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THE ECONOMIC CRISIS AND MEDICAL CARE USAGE

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We use a unique, nationally representative cross-national dataset to document the reduction in individuals' usage of routine non-emergency medical care in the midst of the economic crisis. A substantially larger fraction of Americans have reduced medical care than have individuals in Great Britain, Canada, France, and Germany, all countries with universal health care systems. At the national level, reductions in medical care are related to the degree to which individuals must pay for it, and within countries are strongly associated with exogenous shocks to wealth and employment.

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The global economic crisis, beginning roughly in July of 2007, took an historic toll on national economies and household finances around the world. Stock markets plummeted and unemployment rates rose markedly. What is the impact of such large shocks on individuals and their behavior? In this research, we examine the relationship between the crisis and medical care usage and show that the economic crisis had lead to reductions in individuals seeking care.

Economic distress' impact on medical care usage is mediated by its impact on individuals' *health* and their *resources* to pay for care. Previous research suggests that economic distress, especially unemployment, can have severe negative effects on health.¹ In addition, individuals' willingness to seek care may decline with reduced financial resources to pay for it, as evidenced by a voluminous literature documenting a negative association between economic circumstances and health status and medical care usage.² Evidence from developing countries also finds that individuals reduce their usage of medical care following economic crises.³ However, some recent studies find that health conditions may improve rather than decline in economic downturns,⁴ in part attributable to the additional time that reduced work hours or unemployment create for seeking routine medical care.⁵

Whether medical care increases or decreases in the face of the economic crisis is ultimately an empirical question. Our paper draws on new unique cross-national survey data to assess how the economic shocks brought on by the global economic crises affected the use of medical care in five developed economies: the United States, Great Britain, Canada, France, and Germany. We focus on changes in the utilization of *routine* medical care. This focus on routine medical care allows us to separate out the contrasting predictions of (a) reductions in care due to tighter resource constraints, (b) increases in care due to more time availability, and (c) increases in care due to severe deterioration in health. While the former

two processes should be related to changes in routine care usage, the latter process should instead impact hospitalizations and other forms of acute care.¹

If the primary barrier to not seeking routine care is having time to do so, we would expect to find that (1) the use of routine care should have increased since the economic crisis, (2) reductions in the usage of routine care should be negatively associated with unemployment, (3) but have no association with wealth loss, and (4) not vary substantially across countries. If instead the decision whether to seek care is constrained by financial resources, then (1) the use of routine care should have declined overall since the economic crisis, (2) reductions in the usage of routine care should be positively associated with unemployment and (3) have a positive association with wealth loss, and finally, (4) there should be differences across countries depending on the privately borne portion of the cost of care.

This last factor merits some additional explanation. While there is some cost to routine care in most of the countries under study, the amount of that cost varies considerably. While all individuals in Great Britain, Canada, France, and Germany are covered by national health care systems, only 85.3% of individuals in the United States are covered by health insurance.⁶ But, even in countries with universal coverage, individuals pay some medical care costs out of pocket. Using economy-wide data, in 2007 these payments accounted for 0.8% of GDP in France, 1.0% in Great Britain, 1.4% in Germany, 1.5% in Canada, and 2.0% in the United States.⁶ Among counties with national health care systems, France has the highest level of cost sharing for routine care; patients generally pay a 30% coinsurance for outpatient physician services and a 35% coinsurance for prescription drugs.⁷ In Germany, co-payments of 5 to 10 Euros are required for physician visits and outpatient medications.⁸ There is no cost sharing in Great Britain and Canada for routine

care; however, prescriptions are not covered by the Canadian system. ⁹ In the United States, the 15% of the population that is uninsured is fully responsible for the cost of routine care, and those who are covered still face copayments and coinsurance costs. Even in countries that provide "universal" health care, we might expect to find reductions in routine medical care usage following the economic crisis and to observe associations between such reductions and wealth losses and unemployment. As a general principal, we expect to find greater reductions in routine medical care usage in the countries where seeking medical care has a greater economic cost, e.g., the United States.

Study Data ad Methods:

Data Source: To assess how shocks to family resources affect medical care usage, we analyze a new data source, the TNS Global Economic Crisis survey, which we helped design and which was administered in June and July of 2009 in the United States, Great Britain, Canada, France, and Germany. The global market research firm TNS fielded the survey using an online questionnaire. In total 6,485 respondents were interviewed, including 2,148 in the United States, 1,001 in Great Britain, 1,132 in Canada, 1,097 in France, and 1,107 in Germany. The samples were designed to be nationally representative of each country's population 18–65 years of age and were subsequently weighted to reflect each nation's population. Nevertheless, it remains likely that our sample under-represents the most vulnerable groups of the population, including migrant workers and homeless people. This sampling will work against finding a result if the economic crisis has had the most severe effects on these individuals.

Medical Care Usage: Our survey assessed how respondents in each of the five countries changed their routine medical care usage. Respondents were asked, "Since the

economic crisis have you increased, decreased, or kept the same trips to the doctor for routine medical and non-emergency treatment?" We chose this wording as opposed to asking about "preventive" care so as not to bias respondents toward selecting the socially acceptable answer. Self-reported measures of medical care usage are widely employed in the literature and have been shown to have good association with measures of care based on administrative and medical records.¹⁰

Economic Distress: To explore how changes in household economic conditions relate to changes in routine medical care usage, we use two other variables in the survey. First, we asked respondents to report any changes in the value of their financial assets since the onset of the crisis, indicating whether their assets increased in value (by 0–10% or greater than 10%), stayed the same, or fell in value (by 0–10%, 10–29%, 30–50%, or greater than 50%). Respondents could also state that they did not know the answer or could refuse to answer. If these self-reported metrics are noisy, measurement error will bias against finding a relationship between shocks to wealth and reductions in routine medical care usage. Second, we collect information on employment status, using a variable that is set equal to 1 if the respondent is unemployed and looking for work and 0 otherwise. Data on unemployment were not collected for the Canadian sample, so analyses that include this variable are restricted to a sample of 4,405 respondents in the United States, Great Britain, France, and Germany.

Empirical analysis: We begin by presenting descriptive cross-country analyses of respondents' reports of changes in medical care usage and respondents' reports of wealth loss and unemployment. Next, we show the bi-variate association between our measure of reduction in routine medical care usage and our measure of change in wealth/unemployment. Finally, we estimate a set of multivariate regression models to

examine whether the link between shocks to resources and changes in routine medical care usage persists after controlling for additional demographic characteristics (age, gender, and education), income, and wealth. In addition, we test whether the changes in usage are more pronounced in the United States, which does not have a national health care system and in which out-of-pocket health costs at the national level are the highest among the countries considered in this work.

We limit the sample to respondents who had complete data on our dependent variable as well as information on education, age, and gender, variables that we include in our multivariate regression model. We include dummy variables for respondents missing data on two key independent variables, our measure of income, and our measure of post-crisis wealth. This leaves us with a sample of 5,347 respondents. To test for robustness, we used alternative estimates that used multiple imputation to construct data for those reporting missing values or where we simply deleted the cases with missing data (Exhibit T1). These robustness tests yielded substantively similar results.

Study Results:

Reductions in Usage of Routine Care: Tabulating results by country shows substantial cross-national variation in post-crisis changes in routine medical care usage. Of American respondents, 26.5% reported reducing their use of routine medical care since the economic crisis (Exhibit 1). This proportion dwarfs the 5.6% of Canadian, 7.6% of British, 10.3% of German, and 12% of French respondents reporting such reductions. This ordering tracks with the level of privately-borne out-of-pocket routine medical costs across countries. Both absolutely and comparatively, Americans, who face higher out-of-pocket

health care costs, reduced their routine medical care more than respondents in the other four countries.

Small minorities of respondents also reported increasing care, with between 5.4% and 7.9% of respondents giving that response. The fraction increasing care did not vary substantially across countries. We subtract the share increasing care from the share reporting decreasing care to generate a measure of *net* change in care. For most countries, we observe a net decrease in medical care. Specifically, on net, 19.5% of Americans reduced their use of routine care (Exhibit 1). In Canada and Great Britain, where few copayments or coinsurance payments are required, there is essentially no change in aggregate country-level routine medical care usage (-0.04% and -0.31%, respectively). In France and Germany, where larger copayments are required, we observe intermediate levels of net reductions in routine medical care usage, 6.6% and 3.6%, respectively. This exercise further highlights the disparity in routine medical care reductions between the United States and the four comparison countries.

Changes in Wealth and Unemployment: Wealth losses were pervasive among households in the United States, with nearly 55% of American respondents reporting some decline in their wealth since the start of the economic crisis and one-fifth reporting a decline of 30% or larger (Exhibit 2). Losses were smaller in Great Britain, Canada, France, and Germany, with between 45% and 34% of respondents reporting any loss of wealth and between 13% and 9% reporting losses in excess of 30%.

Unemployment increased sharply during the crisis. The share of respondents who reported being unemployed and looking for work was largest in Germany (14.4%) and the United States (13.8%), somewhat less in France (10.1%), and lower still in Great Britain (6.6%). These figures indicate that the economic crisis took a greater immediate economic

toll on Americans than on individuals living in France, Canada, and Great Britain.

Economic Distress and Medical Care Usage: These negative shocks to wealth and employment are strongly associated with reductions in routine medical care (Exhibit 3). The greater the reported loss in wealth, the larger the net reductions in routine care across all countries. Similarly, net care reductions were more pronounced among the unemployed.

Exhibit 4 presents selected marginal effects from a multivarite probit regression model run on the pooled cross-national sample (the complete model specification is presented in Exhibit T2). Even after controlling for post-crisis wealth, income, education, age, and other characteristics, wealth loss is significantly associated with reductions in routine medical care usage (Model 1). As compared with respondents who reported no change in their wealth since the crisis, surveyed individuals who lost between 30% and 50% of their wealth are 23.3 percentage points more likely to have reduced routine medical care usage, and those who lost at least 50% of their wealth are 24.9 percentage points more likely to have reduced care. Unemployed respondents looking for work are 6.7 percentage points more likely to have reduced routine care than others (Model 2). In other words, we see substantial reductions in routine medical care usage as a result of shocks resulting from the economic crisis, even after accounting for many household characteristics.

We also find that reductions in routine medical care were higher for the young and for those with lower incomes. In particular, relative to those aged 50 to 65, respondents aged 16-24, 25-34 and 35-49 were 11.7, 6.8 and 4.6 percentage points more likely to reduce care respectively. Relative to individuals in the top income quartile, those in the bottom quartile, 26-50th percentile, and 51 to 75th percentile were 5.7, 5.9, and 2.0 percentage points more likely to reduce medical care respectively.¹¹

Exhibit 5 reports selected results from a multi-nomial probit regression that jointly analyzes the determinants of those who decreased, kept the same, and increased routine medical care usage (the complete model specification is presented in Exhibit T3). While there are few statistically significant associations between changes in wealth or unemployment and *increases* in care (relative to no change in care), we continue to find large and statistically significant associations between *reductions* in care and wealth loss and unemployment. Focusing on wealth loss, respondents who lost between 30% and 50% of their wealth are 22.8 percentage points more likely to have reduced routine medical care usage, and those who lost at least 50% of their wealth are 23.1 percentage points more likely to have reduced care as opposed to keeping care the same relative to those whose wealth is unchanged. Unemployed respondents 6.7 percentage points more likely to reduce care than those who are not unemployed. These estimates of the marginal effects of wealth loss and unemployment are quite similar to those from the simpler bi-variate model discussed above.

Exhibit 4 also reports country fixed effects that capture the levels of reduction in routine medical care use by country, after holding household factors constant. Reductions in care were far greater in the United States than elsewhere, even after controlling for household characteristics. Compared with Great Britain, Americans were 16 percentage points more likely to reduce care. In contrast, French and German respondents were only 4.5 and 3.8 percentage points more likely, respectively, to reduce care than British respondents, while Canadian respondents were actually 3 percentage points less likely to reduce care. As with the descriptive statistics reported in Exhibit 1, the magnitude of these country effects aligns with the size of the required coinsurance and copayments for routine care.

Finally, we tested whether the strength of the relationships between our markers of

economic distress (wealth loss and unemployment) and reductions in care varied by country. We first re-estimated our models separately by country and found strong relationships between wealth loss and unemployment and reductions in medical care usage in each country, with the exception of Great Britain (Exhibit T4). To test whether the relationship between routine heath care usage and wealth loss and unemployment varies among countries, we also re-estimated our models to include interaction terms between country dummies and each of the two variables measuring economic shocks. Generally, the relationship between wealth loss and reduction in routine medical care levels is statistically indistinguishable in the United States as compared to the other four countries. Similarly, there is no variation in the relationship between unemployment and reduction in use of routine care in the United States as compared with the other four countries (Exhibit T5). This result aligns with previous research that finds similar income gradients in access to care in the United States and Canada. 12

Discussion:

We find strong evidence that the economic crisis—manifested in job and wealth losses—has led to reductions in the use of routine medical care. More than a quarter of Americans reported reducing their use of such care as did between 5% and 12% of Canadian, French, Germany, and British respondents. These cross-national differences align with differences in the out-of-pocket costs of care across countries. Moreover, reductions in routine care are strongly related to wealth and job losses, showing that households in economic distress were more likely to reduce medical care usage. In contrast, we find that relatively few households reported increasing medical care and that there was no significant relationship between unemployment and increased use of medical care.

This research confirms that resource constraints have large impacts on the usage of routine medical care. Further, the across-the-board reduction in medical care usage by Americans may speak to behavioral changes that reflect the national psyche broadly. The economic crisis in the United States—deeper and more widespread than elsewhere—may have touched the population at large, perhaps via negative expectations about the future. Furthermore, the cutbacks in health care usage by people losing wealth or jobs, even in countries with "universal" systems, may reflect that seeking care entails not only out-of-pocket expenses, but also costs of time away from work or job hunting.

President Obama has embarked on twin efforts to bring the United States out of the severe economic crisis and make reforms to the American health care system. We show that these are by no means separate areas of policy; the economic distress brought on by the crisis is related to large reductions in routine medical care usage. Historical demography and economics has shown that famines and epidemics that have short-run effects on health and well-being often have long-term consequences.¹³ While we cannot observe long-term consequences of the reductions in use of routine medical care that survey participants reported to us, today's penny-pinching might well lead to tomorrow's undetected illness and the more-distant future's reduced individual health and well-being.

ENDNOTES

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EXHIBITS:

Exhibit 1: Changes in the Utilization of Routine Medical Care Since the Economic Crisis, United States, Great Britain, Canada, France, and Germany (Percent of Respondents) (Authors' calculations from the TNS Global Economic Crisis Survey, 2009)

	Changes in Utilization of Routine Health Care Since the Crisis				
Country	Reduce	Same	Increase	Net Change (Reduce - Increase)	N
United States	26.5	66.5	7.0	19.5	1901
France	12.0	82.7	5.4	6.6	868
Germany	10.3	83.0	6.7	3.6	879
Canada	5.3	89.3	5.4	0.0	1032
Great Britain	7.6	84.4	7.9	-0.3	757
5 Country Avg	15.2	78.3	6.6	5.9	5437

Exhibit 2. Economic Characteristics of Respondents, United States, Great Britain, Canada, France, and Germany (Percent of Respondents) (Authors' calculations from the TNS Global Economic Crisis Survey, 2009)

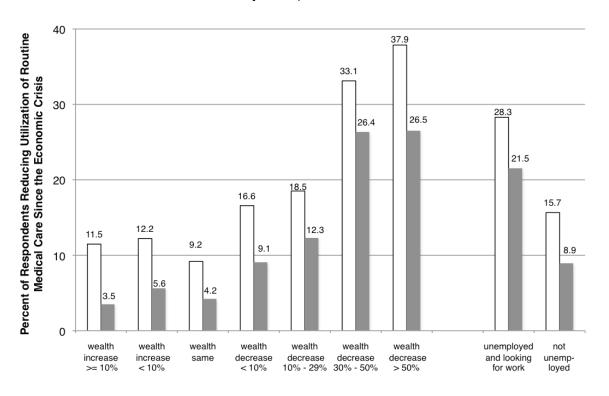
Economic Attributes	United States	France	Germany	Canada	Great Britain
Change in Wealth					
incr >= 10%	7.8	9.9	9.3	9.0	7.8
incr < 10%	10.6	13.0	11.4	14.0	7.8
about same	26.8	42.9	42.8	38.5	39.0
decr < 10%	13.0	10.7	15.1	14.4	14.8
decr 10% to 29%	21.5	11.8	8.8	15.6	19.5
decr 30% to 50%	11.3	6.3	7.7	4.9	5.4
decr > 50%	9.1	5.5	4.9	3.6	5.8
Employment					
Unemployed and Seeking Work	13.8	10.1	14.4		6.6
N	1901	868	879	1032	757

^{1.} Data on unemployment is not available for Canada. However, Canadian respondents are included in the tabulations of all other variables.

^{2.} Sample limited to respondents with complete data on the dependent variable, age, education, and gender. Dichotomous indicators are included for respondents missing data on income, wealth, and changes in wealth.

^{3.} Tabulations are weighted using individual sample weights.

Exhibit 3: Economic Loss and Reductions in Medical Care. Bi-variate Association between Changes in Wealth and Reductions in Routine Medical Care and between Unemployment and Reductions in Medical Care (Authors' calculations from the TNS Global Economic Crisis Survey, 2009)



□Percent Reducing Care

■Percent Reducing Care, Net of Those Increasing Care

Exhibit 4: Relationship Between Reduction in Routine Medical Care Following the Crisis and Changes in Wealth and Unemployment, Marginal Effects (standard errors) from Probit Regression, United States, Great Britain, Canada, France, and Germany (Authors' calculations from the TNS Global Economic Crisis Survey, 2009)

Explanatory Variables	Model 1	Model 2
Change in Wealth Since Crisis		
Increase wealth > 10%	0.016 (0.130)	0.005 (0.112)
Increase wealth < 10%	0.023 (0.088)	0.024 (0.099)
Decrease wealth < 10%	0.096 *** (0.049)	0.099 *** (0.056)
Decrease wealth 10% to 29%	0.108 *** (0.091)	0.106 *** (0.101)
Decrease wealth 30% to 50%	0.233 *** (0.081)	0.229 *** (0.078)
Decrease wealth > 50%	0.249 *** (0.100)	0.231 *** (0.098)
Same (reference)		
Employment Status		
Unemployed and Looking for work		0.067 *** (0.045)
Not Unemployed (reference)		
Country Fixed-Effects		
United States	0.160 *** (0.017)	0.164 *** (0.017)
France	0.045 *** (0.019)	0.046 *** (0.019)
Germany	0.038 *** (0.019)	0.039 *** (0.021)
Canada	-0.030 *** (0.031)	
Great Britain (reference)		
N	5437	4405

^{*} p<0.05, ** p<0.01, ** p<0.001

- 1. Both models include controls for age, income, wealth, gender, and country.
- 2. Standard errors are adjusted for clustering at the country-level.
- 3. Regressions are estimated using individual sample weights.
- 4. Sample limited to respondents with complete data on the dependent variable, age, education, and gender. Dichotomous indicators are included for respondents missing data on income, wealth, and changes in wealth.
- 5. Model 2 excludes all Canadian respondents because no unemployment data is available for Canada.

Exhibit 5: Relationship Between Reductions in Routine Medical Care (Relative to Same) and Increases in Routine Medical Care (Relative to Same) and Changes in Wealth and Unemployment, Marginal Effects from Multinomial Probit Regression, United States, France, Germany, and Great Britain (Authors' calculations from the TNS Global Economic Crisis Survey, 2009)

Explanatory Variables	Increase Routine Care (relative to Same)	Decrease Routine Care (relative to Same)
	[1]	[2]
Country-Level Fixed Effects		
United States	-0.014	0.165 ***
France	-0.031 **	0.045 ***
Germany	-0.016 ***	0.039 ***
Great Britain (reference)		
Change in Wealth Since Crisis		
Increase wealth > 10%	0.013	0.003
Increase wealth < 10%	0.022	0.023
Decrease wealth < 10%	0.030 *	0.099 ***
Decrease wealth 10% to 29%	0.004	0.107 ***
Decrease wealth 30% to 50%	0.012	0.228 ***
Decrease wealth > 50%	0.051 ***	0.231 ***
Same (reference)		
Employment Status		
Unemployed and Looking for work	0.000	0.067 ***
Not Unemployed (reference)		
N	440	05

^{*} p<0.05, ** p<0.01, ** p<0.001

- 1. Model includes controls for age, income, wealth, gender, and country.
- 2. Standard errors are adjusted for clustering at the country-level.
- 3. Regressions are estimated using individual sample weights.
- 4. Sample limited to respondents with complete data on the dependent variable, age, education, and gender. Dichotomous indicators are included for respondents missing data on income, wealth, and changes in wealth.
- 5. Model excludes all Canadian respondents because no unemployment data is available for Canada.

TECHNICAL APPENDIX:

Exhibit T1: Robustness of Regression Results to Alternative Treatments of Missing Data, Coefficients from Probit Regressions, United States, France, Germany, and Great Britain (Authors' calculations from the TNS Global Economic Crisis Survey, 2009)

Explanatory Variables	Multipl Imputati		Dumr Varial		List-Wise Deletion
	[1]		[2]		[3]
Country-Level Fixed Effects					
United States	0.702		0.690		0.743 ***
France	0.194		0.192		0.212 ***
Germany Great Britain (reference)	0.095	***	0.165	***	0.353 ***
Change in Wealth Since Crisis					
Increase wealth > 10%	0.056		0.021		-0.035
Increase wealth < 10%	0.068		0.102		0.078
Decrease wealth < 10%	0.379		0.379		0.364 ***
Decrease wealth 10% to 29%	0.395		0.406		0.443 ***
Decrease wealth 30% to 50% Decrease wealth > 50%	0.733		0.761		0.800 ***
Same (reference)	0.733	•••	0.763	•••	0.792
Employment Status					
Unemployed and Looking for work	0.218	***	0.267	***	0.195 ***
Not Unemployed (reference)					
Female	-0.005		0.029		0.080 *
Age					
16 to 24	0.473		0.485		0.634 ***
25 to 34	0.352		0.337		0.395 *
35 to 49	0.202	1:1:1:	0.204	**	0.233 ***
50 to 65 (reference)					
Education					
Some College	0.026		0.019		-0.024
College	-0.117	*	-0.132	*	-0.168 *
Graduate High School or Less (reference)	-0.184		-0.220		-0.185
Income	0.220		0.224		0.100 ::
~ 0 to 25th percentile ~25th - 50th percentile	0.238		0.234		0.180 * 0.189 **
~50th - 75th percentile	0.126		0.288		0.169 **
~75th to 100th percentile (reference)			0.154		
Wealth					
~ 0 to 30th percentile	0.302	*	0.386	**	0.405 *
~30th - 60th percentile	0.278	:t:	0.341	:t:	0.331 ×
~60th - 90th pecentile	0.208	*	0.246	***	0.260 ***
~90th - 100th percentile (reference)					
Indicators for Missing Values					
DK/REF Income Question			0.057		
DK/REF Financial Wealth Question			0.125		
DK/REF Change in Wealth Question DK/REF Employment Status Question			0.091		
Constant	-2.296	dedede	-2.282	***	-2.338 ***
	-2.2-301		-2.202		-21.10
N	4488		4405		2760

^{*} p<0.05, ** p<0.01, ** p<0.001

Model [1] presents probit coefficients from the model run on a sample for which missing values were
imputed using multiple imputation. The outcome variable was used in the imputation process, but only
cases for which there was non-missing data on the outcome variable were included in the regression
model.

Model [2] presents probit coefficients from the baseline regression results as reported in Exhibit 4 of the paper. The model is run on a sample for which there is complete data on gender, age, and education. Dummy variables are included for cases in which there is missing data on income, wealth, changes in wealth, and unemployent.

Model [3] presents probit coefficients from the model run on a sample for which all cases have complete, non-missing information.

^{4.} Standard errors are adjusted for clustering at the country-level.

^{5.} All models exclude all Canadian respondents because no unemployment data is available for Canada.

^{6.} Regressions are estimated using individual sample weights.

Exhibit T2: Complete Model Results of Relationship Between Reduction in Routine Medical Care Following the Crisis and Changes in Wealth and Unemployment, Marginal Effects from Probit Regression, United States, Great Britain, Canada, France, and Germany (Authors' calculations from the TNS Global Economic Crisis Survey, 2009)

Explanatory Variables	[1]	[2]
Country-Level Fixed Effects		
United States	0.160 ***	0.164 ***
France	0.045 ***	0.046 ***
Germany	0.038 ***	0.039 ***
Canada	-0.030 ***	
Great Britain (reference)		
Change in Wealth Since Crisis		
Increase wealth > 10%	0.016	0.005
Increase wealth < 10%	0.030	0.024
Decrease wealth < 10%	0.096 ***	0.099 ***
Decrease wealth 10% to 29%	0.108 ***	0.106 ***
Decrease wealth 30% to 50%	0.233 ***	0.229 ***
Decrease wealth > 50%	0.249 ***	0.231 ***
Same (reference)		
Employment Status		
Unemployed and Looking for work		0.067 ***
Not Unemployed (reference)		
Female	0.002	0.007
Age		
16 to 24	0.117 ***	0.129 ***
25 to 34	0.068 **	0.084 **
35 to 49	0.046 ***	0.048 **
50 to 65 (reference)		
Education		
Some College	-0.003	0.004
College	-0.026 ***	-0.029 **
Graduate	-0.033	-0.044
High School or Less (reference)		
Income		
~ 0 to 25th percentile	0.057 ***	0.056 **
~25th - 50th percentile	0.059 ***	0.065 ***
~50th - 75th percentile	0.020	0.032 ***
~75th to 100th percentile (reference)		
Wealth		
~ 0 to 30th percentile	0.079 **	0.098 **
~30th - 60th percentile	0.060 *	0.084 *
~60th - 90th pecentile	0.046 ***	0.059 ***
~90th - 100th percentile (reference)		
Indicators for Missing Values		
DK/REF Income Question	0.008	0.013
DK/REF Financial Wealth Question	0.027	0.030
DK/REF Change in Wealth Question	0.032 *	0.021
DK/REF Employment Status Question		0.021
Pseudo R-Squared	0.130	0.119
N	5437	4405

^{*} p<0.05, ** p<0.01, ** p<0.001

 $^{1. \ \}mbox{Standard errors}$ are adjusted for clustering at the country-level.

^{2.} Regressions are estimated using individual sample weights.

Sample limited to respondents with complete data on the dependent variable, age, education, and gender. Dichotomous indicators are included for respondents missing data on income, wealth, and changes in wealth.

^{4.} Model 2 excludes all Canadian respondents because no unemployment data are available for Canada.

Exhibit T3: Complete Models Results of Relationship Between Reductions in Routine Medical Care (Relative to Same) and Increases in Routine Medical Care (Relative to Same) and Changes in Wealth and Unemployment, Marginal Effects from Multinomial Probit Regression, United States, France, Germany, and Great Britain (Authors' calculations from the TNS Global Economic Crisis Survey, 2009)

Explanatory Variables	Increase Routine Care (relative to Same)	Decrease Routine Care (relative to Same)
	[1]	[2]
Country-Level Fixed Effects		
United States	-0.014	0.165 ***
France	-0.031 **	0.045 ***
Germany	-0.016 ***	0.039 ***
Great Britain (reference)		
Change in Wealth Since Crisis		
Increase wealth > 10%	0.013	0.003
Increase wealth < 10%	0.022	0.023
Decrease wealth < 10%	0.030 *	0.099 ***
Decrease wealth 10% to 29%	0.004	0.107 ***
Decrease wealth 30% to 50%	0.012	0.228 ***
Decrease wealth > 50%	0.051 ***	0.231 ***
Same (reference)		
Employment Status		
Unemployed and Looking for work	0.000	0.067 ***
Not Unemployed (reference)		
Female	0.006	0.006
Age		
16 to 24	-0.002	0.129 ***
25 to 34	0.009	0.085 **
35 to 49	0.004	0.048 **
50 to 65 (reference)		
Education		
Some College	-0.009	0.004
College	-0.021 *	-0.029 **
Graduate	-0.018 **	-0.045
High School or Less (reference)		
Income		
~ 0 to 25th percentile	0.004	0.056 **
~25th - 50th percentile	0.013	0.066 ***
~50th - 75th percentile	0.001	0.031 ***
~75th to 100th percentile (reference)		
Wealth	0.010	0.007
~ 0 to 30th percentile	-0.010	0.097 **
~30th - 60th percentile	-0.015	0.083 *
~60th - 90th pecentile	-0.024	0.057 ***
~90th - 100th percentile (reference)		
Indicators for Missing Values	0.001	0.011
DK/REF Income Question	-0.001	0.014
DK/REF Financial Wealth Question	-0.030 **	0.028
DK/REF Change in Wealth Question	0.005	0.021
DK/REF Employment Status Question	0.017	0.021
N	4405	i

^{*} p<0.05, ** p<0.01, ** p<0.001

^{1.} Standard errors are adjusted for clustering at the country-level.

^{2.} Regressions are estimated using individual sample weights.

Sample limited to respondents with complete data on the dependent variable, age, education, and gender. Dichotomous indicators are included for respondents missing data on income, wealth, and changes in wealth.

^{4.} Model excludes all Canadian respondents because no unemployment data are available for Canada.

Exhibit T4: Relationship Between Reductions in Routine Medical Care Since the Economic Crisis and Changes in Wealth (Models 1-5) and Unemployment (Models 6-9), by Country for the United States, France, Germany, Canada, and Great Britain, Coefficients from Probit Regression (Authors' calculations from the TNS Global Economic Crisis Survey, 2009)

Explanatory Variables	USA	France	Germany	Canada	Great Britain
Change in Wealth	[1]	[2]	[3]	[4]	[5]
incr >= 10%	-0.114	0.209	0.403	0.606 *	-0.154
incr < 10%	0.157	0.247	0.142	0.480	-0.832
decr < 10%	0.395 ***	0.540 *	0.579 *	0.572 *	0.127
decr 10% to 29%	0.487 ***	0.712 ***	0.172	0.834 ***	-0.036
decr 30% to 50%	0.811 ***	1.154 ***	0.704 *	1.241 ***	0.510
decr > 50%	0.869 ***	0.963 ***	0.956 **	1.355 ***	0.152
Unamployed	[6]	[7]	[8]		[9]
Unemployed	0.239 *	0.467 **	0.228		0.278

^{*} p<0.05, ** p<0.01, ** p<0.001

^{1.} All models include controls for age, income, wealth, gender, and country.

^{2.} Regressions are estimated using individual sample weights.

^{3.} Each sample limited to respondents with complete data on the dependent variable, age, education, and gender. Dichotomous indicators are included for respondents missing data on income, wealth, and changes in wealth.

Exhibit T5: Relationship Between Reductions in Routine Since the Economic Crisis and Changes in Wealth and Unemployment, Including Interactions between USA and Key Covariates, Coefficients from Probit Regression, United States, France, Germany, and Great Britain (Authors' calculations from the TNS Global Economic Crisis Survey, 2009)

Explanatory Variables	Model 1
Country-Level Fixed Effects United States	0.517 ***
Change in Wealth Since Crisis	
Increase wealth > 10%	0.205 *
Increase wealth < 10%	0.061
Decrease wealth < 10%	0.375 ***
Decrease wealth 10% to 29%	0.270
Decrease wealth 30% to 50%	0.770 ***
Decrease wealth > 50%	0.643 *
Change in Wealth Since Crisis x USA	
Increase wealth > 10% x USA	-0.329 ***
Increase wealth < 10% x USA	0.081
Decrease wealth < 10% x USA	0.009
Decrease wealth 10% to 29% x USA	0.202
Decrease wealth 30% to 50% x USA	0.004
Decrease wealth > 50% x USA	0.195
Employment Status	
Unemployed and Looking for work	0.312 ***
Unemployed and Looking for Work x USA	-0.071
Constant	-2.130 ***
N	4405

^{*} p<0.05, ** p<0.01, ** p<0.001

- 1. The model includes controls for age, income, wealth, gender, and country
- 2. Standard errors are adjusted for clustering at the country-level.
- 3. Regressions are estimated using individual sample weights.
- 4. Sample limited to respondents with complete data on the dependent variable, age, education, and gender. Dichotomous indicators are included for respondents missing data on income, wealth, and changes in wealth.
- 5. Model 2 excludes all Canadian respondents because no unemployment data are available for Canada.

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