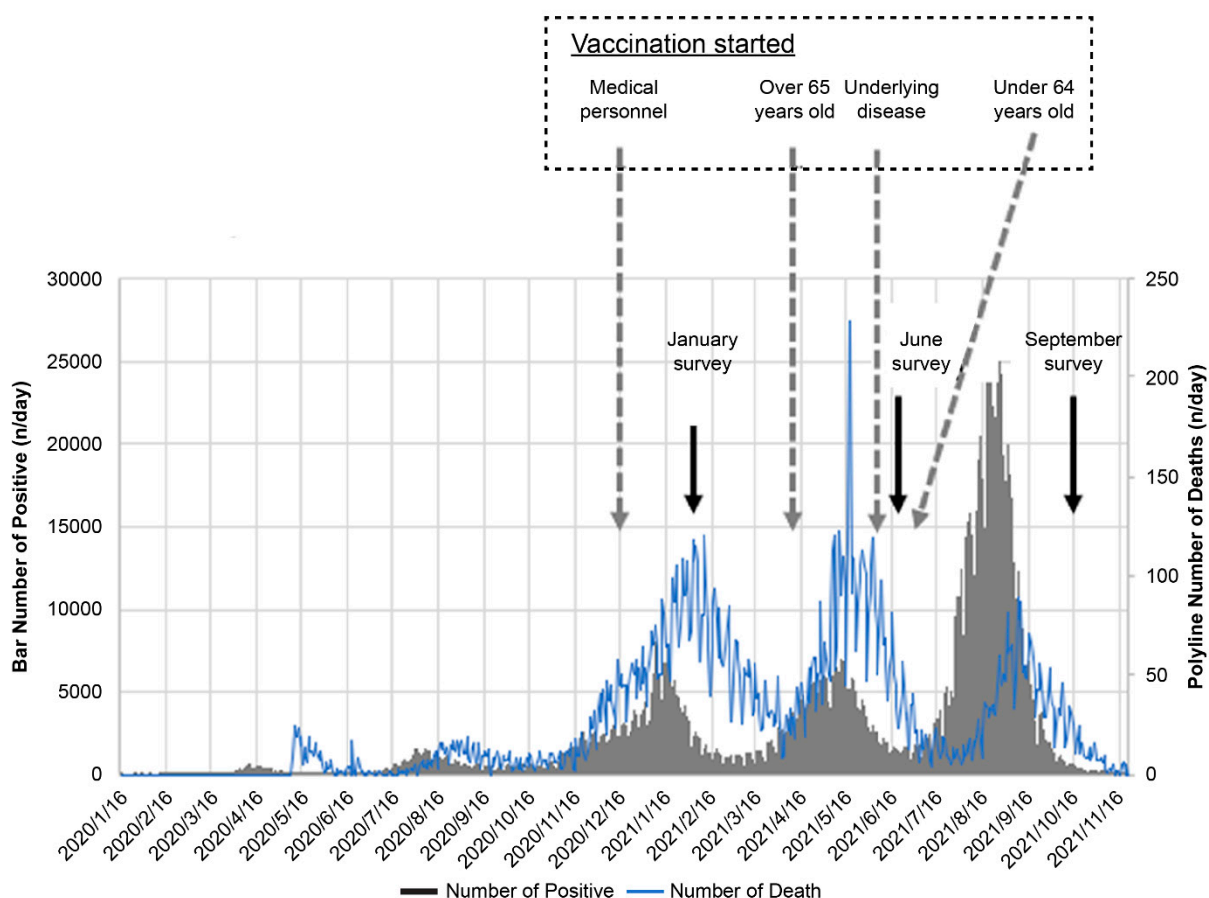


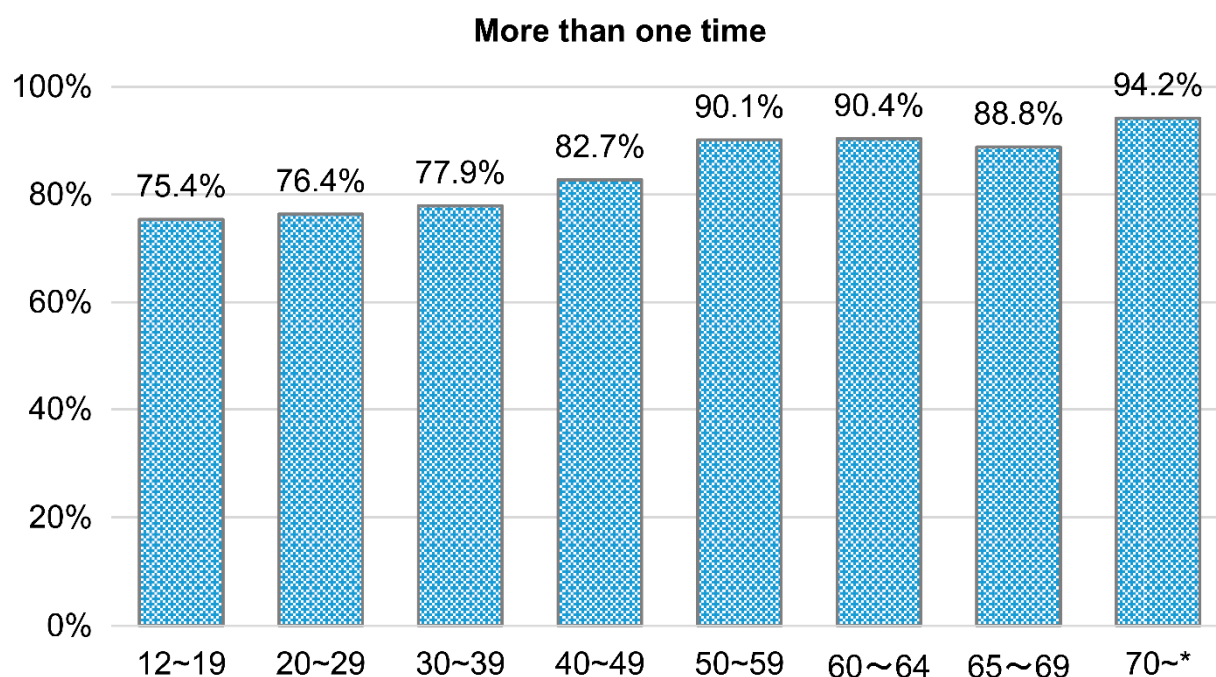
Supplementary Materials



Supplementary Figure S1. Trends in the number of PCR test positive cases and deaths, and the timing of investigation and vaccination status. The figures were created in Excel based on the "Open data" of "Trend in the number of newly confirmed cases (daily)" and "Trends in the number of Deaths" published on the following websites. Authority: Visualizing the data: information on COVID-19. (<https://covid19.mhlw.go.jp/>) Access 20211122. The vaccination rate for the entire population was: as of January survey; 0%, as of June survey; 19.2%, and as of September survey; 66.5%. <https://www.kantei.go.jp/jp/headline/kansensho/vaccine.html>. Access 20220111

Vaccinated at least once	Reason for not vaccinated		
	A. Because the invitation hasn't arrived.	B. Because the appointment date has not arrived	Not A or B
	Not hesitancy		Hesitancy

Supplementary Figure S2. Definition of "Hesitant" at the time of the June and September surveys



Supplementary Figure S3. Vaccination status by age group (one or more doses). The figure was drawn based on the results of vaccination by age group (as of December 27, 2021) published by Cabinet Public Affairs Office, Cabinet Secretariat. *"70~" is the average of the 70s, 80s, 90s, and 100s. <https://www.kantei.go.jp/jp/headline/kansensho/vaccine.html>. Access 20220111

Supplementary Table S1. Vaccine confidence and literacy items that were not significantly different between those with and without hesitancy (Age: 20-29)

	January			June			September		
	AOR	95% CI	P value	AOR	95% CI	P value	AOR	95% CI	P value
Vaccines are important for my health									
Vaccines are effective									
Vaccines are safe									
My vaccination is important for the health of others in my community									
I am concerned about serious adverse effects of vaccines				1.03	0.88-1.22	0.685			
New vaccines carry more risks than older vaccines				0.94	0.80-1.11	0.454			
Serious adverse reactions may occur due to the vaccination									
I have difficulty getting immunized (no time, far medical institutions, etc.)									
I do not need vaccines for diseases that are not common anymore	0.99	0.84-1.16	0.862						

We do not necessary to take voluntary vaccination

I do not take vaccine, if everyone around me is immunized

It is easy to obtain correct information on immunization

It is easy to understand why immunization is needed.

I have been able to accurately understand the vaccinations I have received

Supplementary Table S2. Vaccine confidence and literacy items that were not significantly different between those with and without hesitancy (Health care providers)

[illegible]

It is easy to understand why immunization is needed.	0.79	0.57-1.08	0.137
I have been able to accurately understand the vaccinations I have received	0.80	0.57-1.12	0.190
