# Northwesser University Feinberg School of Medicine Literacy, Race, and Advance Directives Among Older Adults Waite KR, Curtis LM, McCarthy, D, Bojarski EA, O'Conor R, Sudore, R, Federman, A, Wolf MS' Funded by the National Institute on Aging

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### Background

- Less than one-third of U.S. adults have advance directives (AD)
- With aging Baby Boomer generation, increasing need to discuss and establish Ads
- Previous research of AD adoption has addressed certain patient-level factors - little attention paid to role of health literacy

**Study Objective** <u>Examine</u> associations between health literacy and other patient-level characteristics with adoption of advance directives among older adults.

## **Study Population**

- N = 784 older adults ages 55-74
- Recruited from 1 academic general internal medicine clinic or one of six FQHCs in Chicago
- Data collected between August 2008 and November 2010

### Methods

- Structured cognitive interviews
- AD documentation and demographic data collected via self-report and chart abstraction
- Health literacy assessed using full TOFHLA

Sample	Characteristic	Total %	Have AD (%)	P-Value
	Age Group			<.001
	55-60	37.9	32.0	
Demo mentile e	61-65	28.4	43.1	
Demographics	66-70	21.6	50.3	
	71-74	12.1	49.5	
	Sex			.78
	Female	67.7	40.9	
	Male	32.3	41.9	
	Race			<.001
	African American	43.1	22.9	
	Caucasian	50.0	57.2	
	Other	6.9	38.9	
	Education			<.001
	High School or less	27.2	18.3	
	Some College	21.9	40.1	
	College Graduate	20.3	53.5	
	Graduate Degree	30.6	54.2	
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cteristic \$10,000 10,000 - \$24,999 25,000 - \$49,999 \$50,000	Total % 12.1 19.1 15.3 53.4	Have AD, % 16.7 25.4 38.6 54.4	P-Value < 0.001
\$10,000 10,000 - \$24,999 25,000 - \$49,999	19.1 15.3	25.4 38.6	< 0.001
10,000 - \$24,999 25,000 - \$49,999	19.1 15.3	25.4 38.6	
25,000 - \$49,999	15.3	38.6	
\$50,000	53.4	54.4	
		34.4	
tatus			0.02
lo work	64.9	40.6	
art-time	14.9	52.1	
ull-time	20.2	35.4	
r of Chronic Conditions			< 0.001
-1	44.9	48.0	
	28.8	40.7	
or more	26.3	41.2	
	III-time r of Chronic Conditions 1	1 44.9 28.8	11-line 20.2 35.4 r of Chronic Conditions 1 44.9 48.0 28.8 40.7

# Sample - Health Literacy

Health Literacy			
····/			< 0.001
Low	12.7	12.4	
Marginal	16.2	26.6	
Adequate	71.2	49.5	



# Health Literacy Explanatory Effect

	Model 1		Model 2	
Characteristic	RR	95% CI	RR	95% CI
Education				
High school or less	0.59	0.38, 0.90 †	0.68	0.44, 1.07
Some college	1.12	0.80, 1.56	1.14	0.81, 1.60
College graduate	1.08	0.82, 1.44	1.08	0.81, 1.45
Graduate degree				
Income				
< \$10,000	0.57	0.32, 1.01	0.62	0.35, 1.11
\$10,000 - \$24,999	0.69	0.46, 1.03	0.72	0.48, 1.09
\$25,000 - \$49,999	0.85	0.60, 1.20	0.89	0.62, 1.28
> \$50,000				
Number of Chronic Conditions				
0-1				
2	1.00	0.77, 1.31	1.01	0.78, 1.32
o <0.05; ‡<0.01				

### Conclusions

• Literacy had a modest explanatory effect on AD completion

- Less than half of African-Americans reported having AD; literacy did not reduce this relationship
- Further investigation needs to be completed in order to identify factors other than literacy that play a role in AD decision making so that more effective interventions can be created