REVIEW

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Advance care planning: Beyond the living will

ABSTRACT

For a variety of reasons, the most commonly used advance directive documents (eg, the living will) may not be very useful in many situations that older adults encounter. The durable power of attorney for health care is a more versatile document. We advocate focusing less on "signing away" certain interventions and more on clarifying the goals of care in the ambulatory setting.

KEY POINTS

In the ambulatory setting, start by assessing the patient's prognosis and his or her receptiveness to advance care planning.

For a patient in declining health who is willing to participate in the care planning process, it may be useful to take a full values history and to review the goals of care.

For a patient with advanced disease who is unable or unwilling to participate in advance care planning, a limited approach may be appropriate, ie, identifying a surrogate decision-maker and ascertaining how much flexibility the surrogate should have with health care decisions.

Whatever the patient's life expectancy and level of receptivity, brief, episodic discussions are more useful than a one-time description of available written advance directives.

M R. B., AN 82-YEAR-OLD retired accountant with hypertension, was diagnosed with early Alzheimer disease 6 years ago. He now needs supervision with bathing and dressing and no longer consistently recognizes family members. You are seeing him in the office today after a hospitalization for aspiration pneumonia, his second in the past 6 months.

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In the hospital, a brain scan showed that atrophy had progressed and white-matter disease was more extensive than 3 years earlier. A barium swallow study showed esophageal dysmotility and aspiration. He was prescribed a "dysphagia diet,"¹ which he dislikes.

Since returning home, he has been disoriented, he has been wandering about the house, and he has fallen several times. He has lost 10 pounds in 6 months. Because of his confusion, his wife cannot take him out, and she is exhausted caring for him.

Reviewing his medical record, you note that 10 years ago, Mr. B. completed a living will and designated his wife as his proxy decision-maker via a medical power of attorney document.

PLANNING IS OFTEN NEGLECTED

Many clinicians and older patients feel a strong need to document, in advance, the patient's wishes regarding medical care in the event the patient becomes seriously ill and unable to participate in treatment decisions. Professional societies such as the American Geriatrics Society promote advance care planning,² and some indices of the quality of medical care

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include whether advance directives have been discussed and completed.³

Yet, despite the high profile of advance care planning,⁴ few patients actually fill out advance directives,⁵ with completion rates that vary widely,^{6–8} sometimes by ethnicity and sex.^{9,10} Furthermore, in a crisis, these directives are seldom followed.11

In this paper, we recommend an approach to advance care planning for older adults that redirects the focus from "signing away" interventions such as dialysis, mechanical ventilation, and tube feeding. Instead, the focus is on the goals of care. We also advocate naming a surrogate decision-maker, since the medical power of attorney is more flexible and more widely applicable than the living will.

START BY LISTENING

A change in function resulting from disease progression, hospitalization, trauma, or other reasons is an ideal opportunity to introduce the process of advance care planning.

The first step is to find out how well the patient and family understand the patient's relevant medical conditions, and what their expectations, hopes, and concerns are. This listening phase can provide insight into the patient's values and goals and how much the patient and family want to engage in these discussions.

In matters of health behavior (such as advance care planning), people change only when they are ready to change.^{12,13} Thus, we advise physicians to defer extensive discussions of values and goals of care until patients and families are ready to listen, hear, and talk about these topics (often, after a change for the worse in prognosis).

And it is a *process*. Advance care directives are most likely to be set up and followed if the patient and doctor discuss this issue during multiple visits, rather than if the physician merely hands the patient a packet of forms and information.¹⁴⁻¹⁶

CASE CONTINUED: A PEG TUBE REFUSED

Mrs. B. says that Mr. B. is in good health except for his memory: he does not have a serious condition such as diabetes, heart failure, or cancer. While Mr. B. was in the hospital, the hospitalist recommended placing a percutaneous endoscopic gastrostomy (PEG) tube, but Mrs. B. declined the recommendation because her husband had a living will that specified "no artificially or technologically supplied nutrition or hydration."

At this point, Mrs. B. begins to cry. She has slept poorly because of his wandering. Also, her two daughters do not support her refusal of the PEG tube.

Comment. This brief conversation illuminates knowledge deficits in Mrs. B.'s understanding of Alzheimer disease and the circumstances in which the living will applies. Although one could argue that Mr. B.'s Alzheimer disease has advanced to the point that he is likely to die of a complication of that condition, he is not likely to die in the near future. If he is not considered by law and his physician to be terminally ill or permanently unconscious, a living will likely does not offer guidance about artificial feeding.

LIMITATIONS OF A LIVING WILL

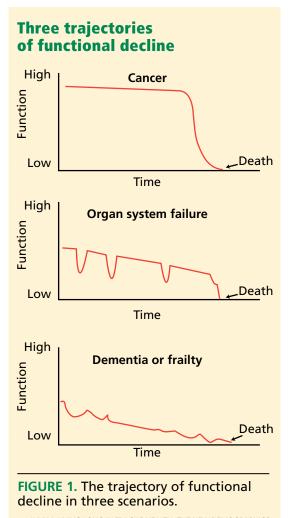
A living will, a commonly used advance directive, states that the patient does not wish to People change receive life-sustaining treatment in the event only when they that he or she suffers an incurable, irreversible disease and cannot give informed consent, and it often lists specific treatments that the **change** patient does not want. However, we believe that approaching the patient with a list of lifesustaining measures to accept or reject, before discussing goals of care and prognosis, puts the cart before the horse. This approach threatens to distract from the need to ascertain values and offer appropriate care. Additionally, a living will is active only within a very limited scenario and does not address relatively routine but important decisions in a person's care.

All 'terminal illness' isn't the same

A living will goes into effect only if the patient either enters a permanent vegetative state following an event such as cardiac arrest or severe brain trauma, or is diagnosed with a terminal illness such as metastatic cancer, and lacks decision-making capacity.

But what is terminal illness? The definition differs from state to state, but it is generally

are ready to



Older patients with 'terminal' disease often live long and may die of something else

LYNN J. LIVING LONG IN FRAGILE HEALTH: THE NEW DEMOGRAPHICS SHAPE END OF LIFE CARE. IN: JENNINGS B, KAEBNICK G, MURRAY T, EDI-TORS. IMPROVING END OF LIFE CARE: WHY HAS IT BEEN SO DIFFICULT. HASTINGS CENTER REPORT, NOVEMBER-DECEMBER 2005. HTTP://WWW.THEHASTINGSCENTER.ORG/PDF/IMPROVING_EOL_CARE_ WHY_HAS_IT_BEEN_SO_DIFFICULT.PDF. ACCESSED FEBRUARY 9, 2009.

defined as an irreversible condition leading to death in a relatively short time. The time may not be specified, as in Florida statute 765. In contrast, Ohio Revised Code 2133.01(AA) uses the phrase "relatively short," while other states specify a time, such as within 6 months (Texas Health and Safety Code 166.002). The Medicare hospice benefit also carries a short time limit, usually less than 6 months.

If an older adult goes through a rapid decline in function and dies relatively quickly (as shown in the top panel of **FIGURE 1**),¹⁷ then a living will may be helpful. However, few older adults experience this trajectory. Death from metastatic cancer may come quickly, but with advanced medical care, death is more likely to be postponed months or even years while palliative interventions are used. Elderly patients with a "terminal disease" such as advanced dementia or end-stage chronic obstructive pulmonary disease may live a very long time and die of an unrelated cause. Also, entering a permanent vegetative state after resuscitation from cardiac arrest is rare, affecting fewer than one in 10,000 adults.¹⁸

The middle panel in **FIGURE 1** depicts a more typical decline from serial organ insults such as stroke followed by infection from aspiration or followed by falls. Older adults with dementia or with multiple progressive diseases such as heart failure, diabetes, hypertension, or cancer decline in a trajectory such as in the bottom panel of **FIGURE 1**.

A living will might not be activated in the latter two scenarios until years into the condition because the patient would not be considered terminally ill—by state law, by the health care provider, or even by the patient.

The living will does not address routine interventions

In most states, living wills address only lifesustaining treatments such as dialysis, mechanical ventilation, and medically supplied nutrition and hydration. Living wills do not address relatively common diseases in older adults that could cause severe debility, such as a major stroke or advanced dementia.

If an older patient has dementia, a living will is unlikely to provide guidance about interventions such as intubation to get through an episode of potentially reversible respiratory failure, a feeding tube to correct weight loss, or cardiac catheterization or bypass surgery to treat angina. Yet these important decisions often arise as function declines and comorbidities progress.

Patients may change their minds

Many older adults are reluctant to sign documents to "micromanage" their future care if they should become ill.¹⁹ Many people change their mind as the situation changes.^{11,20,21} Although few claim they would want burdensome interventions if they had dementia²² or if their prognosis were poor,²³ patients may tolerate more burdensome interventions if they are already receiving treatments for chronic illnesses such as end-stage renal disease.²⁴

Thus, a living will may help if unexpected trauma occurs in a healthy person, but not so much if chronic illness progresses over a period of years.

Advance directives may not be honored

Even if completed, written advance directives may not be followed, for a variety of reasons. Physicians may not know the patient has a living will, and fewer than one-third of people who actually complete an advance directive have discussed its content with a physician.²⁵ The people named as surrogate decision-makers may not know the patient's wishes. Family members may disagree with the goals and plan of care and may interfere with implementation of the advance care plan. A patient may see multiple physicians at different institutions who may not communicate with each other about the patient's wishes. Also, physicians and patients may interpret terms such as "terminally ill" differently, making it difficult to translate the documents into an action plan.

CASE CONTINUED: RELIEVING CAREGIVER STRESS

Returning to Mr. B., your first goal is to address care issues, including caregiver stress. Skilled services in the home are appropriate for him at this time (and Medicare will pay for them) because he is still homebound. These services could include physical therapy, occupational therapy, and speech (swallowing) therapy. A home care agency may also provide an aide for a few weeks to assist with bathing and other personal needs.

You strongly recommend that the family (including both daughters) participate in the Alzheimer's Association educational programs. You recommend that Mrs. B. locate an adult day care program now so that when Mr. B. completes his home therapy course and is no longer homebound, he may attend. Day care would provide a therapeutic environment for him and respite for her.

You request that the home care agency provide a social worker to advise her on community resources. Meta-analysis suggests that structured, multicomponent interventions with caregivers of demented patients reduce several types of caregiver burden and delay institutionalization.²⁶

He improves with conservative measures

Three weeks later, Mr. B. is sleeping better and has stopped wandering. However, he dislikes the thickened liquids required by the dysphagia diet and has lost another 2 pounds. If his beverages are not thickened, he coughs profusely when he swallows. His daughters are still pressuring Mrs. B. for a PEG tube; one of them has angrily asserted that the doctors are going to allow her father to die.

You explain the burdens of PEG tubes: surgical risks, continued aspiration, disrupted bowel habits, the risk of the tube being accidentally or intentionally dislodged by the patient, and special binders (which may be uncomfortable) or restraints (which may cause further functional decline) that may be necessary to prevent this complication.

You request that the speech therapist work with the patient more aggressively in the use of swallowing techniques such as the chin tuck, which may be at least as effective as thickeners in preventing both aspiration pneumonia and dehydration.²⁷ The therapist will need to include Mrs. B. in these sessions, since she will be Mr. B.'s coach at mealtime.

With more aggressive speech therapy, the patient's weight stabilizes over the next 4 **followed** weeks. He is in day care 3 days a week, and Mrs. B. is more rested and relaxed.

Cardiopulmonary resuscitation

You continue the advance care planning discussion and suggest that if Mr. B. aspirates, is hospitalized again, and declines further care, it would be helpful to delineate instructions for resuscitation. Right now, although his Alzheimer disease is advanced, he is not clearly terminal. Thus, his living will does not strictly apply and provides limited guidance about intubation, cardiopulmonary resuscitation (CPR), or medically supplied nutrition and hydration. However, because Mrs. B. is his agent in the medical power of attorney, this document enables her to make a wide spectrum of treatment decisions on his behalf.

Mrs. B. asks about her husband's prognosis and why CPR would not be helpful.

Advance directives are often not followed

TABLE 1

When would life be acceptable—or not?

CHECK THE BOX THAT BEST DESCRIBES HOW YOU WOULD FEEL IF YOU WERE:	LIFE LIKE THIS WOULD BE:			
	DIFFICULT BUT ACCEPTABLE	WORTH LIVING, BUT JUST BARELY ^a	NOT WORTH LIVING ^ь	DON'T KNOW
Unable to walk but able to propel a wheelchairn				
Unable to leave home				
In pain most of time				
Uncomfortable most of time (nausea, diarrhea, shortness of breath)				
Depressed or "blue" most of the time				
Fed through a feeding tube				
Needing a breathing machine for each breath, which prevented speech				
Required to have someone around 24 hours daily to care for you				
Unable to control your bladder				
Unable to control your bowels				
Required to live in a nursing home				
Confused and thinking unclearly much of the time				
Unable to recognize family or friends				
Unable to talk and be understood by others				
In a condition that caused your family to feel worried or stressed				
In a condition that caused a severe financial burden on your family				
Other:				

alf you checked more than one factor, would a combination of these factors make your life "not worth living?" If so, which factors?

^bDoes this mean that you would rather die than be kept alive?

'What information or people do you need to help you decide?

ADAPTED FROM YOUR LIFE, YOUR CHOICES, WWW1.VA.GOV/PUGETSOUND/DOCS/YLYC.PDF.

Comment. Further discussion with her could be guided by an estimate of Mr. B.'s prognosis. Function-based tools^{28,29} may also be useful. For example,^{28,30} an 80-year-old man with high functional status might have a life expectancy of more than 10 years. Mr. B., with multiple medical problems and declining function, would have an estimated life expec-

tancy of approximately 3 years. Even without specifically categorizing function, impaired cognition by itself predicted a shorter life expectancy in population-based studies.^{31,32}

Regarding CPR, patients and families may overestimate successful outcomes. A recent study³³ of 10 years of outcomes of in-hospital cardiac arrest found that only 6.6% of patients survived to discharge. The average age of the survivors was 59 years, and fewer than half of them survived 3 years after cardiac arrest. In eight studies of CPR outcomes in nursing homes,³⁴ three studies had no survivors, and all but one study had a survival rate below 5%.

You encourage Mrs. B. to communicate further with her daughters to discuss resuscitation status and invite her daughters to accompany her to the next appointment. The family could review excerpts of *Your Life*, *Your Choices* (TA-BLE 1)³⁵ or *Let Me Decide* (TABLE 2)³⁶ to see how they think Mr. B. would have answered the questions in these documents, had they been discussed directly with him earlier. The family could also consider, now or in the future, filling out Physician Orders for Life-Sustaining Treatment. This is a form that translates general preferences, including those in the living will, into a set of physician orders.³⁷

PROVIDING APPROPRIATE CARE, NOT LIMITING TREATMENTS

In the case of Mr. B., as in many situations encountered with older patients, written advance directives provide little help or guidance. Instead, we recommend a model of advance care planning that takes place during multiple office visits over time, and that maintains a focus on providing appropriate care rather than on limiting life-sustaining treatments. We recommend providing estimates of prognosis and CPR outcomes when the family appeares ready to hear them. This approach should result in a care-oriented process while moving the family towards decisions regarding artificial feeding and CPR.

In **FIGURES 2-4**, we summarize this approach to advance care planning in three flowcharts.

All patients, particularly those unwilling or unable to participate in advance care planning, are encouraged to identify one or more surrogate decision-makers and articulate how

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much flexibility that person should be given in important health care decisions. The medical power of attorney can be activated any time the patient lacks decision-making capacity and deactivated when decision-making capacity returns.^{38,39}

As in the case of Mr. B., a tailored approach to advance care planning requires clinicians to estimate life expectancy (more than 5 years, less than 5 years, or less than 1 year) and to determine the patient's and the family's readiness to focus on a values-oriented and goal-oriented care plan. Some patients are not receptive to advance care planning, and clinical time and effort are optimized by providing the right amount of information to patients when they are ready to receive it.

For relatively healthy older adults

FIGURE 2 is the algorithm for older patients who are expected to live at least 5 years, ie, who are relatively healthy and functional. Patients with little or no interest in advance care planning can be asked about it annually, or sooner if their medical condition changes. Patients with limited interest can be given written information, specifically living will and medical power of attorney documents recognized in their state. Patients more open to advance care planning can be offered a values history form (TABLE 1), Web sites, and educational materials, with a plan to discuss them at future appointments.

Periodic reevaluation of values and goals of care is important. Patients may assert that particular interventions (eg, a PEG tube or dialysis) are "worse than death" when they are healthy, but they may change their views over time.²¹ Additionally, although a recent hospitalization or a decline in function may predispose patients to want to limit life-sustaining treatments, they may return to their earlier values and wishes a few months later, particularly if their medical condition stabilizes.²⁰ Values and decisions should be reassessed not only when medical conditions deteriorate, but also when they improve.

For chronically ill patients

FIGURE 3 is the algorithm for patients who are expected to live less than 5 years, owing to chronic diseases. The starting point is to as-

TABLE 2

Web sites for patient educational materials for advance care planning

FOR ANY PATIENT IN ANY SETTING

Your Life, Your Choices

www1.va.gov/pugetsound/docs/ylyc.pdf Detailed, readable description of health care options in medical conditions common to older adults (dementia, coma, stroke, terminal illness). Although developed by the Veteran's Administration, it is not limited to that setting.

Five Wishes

www.agingwithdignity.org/5wishes.html This five-wishes document was developed with the support of the Robert Wood Johnson Foundation. It guides a patient through his or her medical, personal, emotional, and spiritual needs. A videotape and compact disc can also be ordered.

Let Me Decide

www.stpetes.ca/newgrangepress.

Booklets and videos in several languages used in Canadian studies on implementation of advance directives incorporating a range of health care choices for life-threatening illness, cardiac arrest, and nutrition.

FOR SERIOUSLY ILL PATIENTS WITH SHARPLY DIMINISHED LIFE EXPECTANCY

Physician Orders for Life-Sustaining Treatment www.ohsu.edu/polst

A physician order sheet for those states that participate in this program. The physician order sheet translates goals and preferences into medical orders regarding resuscitation and other life-sustaining treatments. The resulting document does not replace the medical power of attorney form or the living will.

Project GRACE

www.projectgrace.org

Project GRACE (Guidelines for Resuscitation and Care at End-of-Life) addresses medical interventions that one would want or not want, not only if one were in a permanent unconscious state, but also in conditions such as end-stage disease, permanent confusion, and total dependence. The document conforms specifically to Florida law but could be appropriate as a personal document for patients in other states. It would not replace a do-not-resuscitate order form in most states but can be an adjunct.

certain the patient's understanding of his or her condition, as well as expectations and concerns. The discussion of prognosis needs to be honest and balanced, offering both a current treatment plan that "hopes for the best" and alternatives that "plan for the rest" if the condition should decline despite treat-

Advance care planning for relatively healthy patients

Patient interest in and receptivity to advance care planning (living will, medical power of attorney, values history, discussions of prognosis and treatment burden)

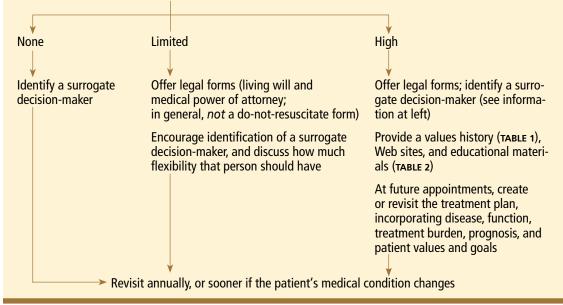


FIGURE 2. Algorithm for patients with a life expectancy greater than 5 years, or no comorbidities causing progressive functional limitation.

Many patients and families overestimate the chances of surviving CPR ment. Alternate plans for older adults with advanced disease should emphasize function and quality of life and may include referral to community resources.

Caregiver stress is important to identify and address, since caregivers often neglect themselves.⁴⁰⁻⁴²

For terminally ill patients

FIGURE 4 depicts the approach for seriously ill patients with very limited life expectancy, ie, less than 1 year).³⁷ These patients may be very functionally limited, with a variety of physical and psychosocial difficulties and a limited social network.

In this situation, patients and families need information about community resources that can assist them in the home. Some older adults with cognitive impairment may be exploited or neglect themselves, and referral to an adult protective services agency may be needed.

Treatment burden, particularly due to multiple prescribed medications, may be high and should be reassessed in light of the goals of treatment. Polypharmacy reduction is especially important at this stage in the illness, since the goals of care may be different than when the medications were prescribed.

Physical or psychosocial symptoms may be the cue to bring up the topic of palliative care. If the patient is expected to live less than 6 months, hospice referral is appropriate. With either palliative care or hospice, the focus of attention shifts explicitly from curing the disease to managing symptoms, and from the patient to the patient-family dyad. Interventions such as CPR and ventilatory support should be discussed and information from TA-BLE 2 provided to the patient and family.

Complete advance care planning incorporates taking a values history, estimating life expectancy, determining physical, psychosocial and spiritual needs, clarifying treatment goals, and estimating manageable treatment burden. Offering statistics on CPR and providing state-specific living will and medical power of attorney documents are important but are only one facet of effective advance care planning. In fact, shifting the emphasis of advance care planning from statistics and forms to values and goals of care may help in developing a more comprehensive care plan.

Advance care planning for patients expected to live less than 5 years

Acquire information

Determine patient understanding of disease and prognosis; assess concerns, goals, fears, and level of desire for more information

Identify social support network and potential surrogate decision-makers

Care planning

HOPE FOR THE BEST: Outline treatment plan in accordance with goals and with a manageable treatment burden

PLAN FOR THE REST: Suggest alternate plan and goals if the treatment burden is too great, if complications arise, or if the response is inadequate

For patients with a life expectancy < 1 year, see FIGURE 4

Receptivity to advance care planning (living will, medical power of attorney, values history, discussions of prognosis and treatment burden)

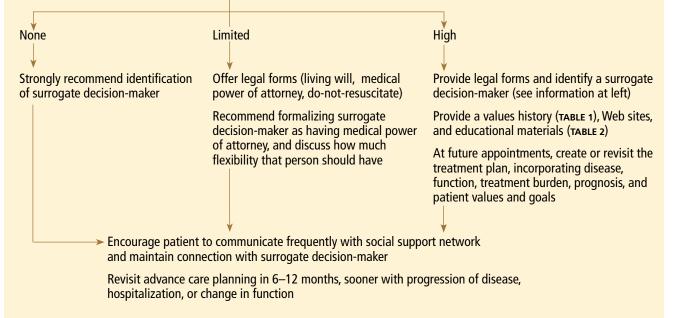


FIGURE 3. Algorithm for patients with a life expectancy of less than 5 years, or a new diagnosis, evidence of progression of disease, or a change in condition (decreased function or hospitalization).

Goals of care range from curing the disease (with aggressive therapy, which may be burdensome) to simply improving function or decreasing pain. In the latter case, one may be able to discontinue some of the patient's drugs, utilize medical and community resources more effectively, and better meet the patient's needs.

Woven through all these discussions should be reassurance that the plan can be revisited and possibly revised, and that the physician will be there to help with those decisions.

For acutely ill patients in the hospital

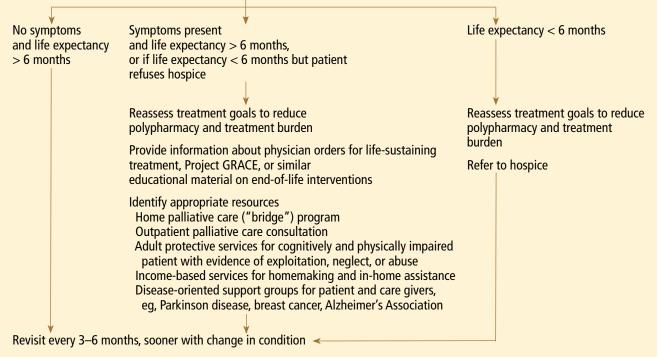
Episodic, staged advance care planning is appropriate not only in the office but also in other settings such as assisted living and nursing facilities.

In the hospital, however, a different approach is needed, since patients are usually admitted because of an acute illness or sudden functional decline, or both. Decisions about technological interventions such as CPR, mechanical ventilation, or dialysis may be needed urgently. Often, patients are unable to provide

Advance care planning for patients expected to live less than 1 year

Assess for physical symptoms, psychosocial problems, polypharmacy burden, or spiritual needs (pain, dyspnea, depression, confusion), rapid functional decline, inadequate social network

Strongly recommend identification of a surrogate decision-maker for future needs



Return to algorithm for those with life expectancy < 5 years (FIGURE 3) if condition stabilizes after 1 year

FIGURE 4. Algorithm for patients with a life expectancy of less than 1 year, based on progression of one life-threatening disease, or progressive limitation in function and life expectancy by multiple comorbidities.

guidance to physicians during acute illness because of delirium and other impediments. Developing a plan for care in the hospital may require urgent family meetings. However, if a surrogate decision-maker is in place, and if the patient has already participated in some form of advance care planning as an outpatient, the values and goals of care previously identified can contribute to decision-making during hospitalization.

As mentioned above, fragmentation of health care across providers and health care systems may limit the effectiveness of officebased advance care planning. It may be reasonable to train office staff to place advance care planning documentation in easily accessible sections of the patient's medical record and to forward these to specialists involved in a patient's care. The patient and family should be encouraged and empowered to help with this process and should have updated advance care planning documentation readily available. In some states, comprehensive medical order sets, especially for end-of-life care, are portable across care settings and address CPR, medically supplied nutrition, hospital transfer, and antibiotic treatment.⁴³

Research suggests that health care systems are more likely to comply with patients' end-of-life preferences when portable medical order forms are developed and disseminated.⁴⁴⁻⁴⁴ Ultimately, major changes in health care delivery, including universal electronic health records, may be needed to implement and communicate patients' advance care planning preferences across settings.

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