ONLINE APPENDIX

Mental Health Costs of Lockdowns: Evidence from Age-specific Curfews in Turkey

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Appendix A A review of the literature on the effects of Covid-19 on mental health

Study	Empirical strategy	Sample	Main finding
Adams-Prassl	Difference-in-	Two-waves of	Mental health score
et al. (2020)	differences	repeated cross-	of individuals who
	methodology.	section data collected	live in the states
		in March and	that imposed a
		April 2020 from	COVID-19 lockdown
		employed adults	is 0.85SD below
		who live in the U.S.	below compared to
			those who did not.
Armbruster and	Event study design.	Daily contacts to 91	20% rise in counsel-
Klotzbücher (2020)		healthline-centers in	ing requests during
		Germany collected	the week of lock-
		between 01/01/2019	down, even stronger
		and 04/28/2020.	increase in areas with
			stricter measures.
Banks and Xu (2020)	Difference between	UK Household	Mental health
	observed and coun-	Longitudinal Study	of adults in the
	terfactual outcomes	(UKHLS) waves 1-9	U.K. deteriorated
	in the absence of	(2009-2019) merged	by 8.1% due to
	pandemic in April	with April 2020	Covid-19 pandemic,
	2020. Counterfactual	COVID-19 Survey.	with larger drops
	outcomes are pre-		among younger and
	dicted by regression		female population.
	models using past		
	data, including indi-		
	vidual fixed-effects.		
Beland et al. (2020)	Comparison of pre-	Canadian Perspective	Workers who are
	and post-COVID out-	Survey Series	most severely
	comes adjusted for	1 - Impacts of	affected by the
	pre-determined	COVID-19 (CPSS)	pandemic report
	covariates.		worse self-reported
			mental health
			than their peers.

Brodeur et al. (2020)	Difference-in-	Google Trends	Following the
, ,	differences	data related to	restricted mobility,
	methodology	13 pre-defined	search intensity
	and Regression Dis-	well-being terms	of Google users
	continuity Design.	between January 1st	increase for boredom
		- April 10 th (2019	loneliness, worry and
		and 2020) from	decrease for stress,
		Europe and the U.S.	suicide, and divorce
Burdett et al. (2020)	Difference-in-	Covid-19 module	During the lock-
	differences method-	from the UK House-	downs, weather
	ology that rely on	hold Longitudinal	patterns (tempera-
	variation in local	Study (UKHLS)	ture, sunshine, and
	weather conditions.	April, May, June, and	rainfall) have very
		July 2020 merged	little differential im-
		with the waves	pact on mental healt
		10-11 (2019) of	despite its strong
		the main survey.	impact on mobility.
Daly et al. (2020)	Longitudinal	Covid-19 module	Proportion of
	trend analysis.	from the UK House-	individuals who
		hold Longitudinal	report mental health
		Study (UKHLS)	problems increased
		April, May, and June	by 13.5 percentage
		2020 merged with the	points from 2017-
		wave 9 (2017-2019)	2019 baseline to Apr
		of the main survey.	2020 and remained
			high until June 2020
Etheridge and	Longitudinal trend	UK Household	The decrease in
Spantig (2020)	analysis by gender.	Longitudinal Study	mental health
		(UKHLS) waves 1-9	among the UK
		(2009-2019) merged	population is more
		with April 2020	than twice larger
		COVID-19 Survey.	among women.
			Social factors such a
			loneliness explains
			the gender gap.

Estman at -1 (2020)	Tues described to 1	Canala T 1 . 1	Tanania and a
Fetzer et al. (2020a)	Trend analysis and	Google Trends data	Economic anxiety
	online random-	related to economic	exhibits a strong
	ized experiment.	anxiety ("Recession",	upward trend in par-
		"Stock Market Crash",	allel to the course of
		"Conspiracy Theory",	the pandemic. Access
		"Survivalism"), two	to information and
		online experimental	ways of communi-
		surveys from the	cating directly affect
		U.S. (March 5^{th} and March 16^{th} , 2020.	the economic anxiety.
Fetzer et al. (2020b)	Descriptive anal-	Survey data collected	Strong government
	ysis and event	from 100,000	response to COVID-
	study design.	participants and 58	19 leads to a decrease
		countries in March	in the likelihood
		and early April 2020.	of respondents
			to report worry
			and depression.
Giuntella et al. (2020)	Longitudinal analysis	Wearable health	Substantial decrease
	of survey and	device data from	in physical activity,
	biometric data.	University of	increase in phone
		Pitsburgh students	interaction and sleep,
		between Spring 2019	and 65% increase
		and Spring 2020	in depression risk.
		with baseline and	
		end-line surveys	
		in each semester.	
Holman et al. (2020)	Longitudinal analysis	U.S. probability-	Increased likelihood
	of survey data	based nationally	of reporting symp-
		representative survey	toms of acute stress
		NORC AmeriSpeak	and depression.
		panel, three waves	Poor baseline health
		collected between	and media exposure
		March 18 th and	further deteriorates
		April 18 th , 2020.	mental health.
Proto and Quintana-	Longitudinal	Covid-19 module	Black, Asian, and
Domeque (2020)	subgroup analysis	from the UK House-	other minorities in
	of survey data	hold Longitudinal	the UK experience
		Study (UKHLS) April	a larger decrease
		2020 merged with the	in mental health
		wave 9 (2017-2019)	compared to the
		of the main survey.	white population.

Tubadji et al. (2020)	Difference-in-	Google Trends data	Lockdowns have
	differences	related to mental	a negative impact
	methodology	health ("death",	on mental health
	and Regression Dis-	"suicide") collected	through experienced
	continuity Design.	from Italy and UK	fear of death.
		collected between	
		March 12^{th} and	
		March 23 rd , 2020.	

We also note that our results add to the documented adverse mental health impacts following large-scale natural disasters and stressful events such as Zika and SARS outbreaks, major earth-quakes, and terrorist attacks.^{1,2} In addition, our paper also contributes to the growing literature on the effects of pandemic-driven social isolation on at-risk populations, including adolescents, elderly people, homeless people, people with disabilities, and people with mental health concerns (Pfefferbaum and North 2020; Dotson and Koh 2020; Armitage and Nellums 2020). Given their heightened risk of physical and mental health problems, exposure to social isolation is a particularly important concern for the older adults we study in this paper. However, since several other high-risk groups also face the risk of adverse mental consequences due to social isolation, our findings have broader implications for evaluating the risks for such groups.³ Finally, potential scarring effects could impact the long-term mental health of isolated individuals; these effects are likely to pose problems long after the stay-at-home orders cease.⁴

¹See, for example, Galea et al. (2002), Lee et al. (2007), Neria et al. (2008), Yokoyama et al. (2014), and Galea et al. (2020)

²Rapidly growing literature on the impact of COVID-19 on mental wellbeing faces similar identification challenges. The majority of these studies report increased symptoms or cross-sectional correlates of mental health problems experienced by the general population of countries affected by the pandemic. These studies include, but are not limited to, Ahmed et al. (2020); González-Sanguino et al. (2020); Hwang et al. (2020); Lei et al. (2020); Liu et al. (2020); Lu et al. (2020); Moccia et al. (2020); Moghanibashi-Mansourieh (2020); Olagoke et al. (2020); Ozamiz-Etxebarria et al. (2020); Özdin and Bayrak Özdin (2020); El-Zoghby et al. (2020); Qiu et al. (2020); Samadarshi et al. (2020); Sønderskov et al. (2020); Wang et al. (2020a,b,c); Zhang and Ma (2020). See Xiong et al. (2020) for a more in-depth discussion of this literature.

³These risks are particularly serious for children and adolescents with special needs or disadvantages, such as disabilities, trauma experiences, and existing mental health problems (Fegert et al. 2020).

⁴While previous studies have discussed the pandemic's scarring effects on long-term beliefs affecting economic outcomes (Kozlowski et al. 2020), scant attention has been given to the potential scarring effects on long-term mental health outcomes. When we consider the historical accounts of the Spanish flu, demographic evidence suggests that exposed populations reported depression, mental distraction, and sleep disturbances even six years after the pandemic (Eghigian 2020).

Appendix B List of Variables

Outcome Variables:

- Days outside last week: The number of days the respondent went outside last week.
- Under curfew: A dummy variable equal to one if the respondent reported being subject to the curfew within the last month.
- Never goes out: A dummy variable equal to one if the respondent reported his/her current frequency of going outside as "never going outside".
- Mental distress indices: Following Anderson (2008), each index is generated by demeaning
 its component outcomes and converting them to effect sizes through dividing by control
 group standard deviation. The demeaned values are subsequently combined by weighting
 according to the inverse of the covariance matrix.
 - Somatic symptoms of distress index: a z-score calculated by averaging the z-scores from each of the 4 somatic symptoms of distress indicators, including dummy variables equal to one if the respondent reports that she experienced the following within the last four weeks: (i) frequent headaches, (ii) shaking hands, (iii) poor digestion, and (iv) uncomfortable feelings in the stomach.
 - Nonsomatic symptoms of distress index: a z-score calculated by averaging the z-scores from each of the 16 nonsomatic symptoms of distress indicators, including dummy variables equal to one if the respondent reports that she experienced the following within the last four weeks: (i) poor appetite, (ii) sleeping badly, (iii) been easily frightened, (iv) felt nervous, tense, or worried, (v) had trouble in thinking clearly, (vi) felt unhappy, (vii) cried more often than usual, (viii) found it difficult to enjoy daily activities, (ix) found it difficult to make decisions, (x) daily work suffered, (xi) been unable to play a useful part in life, (xii) lost interest in things, (xiii) felt that he/she was a worthless person, (xiv) thought about suicide, (xv) felt tired all the time, and (xvi) got tired easily.
 - Mental distress index: A z-score calculated by averaging the z-scores from 20 symptoms of mental distress indicators, including 4 somatic and 16 nonsomatic indicators, as listed above.
- Paid employed: A dummy variable equal to one if the respondent reported working to earn income in cash or kind in the reference week.
- Paid or unpaid employed: A dummy variable equal to one if the respondent reported working to earn income or working as an unpaid family worker in the reference week.
- Has a job but could not attend last week: A dummy variable equal to one if the respondent reported having a job but could not attend this job last week.
- Has enough money for usual needs: A dummy variable equal to one if the respondent reported having enough money for satisfying his/her usual needs last month.

- Worried about spending money: A dummy variable equal to one if the respondent reported being worried about spending money last month.
- Limited social interaction: A dummy variable equal to one if the respondent reported that his/her social interaction with friends and family has been extremely limited or very limited in the last month compared to pre-Covid times.
- Limited physical activity: A dummy variable equal to one if the respondent reported that his/her physical activity (e.g. walking, running, doing sports, etc.) has been extremely limited or very limited in the last month compared to pre-Covid times.
- Household size: The number of people currently residing with the respondent in the same household.
- Conflict with a household member: A dummy variable equal to one if the respondent reported that he/she had a conflict with a household member last month.
- Supports the 65+ age-specific curfew: A dummy variable equal to one if the respondent reported being somewhat, very, or extremely supportive of the curfew policy.
- Satisfied with the government's Covid-19 policy response: A dummy variable equal to one if the respondent reported being somewhat, very, or extremely supportive of the government's policy response to Covid-19.

Covariates:

- Completed high school: A dummy variable equal to one if the respondent completed high school or above.
- Illiterate: A dummy variable equal to one if the respondent is illiterate.
- Female: A dummy variable equal to one if the respondent is female.
- Married: A dummy variable equal to one if the respondent is married.
- Widowed or separated: A dummy variable equal to one if the respondent is widowed or separated.
- Non-Turkish: A dummy variable equal to one if the respondent has a non-Turkish ethnic identity, e.g. Arabic, Kurdish, or other.
- Pre-Covid-19 household size: The number of people residing with the respondent in the same household prior to the Covid-19 outbreak.
- Ever received psychological support: A dummy variable equal to one if the respondent has ever received psychological support.
- Has a chronic disease: A dummy variable equal to one if the respondent has a chronic disease.

Outcome Variables in Appendix B:

- Poor physical health: A dummy variable equal to one of the respondent reports having a poor or very poor physical health.
- Poor mental health: A dummy variable equal to one of the respondent reports having a poor or very poor mental health.
- Suffering: A dummy variable equal to one if the respondent reports poor ratings of their current life situation (4 and below) and negative ratings for the next five years (4 and below).
- Each one of the below outcomes is a dummy variable that equals one if the respondent agreed with the statement:
 - Considers himself/herself religious: "Religion has an important place in my life."
 - Prays daily: "I prayed most of the day during the last month."
 - Agrees that one should live by the holy book: "One should live word-by-word the holy book."
 - Agrees that virus is a God-sent warning: "Epidemics is a God sent warning to humanity."
- Religiosity index: A standard normalized z-score calculated by averaging the individual 4
 religiosity indicators defined above. Following Anderson (2008), the index is generated by
 demeaning its component outcomes and converting them to effect sizes through dividing
 by control group standard deviation. The demeaned values are subsequently combined by
 weighting according to the inverse of the covariance matrix.

Appendix C Survey Questionnaire

- 1. Province where the respondent lives in.
- 2. Type of residence
 - a. Rural
 - b. Urban
- 3. How many people are currently living in your household?
- 4. In normal times (prior to the pandemic), how many people live in your household?
- 5. What is your relationship to the household head?
 - a. Household head
 - b. Spouse
 - c. His/her children
 - d. Father / Mother
 - e. Brother / Sister
 - f. Father in law / Mother in law
 - g. Son in law / Daughter in law
 - h. Grandchild
 - i. Other relatives
 - j. Non-relatives
 - k. Housekeeper staying at home
- 6. Respondent's gender
 - a. Male
 - b. Female
- 7. How old are you?
- 8. What is your marital status?
 - a. Never married
 - b. Married
 - c. Divorced
 - d. Widowed
- 9. If married, how old is your spouse?
- 10. What is your education level, i.e. the highest degree of education you completed?
 - a. Illiterate.

- b. Literate but not completed any educational institution.
- c. Completed primary school (5 years of schooling)
- d. Completed lower secondary, vocational and technical secondary school, or primary education
- e. Completed upper secondary school (high school)
- f. Completed 2- or 3-year higher education or faculty or 4 years higher education or faculty (university)
- g. Completed Master's degree (5 or 6 years faculty included) or PhD
- 11. What is your year of birth as written in your national ID card? [Please ask the respondent to look at his/her ID card and tell.]
- 12. What is your month of birth as written in your national ID card? [Please ask the respondent to look at his/her ID card and tell.]
- 13. As you know there has been some recent regulations regarding going outside due to the coronavirus outbreak. Were you subject to the curfew for citizens 65 and plus over the last month? (Yes/No)
- 14. Over the last week, how many times did you go out?
- 15. Over the last month, how many times did you go out in a week on average?
- 16. As you know, those 65 and older were permitted to go outside in certain days of the week. Apart from these permits, how many times did you go out in the last week?
- 17. Which of the following explains your status regarding going outside?
 - a. I go out as much as I used to.
 - b. I go out less often.
 - c. I go out only to satisfy basic needs such as shopping.
 - d. I go out only to work.
 - e. I never go out.
- 18. Did you work to earn income in cash or kind in the reference week? (Yes/No)
- 19. (Ask if answer to 18 is NO) Did you work for an hour in the reference week in order to earn income or as unpaid family workers, even if you are a housewife, student or retired? (Yes/No).
- 20. Do you have a business or job in which you were temporarily absent in the reference week? (Yes/No)
- 21. (Ask if answer to 20 is YES) Why were you absent from this work in the reference week?
 - a. His/her illness, injury or temporary ill

- b. Workplace shut down for economic reasons
- c. Furlough
- d. Government employment ban due to COVID-19
- e. Laid off even though workplace did not shut down
- f. Nature of work
- g. There was no work
- h. Other
- 22. What was your employment status at your most recent (or current) job?
 - a. Wage or salaried employee or casual workers
 - b. Employer
 - c. Self-employed
 - d. Unpaid family worker
- 23. What is the sector that you work in?
- 24. What was your occupation at your most recent (or current) job?
- 25. Do you have enough money to satisfy your usual needs compared to those times prior to the outbreak of COVID-19 crisis? (Yes/No)
- 26. In the last month, have you ever worried about spending money? (Yes/No)
- 27. Please imagine a ladder with steps numbered from zero at the bottom to ten at the top. The top of the ladder represents the best possible life for you and the bottom of the ladder represents the worst possible life for you. On which step of the ladder would you say you personally feel you stand at this time? (Scale:1-10)
- 28. On which step do you think you will stand about one year from now? (Scale:1-10)
- 29. Would you say your own health, in general, is
 - a. Very good
 - b. Good
 - c. Fair
 - d. Poor
 - e. Very poor
- 30. Would you say your own physical health, is
 - a. Very good
 - b. Good
 - c. Fair

- d. Poor
- e. Very poor
- 31. Would you say your own mental health, is
 - a. Very good
 - b. Good
 - c. Fair
 - d. Poor
 - e. Very poor
- 32. Over the last month, how limited has your physical activity been compared to pre-Covid times?
 - a. Extremely limited
 - b. Very limited
 - c. Somewhat limited
 - d. Not so limited
 - e. Not at all limited.
- 33. Over the last month, how limited has your social interaction with your family/friend been compared to pre-Covid times?
 - a. Extremely limited
 - b. Very limited
 - c. Somewhat limited
 - d. Not so limited
 - e. Not at all limited.
- 34. Over the last 4 weeks, have you often had headaches? (Yes/No)
- 35. Over the last 4 weeks, has your appetite been poor? (Yes/No)
- 36. Over the last 4 weeks, have you slept badly? (Yes/No)
- 37. Over the last 4 weeks, have you been easily frightened? (Yes/No)
- 38. Over the last 4 weeks, have you had shaking hands? (Yes/No)
- 39. Over the last 4 weeks, have you felt nervous, tense, or worried? (Yes/No)
- 40. Over the last 4 weeks, has your digestion been poor? (Yes/No)
- 41. Over the last 4 weeks, have you had trouble in thinking clearly? (Yes/No)
- 42. Over the last 4 weeks, have you cried more often than usual? (Yes/No)

- 43. Over the last 4 weeks, have you found it difficult to enjoy your daily activities? (Yes/No)
- 44. Over the last 4 weeks, have you found it difficult to make decisions? (Yes/No)
- 45. Over the last 4 weeks, has your daily work suffered? (Yes/No)
- 46. Over the last 4 weeks, have you been unable to play a useful part in life? (Yes/No)
- 47. Over the last 4 weeks, have you lost interest in things? (Yes/No)
- 48. Over the last 4 weeks, have you felt that you are a worthless person? (Yes/No)
- 49. Over the last 4 weeks, has the thought of ending your life been on your mind? (Yes/No)
- 50. Over the last 4 weeks, have you felt tired all the time? (Yes/No)
- 51. Over the last 4 weeks, have you had uncomfortable feelings in your stomach? (Yes/No)
- 52. Over the last 4 weeks, have you gotten tired easily? (Yes/No)
- 53. Over the last 4 weeks, have you had high blood pressure? (Yes/No)
- 54. Do you have a chronic disease for which you regularly take medication, such as high blood pressure, diabetes, or heart disease?
- 55. Have you ever visited an expert to receive psychological treatment before the lockdown began? (Yes/No)
- 56. Since the lockdown began, have you seen a healthcare professional? (Yes/No)
- 57. Over the last 4 weeks, how many cigarettes have you smoked on average per day?
- 58. How satisfied are you from the government's policy response to Covid-19?
 - a. Extremely satisfied
 - b. Very satisfied
 - c. Somewhat satisfied
 - d. Not so satisfied
 - e. Not at all satisfied.
- 59. How much do you support the curfew for individuals 65 and older?
 - a. Extremely supportive
 - b. Very supportive
 - c. Somewhat supportive
 - d. Not so supportive
 - e. Not at all supportive.
- 60. Over the last month, did you experience a conflict with one of the household members?

- 61. If yes, which household members did you experience the conflict with? (Choose as many as applicable.)
 - a. Spouse
 - b. His/her children
 - c. Father / Mother
 - d. Brother / Sister
 - e. Father in law / Mother in law
 - f. Son in law / Daughter in law
 - g. Grandchild
 - h. Other relatives
 - i. Non-relatives
 - j. Housekeeper staying at home
- 62. Do you agree with the following statements?
 - a. Religion has an important place in my life.
 - b. I prayed most of the day during the last month.
 - c. One should live word-by-word the holy book.
 - d. Epidemics is a God-sent warning to humanity.
- 63. We are all citizens of the Republic of Turkey, but we may have different ethnic backgrounds. How do you define your ethnic identity?
 - a. Turkish
 - b. Kurdish
 - c. Arab
 - d. Other
- 64. What is the total monthly income of all household members? Including all income earned by every household member, how much is the average sum of earnings in a month?

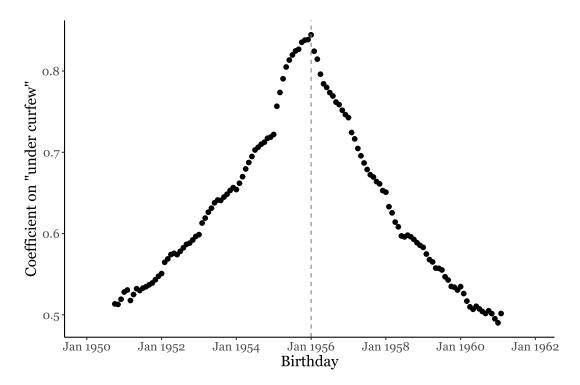
Appendix D Additional Figures and Tables

Percent retired $^{\circ}_{\circ}$ Age

Figure A1: Retirement by AGE: Household Labor Force Survey 2019

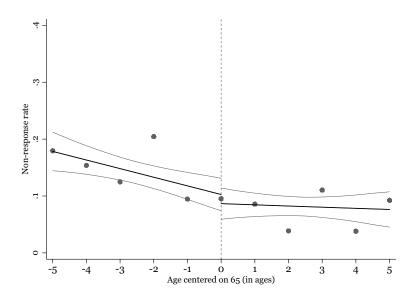
 $\it Note:$ The sample includes all individuals born between January 1950 and December 1961. The vertical line represents the cut-off point by age in 2019.

Figure A2: Grid Search for RD Treatment Thresholds



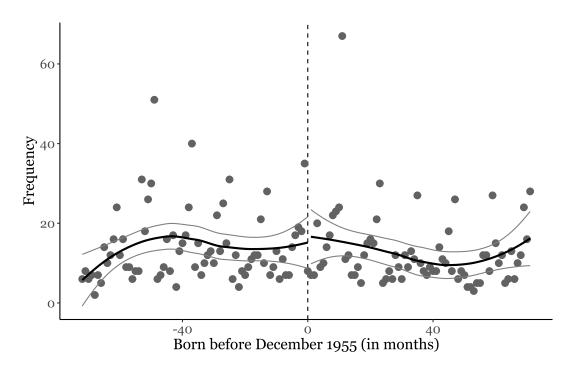
Note: The sample includes all individuals born between January 1950 and December 1961. The vertical line represents the birth year and birth month for which the estimated coefficient of difference in exposure to curfew between the treatment and the control group is maximum. Variable definitions are listed in Appendix B.

Figure A3: Nonresponse Rate around the Age Threshold



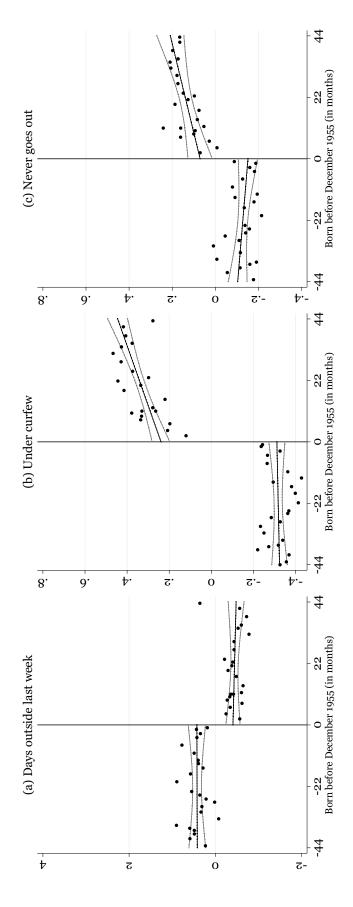
Note: The figure plots the nonresponse rate against the age of the respondent centered on 65. The sample includes all individuals born before and after 5 years around the cutoff age of 65. The vertical line in each graph represents the cut-off point, age 65. Gray lines show 95 percent confidence intervals around the mean level. The outcome variable captures the nonresponse rate of individuals who either did not answer the call, or refused to answer survey questions.

Figure A4: Distribution of Running Variable Around the Threshold



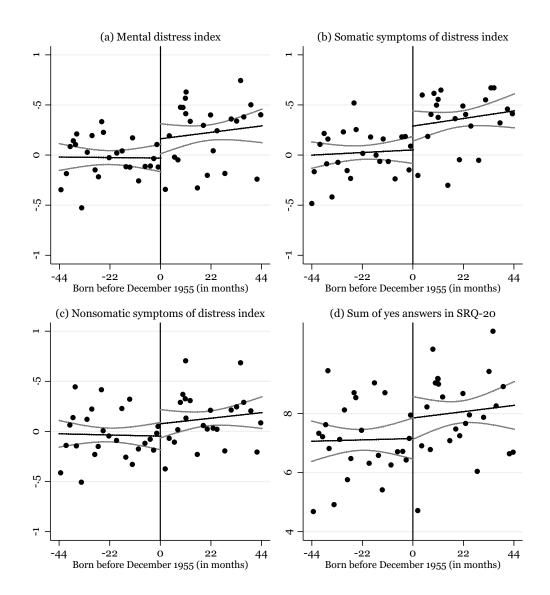
Note: The sample includes all individuals born between January 1950 and December 1961. The vertical line in each graph represents the cut-off point, December 1955. Circles indicate the raw number of observations for each birth month-year bin. Gray lines show 95 percent confidence intervals around the quadratic local polynomial. Variable definitions are listed in Appendix B.

FIGURE A5: RD TREATMENT EFFECTS ON MOBILITY OUTCOMES USING RESIDUALIZED OUTCOMES



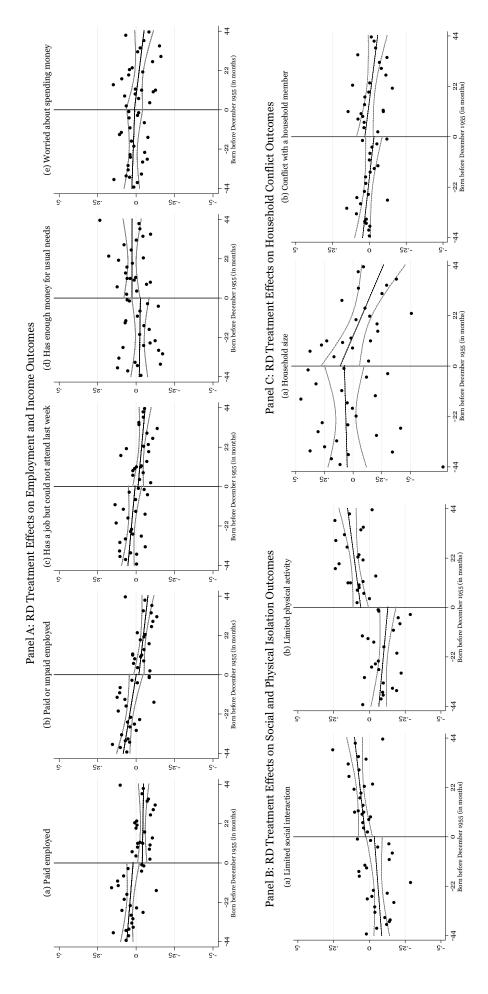
Note: The figures plot the residualized values (after controlling for all variables in the main specification other than distance to the cutoff) of the number of days spent outside last week, the probability of being subject to the curfew, and the probability of never going outside against the month-year of birth of being born in December 1955. The sample includes all individuals born before and after 44 months around the cutoff point, December 1955. The vertical line in each graph represents the cut-off point, December 1955. Gray lines show 95 percent confidence intervals around the mean level. Variable definitions are listed in Appendix B.

Figure A6: RD Treatment Effects on Mental Health Outcomes using Non-residualized Outcomes



Note: The figures plot the non-residualized values of the indices of mental distress outcomes over the month-year of birth of being born in December 1955. The sample includes all individuals born before and after 44 months around the cutoff point, December 1955. The vertical line in each graph represents the cut-off point, December 1955. Gray lines show 95 percent confidence intervals around the mean level. Variable definitions are listed in Appendix B.

FIGURE A7: RD TREATMENT EFFECTS ON POTENTIAL CHANNELS



Note: The figures plot the residualized values of potential channel outcomes over the month-year of birth of being born in December 1955. The sample includes all individuals born before and after 44 months around the cutoff point, December 1955. The vertical line in each graph represents the cut-off point, December 1955. Gray lines show 95 percent confidence intervals around the mean level. Variable definitions are listed in Appendix B.

Table A1: Comparison of Basic Demographic Information with Household Labor Force Survey

	Household Labor Force Survey (2019)			Analysis Sample		
Variable	Mean	S.D.	Obs	Mean	S.D.	Obs
Age	64.07	3.43	53,584	64.21	3.34	1,909
Female (%)	0.52	0.50	53,584	0.43	0.50	1,909
Marital Status (%)						
Never Married	0.02	0.12	53,584	0.02	0.13	1,907
Married	0.83	0.37	53,584	0.81	0.40	1,907
Divorced	0.03	0.17	53,584	0.03	0.16	1,907
Widowed	0.12	0.33	53,584	0.15	0.36	1,907
Education (%)						
Illiterate	0.19	0.39	53,584	0.13	0.34	1,896
Literate but no formal schooling	0.08	0.28	53,584	0.08	0.27	1,896
Primary school	0.49	0.50	53,584	0.37	0.48	1,896
Secondary school	0.06	0.24	53,584	0.15	0.35	1,896
Highschool	0.09	0.29	53,584	0.16	0.37	1,896
College and above	0.08	0.27	53,584	0.11	0.31	1,896

Notes: The sample includes all individuals born between January 1950 and December 1961. Age is calculated as in 2020.

Table A2: RD Treatment Effects on Predetermined Covariates

	±17	±24	±30	±36	±45	±48	±60	±72
Completed high school								
Born before 1955	0.051	0.025	-0.056	-0.037	-0.055	-0.039	-0.024	-0.013
	(0.080)	(0.073)	(0.074)	(0.071)	(0.063)	(0.060)	(0.054)	(0.049)
	[0.527]	[0.733]	[0.453]	[0.602]	[0.381]	[0.520]	[0.657]	[0.791]
	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)
Observations	523	692	854	1000	1246	1307	1638	1896
Control group mean	0.32	0.33	0.31	0.31	0.31	0.31	0.31	0.31
Illiterate			0.0-	0.0-2	0.00			
Born before 1955	-0.018	-0.023	-0.004	-0.011	-0.007	-0.015	-0.030	-0.032
	(0.052)	(0.047)	(0.039)	(0.040)	(0.034)	(0.032)	(0.029)	(0.027)
	[0.738]	[0.629]	[0.928]	[0.775]	[0.835]	[0.652]	[0.297]	[0.237]
	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)
Observations	523	692	854	1000	1246	1307	1638	1896
Control group mean	0.12	0.13	0.12	0.12	0.13	0.13	0.12	0.11
Female	0.12	0.10	0.12	0.12	0.10	0.10	0.12	0.11
Born before 1955	0.019	0.040	0.056	0.076	0.040	0.029	0.032	0.027
Both belote 1988	(0.080)	(0.062)	(0.065)	(0.060)	(0.056)	(0.055)	(0.050)	(0.046)
	[0.809]	[0.518]	[0.389]	[0.208]	[0.477]	[0.592]	[0.521]	[0.553]
	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)
Observations	525	696	859	1007	1254	1316	1650	1909
Control group mean	0.39	0.39	0.40	0.42	0.44	0.44	0.45	0.46
Married	0.37	0.37	0.40	0.44	0.77	0.77	0.40	0.40
Born before 1955	0.018	0.019	0.024	0.015	0.017	0.012	-0.014	-0.019
DOLLI DEIOLE 1700	(0.069)	(0.054)	(0.051)	(0.045)	(0.042)	(0.012	(0.036)	(0.034)
	. ,	. ,	. ,	,	. ,	. ,		
	[0.801]	[0.722]	[0.640]	[0.737]	[0.679]	[0.768]	[0.697]	[0.590]
01 "	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)
Observations	525	696	859	1006	1253	1315	1648	1907
Control group mean	0.83	0.84	0.85	0.85	0.85	0.85	0.84	0.84
Widowed or separated	0.012	0.004	0.015	0.015	0.024	0.020	0.004	0.000
Born before 1955	-0.013	0.004	-0.017	-0.015	-0.021	-0.020	0.004	0.009
	(0.068)	(0.048)	(0.049)	(0.043)	(0.041)	(0.040)	(0.035)	(0.033)
	[0.851]	[0.930]	[0.721]	[0.727]	[0.603]	[0.621]	[0.918]	[0.787]
	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)
Observations	525	696	859	1006	1253	1315	1648	1907
Control group mean	0.15	0.15	0.13	0.13	0.13	0.13	0.14	0.14
Non-Turkish								
Born before 1955	0.200	0.127	0.088	0.059	0.050	0.062	0.013	0.012
	(0.104)	(0.087)	(0.072)	(0.065)	(0.058)	(0.055)	(0.048)	(0.042)
	[0.062]	[0.153]	[0.224]	[0.369]	[0.387]	[0.260]	[0.786]	[0.780]
	$\langle 1.000 \rangle$							
Observations	513	682	843	991	1232	1294	1624	1881
Control group mean	0.23	0.26	0.25	0.26	0.26	0.26	0.25	0.25
Pre-Covid-19 household size								
Born before 1955	-0.162	-0.211	-0.276	-0.226	-0.176	-0.147	-0.155	-0.193
	(0.223)	(0.192)	(0.166)	(0.165)	(0.155)	(0.151)	(0.134)	(0.126)
	[0.473]	[0.278]	[0.102]	[0.175]	[0.258]	[0.333]	[0.252]	[0.127]
	$\langle 1.000 \rangle$	(1.000)	$\langle 1.000 \rangle$	(1.000)	$\langle 1.000 \rangle$	(1.000)	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$
Observations	525	696	859	1007	1254	1316	1650	1909
Control group mean	3.38	3.39	3.34	3.37	3.39	3.40	3.41	3.40
Ever received psychological su	pport							
Born before 1955	-0.032	-0.069	-0.049	-0.032	-0.019	-0.018	-0.010	-0.028
	(0.051)	(0.046)	(0.042)	(0.037)	(0.034)	(0.033)	(0.032)	(0.028)
	[0.544]	[0.135]	[0.250]	[0.395]	[0.574]	[0.591]	[0.761]	[0.325]
	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)
Observations	520	688	850	998	1243	1304	1634	1887
Control group mean	0.12	0.11	0.12	0.12	0.12	0.12	0.12	0.12
Has a chronic disease								J
Born before 1955	-0.067	-0.026	-0.011	0.026	0.064	0.055	0.052	0.042
	(0.071)	(0.053)	(0.047)	(0.044)	(0.043)	(0.042)	(0.036)	(0.033)
	[0.354]	[0.630]	[0.824]	[0.557]	[0.135]	[0.187]	[0.147]	[0.209]
	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)	(1.000)
Observations	. ,				. ,			
	522	691	853 0.51	1001	1247	1309	1640	1898
Control group mean	0.52 0.26	0.51 0.25	0.51 0.39	0.51 0.59	0.51 0.53	0.51 0.51	0.50 0.75	0.49 0.58
Joint p-value								

Notes: This table presents RD estimates of being born before December 1955 on the predetermined characteristics of individuals. The variable descriptions are provided in Appendix B. The first column presents results for individuals born within 17 months of the age threshold, December 1955. The second through fifth columns expand the sample to include individuals within 24, 30, 36, 45, 48, 60, and 72 months of the age threshold. Standard errors, clustered at the month-year cohort level, are in parenthesis. Corresponding p-values and Anderson (2008)'s sharpened q-values are in square and angle brackets, respectively.

TABLE A3: EFFECTS OF CURFEW ON MOBILITY OUTCOMES USING ALTERNATIVE BANDWIDTHS

	±24	±36	±48	±60	±72
Days outside last week					
Born before 1955	-1.015	-1.116	-1.037	-1.023	-0.994
	(0.236)	(0.213)	(0.170)	(0.166)	(0.153)
	[<0.001]	[<0.001]	[<0.001]	[<0.001]	[<0.001]
	$\langle 0.001 \rangle$				
Observations	672	976	1274	1601	1856
Control group mean	2.40	2.33	2.33	2.40	2.41
Under curfew					
Born before 1955	0.662	0.685	0.718	0.723	0.730
	(0.063)	(0.052)	(0.043)	(0.036)	(0.032)
	[<0.001]	[<0.001]	[<0.001]	[<0.001]	[<0.001]
	$\langle 0.001 \rangle$				
Observations	678	982	1283	1610	1866
Control group mean	0.10	0.10	0.09	0.08	0.08
Never goes out					
Born before 1955	0.304	0.317	0.285	0.245	0.281
	(0.051)	(0.038)	(0.034)	(0.034)	(0.032)
	[<0.001]	[<0.001]	[<0.001]	[<0.001]	[<0.001]
	(0.001)	(0.001)	(0.001)	(0.001)	(0.001)
Observations	667	966	1264	1591	1844
Control group mean	0.16	0.19	0.19	0.18	0.18

Notes: This table presents the effects of being born before December 1955 on the mobility outcomes of individuals across alternative bandwidth selections. The variable descriptions are provided in Appendix B. The first column presents results for individuals born within 24 months of the age threshold, December 1955. The second through fifth columns expand the sample to include individuals within 36, 48, 60, and 72 months of the age threshold. The specification includes month fixed effects, province fixed effects, surveyor fixed effects, as well as indicator variables for education levels, ethnicity, and gender. Standard errors, clustered at the month-year cohort level, are in parenthesis. Corresponding p-values and Anderson (2008)'s sharpened q-values are in square and angle brackets, respectively.

Table A4: Effects of Curfew on Mental Health Outcomes using Alternative Bandwidths

	±24	±36	±48	±60	±72
Mental distress index					
Born before 1955	0.337	0.224	0.215	0.238	0.155
	(0.133)	(0.113)	(0.086)	(0.077)	(0.077)
	[0.014]	[0.051]	[0.014]	[0.003]	[0.046]
	$\langle 0.062 \rangle$	$\langle 0.118 \rangle$	$\langle 0.059 \rangle$	$\langle 0.011 \rangle$	(0.093)
Observations	629	912	1187	1485	1725
Somatic symptoms of distress i	ndex				
Born before 1955	0.292	0.193	0.178	0.198	0.164
	(0.147)	(0.104)	(0.081)	(0.080)	(0.070)
	[0.053]	[0.066]	[0.031]	[0.015]	[0.021]
	$\langle 0.081 \rangle$	$\langle 0.118 \rangle$	$\langle 0.059 \rangle$	$\langle 0.016 \rangle$	(0.093)
Observations	666	967	1262	1580	1833
Nonsomatic symptoms of distre	ess index				
Born before 1955	0.230	0.157	0.165	0.188	0.109
	(0.126)	(0.111)	(0.085)	(0.073)	(0.071)
	[0.075]	[0.161]	[0.054]	[0.011]	[0.129]
	$\langle 0.081 \rangle$	$\langle 0.118 \rangle$	$\langle 0.059 \rangle$	$\langle 0.016 \rangle$	$\langle 0.101 \rangle$
Observations	632	916	1191	1491	1731
Sum of "yes" answers in SRQ-	-20				
Born before 1955	1.045	0.876	0.751	0.816	0.487
	(0.633)	(0.491)	(0.425)	(0.384)	(0.361)
	[0.105]	[0.079]	[0.080]	[0.036]	[0.179]
	$\langle 0.086 \rangle$	$\langle 0.118 \rangle$	$\langle 0.064 \rangle$	$\langle 0.021 \rangle$	$\langle 0.101 \rangle$
Observations	629	912	1187	1485	1725
Control group mean	7.00	7.05	7.05	7.16	7.07

Notes: This table presents the reduced-form effects of being born before December 1955 on the mental health outcomes across alternative bandwidths. The variable descriptions are provided in Appendix B. The first column presents results for individuals born within 24 months of the age threshold, December 1955. The second through fifth columns expand the sample to include individuals within 36, 48, 60, and 72 months of the age threshold. The specification includes month fixed effects, province fixed effects, surveyor fixed effects, as well as indicator variables for education levels, ethnicity, and gender. Standard errors, clustered at the month-year cohort level, are in parenthesis. Corresponding p-values and Anderson (2008)'s sharpened q-values are in square and angle brackets, respectively.

Table A5: Effects of Curfew on Self-Reported Health and Life Satisfaction

	±17	±30	±45	±60
Panel A: Self-reported Healt	h Outcomes			
Poor physical health				
Born before 1955	0.140	0.119	0.103	0.070
	(0.065)	(0.046)	(0.033)	(0.034)
	[0.038]	[0.012]	[0.003]	[0.041]
	$\langle 0.083 \rangle$	$\langle 0.026 \rangle$	$\langle 0.006 \rangle$	$\langle 0.089 \rangle$
Observations	511	838	1224	1612
Control group mean	0.08	0.10	0.12	0.10
Poor mental health				
Born before 1955	0.037	0.052	0.022	-0.012
	(0.069)	(0.039)	(0.035)	(0.031)
	[0.602]	[0.192]	[0.536]	[0.701]
	$\langle 0.431 \rangle$	$\langle 0.107 \rangle$	$\langle 0.366 \rangle$	$\langle 0.540 \rangle$
Observations	509	836	1221	1607
Control group mean	0.11	0.13	0.14	0.13
Panel B: Life Satisfaction Ou	ıtcomes			
Suffering				
Born before 1955	-0.101	-0.005	0.000	-0.013
	(0.075)	(0.045)	(0.039)	(0.033)
	[0.184]	[0.906]	[0.990]	[0.692]
	$\langle 0.226 \rangle$	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$
Observations	486	801	1167	1538
Control group mean	0.21	0.22	0.23	0.23

Notes: This table presents regression discontinuity estimates of the effect of the curfew on self-reported health and life satisfaction measures. The variable descriptions are provided in Appendix B. The first column presents results for individuals born within 17 months of the age threshold, December 1955. The second through fourth columns expand the sample to include individuals within 30, 45, and 60 months of the age threshold. The specification includes month fixed effects, province fixed effects, surveyor fixed effects, as well as indicator variables for education levels, ethnicity, and gender. Standard errors, clustered at the month-year cohort level, are in parenthesis. Corresponding p-values and Anderson (2008)'s sharpened q-values are in square and angle brackets, respectively.

Table A6: Effects of Curfew on Potential Channels using Alternative Bandwidths

	±24	±36	±48	±60	±72
Panel A: Employment and l	ncome Outcon	nes			
Paid employed					
Born before 1955	-0.089	-0.062	-0.069	-0.064	-0.060
	(0.058)	(0.041)	(0.035)	(0.032)	(0.030)
	[0.133]	[0.140]	[0.053]	[0.044]	[0.051]
	(0.361)	(0.566)	(0.360)	(0.285)	(0.268
Observations	673	977	1275	1597	1851
Control group mean	0.16	0.15	0.16	0.18	0.19
Paid or unpaid employed					
Born before 1955	-0.035	-0.016	-0.032	-0.039	-0.044
	(0.064)	(0.045)	(0.039)	(0.034)	(0.033)
	[0.586]	[0.722]	[0.413]	[0.263]	[0.187]
	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$	(0.671)	(0.358)	(0.268)
Observations	673	977	1276	1601	1856
Control group mean	0.18	0.18	0.2	0.21	0.22
Has a job but could not attend	last week				
Born before 1955	0.005	-0.005	-0.042	-0.042	-0.045
	(0.058)	(0.042)	(0.036)	(0.032)	(0.031)
	[0.939]	[0.899]	[0.241]	[0.187]	[0.147]
	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$	$\langle 0.474 \rangle$	(0.333)	(0.268)
Observations	666	968	1268	1586	1836
Control group mean	0.16	0.16	0.17	0.18	0.18
Has enough money for usual n	eeds				
Born before 1955	-0.027	0.088	0.069	0.074	0.074
	(0.067)	(0.060)	(0.056)	(0.048)	(0.043)
	[0.686]	[0.145]	[0.216]	[0.121]	[0.084]
	$\langle 1.000 \rangle$	$\langle 0.566 \rangle$	$\langle 0.474 \rangle$	$\langle 0.320 \rangle$	(0.268)
Observations	673	978	1279	1601	1856
Control group mean	0.56	0.57	0.58	0.57	0.58
Worried about spending money	1				
Born before 1955	-0.126	-0.032	-0.021	-0.030	-0.048
	(0.062)	(0.045)	(0.044)	(0.042)	(0.040)
	[0.048]	[0.481]	[0.630]	[0.478]	[0.228]
	(0.313)	(0.927)	(0.671)	$\langle 0.434 \rangle$	(0.268)
Observations	672	974	1274	1597	1852
Control group mean	0.61	0.59	0.61	0.62	0.62

Table A6: Effects of Curfew on Potential Channels using Alternative Bandwidths, Cont.'d

	±24	±36	±48	±60	±72
Panel B: Social and Physica	l Isolation Outc	omes			
Limited social interaction					
Born before 1955	0.109	0.106	0.102	0.083	0.088
	(0.065)	(0.056)	(0.050)	(0.042)	(0.042)
	[0.101]	[0.063]	[0.046]	[0.049]	[0.039]
	$\langle 0.054 \rangle$	$\langle 0.033 \rangle$	$\langle 0.024 \rangle$	$\langle 0.026 \rangle$	$\langle 0.021 \rangle$
Observations	676	981	1281	1608	1864
Control group mean	0.57	0.57	0.55	0.53	0.53
Limited physical activity					
Born before 1955	0.319	0.255	0.257	0.219	0.216
	(0.071)	(0.061)	(0.052)	(0.047)	(0.045)
	[<0.001]	[<0.001]	[<0.001]	[<0.001]	[<0.001]
	$\langle 0.001 \rangle$				
Observations	664	965	1262	1585	1837
Control group mean	0.44	0.45	0.46	0.45	0.45
Panel C: Household Conflic	ct Outcomes				
Household size					
Born before 1955	0.019	0.002	-0.018	0.013	0.000
	(0.210)	(0.183)	(0.160)	(0.146)	(0.132)
	[0.927]	[0.991]	[0.910]	[0.930]	[1.000]
	$\langle 1.000 \rangle$	$\langle 0.982 \rangle$	$\langle 0.835 \rangle$	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$
Observations	678	984	1285	1612	1868
Control group mean	3.55	3.50	3.52	3.54	3.52
Conflict with a household mem	ber				
Born before 1955	0.041	0.103	0.060	0.023	0.010
	(0.063)	(0.049)	(0.039)	(0.037)	(0.035)
	[0.518]	[0.038]	[0.133]	[0.523]	[0.770]
	$\langle 1.000 \rangle$	$\langle 0.084 \rangle$	(0.362)	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$
Observations	662	962	1257	1579	1829
Control group mean	0.35	0.38	0.38	0.38	0.37

Notes: This table presents the reduced-form effects of being born before December 1955 on the potential channels across different bandwidths. The variable descriptions are provided in Appendix B. The first column presents results for individuals born within 24 months of the age threshold, December 1955. The second through fifth columns expand the sample to include individuals within 36, 48, 60, and 72 months of the age threshold. The specification includes month fixed effects, province fixed effects, surveyor fixed effects, as well as indicator variables for education levels, ethnicity, and gender. Standard errors, clustered at the month-year cohort level, are in parenthesis. Corresponding p-values and Anderson (2008)'s sharpened q-values are in square and angle brackets, respectively.

TABLE A7: EFFECTS OF CURFEW ON RELIGIOSITY OUTCOMES

	±17	±30	±45	±60
Considers himself/herself religious				
Born before 1955	-0.119	-0.031	-0.022	0.028
	(0.085)	(0.047)	(0.039)	(0.033)
	[0.174]	[0.519]	[0.575]	[0.390]
	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$
Observations	494	815	1191	1573
Control group mean	0.82	0.79	0.79	0.81
Prays daily				
Born before 1955	-0.057	0.019	0.028	0.050
	(0.084)	(0.046)	(0.041)	(0.035)
	[0.500]	[0.683]	[0.493]	[0.150]
	(1.000)	⟨1.000⟩	(1.000)	(1.000)
Observations	502	819	1197	1574
Control group mean	0.67	0.67	0.67	0.68
Agrees that one should live by the holy book				
Born before 1955	-0.038	0.009	0.016	0.015
	(0.092)	(0.047)	(0.041)	(0.034)
	[0.681]	[0.852]	[0.703]	[0.66]
	(1.000)	(1.000)	(1.000)	(1.000)
Observations	479	785	1156	1519
Control group mean	0.69	0.69	0.68	0.69
Agrees that virus is a God-sent warning				
Born before 1955	-0.093	-0.042	-0.005	0.029
	(0.100)	(0.058)	(0.047)	(0.042)
	[0.357]	[0.473]	[0.919]	[0.492]
	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$
Observations	483	790	1159	1521
Control group mean	0.58	0.56	0.56	0.58
Religiosity index				
Born before 1955	-0.180	-0.017	0.009	0.082
	(0.228)	(0.104)	(0.092)	(0.078)
	[0.435]	[0.868]	[0.919]	[0.299]
	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$	$\langle 1.000 \rangle$
Observations	461	755	1110	1458

Notes: This table presents regression discontinuity estimates of the effect of the curfew on religiosity outcomes using a linear control function. The variable descriptions are provided in Appendix B. The first column presents results for individuals born within 17 months of the age threshold, December 1955. The second through fourth columns expand the sample to include individuals within 30, 45, and 60 months of the age threshold. The specification includes month fixed effects, province fixed effects, surveyor fixed effects, as well as indicator variables for education levels, ethnicity, and gender. Standard errors, clustered at the month-year cohort level, are in parenthesis. Corresponding p-values and Anderson (2008)'s sharpened q-values are in square and angle brackets, respectively.

Table A8: Effects of Curfew on Main Outcomes using a Quadratic Control Function

	Days outside	Under	Never		
	last week	curfew	goes out		
Born before 1955	-0.964	0.601	0.256		
	(0.246)	(0.064)	(0.053)		
	[<0.001]	[<0.001]	[<0.001]		
	$\langle 0.001 \rangle$	$\langle 0.001 \rangle$	$\langle 0.001 \rangle$		
Observations	1214	1222	1203		
Control group mean	2.30	0.09	0.20		
	Overall	Somatic	Nonsomatic	Sum of "yes"	
	depression index	depression index	depression index	answers in SRQ-20	
Born before 1955	0.278	0.253	0.173	1.004	
	(0.132)	(0.125)	(0.132)	(0.564)	
	[0.038]	[0.046]	[0.194]	[0.078]	
	(0.102)	(0.102)	(0.108)	(0.102)	
Observations	1133	1203	1137	1133	
		Paid or	Has a job but	Has enough	Worried about
	Paid	unpaid	could not attend	money for	spending
	employed	employed	last week	usual needs	money
Born before 1955	-0.042	0.012	0.023	-0.011	-0.033
	(0.054)	(0.058)	(0.048)	(0.086)	(0.059)
	[0.441]	[0.841]	[0.631]	[0.896]	[0.580]
	$\langle 1.000 \rangle$				
Observations	1215	1216	1207	1218	1213
Control group mean	0.16	0.19	0.16	0.58	0.60
	Limited	Limited			
	physical	social			
	activity	interaction			
Born before 1955	0.162	0.056			
	(0.078)	(0.068)			
	[0.041]	[0.416]			
	(0.089)	(0.263)			
Observations	1201	1220			
Control group mean	0.46	0.56			
		Conflict with			
	Household	a household			
	size	member			
Born before 1955	0.148	0.138			
	(0.241)	(0.066)			
	[0.542]	[0.040]			
	(0.372)	(0.088)			
Observations	1224	1200			
Control group mean	3.50	0.38			

Notes: This table presents the reduced-form regression discontinuity estimates of the effect of the curfew main outcome variables using a quadratic control function. The variable descriptions are provided in Appendix B. All columns report the reduced-form RD treatment effects of being born before December 1955 with a quadratic control function in the month-year of birth on each side of the discontinuity. The sample consists of individuals born within 45 months of the age threshold, December 1955. Standard errors, clustered at the month-year cohort level, are in parenthesis. Corresponding p-values and Anderson (2008)'s sharpened q-values are in square and angle brackets, respectively.

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