



Preparedness of Americans for the Affordable Care Act

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THIS ARTICLE HAS BEEN CORRECTED 



Significance

The ultimate success of the Affordable Care Act (ACA) depends on how well the health insurance exchanges can bring the benefits of private competition to individuals in the form of lower premiums. Doing so requires that individuals, when shopping for health insurance, correctly weigh the benefits and costs of various insurance options. Our work suggests that the overall population, and even more so those most likely affected by the ACA, is not well equipped to do so. We documented low levels of ACA and health insurance knowledge in the month preceding the introduction of the exchanges. We propose that simplified options, decision aids, and health insurance product design to address the limited understanding of health insurance contracts will be crucial for ACA's success.

Abstract

This paper investigates whether individuals are sufficiently informed to make reasonable choices in the health insurance exchanges established by the Affordable Care Act (ACA). We document knowledge of health reform, health insurance literacy, and expected changes in healthcare using a nationally representative survey of the US population in the 5 wk before the introduction of the exchanges, with special attention to subgroups most likely to be affected by the ACA. Results suggest that a substantial share of the population is unprepared to navigate the new exchanges. One-half of the respondents did not know about the exchanges, and 42% could not correctly describe a deductible. Those earning 100–250% of federal poverty level (FPL) correctly answered, on average, 4 out of 11 questions about health reform and 4.6 out of 7 questions about health insurance. This compares with 6.1 and 5.9 correct answers, respectively, for those in the top income category (400% of FPL or more). Even after controlling for potential confounders, a low-income person is 31% less likely to score above the median on ACA knowledge questions, and 54% less likely to score above the median on health insurance knowledge than a person in the top income category. Uninsured respondents scored lower on health insurance knowledge, but their knowledge of ACA is similar to the overall population. We propose that simplified options, decision aids, and health insurance product design to address the limited understanding of health insurance contracts will be crucial for ACA's success.

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Supporting Information

Appendix (PDF)

Correction to the Supporting Information



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References

1

AD Sinaiko, RA Hirth, Consumers, health insurance and dominated choices. *J Health Econ* **30**, 450–457 (2011).

[Crossref](#) | [PubMed](#) | [Google Scholar](#)

2

F Heiss, D McFadden, J Winter, Who failed to enroll in Medicare Part D, and why? Early results. *Health Aff (Millwood)* **25**, w344–w354 (2006).

[Crossref](#) | [PubMed](#) | [Google Scholar](#)

3

DP Goldman, GF Joyce, Medicare Part D: A successful start with room for improvement. *JAMA, J Am Med Assoc* **299**, 1954–1955 (2008).

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4

J Abaluck, J Gruber, Choice inconsistencies among the elderly: Evidence from plan choice in the Medicare Part D program. *Am Econ Rev* **101**, 1180–1210 (2011).

[Crossref](#) | [PubMed](#) | [Google Scholar](#)

5

F Heiss, A Leive, D McFadden, J Winter, Plan selection in Medicare Part D: Evidence from administrative data. *J Health Econ* **32**, 1325–1344 (2013).

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6

G Loewenstein, et al., Consumers' misunderstanding of health insurance. *J Health Econ* **32**, 850–862 (2013).

[Crossref](#) | [PubMed](#) | [Google Scholar](#)

7

A Lusardi, OS Mitchell, Financial literacy around the world: An overview. *J Pension Econ Finance* **10**, 497–508 (2011).

[Crossref](#) | [PubMed](#) | [Google Scholar](#)

8

T Gutsche, A Kapteyn, E Meijer, B Weerman, The RAND continuous 2012 presidential election poll. *Public Opin Q*, in press. (2014).

[Crossref](#) | [Google Scholar](#)

9

; American Life Panel, Well Being 365 [Internet]. Santa Monica, CA: RAND Corporation. Available from: <http://mmicdata.rand.org/alp/index.php?page=data&p=showsurvey&syid=356>. (2010).

[Google Scholar](#)

10

M King, et al., *Integrated Public Use Microdata Series, Current Population Survey: Version 3.0* (University of Minnesota, Minneapolis) [Machine-readable database]. (2010).

[Google Scholar](#)

11

Henry J Kaiser Family Foundation (March 2013) Kaiser Health Tracking Poll [Internet]. Available from: <http://>

12

J Winter, et al., Medicare prescription drug coverage: Consumer information and preferences. *Proc Natl Acad Sci USA* **103**, 7929–7934 (2006).

[Crossref](#) | [PubMed](#) | [Google Scholar](#)

13

Investor FINRA Education Foundation (2009) Financial Capability in the United States [Internet]. Available from: <http://www.finrafoundation.org/web/groups/foundation/@foundation/documents/foundation/p120536.pdf>.

[Google Scholar](#)

14

CF Manski, Measuring expectations. *Econometrica* **72**, 1329–1376 (2004).

[Crossref](#) | [Google Scholar](#)

15

A Delavande, CF Manski, Probabilistic polling and voting in the 2008 presidential election: Evidence from the American Life Panel. *Public Opin Q* **74**, 433–459 (2010).

[Crossref](#) | [PubMed](#) | [Google Scholar](#)

16

Henry J Kaiser Family Foundation (2013) Status of State Action on the Medicaid Expansion Decision [Internet]. Available from: <http://kff.org/health-reform/state-indicator/state-activity-around-expanding-medicaid-under-the-affordable-care-act/>.

[Google Scholar](#)

17

A Lusardi, OS Mitchell, Baby Boomer retirement security: The roles of planning, financial literacy, and housing wealth. *J Monet Econ* **54**, 205–224 (2007).

[Crossref](#) | [Google Scholar](#)

18

JA Gazmararian, et al., Health literacy among Medicare enrollees in a managed care organization. *JAMA* **281**, 545–551 (1999).

[Crossref](#) | [PubMed](#) | [Google Scholar](#)

19

Bauhoff S, Carman K, Wupperman A (2013) Financial literacy and consumer choice of health insurance: Evidence from low-income populations in the United States. Santa Monica, CA: RAND. Available from: http://www.rand.org/pubs/working_papers/WR1013.

[Google Scholar](#)

20

A Lusardi, OS Mitchell, Financial literacy and planning: Implications for retirement wellbeing. *Financial Literacy: Implications for Retirement Security and the Financial Marketplace*, eds A Lusardi, OS Mitchell (Oxford Univ Press, Oxford, UK), pp. 17–39 (2012).

[Google Scholar](#)

21

M van Rooij, A Lusardi, R Alessie, Financial literacy and stock market participation. *J Financ Econ* **101**, 449–472 (2011).

[Crossref](#) | [Google Scholar](#)

22

M van Rooij, A Lusardi, R Alessie, Financial literacy, retirement planning and household wealth. *Econ J* **122**, 449–478 (2012).

[Crossref](#) | [Google Scholar](#)

23

T Rice, ML Graham, PD Fox, The impact of policy standardization on the Medigap market. *Inquiry* **34**, 106–116 (1997).

[PubMed](#) | [Google Scholar](#)

24

JR Kling, S Mullainathan, E Shafir, LC Vermeulen, MV Wrobel, Comparison friction: Experimental evidence from Medicare drug plans. *Q J Econ* **127**, 199–235 (2012).

[Crossref](#) | [PubMed](#) | [Google Scholar](#)

25

B Madrian, DF Shea, The power of suggestion: Inertia in 401(k) participation and savings behavior. *Q J Econ* **116**, 1149–1187 (2001).

26

JJ Choi, D Laibson, B Madrian, A Metrick, For better or worse: Default effects and 401(K) savings behavior. *Perspectives on the Economics of Aging*, ed DA Wise (Univ of Chicago Press, Chicago), pp. 81–121 (2004).

[Google Scholar](#)

27

A Tversky, E Shafir, Choice under conflict: The dynamics of deferred decision. *Psychol Sci* **3**, 358–361 (1992).

[Crossref](#) | [Google Scholar](#)

28

R Dhar, Context and task effects on choice deferral. *Mark Lett* **8**, 119–130 (1997).

[Crossref](#) | [Google Scholar](#)

29

SS Iyengar, G Huberman, W Jiang, How much choice is too much? Contributions to 401(k) retirement plans. *Pension Design and Structure: New Lessons from Behavioral Finance*, eds O Mitchell, S Utkus (Oxford Univ Press, Oxford), pp. 83–95 (2004).

[Crossref](#) | [Google Scholar](#)

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