

Appendix 1

1. *The impact of COVID-19 pandemic on participants*

- 1.1 Do you think that you have higher risk of COVID-19 infection than general population? ①yes ②no ③unclear
 1.2 What do you think the influence of COVID-19 on your regular medical treatment of cancer? ①none ②low ③moderate ④severe ⑤unclear
 1.3 What do you think the influence of COVID-19 on your daily life? ①none ②low ③moderate ④severe ⑤unclear
 1.4 What do you think the influence of COVID-19 on your income? ①none ②low ③moderate ④severe ⑤unclear

2. *Knowledge and attitude toward the COVID-19 vaccination*

- 2.1 When does the COVID-19 start working after vaccination? ①Unknown ②Immediately after the first shot ③Immediately after the second shot ④Fourteen days after vaccination
 2.2 Do you know about how the COVID-19 vaccine was developed? ①yes ②no ③unclear
 2.3 Will the COVID-19 be useful in controlling the COVID-19 pandemic? ①yes ②no ③unclear
 2.4 Is the COVID-19 vaccine safe? ①yes ②no ③unclear
 2.5 Is the COVID-19 vaccine trigger allergy? ①yes ②no ③unclear
 2.6 Is the COVID-19 effective? ①yes ②no ③unclear
 2.7 Will you encourage your family members or friends to get vaccinated? ①yes ②no ③unclear
 2.8 Will the COVID-19 vaccine worsen prognosis of cancer? ①yes ②no ③unclear
 2.9 Is it necessary to wear a mask after getting the COVID-19 vaccination? ①yes ②no ③unclear
 2.10 Are you willing to get the COVID-19 vaccine, even if you have to pay for it? ①yes ②no ③unclear

3. *COVID-19 vaccination*

- 3.1 Do you get vaccination of COVID-19? ①no ②partly vaccinated ③entire vaccinated
 3.2 Do you hesitate to get vaccination of COVID-19? ①yes ②no

Give your opinion on how the following statements have influenced your decision to take the COVID-19 vaccine (multiple choices).

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| ① The vaccine was not effective | ② The immediate serious side effects after taking COVID-19 vaccination |
| ③ COVID-19 vaccine was faulty or fake | ④ COVID-19 vaccine was developed and approved rapidly |
| ⑤ Long-term side effects of COVID-19 vaccine | ⑥ Pharmaceutical companies developed COVID-19 vaccine for commercial gains |
| ⑦ other | |
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