

Health Literacy, Access to Care, and Patient Satisfaction in a National Sample of Older Americans

Helen Levy, PhD, Univ. of Michigan

Alex Janke, BS, Wayne State Univ.

Background

- Well-established link between low health literacy and poor outcomes
- Many studies rely on samples defined by site of care, managed care plan, or a particular chronic condition
- All of these presuppose a connection to the health care system
- What about the effect of low health literacy on access in the general population?

Data: The Health & Retirement Study

- HRS: A cooperative agreement between NIA and the University of Michigan
- Longitudinal bi-annual study started in 1992
- Nationally representative of Americans ages 51+
- New cohorts added every 6 years
- About 22,000 respondents in 2010
- Topics include health, wealth, work, & cognition

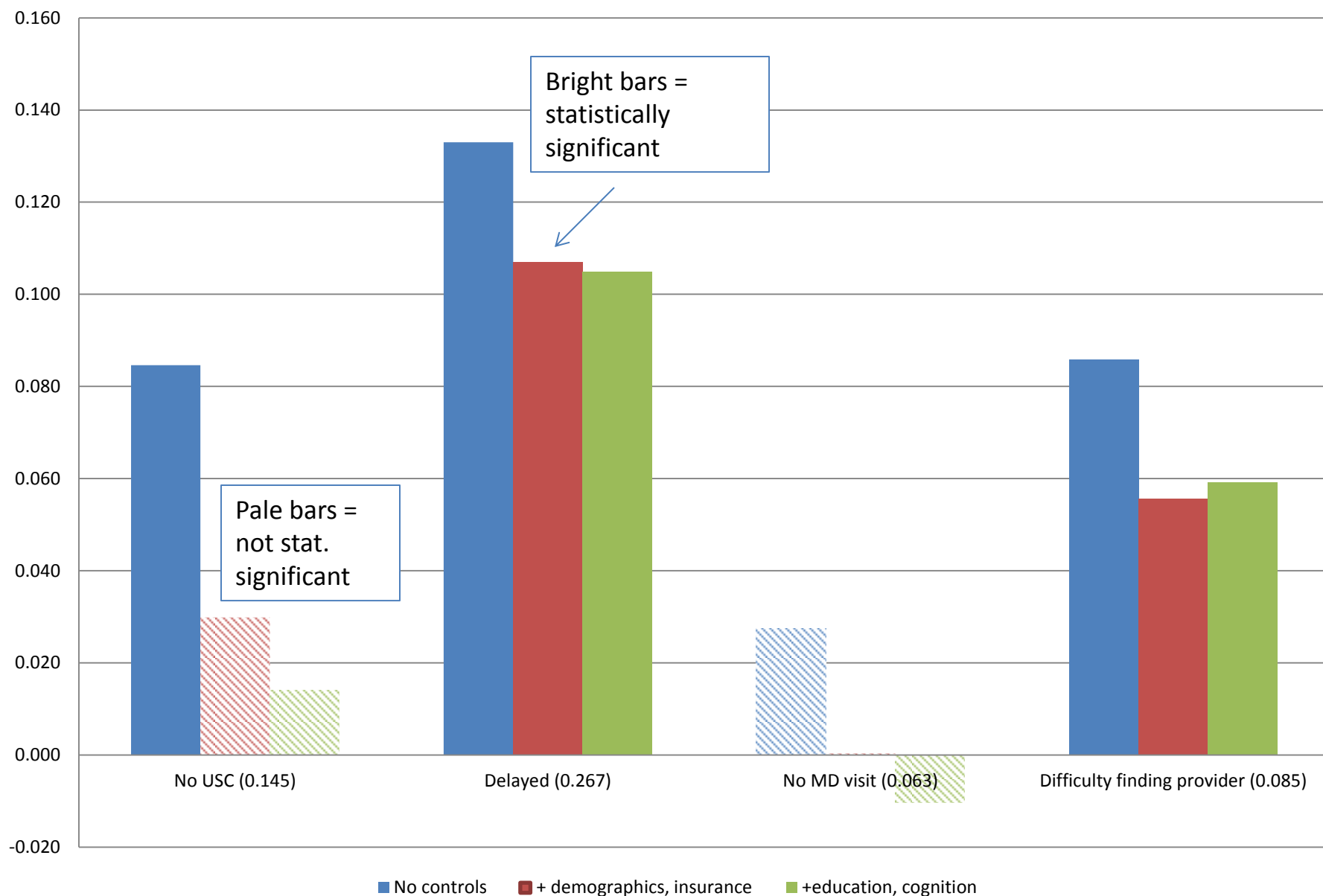
Data: HRS mailer on access to care

- Fall 2011: self-administered mail questionnaire (“mailer”) sent to about half the HRS sample
 - 75% response rate
 - Sample for analysis: n=7,166
 - 3,900 ages 65+; 3,266 ages 51-64
- Included questions on access to care and self-assessed health literacy (confidence filling out medical forms)

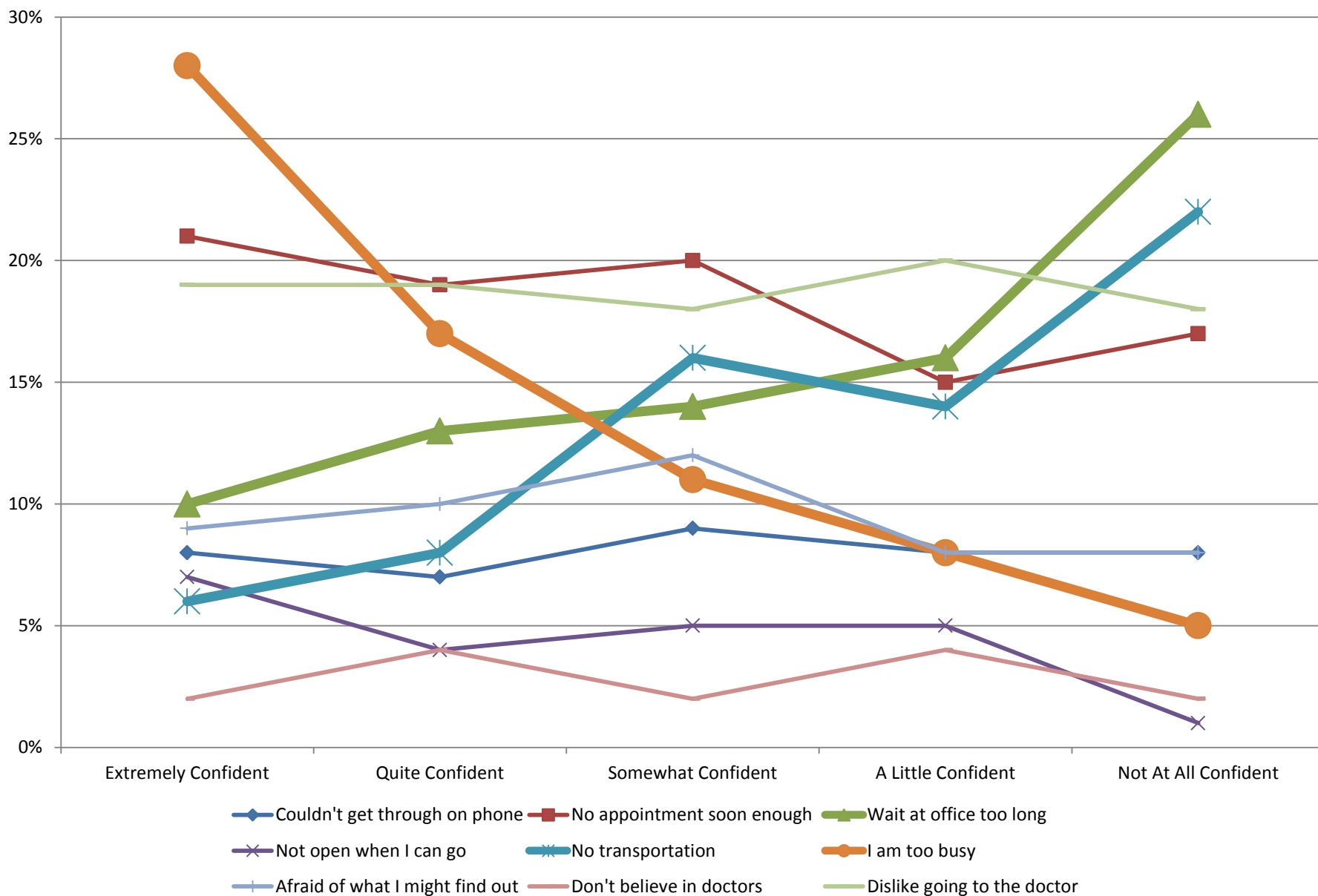
Plan of analysis

- Outcomes
 - No usual source of care
 - Delayed medical care in past year (& reasons)
 - No doctor visits in past year
 - Difficulty finding a provider (& kind of difficulty)
- Key predictor: low self-assessed health literacy (27% of sample)
- Control variables:
 - Age, race/ethnicity, gender, marital status, health insurance
 - Years of education, general cognitive ability (word recall & serial 7s)

Marginal effect of low health literacy on access outcomes: Near elderly



Reasons for delaying medical care, by self-assessed health literacy



Recap of results just shown

- Low health literacy means more delayed care and more difficulty finding a provider
- No effect on $\text{Prob}(\text{no medical visit})$ or $\text{Pr}(\text{usual source of care})$, once covariates included
- Reasons for delaying care are different. Low health literacy means
 - > more likely to say no transportation or wait at office is too long
 - > less likely to say they are too busy

Other results (not shown)

- Reasons for difficulty finding a provider also vary with health literacy: low health literacy means
 - > Low health literacy means more likely to say “None close by,” “No appointments”
 - > No gradient in “Could not get referral”, “Not accepting new patients”, “Did not accept insurance”
- Satisfaction with doctors & nurses is lower for patients with low health literacy, who are more likely to say:
 - Doctors & nurses don’t listen carefully
 - Doctors & nurses don’t show respect
 - Doctors & nurses don’t spend enough time

Conclusion

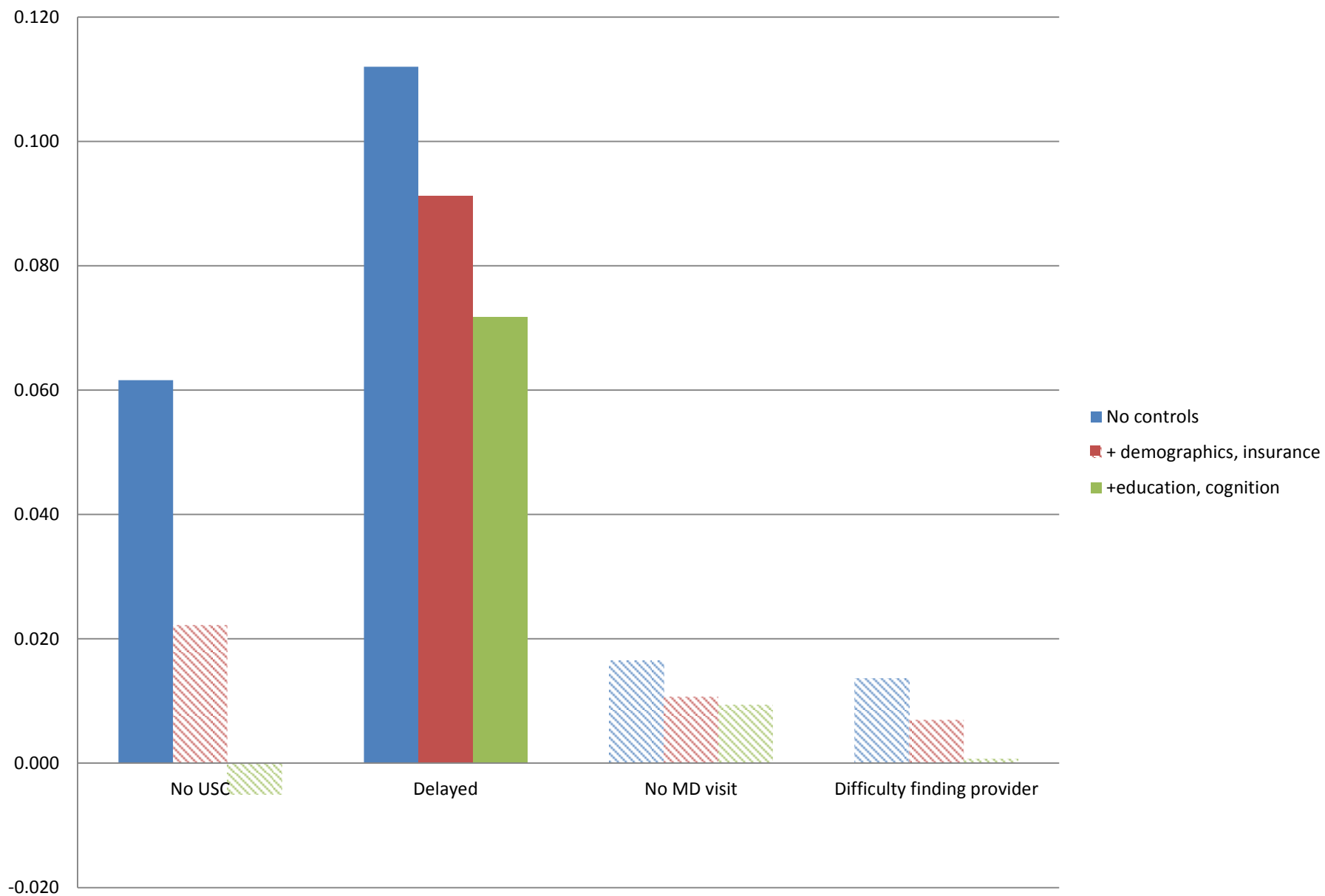
- Patients with low health literacy are more likely to report delaying care or having difficulty finding providers
 - These findings are robust to the inclusion of covariates (including general cognition)
- They also have different reasons for delaying
 - Transportation; long wait
- Satisfaction with providers is lower
 - More complaints about communication

Backup slides start here.

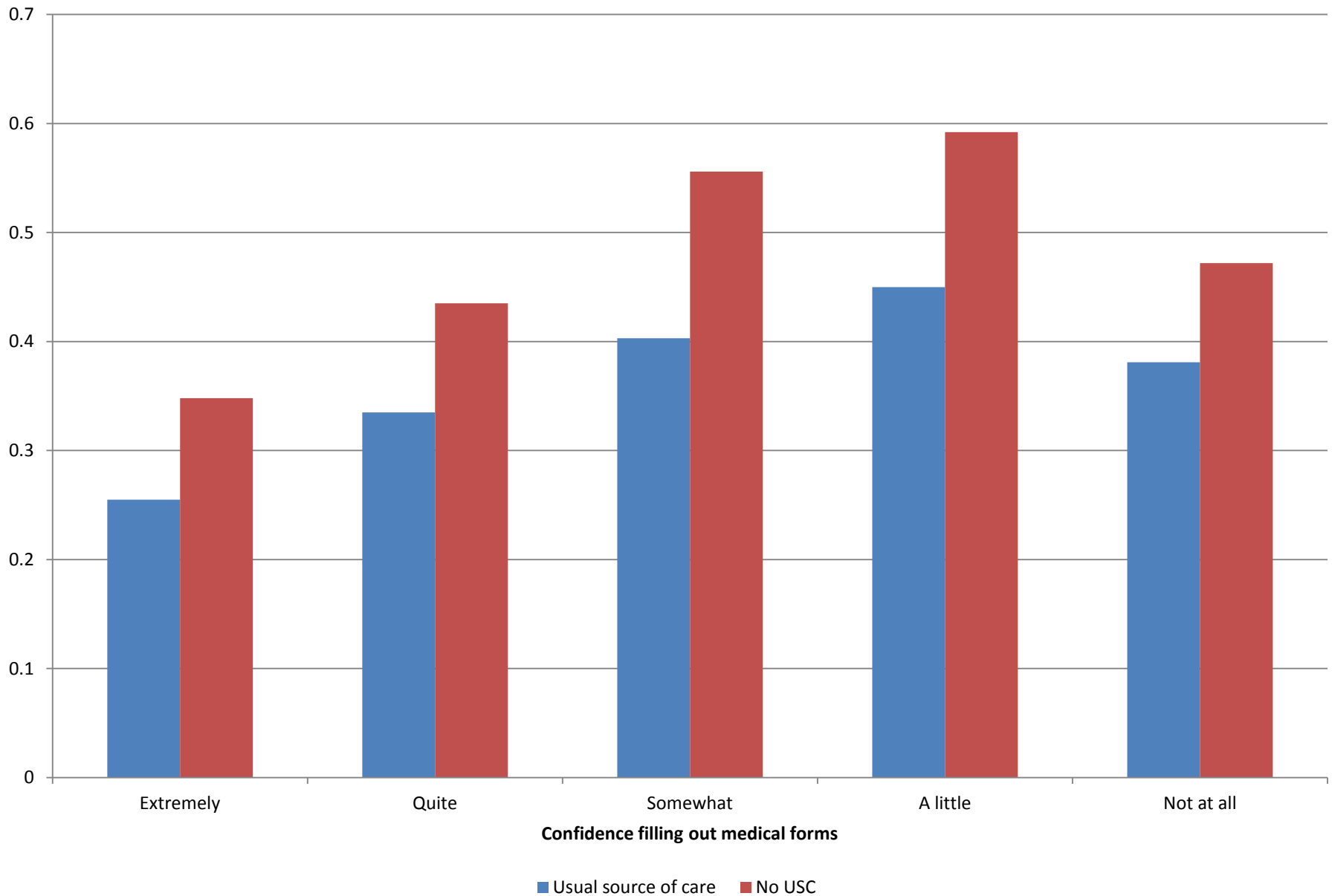
	HRS 2010 core sample, ages 51+			2010 CPS, ages 51+
	Our participants	Core, No Mailer	ALL 2010 core	
Age	64.281	64.321	64.315	64.201
% 65 or Older	0.424*	0.409	0.415	0.423
Female	0.544	0.536	0.539	0.537
Married	0.678*	0.578	0.614	0.629
White, Non-Hispanic	0.82*	0.769	0.787	0.766
Black, Non-Hispanic	0.076*	0.114	0.100	0.099
Other Race, Non-Hispanic	0.029	0.026	0.027	0.051
Hispanic	0.076*	0.091	0.085	0.084
Less Than High School	0.135*	0.166	0.155	0.146
High School	0.326*	0.295	0.307	0.337
Some College	0.242	0.252	0.248	0.242
College	0.292	0.283	0.286	0.274
Region1	0.162*	0.180	0.174	0.191
Region2	0.276*	0.236	0.250	0.222
Region3	0.361*	0.378	0.372	0.366
Region4	0.200	0.204	0.203	0.221
Self-Reported Health Fair/Poor	0.215*	0.269	0.249	0.248
Mean Memory Score (0-20)	9.988*	9.412	9.618	N/A
Serial Sevens score (0-5)	3.674*	3.419	3.510	N/A
Sample N	7,583	14,387	21,970	54,206

*Indicates mean is significantly different from mean to the right with $p < 0.05$.

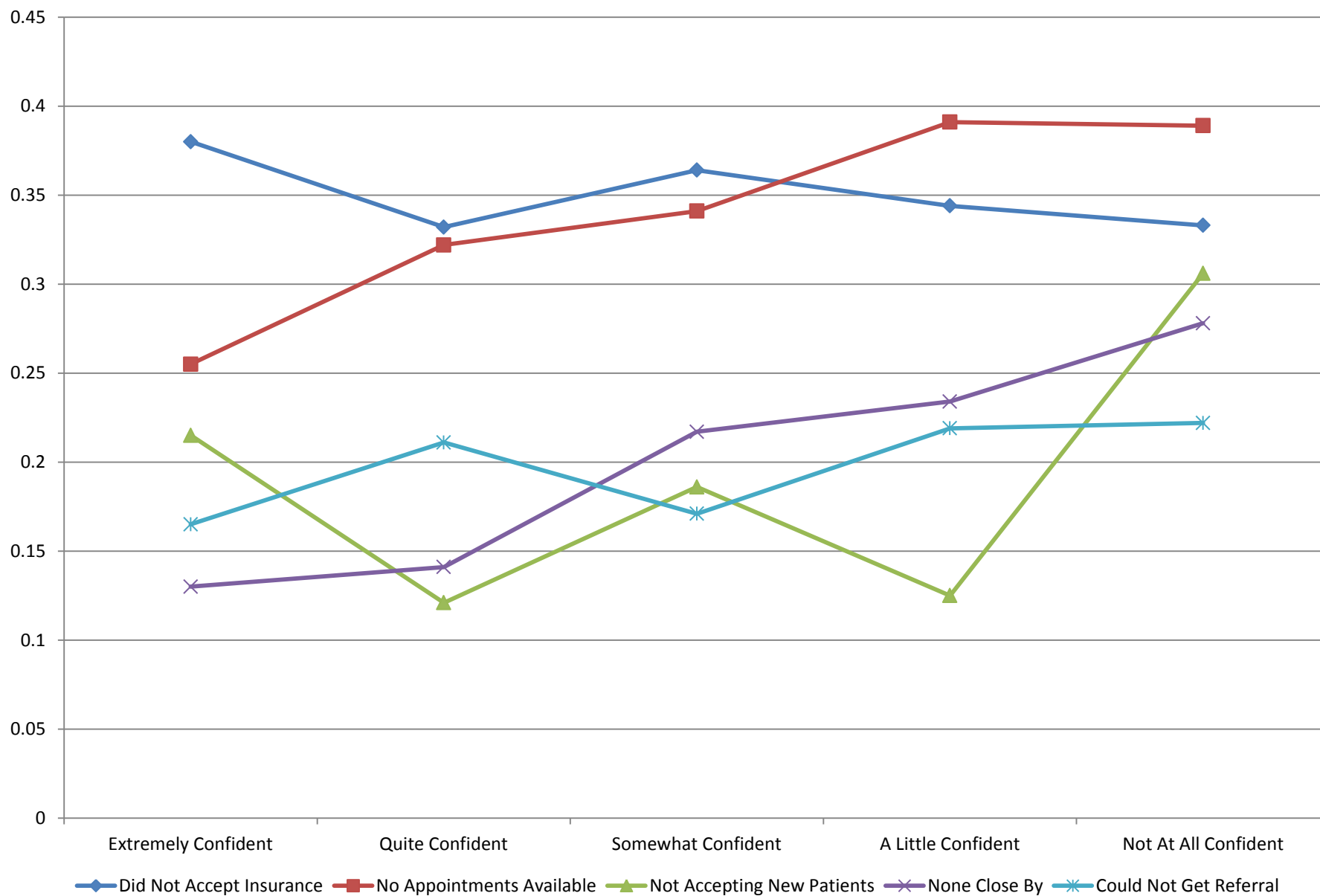
Marginal effect of low health literacy on access outcomes: Near elderly



Fraction who delayed care (ages 55-64)



Reasons for difficulty finding a provider



Satisfaction w/doctors & nurses

