

Uncertainty About Advance Care Planning Treatment Preferences Among Diverse Older Adults

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Background



- Advance care planning asks patients to make treatment decisions in advance
 - E.g., CPR and mechanical ventilation
- Low rates of engagement in advance care planning among racial/ethnic minorities
- Aggressive treatments more often requested by
 - Racial/ethnic minorities
 - limited health literacy

Background



- Hypothetical scenarios are often used in advance care planning
 - E.g., “Imagine you were in a coma...”
- Patients may have difficulty extrapolating current treatment preferences to unknown future circumstances

Background



- When patients articulate their treatment preferences in advance based on scenarios
 - we assume they are certain about their choices
 - place a great deal of weight on the decisions
- If patients are not completely certain about their choices
 - we may misrepresent their preferences in a medical crisis

Objectives



- To assess advance treatment preferences among diverse, older adults in response to a hypothetical scenario
- To assess patients' uncertainty about these treatment preferences
- To assess associations between uncertainty and patient characteristics
 - race/ethnicity and literacy level.

Methods



- **Design:** Cross sectional, descriptive
- **Participants:** 205 English/Spanish-speakers, aged ≥ 50 years
- **Setting:** Outpatient clinic, San Francisco General Hospital
- **Intervention:** Scenario
 - read to participants by bi-lingual research assistants
 - reassured that the scenario did not pertain to them
 - asked to imagine situation and care they may want

Hypothetical Scenario: Poor Outcome

“Imagine your doctor told you that you have a serious disease that does not have a cure and that you may die within the next 6 months.

Then imagine you get very sick and have to go to the hospital. You and your doctor have to decide what to do.

Your doctor thinks that life-support treatments are NOT LIKELY to help you live longer and will not cure your serious disease.

Some examples of life support treatments are: shocks to the heart, pressing on the chest to keep the heart pumping, and a tube placed in the lungs to help with breathing.”

Methods: Outcome Variables

- **1. Treatment Preferences:**

“Imagine you were in this situation. Would you choose:”

- All life-support treatments
- To try life-support treatments, but stop if not helping
- No life-support treatments

- **2. Uncertainty:**

“How certain are you about your decision?”

- very sure, somewhat sure, not so sure, not sure at all

- Because life/death decisions may be based on preferences:

- Uncertainty defined as: somewhat sure, not so sure, not sure at all

Methods: Predictor Variables

- Demographics: race/ethnicity, SES, education
- Health status
- Religiosity
- Prior exposure to end-of-life issues
 - Advance directive
 - ICU
 - Surrogate decision maker
- Literacy:
 - s-TOFHLA, scores 0-36
 - limited literacy defined as score ≤ 22

Results

PATIENT CHARACTERISTICS, n = 205		Mean / %
Mean Age (years)		61 ($\pm$ 8)
Women		52
Race/Ethnicity: White, Non-Hispanic		25
White, Hispanic (Latino)		31
Black, Non-Hispanic		24
Asian/Pacific Islander		9
Multi-racial/ethnic, Other		10
Education: < High school education		31
Limited Literacy		40
Spanish-speaking		29
Fair-to-poor self-rated health		69
Very to extremely religious		46
Prior exposure to EOL issues		76

Results: Preferences & Certainty

PREFERENCES AND CERTAINTY, n = 205		%
Life Support Preferences Based on Scenario		
All life support treatments		20
Try life support, but stop if not working		28
No life support treatments		45
Do not know		7
Degree of Certainty		
Very sure		55
Somewhat sure		32
Not so sure		8
Not sure at all		5
Uncertainty about treatment decisions*		45

* Uncertainty did not vary by treatment preference (p=0.35)

Patient Characteristics Assoc. w/ Uncertainty

PATIENT CHARACTERISTICS *Only statistically significant results shown	Uncertain %	P-value
Race/Ethnicity:		
Asian/Pacific Islander	74	<.001
White, Hispanic (Latino)	62	
Black, Non-Hispanic	37	
White, Non-Hispanic	31	
Multi-racial/ethnic/Other	24	
Education:		
< High school education	55	.05
≥ High school education	41	
Literacy		
Limited	61	<.001
Adequate	34	
Language		
Spanish	63	<.001
English	38	
Health Status		
Fair-to-poor	51	.01
Good-to-excellent	31	

Race/ethnicity, Literacy, & Health Status Independently Associated with Uncertainty

Characteristics Associated with Uncertainty — Multivariate*	OR (95% CI)
Asian/Pacific Islander vs. White	4.90 (1.42-16.90)
Latino vs. White	2.45 (1.04-5.81)
Limited vs. Adequate Literacy	1.91 (1.00-3.70)
Fair-to-poor vs. good-to-excellent health status	2.03 (1.00-4.15)

*Adjusted for age, race, gender, literacy, religiosity, health status, and prior end-of-life experiences
Education and language excluded due to high correlations with literacy and race/ethnicity

Limitations



- Only one hospital
- Only one scenario
- Cannot disentangle uncertainty about preferences and the question
- Decisions in research study may differ from clinical care

Conclusions



- ~50% of diverse older adults who reported a treatment preference based on a hypothetical scenario were uncertain about their decision
- Uncertainty was more common among
 - Minorities
 - participants with limited literacy
 - and poor health status

Implications



- Patients may not be ready or able to make definitive advance treatment decisions based on hypothetical scenarios
- By assuming these advance treatment preferences represent truth:
 - may misrepresent patients' preferences
 - esp. among minorities & limited literacy
- Assess certainty and re-assess over time

Implications for Advance Care Planning

- Move away from asking patients to make advance treatment preferences based on “what ifs”
- Move to preparing patients and surrogates to talk to one another, identify their values, and make appropriate decisions in the face of serious illness
 - To this end, need culturally sensitive, literacy-appropriate decision support tools

Multivariate Results

Characteristics Associated with Preferences (All LS)	OR (95% CI)
Asian/Pacific Islander vs. White (5/19 = 26%)	5.6 (1.2-25.5)
Latino vs. White (22/64 = 35%)	7.9 (2.3-27.8)

*Adjusted for age, race, gender, literacy, religiosity, health status, and prior end-of-life experiences
Education and language excluded due to high correlations with literacy and race/ethnicity