Trust and Needles: How Perceptions of Inequality Shape Vaccination in South Korea

Table A1. Survey information for individual-level analysis

	Data	Description	Source	Website
1	2021 Koreans' Happiness Survey	Happiness levels, inequality, and their determinants in Korea, providing insights into subjective well-being, attitudes, beliefs, and social values	National Assembly Futures Institute	https://kossda.snu.ac.kr/handle/20.500.12236/25423/simple-search

Note: The survey data from 2020 lacks the variables necessary for this study.

Table A2. Variables for individual-level analysis

	Variable	Description	Note
1	Vaccine Trust	Q: It is difficult to believe the information provided about a vaccine. 1 (=Highly agreed) to 5 (=Not agreed at all)	
2	Vaccination	Q: Have you been vaccinated against COVID-19 and (if not) are you willing to get vaccinated in the near future? Having received at least one vaccination to date or intending to receive one in the near future = 1 Not intending to receive a vaccination or not sure = 0	
3	Science Trust	Q: Science and technology will make human life more comfortable and convenient Very unlikely (=1) ~ Very likely (=5)	
4	Social Trust	Q: Most people are trustworthy in the society Very unlikely (=1) ~ Very likely (=5)	
5	(Perceived) Inequality	Q: How equal or unequal do you think income and wealth are in our society? 1 (=Very low) to 5 (Very high)	
6	Income	Individual Income from various sources, including earned, business, property, and transfer income.	Unit: 10000KRW

		None = 1 Less than 100 = 2 100 ~ 200 = 3 200 ~ 300 = 4 300 ~ 400 = 5 400 ~ 500 = 6	500 ~ 600 = 7 600 ~ 700 = 8 700 ~ 800 = 9 800 ~ 900 = 10 900 ~ 1000 = 11 Over 1000 = 12	As of June 21, 2023, the exchange rate between the United States Dollar (USD) and the South Korean Won (KRW) stands at 1USD to 1,288.60KRW.
7	Homeownership	Homeownership = 1 Otherwise = 0		
8	Education	None = 0 Primary = 1 Middle school = 2 High school = 3 College (less than 4 years) = 4 College (for years) or over = 5		
9	Professional	Manager or Professional		Based on ISCO/ILO classification
10	Sex	Woman = 1 Otherwise = 0		
11	Age	10s and 20s = 1 30s = 2 40s = 3 50s = 4 60s = 5 70s or over = 6		
12	Marriage	Living with spouse or partner = 1 Otherwise = 0		
13	Religion	Having a religion = 1		

		Otherwise = 0
14	Ideology	Left (=1) ~ Right (=10)

Table A3. Variables for district-level analysis

	Variable	Description	Year	Source	Website
1	Vaccination	- Influenza vaccination rates	2015-2021	Korean Statistical Information Service	https://kosis.kr/statHtml/statHtml.do?orgId=177&tblId=DT_INFLUENZA&conn_path=I3
2	Economic Inequality	$p^d = \frac{\sum_{h \in d(R_{10})} I_{R10}}{\sum_{h \in d(P_{40})} I_{P40}}$	2015-2021	National Health Insurance Service	https://www.nhis.or.kr/nhis/together/wbhaec06900m01.do
3	Income & Wealth	Average insurance premium (KRW) # Natural logarithm transformation	2015-2021	National Health Insurance Service	https://www.nhis.or.kr/nhis/together/wbhaec06900m01.do
4	Education	$\frac{\text{Population of high education}}{\text{Population of low education}}$ - High education: Population with Tertiary education or higher based on national census data	2015-2021	Korean Statistical Information Service	https://kosis.kr/statHtml/statHtml.do?orgId=101&tblId=DT_1PM2003&conn_path=I3
5	Age	- Average age of population	2015-2021	Ministry of the Interior and Safety of South Korea	https://kosis.kr/statHtml/statHtml.do?orgId=101&tblId=INH_1IN1503_02&conn_path=I3
6	Sex	$\frac{\text{Male population}}{\text{Female population}}$	2015-2021	Korean Statistical Information Service	https://kosis.kr/statHtml/statHtml.do?orgId=101&tblId=DT_1YL20701
7	Urbanization	$\frac{\text{Population living in urban area}}{\text{Population}}$	2015-2021	Ministry of Land, Infrastructure and Transport of South Korea	https://kosis.kr/statHtml/statHtml.do?orgId=315&tblId=TX_315_2009_H1001
8	Hospital availability	$\frac{\text{Number of hospitals}}{\text{Population}}$	2015-2021	Korean Statistical Information Service	https://kosis.kr/statHtml/statHtml.do?orgId=354&tblId=DT_HIRA4B&conn_path=I3

Note: Economic Inequality is based on Palma ratio.