

Supplementary Information (SI) Appendix

Title: COVID-19 Risk Perceptions in Japan: A Cross Sectional Study

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Included Files

Supplementary Tables 1 and 2

Supplementary Figures 1-7

13

Table SI1 Self-reported Case Fatality Rates (CFRs) in Main and Supplemental Survey – Overestimation

	Original Survey in February 2023	Supplemental Survey in April 2023				
		Choice A	Choice B	Choice C	Choice D	Choice E
Panel A. Infection Risk (Actual infection risk as of February 2023: 0.20%)						
More than 10%	33.3%	29.3%	11.9%	28.0%	17.8%	54.4%
More than 5%	50.2%	46.8%	26.5%	47.2%	32.8%	69.9%
More than 1%	69.4%	69.0%	50.9%	68.5%	57.3%	79.2%
Panel B Fatality Risk (Actual fatality risk as of February 2023: 0.24%)						
More than 10%	19.9%	16.7%	7.2%	16.6%	10.4%	29.6%
More than 5%	29.8%	27.0%	14.7%	28.6%	18.9%	42.6%
More than 1%	46.5%	44.0%	27.5%	46.6%	33.9%	65.6%
Number of Observations	40,000	2,002	2,002	2,002	2,002	2,002

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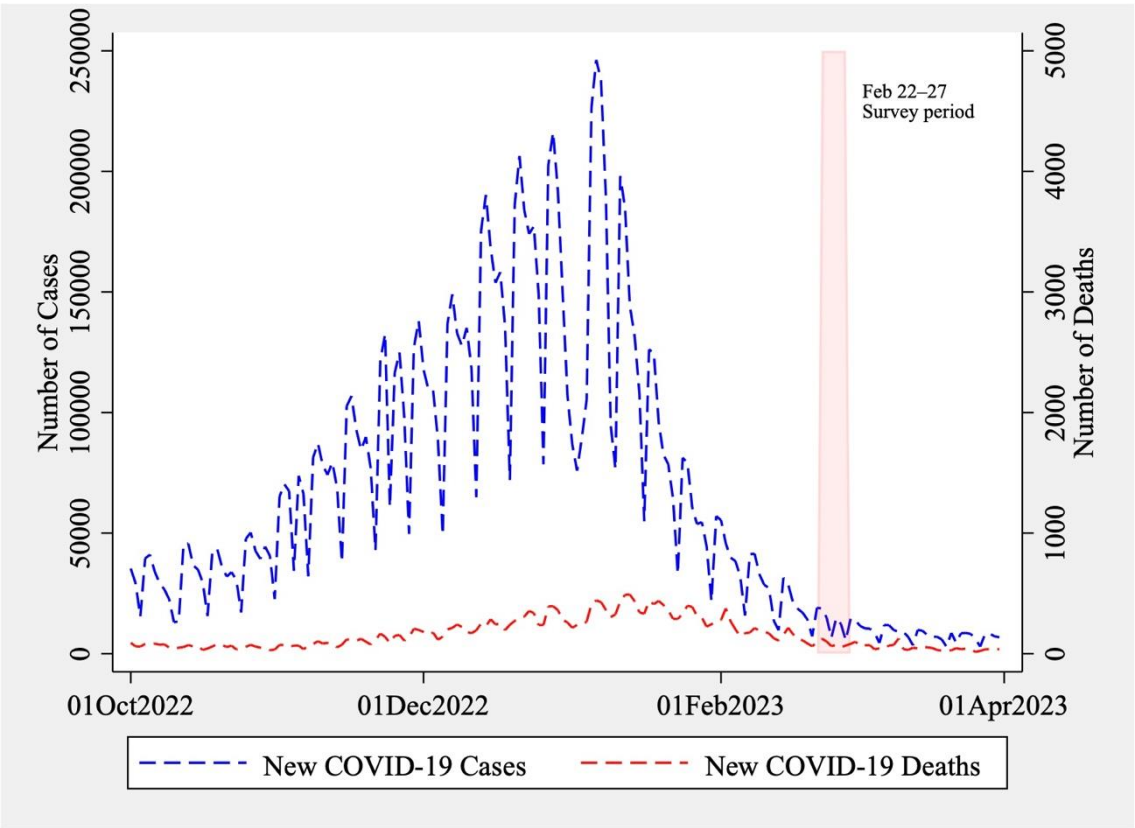
15 Note: On the supplemental survey in April 2023, we provided group “Choice A” with the same options as in the original survey. Meanwhile,
16 for groups B, C, and D, each group was given seven alternative options. Lastly, for group “Choice E”, we omitted the options and instead asked
17 respondents to input a specific number (in percentage) representing their assessment of the probability of infection or CFR.

Table SI2 Self-reported CFRs in Main and Supplemental Survey – Underestimation

	Original Survey in February 2023	Supplemental Survey in April 2023				
		Choice A	Choice B	Choice C	Choice D	Choice E
Panel A. Infection Risk						
Less than 0.001%	17.7%	14.6%	19.9%	-	-	19.9%
Less than 0.01%	19.4%	16.6%	24.1%	-	21.6%	19.9%
Less than 0.1%	21.4%	19.6%	30.4%	20.8%	27.2%	20.2%
Panel B Fatality Risk						
Less than 0.001%	27.1%	25.9%	34.4%	-	-	30.2%
Less than 0.01%	32.6%	32.2%	42.7%	-	38.9%	30.8%
Less than 0.1%	39.5%	40.1%	52.3%	35.4%	49.7%	32.0%
Number of Observations	40,000	2,002	2,002	2,002	2,002	2,002

20 Note: On the supplemental survey in April 2023, we provided group “Choice A” with the same options as in the original survey. Meanwhile,
21 for groups B, C, and D, each group was given seven alternative options. Lastly, for group “Choice E”, we omitted the options and instead asked
22 respondents to input a specific number (in percentage) representing their assessment of the probability of infection or CFR.

23 **Figure SI1 Key Indicators on COVID-19 Infections and the Timing of Our Survey**

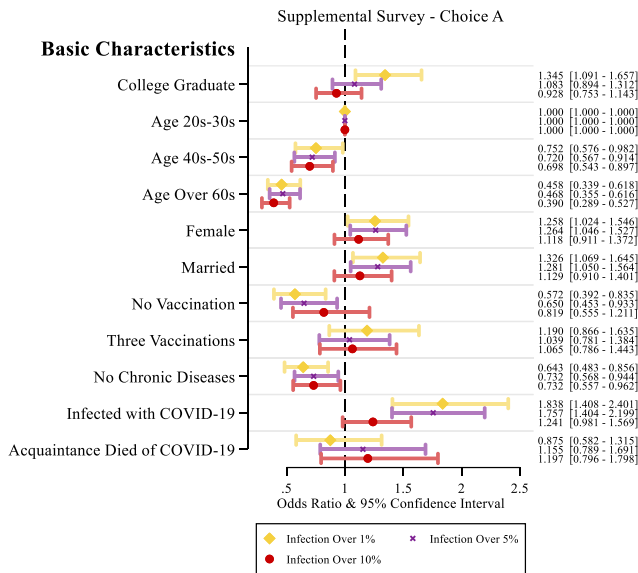


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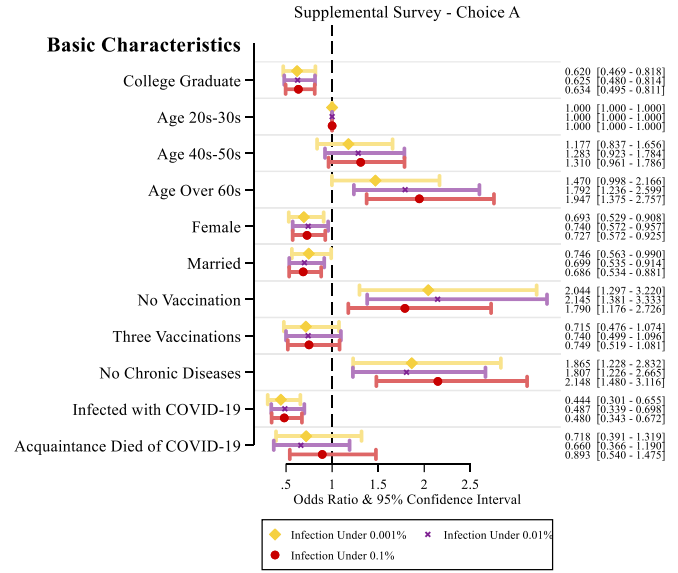
25 Figure SI2 Factors Associated with Infection Risk Perception – Supplemental Survey

26 A. Group Choice A

27 (a) Risk Overestimation



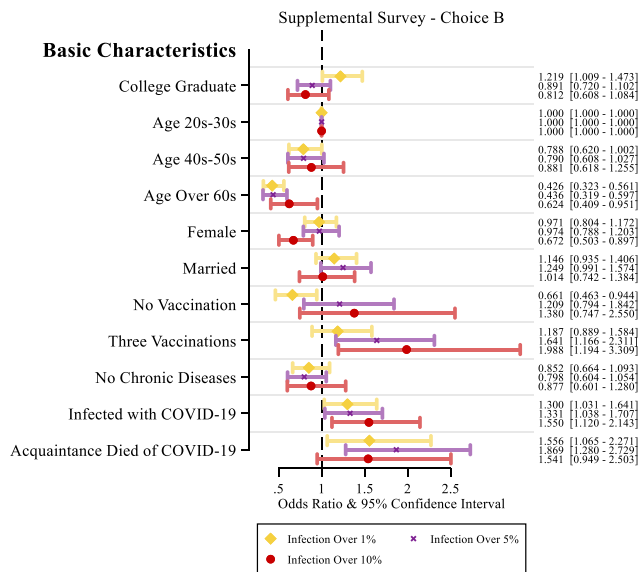
(b) Risk Underestimation



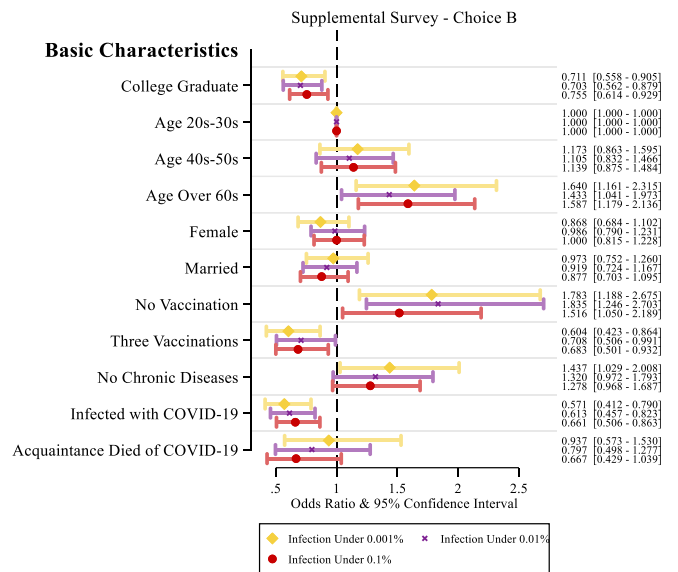
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29 B. Group Choice B

30 (a) Risk Overestimation

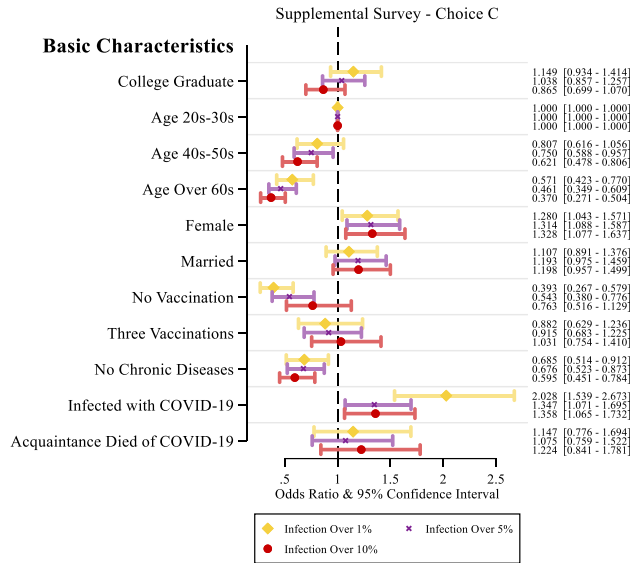


(b) Risk Underestimation

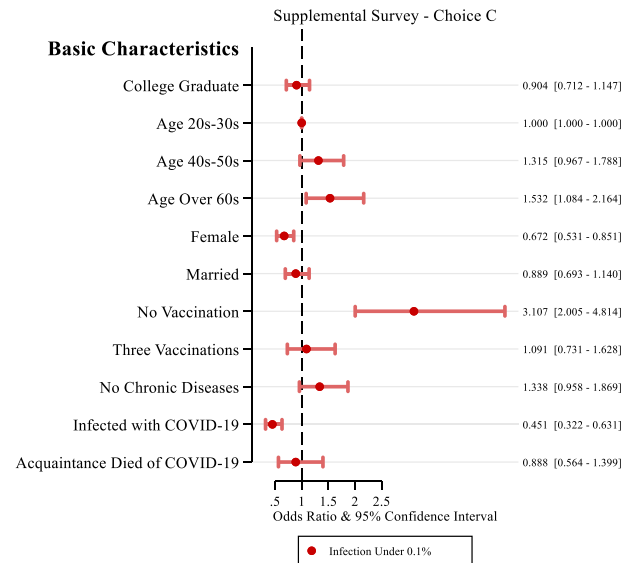


31 C. Group Choice C

32 (a) Risk Overestimation



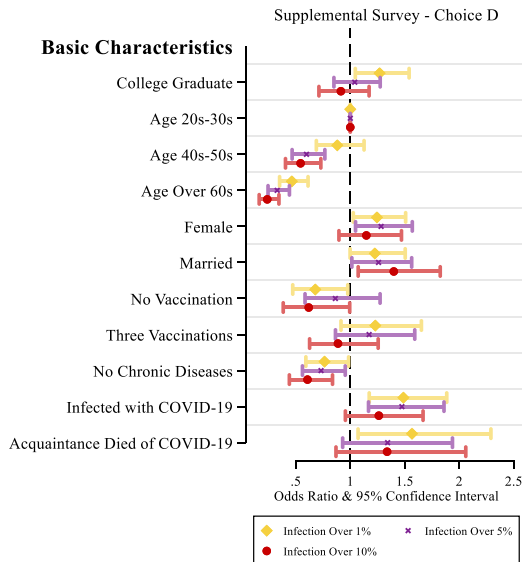
(b) Risk Underestimation



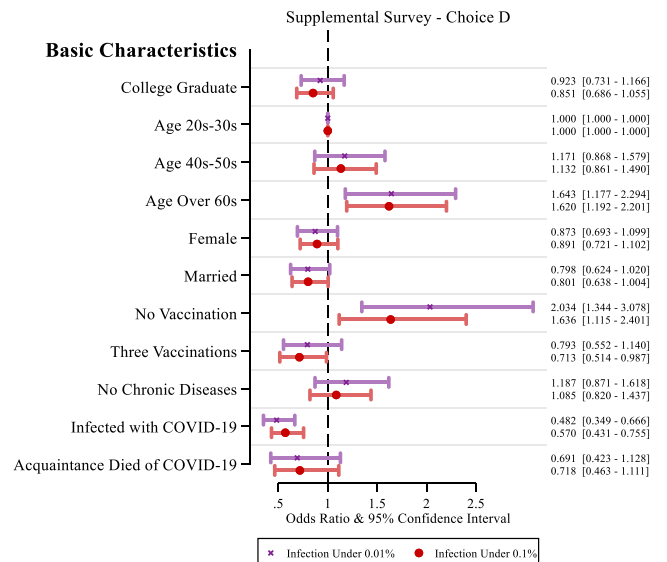
33

34 D. Group Choice D

35 (a) Risk Overestimation

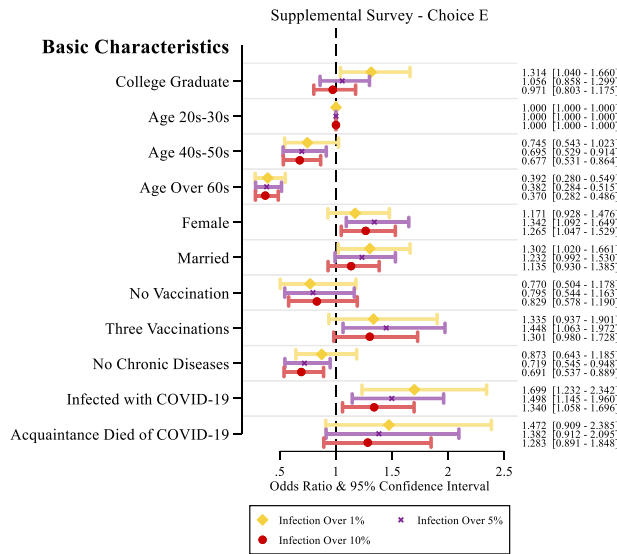


(b) Risk Underestimation

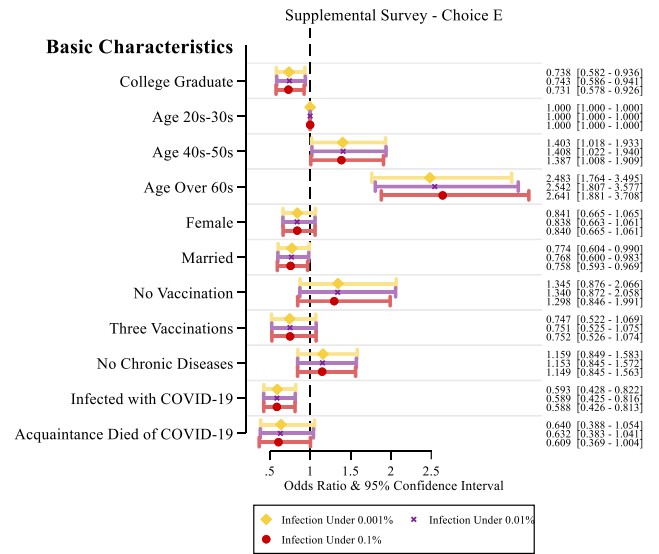


36 E. Group Choice E

37 (a) Risk Overestimation



(b) Risk Underestimation

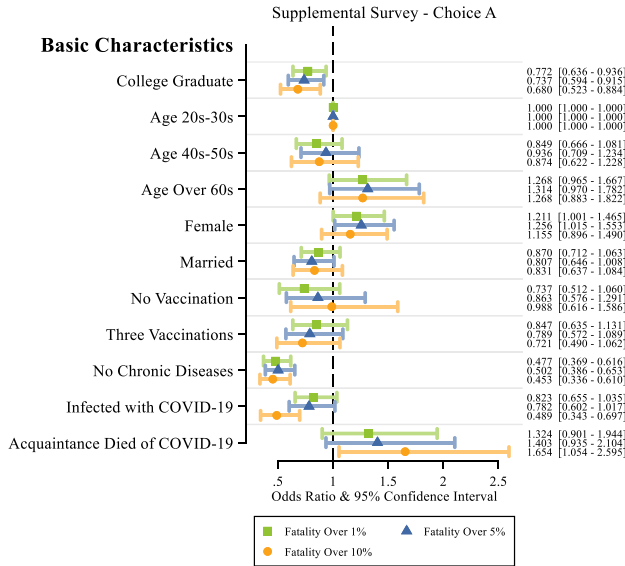


38 Note: N(Each group) = 2,002. In the regressions, we control for the media source and regional fixed
39 effects.

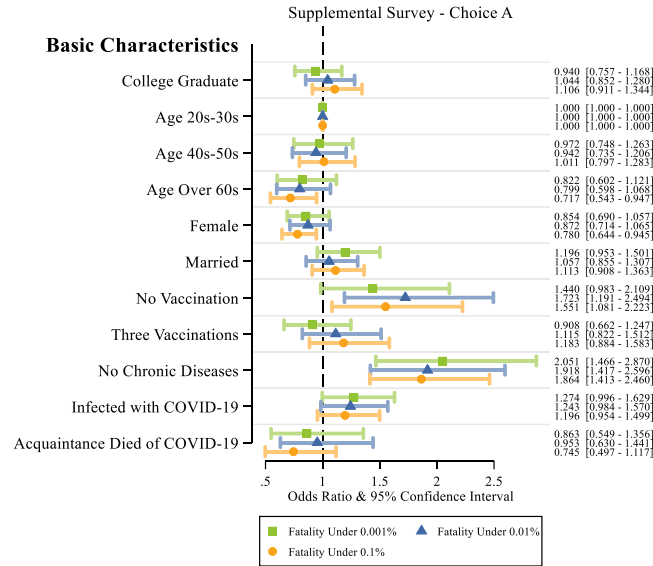
Figure SI3 Factors Associated with Fatality Risk Perception – Supplemental Survey

A. Group Choice A

(a) Risk Overestimation

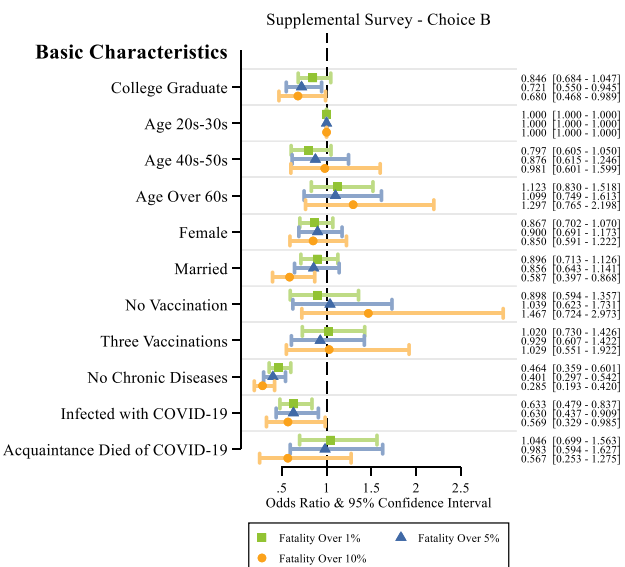


(b) Risk Underestimation

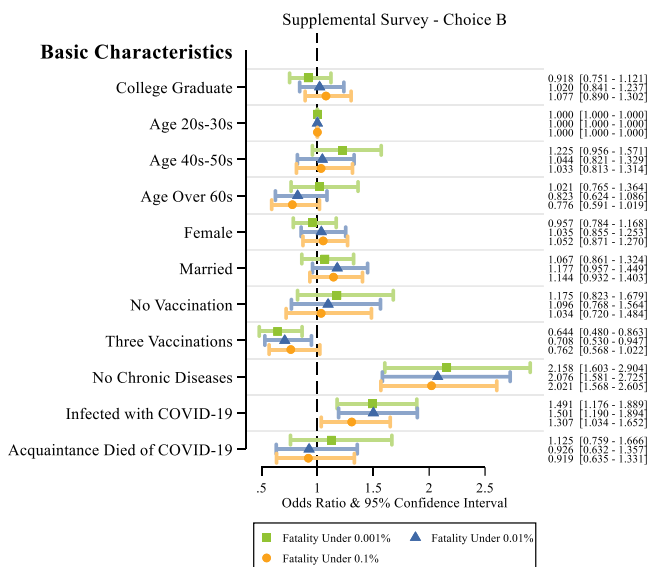


B. Group Choice B

(a) Risk Overestimation

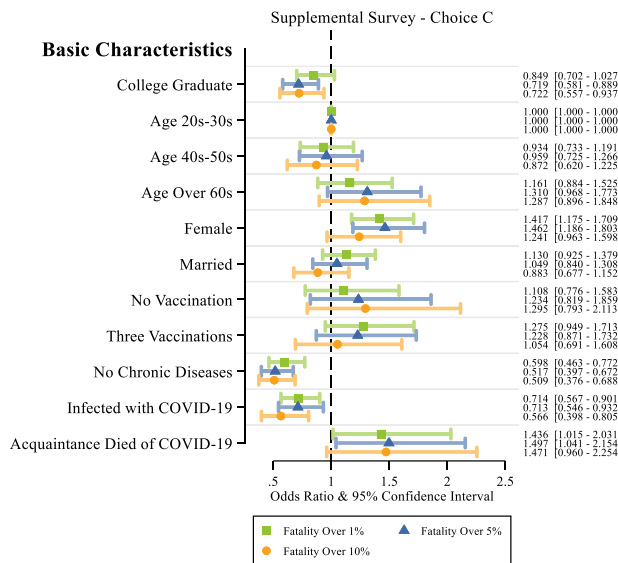


(b) Risk Underestimation

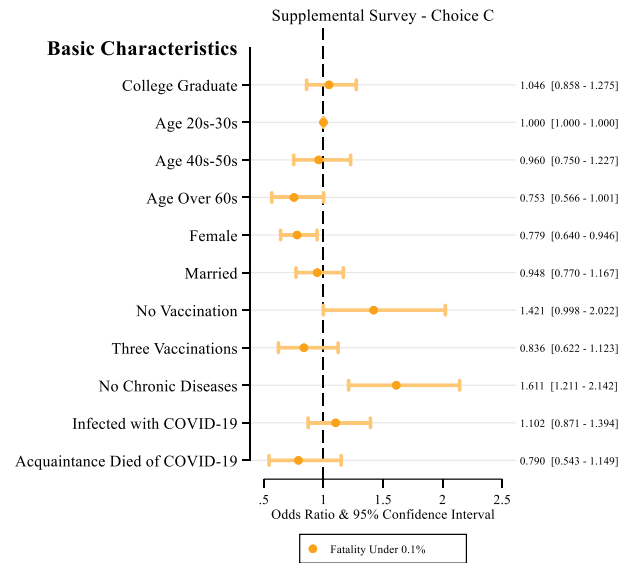


47 C. Group Choice C

48 (a) Risk Overestimation



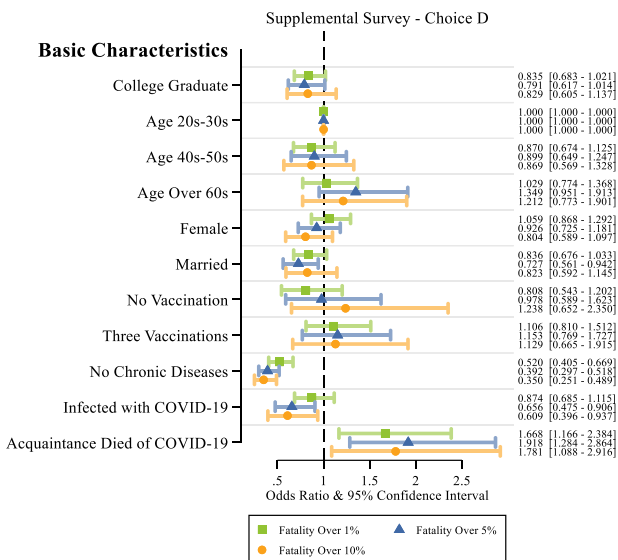
(b) Risk Underestimation



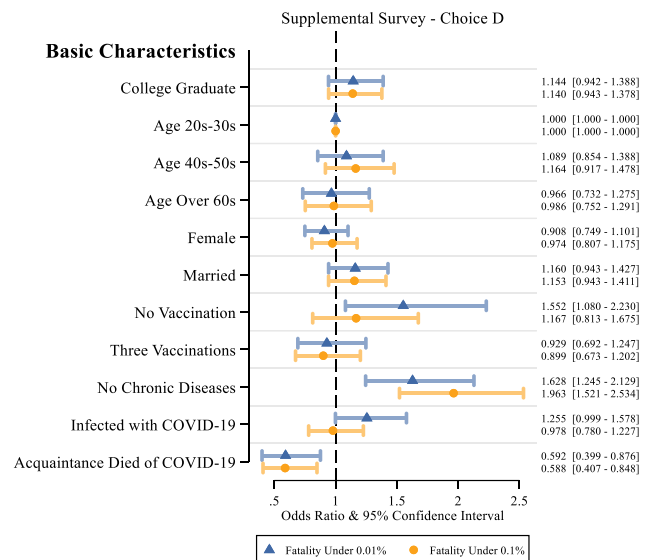
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50 D. Group Choice D

51 (a) Risk Overestimation



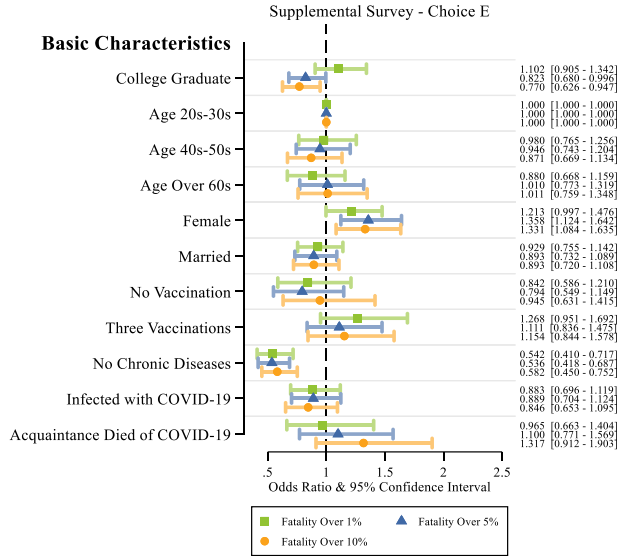
(b) Risk Underestimation



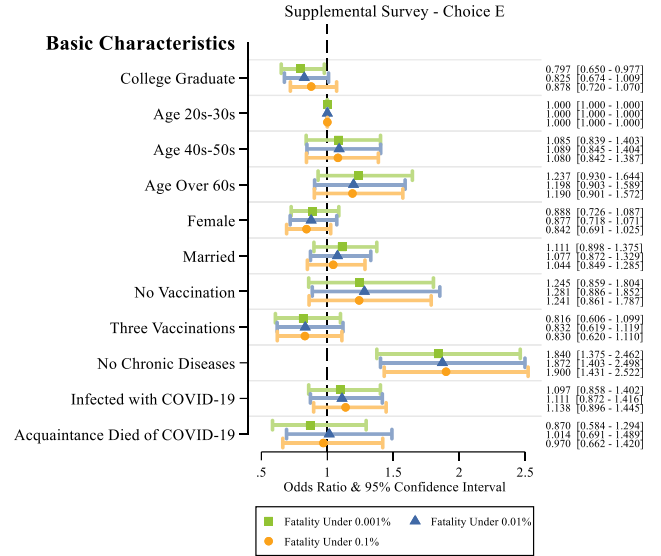
52

53 E. Group Choice E

54 (a) Risk Overestimation



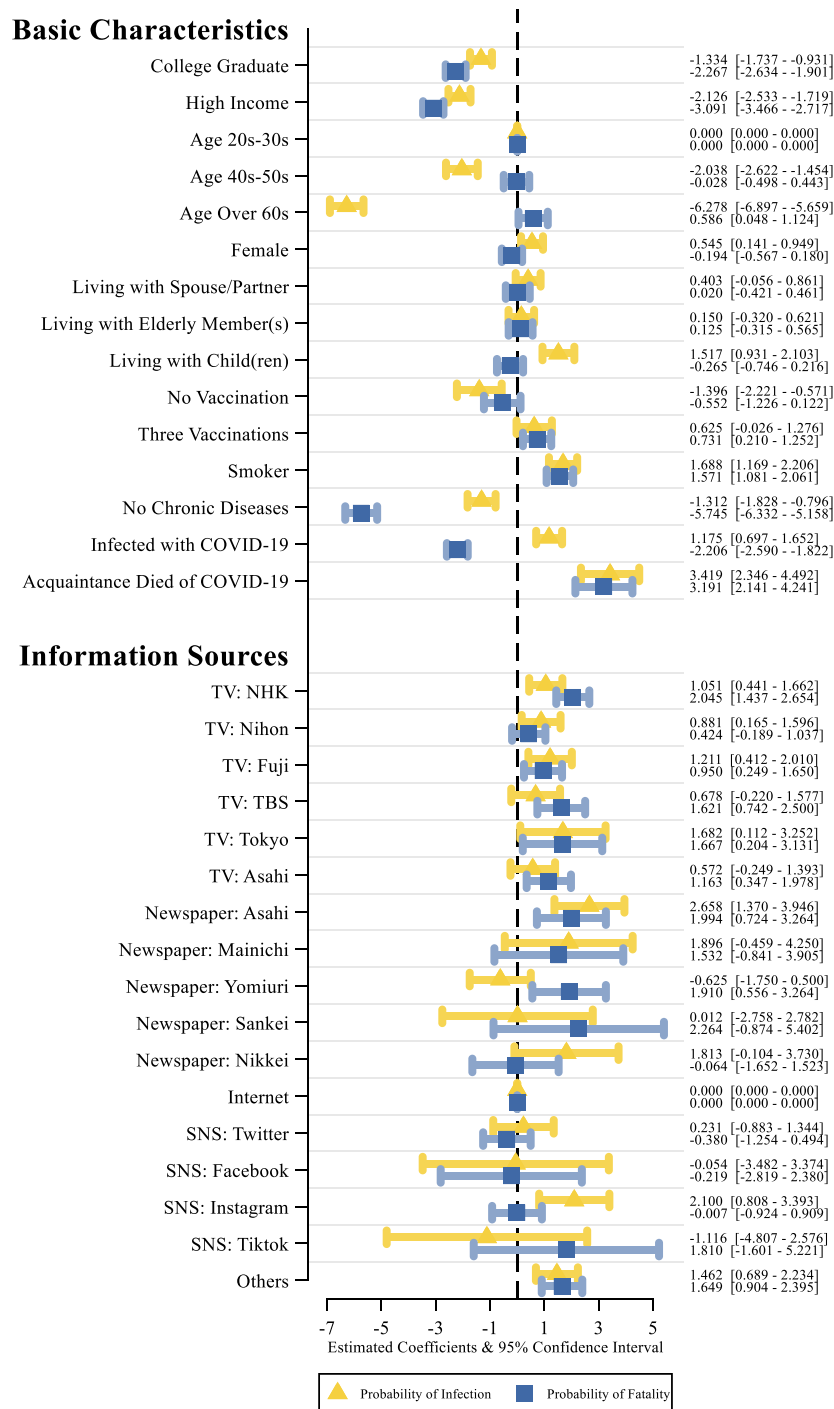
(b) Risk Underestimation



55 Note: N(Each group) = 2,002. In the regressions, we control for the media source and regional fixed

56 effects.

57 **Figure SI4 Results from Linear Regression – Main Survey**

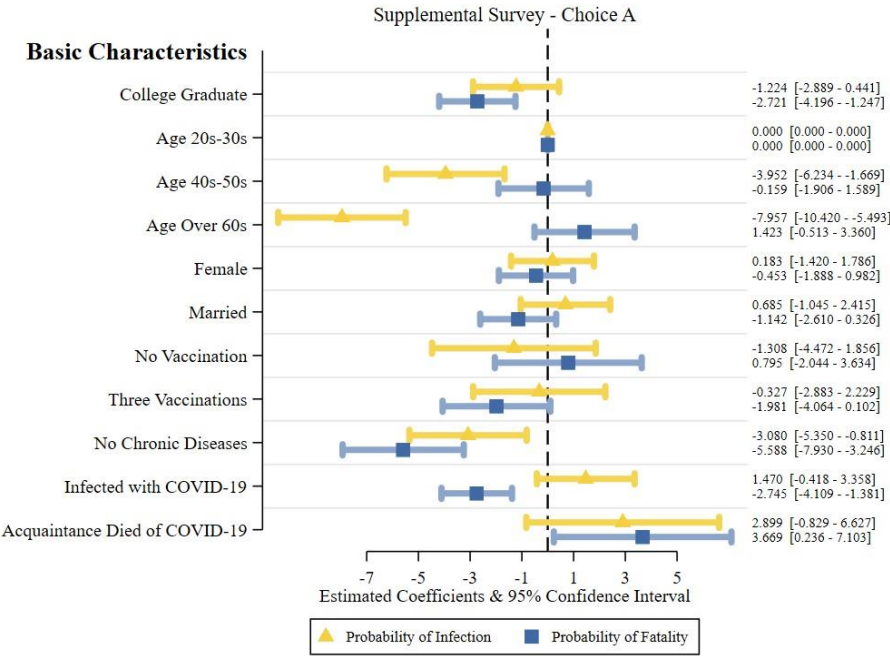


58

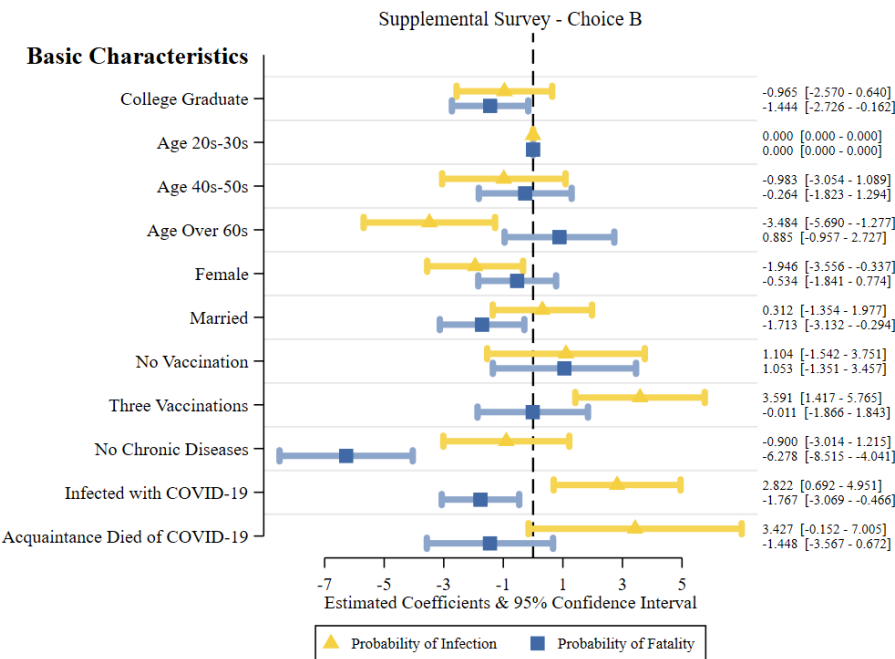
59 Note: Coefficients and the corresponding 95% confidence intervals are presented at the right-
 60 hand most in this figure. N = 40,000.

Figure SI5 Results from Linear Regression – Supplemental Survey

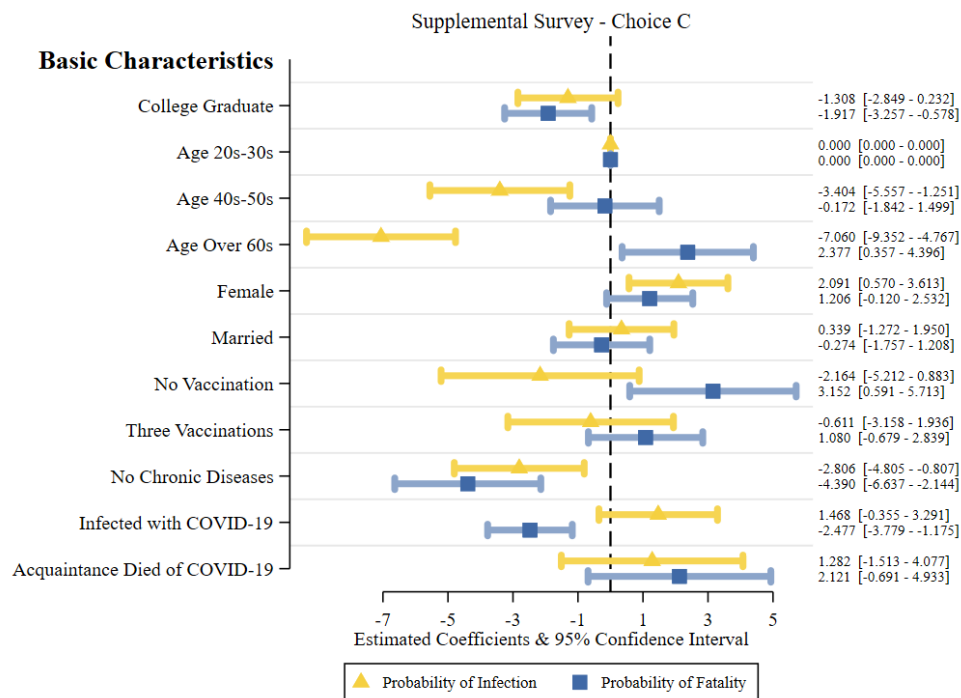
a) Group Choice A



b) Group Choice B

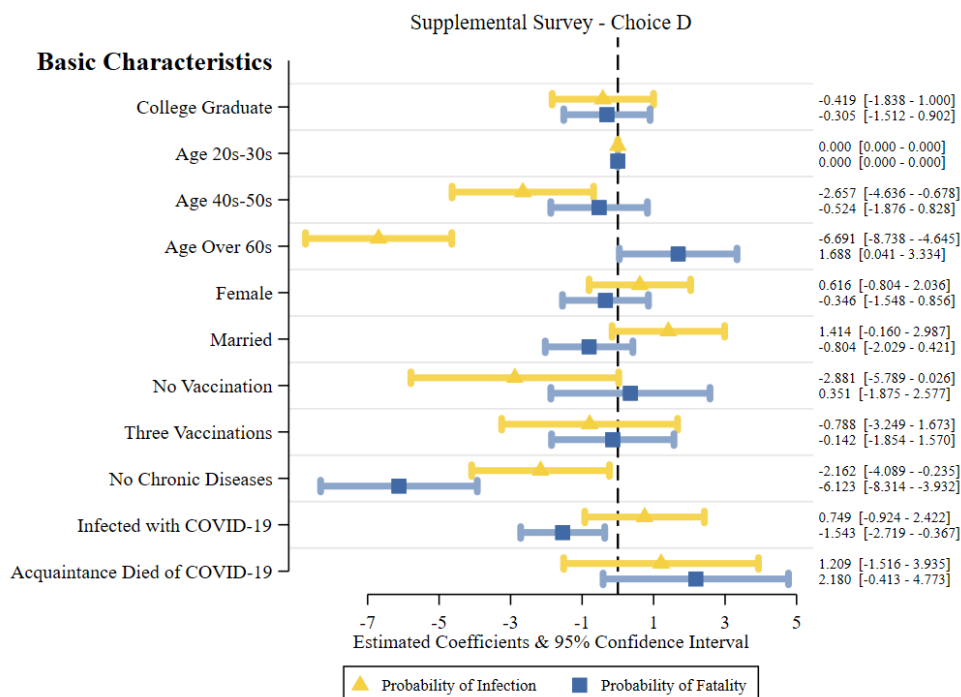


65 c) Group Choice C



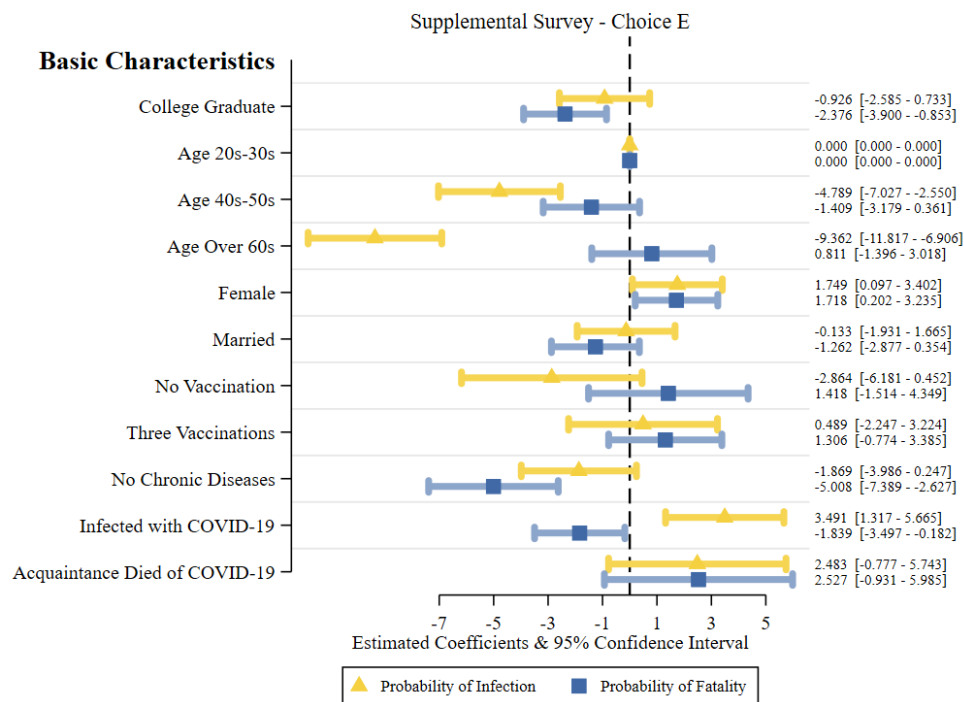
66

67 d) Group Choice D



68

69 e) Group Choice E

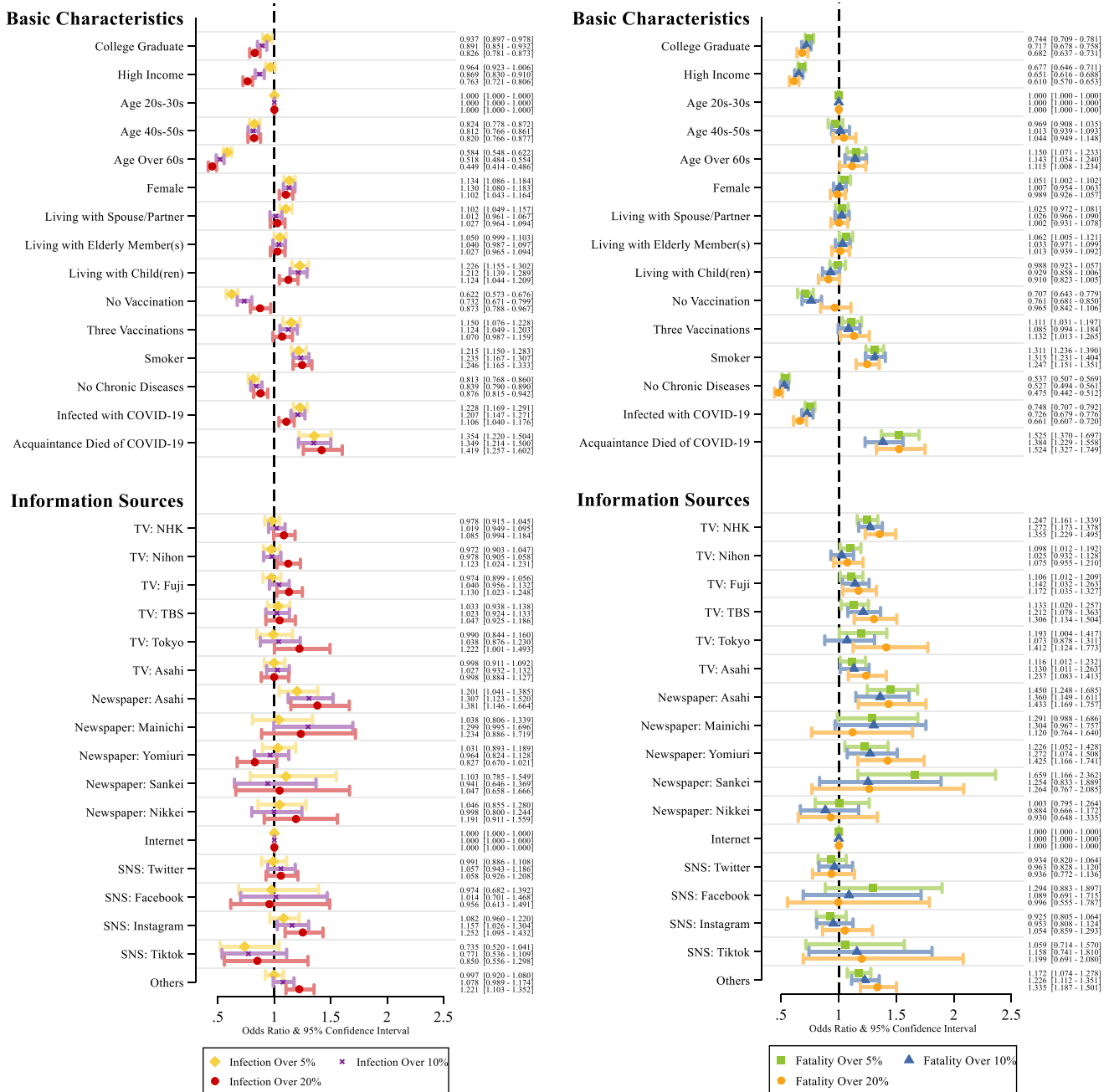


70
71 Note: N(Each group) = 2,002. Coefficients and the corresponding 95% confidence intervals are
72 presented at the right-hand most in this figure. In the regressions, we control for the media source
73 and regional fixed effects.

74 **Figure SI6 Risk Overestimation: Alternative Thresholds (Main Survey)**

75 (a) Infection Risk

(b) Fatality Risk

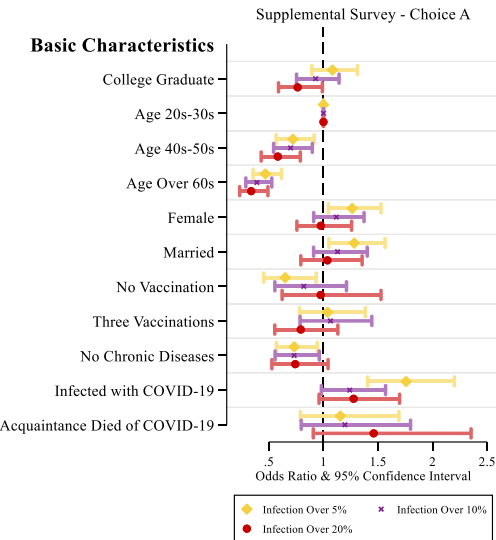


76 Note: N = 40,000. In the regressions, we also control for prefecture fixed effects.

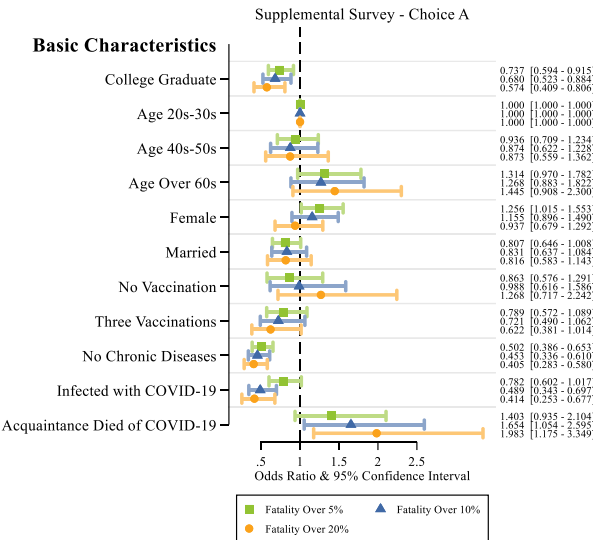
Figure SI7 Risk Overestimation: Alternative Thresholds (Supplemental Survey)

A. Group Choice A

(a) Infection Risk

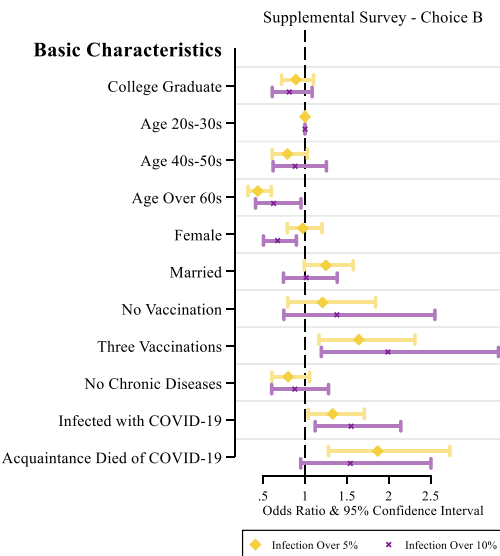


(b) Fatality Risk

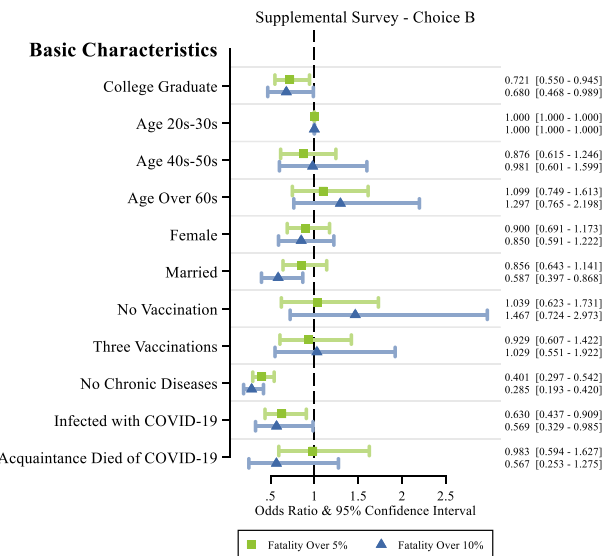


B. Group Choice B

(a) Infection Risk

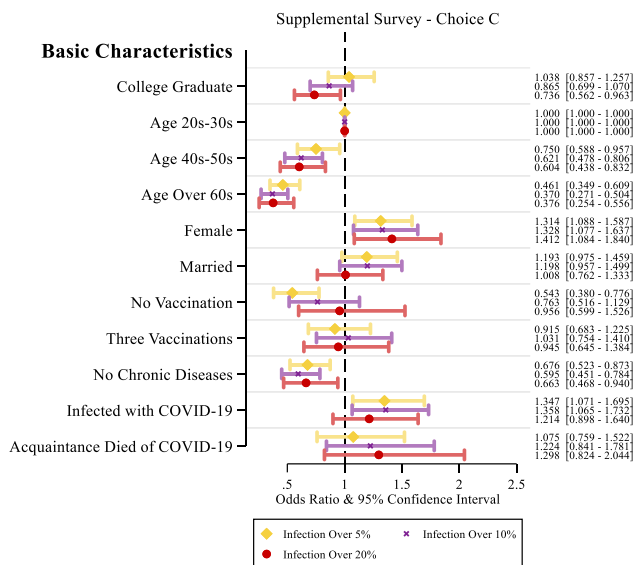


(b) Fatality Risk

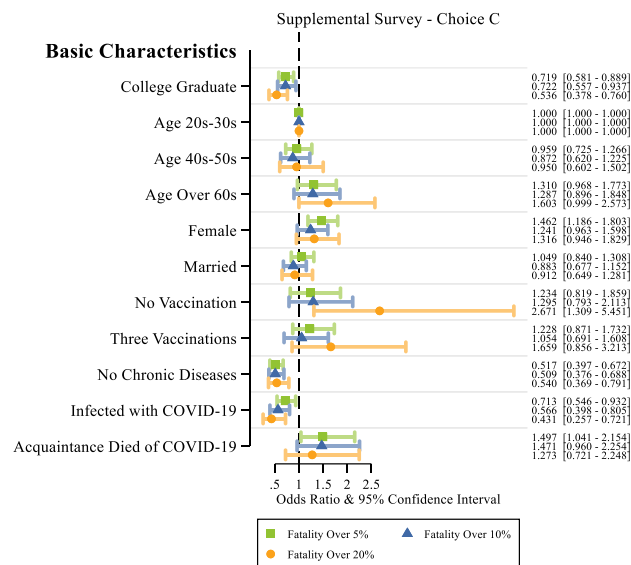


84 C. Group Choice C

85 a) Infection Risk



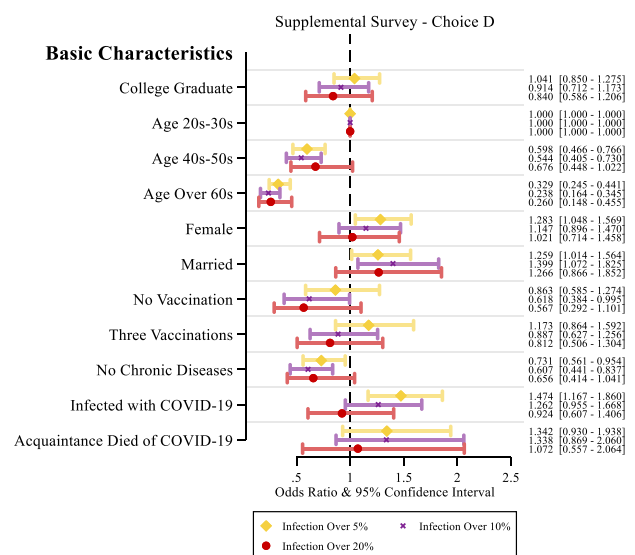
(b) Fatality Risk



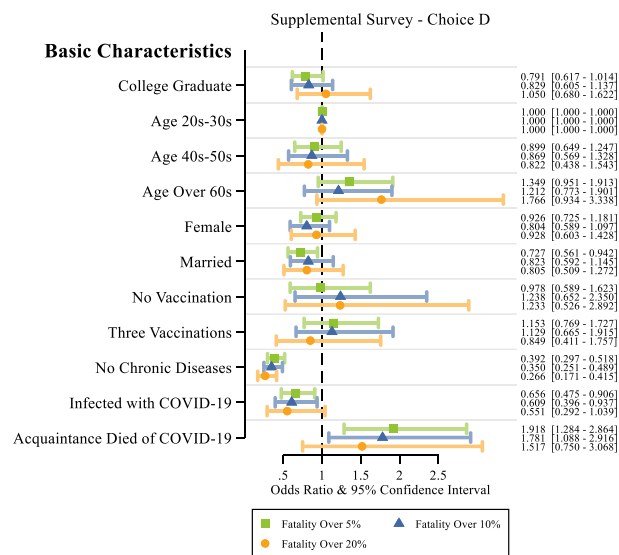
86

87 D. Group Choice D

88 a) Infection Risk



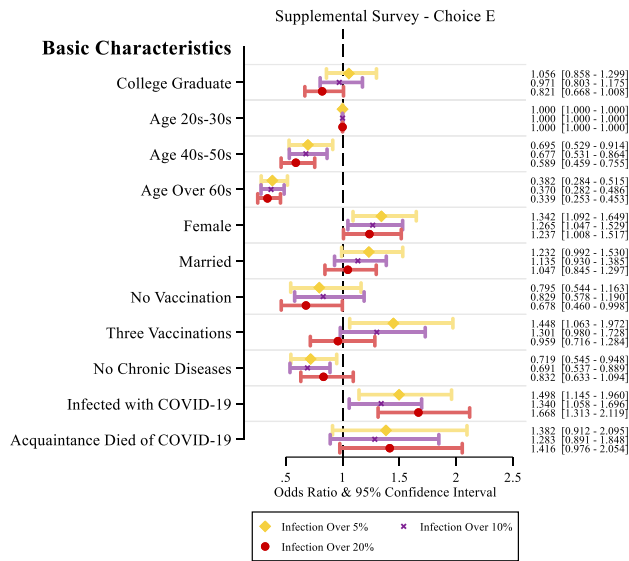
(b) Fatality Risk



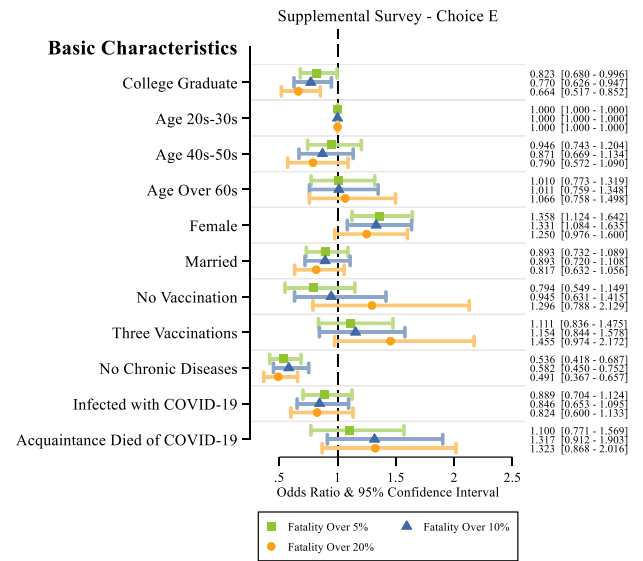
89

90 E. Group Choice E

91 a) Infection Risk



(b) Fatality Risk



92 N(Each group) = 2,002. In the regressions, we control for the media source and regional fixed effects.