

“Knowing is Better”: Preferences of Diverse Older Adults for Discussing Prognosis

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BACKGROUND: Prognosis is critical in individualizing care for older adults with late life disability. Evidence suggests that preferences for prognostic information may be culturally determined. Yet little is known about the preferences of diverse elders for discussing prognosis.

OBJECTIVE: To determine the preferences for discussing prognosis of a diverse sample of older adults with late-life disability

DESIGN & PARTICIPANTS: We interviewed 60 older adults with mean age 78 and mean 2.5 Activities of Daily Living dependencies. Participants were recruited from San Francisco's On Lok program, the first Program of All-inclusive Care for the Elderly (PACE). Participants were interviewed in English, Spanish, and Cantonese, and responded to scenarios in which their doctors estimated they had 5 years and 1 year left to live. Open-ended questions explored the reasons for their responses. Results were analyzed qualitatively using grounded theory.

KEY RESULTS: Sixty-five percent of participants wanted to discuss the prognosis if their doctor estimated they had <5 years to live and 75% if the estimate was <1 year. Three themes were prominent among patients who wanted to discuss prognosis: to prepare, to make the most of the life they had left, and to make medical or health-related decisions. Those who preferred not to discuss prognosis described emotional difficulty, the uncertainty of prognosis, or that it would not be useful. Nearly all participants said that doctors should not make assumptions based on race or ethnicity, though differences between ethnic groups emerged.

CONCLUSIONS: Most patients in this diverse sample of disabled elders were interested in discussing prognosis, while a substantial minority was not. Among those participants who preferred to discuss prognosis, many said that prognostic information would be important as they made difficult medical and personal decisions in late-life. Clinicians should inquire about

preferences for discussing prognosis before sharing prognostic estimates.

KEY WORDS: prognosis; elderly; disability; diverse; PACE.

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BACKGROUND

Prognosis is an important factor in individualizing care for older adults living with late life disability,¹ and physical disability is a major predictor of limited prognosis.^{2–7} As a result, medical treatment guidelines are increasingly based on prognostic information rather than on arbitrary age-based cutoffs.^{8–11} In addition, prognosis impacts the likelihood of benefits and harms arising from tests or treatments with up-front harms and delayed benefits, such as cancer screenings^{12,13} or medications targeted at risk factor reduction.¹⁴ When shared with patients, prognostic information may also facilitate greater patient involvement in medical decision-making.^{15–19}

Despite evidence suggesting that prognosis is an important tool in the care of older adults with late-life disability, we know very little about the preferences for discussing prognostic information in this population. Moreover, although Latinos, Chinese-Americans, and African-Americans are among the fastest growing groups of American elderly,²⁰ the extent to which preferences for prognosis may vary across racial and ethnic groups is not well understood.²¹ One study of 214 older adults with limited life expectancy (91% white) found that 50% of participants with a prognosis of 5 years left to live and 83% of those with a prognosis of less than 1 year wanted to discuss prognosis with their doctor.²² Literature from outside the US shows that elders in traditional Chinese families may prefer non-disclosure of poor prognosis,^{23,24} though more recent findings from China and Korea suggest that patient attitudes in Asian cultures may be changing in favor of direct, patient-centered disclosure.^{25,26} A limited number of studies

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from the advance planning literature also point to Latinos' unique perspectives on patient-doctor discussions around the end of life.^{27,28} Additional studies have addressed how best to discuss prognosis given patients' preferences and perceived needs,^{17,29,30} but we could find no deep, qualitative investigations of the reasons behind patient preferences for prognosis in a diverse elderly population. An in-depth understanding of the factors that motivate patients to desire or decline prognostic information, however, could enable clinicians to provide individualized and patient-centered care for diverse older adults in late life.

To address the lack of in-depth information about preferences for prognosis from diverse communities, we conducted a qualitative study of diverse elders' attitudes towards discussing prognosis. We explored the reasons behind stated preferences for prognostic information, included probes about the roles of uncertainty, hope, and family, and asked participants to discuss how clinicians could communicate prognosis most effectively.

METHODS

Design and Setting

We conducted a qualitative study using in-person interviews with 60 older adults from San Francisco's On Lok Lifeways program, the first Program of All-inclusive Care for the Elderly (PACE). On Lok patients are nursing home eligible and live an average of 4.5 years from the time of their enrollment.³¹ With its interdisciplinary model of community-based long-term care, On Lok aims to help seniors live at home and in their familiar communities for as long as possible. Though each On Lok center serves a diverse patient base, some centers focus on providing services to specific groups such as Latino or Chinese elders. Thus, recruitment sites for this study were selected to ensure an ethnically diverse sample.

Participants and Procedures

Eligible participants included all On Lok enrollees at six of eight San Francisco sites whose primary language was English, Spanish, or Cantonese, and who scored greater than 17 on the Mini-Mental State examination. Querying the On Lok database using these parameters, we identified a sample of 177 potential participants. On Lok social workers then helped us to identify the subjects among this group that could participate in a 45-min interview and did not have severe mental illness. We then began interviewing, seeking a balance of participants among ethnic groups. We conducted semi-structured qualitative interviews in private settings at each patient's On Lok site. Interviews were

conducted in English, Spanish, and Cantonese by native-speaking researchers who were not affiliated with On Lok. After translation from English into Spanish and Cantonese, the interview guide was reverse-translated to ensure accuracy. Where words or concepts did not translate well from English to Spanish or Cantonese, we located a word or concept that worked well in Spanish and Cantonese and translated back to English.

Following a short series of questions to establish rapport, participants were asked if they had ever talked with their doctor about how long they might have left to live. Participants were asked to respond to scenarios in which their doctors estimated that they had less than 5 years and 1 year left to live. Using the example of a prognosis of less than 5 years to live, interviewers then asked a series of open-ended questions to further explore patient preferences for discussing prognosis (see [Online Appendix](#) for interview guide). The interview guide was modified as interviews were conducted to further explore emerging themes. All interviews took place over a 6-month period in 2010. Demographic and health data were collected from On Lok medical records, including Activities of Daily Living (ADL) and Instrumental ADL dependencies.

Analysis

Interviews were recorded, translated, and transcribed, and results were analyzed following standard grounded theory principles.^{32,33} Data were analyzed using a system of constant comparative analysis, reviewing interviews iteratively to identify new themes. A multidisciplinary research team including scholars from medicine, geriatrics, ethics, and health policy reviewed transcripts from early interviews to develop a common codebook. A single researcher then coded all subsequent interviews. Coding of 25% of all data, using randomly selected transcript pages, was repeated by a second researcher with >80% concordance, and disagreements were resolved by consensus. As new themes emerged, new codes were developed with input from the multidisciplinary research team, and previously coded interviews were re-coded. Because our objective was to determine the preferences for discussing prognosis of a diverse sample of older adults with late-life disability, the emergence of new themes within ethnic groups guided our study end-point. When no new themes emerged from multiple interviews with participants from each ethnic group, thematic saturation was reached, and no further interviews were conducted.³⁴

RESULTS

The characteristics of 60 older adults interviewed for this study are detailed in Table 1. The mean age of participants

Table 1. Characteristics of Study Participants

N	60
Mean age (sd)	78 (9.6)
Female (n)	63% (38)
Race/ethnicity (n)	
African-American	20% (12)
Chinese-American	32% (19)
European-American	23% (14)
Latino	18% (11)
Other	7% (4)
Education (n)	
None	5% (3)
Some elementary	40% (24)
Some high school	32% (19)
Some college/graduate	23% (14)
Mean quality of life* (SD)	3.3 (0.9)
Mean ADL [†] disabilities (SD)	2.5 (1.8)
Mean IADL [‡] disabilities (SD)	6.6 (0.8)
Mean Mini-Mental State score (SD)	26 (3.2)

*Participants were asked to score their quality of life on a scale of 1 (poor) to 5 (excellent)

[†]Activities of Daily Living (score is out of 6 possible disabilities)

[‡]Instrumental Activities of Daily Living (score is out of 7 possible disabilities)

was 78; 63% were female. Our sample was diverse, comprised of 12 (20%) African-Americans, 19 (32%) Chinese-Americans, 14 (23%) Whites, 11 (18%) Latinos, and 4 (7%) participants who reported their race/ethnicity as “other” (Hawaiian, Filipina, African, and Native American). On average, participants in the study were dependent in 2.5 of 6 Activities of Daily Living (ADLs) and in 6.6 of 7 Instrumental ADLs.

Discuss Prognosis with a Physician or Clinician

Only one participant in our study reported ever having discussed prognosis with a doctor. This participant described a brief, patient-initiated discussion that took place in response to a new course of treatment: “When they did my dialysis, they said it may be that I have 10 years left. I have about 6 now. He told me just like that—my husband was there—he told me 10 years or more, depending on my treatment” (Latino woman, age 69).

While over 95% of participants had never discussed prognosis with a doctor, a dominant theme to emerge from participant interviews was a preference for discussing prognosis. When given a hypothetical scenario in which their doctor believed they may have less than 5 years to live, 65% of participants said they would want their doctor to discuss their prognosis with them. As prognostic estimates shortened, more participants reported wanting to discuss prognosis with their doctor; at 1 year or less to live, 75% of participants said they would want this information (8 of 12 African-Americans, 15 of 19 Chinese-Americans, 12 of 14 Whites, and 7 of 11 Latinos). Among participants who reported wanting to discuss prognosis at both 5 years and 1 year, many described their

preference for discussion at 1 year in more urgent terms: “In 1 year, it passes, time flies” (Chinese-American woman, age 87).

Reasons to Discuss Prognosis

Three broad themes emerged to describe participants’ reasons for wanting to discuss prognosis: (1) to prepare for the end of life, (2) to make the most of the life they had left, and (3) to make medical or health-related decisions (see Table 2). Many, in particular, emphasized how they expected prognostic information to enable “preparation” or “readiness” ahead of death: “I can prepare mentally” (Chinese-American man, age 78); “to prepare myself emotionally and religiously” (Latino woman, age 70); “to make preparations for my family, financial and emotional” (White woman, age 60); “to help me get ready” (African-American woman). Three domains describing prognosis-aided preparation were dominant: (1) financial and logistical, (2) psychological or spiritual, and (3) preparing friends and family. Two domains were also described by participants who said prognostic information would enable them to make the most of the time they had remaining. Some believed they would feel free to pursue pleasurable activities; others felt that knowing their prognosis would push them to pursue good deeds before death (Table 2). Among participants who desired prognostic information for medical decision-making, some felt that knowing their prognosis would help them make decisions that could improve their prognosis. An 80-year-old Chinese-American man, for example, said: “When I know, I’ll take special precautions like eat less sugar and rice.” Others believed that knowing prognosis would provide a helpful context in which to make decisions about their care: “I would want them to tell me so that I could decide what I am going to do. I don’t want to die here. I want to die at home” (Latina woman, age 69).

Participants often weighed competing concerns before arriving at their preference for prognostic information. “There would be days I get depressed, being human. But I think not knowing is worse” (White woman, age 78); “Your heart will be uncomfortable but you will die anyway. It’s better if you know” (Chinese-American man, age 80). These participants often described a psychological resiliency that would allow them to successfully adapt to knowing their prognosis: “The first thing comes shock and then comes a tremendous amount of anger and then comes sort of like—you get used to it kind of a thing—and then you start thinking logically what to do” (White man, age 76). Others expected to counter emotional challenges using a religious or spiritual coping strategy: “The hope issue is not even in there because with my religion, I don’t have any fear of dying” (White woman, age 59).

Table 2. Participant Preferences for Discussing Prognosis with Their Doctors

Description	Domain	Quote
75% of participants said they would want to discuss prognosis with their doctor	To prepare:	“He can tell me. It’s all right—to help me get ready” (African-American woman, age 78)
	Logistically or financially	“I would take money out of the bank and see who I could give it to” (Latino man, age 84)
	Psychologically or spiritually	“I need to prepare for eternity. If I can change something for the better, it’s my opportunity to do so. If I don’t know, I couldn’t reform” (White woman, age 78)
	Friends and family	“I would talk and spend time with my family and friends more. I would talk to the people close to me. Finish all the unfinished business” (Chinese-American woman, age 76)
	To make the most of the time they have left	“I would strive to live each day well...I would try to go out and have fun!” (Latino woman, age 65) “So I would have the time to make the most of myself” (Chinese-American man, age 93)
	To Make medical or health-related decisions	“To see how much—what I could do to help people out, and how to live better and everything—get my life straight...It would be a great help” (White man, age 72) “I don’t want my death to be a complete surprise. I’d like to know what can be done, if anything can be done, to prolong my life. If there is, tell me about it. If there isn’t, tell me that too. I want to know” (African-American woman, age 97) “I would like to ask the physician, why is the reason I would die 5 or 10 years later...I, myself, can do better” (Chinese-American man, age 93)
	25% of participants said they would prefer not to discuss prognosis with their doctor	Too emotionally difficult
Prognostic information is not useful		“I would not change what I am doing and my children wouldn’t either...I don’t think I would feel good because I have accepted it” (Latino woman, age 86)
Doctors can’t estimate prognosis		“I don’t need [my doctor]’s warning. I don’t need his advice. He’s also human. He’s not God to know when I’m going to die” (Filipino woman, age 85) “I wouldn’t believe it... [doctors are] just guessing. God is the only one knows” (African-American woman, age 88)

Reasons Not to Discuss Prognosis

A significant proportion of participants (25%) said they would prefer not to discuss prognosis at any timeframe. Three themes emerged to describe this preference: (1) knowing prognosis imposes too great an emotional burden, (2) prognosis is not medically determined or is too uncertain, and (3) prognostic information is not useful (see Table 2). Among these themes, concerns over the emotional burdens associated with knowing prognosis were most prominent. Participants felt that discussing prognosis could lead to “anguish” (Latino woman, age 88), “depression” (Latino man, age 66), or difficulty avoiding negative thoughts. Others doubted doctors’ ability to know or estimate prognosis: “They don’t know, so they should just not even start to discuss it with the patient” (White man, age 81). A smaller number of participants preferred not to discuss prognosis because they felt the information would not be useful. More often, however, participants who declined to discuss prognosis also acknowledged ways in which prognostic information could be useful. The man (White, age 81) quoted above, for example, still felt that if it was possible to know his prognosis, discussing it “would be

helpful to me because I wouldn’t take everything for granted.”

Racial/Ethnic Themes

While a majority of participants of each race/ethnicity expressed a preference for discussing prognosis with their doctors, themes within racial/ethnic groups and pairings also emerged. Unlike others, some White and African-American participants, for example, spoke of an obligation on the part of doctors to share prognostic estimates: “I think I’m entitled to that information; if that’s actually what they think or believe, I’m supposed to know that” (White woman, age 89). Latinos, more than others, expressed concern over the emotional burdens associated with discussing prognosis. Latinos were also the only participants to express a preference for a clinician from their same ethnic background. For example, when asked if she would prefer that discussions of prognosis be conducted in her native language, one participant replied: “yes...there is a better understanding there—you understand better when [doctors] are Latino and they speak Spanish” (Latino woman, age

69). Similarly, though the majority of participants arrived at a clearly stated preference, a theme of indifference emerged almost exclusively among Chinese-American participants: “however long one has to live, that’s how long one has to live. Whether or not I know, it doesn’t matter” (Chinese-American man, age 87).

Despite these differences between racial/ethnic groups, nearly all participants felt that a doctor should not make assumptions based on the patient’s ethnicity. Rather, participants stressed that preferences for prognostic information are deeply personal and that doctors should ask each patient if he or she would like to discuss prognosis before sharing prognostic estimates. Participants agreed that the communication skills and strategies doctors use during the discussion of prognosis would impact how they receive the information. Participants said they would be more receptive to discussing prognosis if doctors were direct, empathic, and not rushed. Many also felt that doctors should acknowledge that any prognostic estimate is uncertain (Table 3).

CONCLUSION

The strongest theme from our study of diverse older adults with late-life disability was the acceptability and even desire to discuss prognosis by most participants. Moreover, as

prognostic estimates decreased from 5 years to 1 year, more participants were interested in discussing prognosis. In describing why they preferred to discuss prognosis, participants talked about preparing themselves and their families, providing for their own emotional and spiritual needs, and making medical and health-related decisions. Conversely, a substantial minority of older adults said they would not want to discuss prognosis. These participants feared the emotional burdens associated with knowing prognosis, felt that prognostic estimates were too uncertain, or doubted that prognostic information could be useful to them. Important differences between racial/ethnic groups emerged, though nearly all participants preferred that doctors not make assumptions based on ethnicity. Participants also stressed specific communication strategies clinicians could use to ensure that discussions of prognosis are productive. These results point to a discord between clinical practice and patient preferences in prognostic disclosure and underline the need for clinicians who are capable of both determining patient preferences and disclosing prognostic information with care and sensitivity when patients desire it. Indeed, our findings suggest that clinicians should consider sharing prognosis with disabled older patients as an important element of patient-centered care. As one participant said: “The discussion should be initiated. It is the reality” (Chinese-American man, age 89).

Our study is the first we know of to examine preferences for prognostic information in a sample of diverse older

Table 3. Participant Preferences for Clinician-Patient Communication of Prognosis

Domain	Quote
Doctors should ask each patient if he or she would like to discuss prognosis; preferences are personal	<p>“I don’t know how doctors should talk to other patients, but for me, he can tell me anything” (Chinese-American man, age 80)</p> <p>“I’m not in their shoes, right? You only know for yourself” (Chinese-American man, age 89)</p> <p>“It all depends on the individual” (African-American man, age 62)</p> <p>“I think that would depend on your having the knowledge what kind of a person that is. If that’s a person that worries or would fall apart...then I wouldn’t tell them” (Filipino woman, age 81)</p> <p>“That’s something that a doctor has to decide in his own mind...he has to know whether or not to discuss it with the patient or not. Some people can deal with that kind of knowledge and some people can’t” (African-American man, age 67)</p>
Doctors should be direct, empathic, and willing to spend time on the discussion	<p>“You have to really sit and talk to someone.... A doctor that knew me. I would believe him” (African-American woman, age 78)</p> <p>“You present a figure of authority and you have to take the stiffness away...Sometimes you have to be the doctor because you know everything about everything. But there are times when you just want to put them at ease and be a person instead of the doctor” (White woman, age 83)</p> <p>“I don’t think I would be uncomfortable with my current doctor...She’ll take the time to explain something. Brief and concise, but she’ll tell me what I need to know” (White woman, age 78)</p>
Doctors should acknowledge that prognosis is uncertain	<p>“Many times the truth has to be softened. It cannot be so abrupt because that causes harm to people” (Latino man, age 86)</p> <p>“A good doctor would say, ‘Look, I believe from all the tests and all you’ve got about a—so-and-so much to live. But then again, we don’t know. We don’t know’” (White man, age 76)</p> <p>“If it’s explained to you then that’s exactly what it is: there’s a possibility that this could happen. Knowing that...is different than saying ‘it’s an absolutely’” (White woman, age 59)</p>

adults living with late-life disability. In previous quantitative studies, Fried and Kaplowitz found that a majority of (mostly white) patients would want to discuss the amount of time they might have left to live, and similar to our study, Fried demonstrated that patients' desire to discuss prognosis increased as prognosis shortened.^{22,35} Our study extends those findings to a group of diverse older adults and adds a clinically relevant, in-depth understanding of *how* and *why* patients desire or do not desire to receive prognostic information. We found just one participant in our study who had previously discussed prognosis with their doctor, consistent with the contention that clinicians share prognosis less often than their patients would prefer.^{29,36-38} Participant perspectives in our study also supported those who have argued for clinician-initiated discussions of prognosis that are highly personalized,¹⁷ empathic,³⁰ and begin with the explicit determination of each patient's preferences for discussion.²⁹ As evidence of the deeply personal nature of patient preferences for prognostic information, we noted that many patients viewed prognosis as uncertain, yet some saw this as a reason to avoid prognostic information, while others preferred that clinicians simply acknowledge uncertainty in their prognostic discussions (final quotes, Tables 2 and 3). Our results also added evidence that a thoughtful consideration of patients' cultural backgrounds is warranted as preferences for communication may vary across racial and ethnic groups.

Specifically, our findings extend those of previous studies showing that preferences for prognostic information may be culturally influenced among Latino, African-American, and Asian-American elders. Morrison and Meier undertook a study of advance care planning across three groups (White, African-American, and Hispanic) in New York City, finding that while preferences for information across groups were similar, how and why patients preferred to discuss end of life issues differed in important respects.²¹ They, and others, have shown that Latinos' attitudes in particular may differ notably from those in other ethnic groups.^{27,28,39,40} Latinos in our study described feeling more comfortable with the idea of discussing prognosis with a clinician from their same ethnic background, and were also more likely to express considerable concern over the emotional burdens associated with knowing prognosis. Published studies similarly show that older Asian-Americans may not want to discuss a poor prognosis and that many would prefer that family members take the lead in communicating with doctors.^{41,42} Yet we found that elderly Chinese-Americans were interested in prognostic information and that many of those who showed some initial reluctance ultimately expressed willingness to discuss prognosis at the doctor's discretion. Further, Chinese-Americans in our study did not prefer that their family be told first of their prognosis, suggesting that such attitudes may be shifting over time, perhaps due to the spread of Western

values through traditional Chinese-American communities. Taken together, these findings suggest that clinicians should be aware of the diversity of perspectives both between and within cultural groups when determining patients' preferences for prognostic information.

Our primary finding, that a majority of participants across racial/ethnic groups preferred to discuss prognosis if their doctors believed they had less than 5 years to live, has broad clinical relevance as well, suggesting that clinicians should consider including prognostic estimation as a critical component of their care for older adults with late-life disability. Many participants in our study viewed a discussion of their prognosis as an *opportunity* and of knowing their estimated prognosis as a potential motivation to pursue concrete goals. Thus, prognostic estimates may serve as a meaningful framework within which older adults can prioritize among competing late-life demands: family and relationships, emotional well-being, spiritual or religious fulfillment, financial stability and legacy, medical care, long-term care enrollment, and others. Evidence from our study suggests that prognosis may help patients make medical decisions in the context of late life goal-setting and decision-making, potentially leading to more patient-centered outcomes.

It is important to consider the limitations of our study. Our sample of community-dwelling elders with late-life disability was drawn from a PACE program, which provided significant support for health care and related needs. In addition, our sample was selected based on subject availability and to ensure ethnic balance among participants. It is possible that the most readily available subjects were also healthier or had a more positive outlook than other potential interviewees. As a result, our study is not representative of larger populations of elders with late-life disability such as the large proportion of elders living in nursing homes. Moreover, because our sample was created to ensure ethnic representation above other considerations, future studies may wish to more closely examine the roles of other factors, such as gender, age, disability level, or quality of life, in determining preferences for prognosis. Indeed, this work is theory generating rather than hypothesis testing. As such, studies based on larger samples using quantitative measures comprise the next step in testing and refining our conclusions. In addition, there is evidence that information preferences for patients nearing the end of life may change as their condition deteriorates.^{15,35} However, our findings confirm that clinicians should take the time to determine patient preferences before disclosing prognostic estimates, a practice that would account for changing patient preferences. Finally, it is also possible that our participants underestimated the emotional burdens of knowing one's prognosis. Yet, many of our participants proactively described strategies they would use to cope with this information.

As prognostic disclosure in clinical practice is rare, particularly for patients without a dominant terminal condition, our findings underscore the important potential that discussing prognosis may have in improving patient-centered care in the diverse population of older adults with late-life disability. Our findings further suggest that a carefully shared prognostic estimate can empower older adults in important areas of late-life beyond immediate medical decision-making. Clinicians interested in incorporating prognosis in their care for this population should engage in direct, empathic, clinician-initiated communication. Finally, while awareness of cultural attitudes is important, clinicians cannot generalize patients' desires to discuss prognosis based on ethnicity, suggesting the importance of asking individuals about their preference.

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