

Original Investigation

Health Care Professionals' Responses to Religious or Spiritual Statements by Surrogate Decision Makers During Goals-of-Care Discussions

Natalie C. Ernecoff, MPH; Farr A. Curlin, MD; Praewpannarai Buddadhumaruk, RN, MS; Douglas B. White, MD, MAS

IMPORTANCE Although many patients and their families view religion or spirituality as an important consideration near the end of life, little is known about the extent to which religious or spiritual considerations arise during goals-of-care conversations in the intensive care unit.

OBJECTIVES To determine how frequently surrogate decision makers and health care professionals discuss religious or spiritual considerations during family meetings in the intensive care unit and to characterize how health care professionals respond to such statements by surrogates.

DESIGN, SETTING, AND PARTICIPANTS A multicenter prospective cohort study was conducted between October 8, 2009, and October 24, 2012, regarding 249 goals-of-care conversations between 651 surrogate decision makers and 441 health care professionals in 13 intensive care units across the United States. Audio-recorded conversations between surrogate decision makers and health care professionals were analyzed, transcribed, and qualitatively coded. Data analysis took place from March 10, 2012, through May 24, 2014.

EXPOSURES Goals-of-care conferences.

MAIN OUTCOMES AND MEASURES Constant comparative methods to develop a framework for coding religious and spiritual statements were applied to the transcripts. Participants completed demographic questionnaires that included religious affiliation and religiosity.

RESULTS Of 457 surrogate decision makers, 355 (77.6%) endorsed religion or spirituality as fairly or very important in their life. Discussion of religious or spiritual considerations occurred in 40 of 249 conferences (16.1%). Surrogates were the first to raise religious or spiritual considerations in most cases (26 of 40). Surrogates' statements (n = 59) fell into the following 5 main categories: references to their religious or spiritual beliefs, including miracles (n = 34); religious practices (n = 19); religious community (n = 8); the notion that the physician is God's instrument to promote healing (n = 4); and the interpretation that the end of life is a new beginning for their loved one (n = 4). Some statements fell into more than 1 category. In response to surrogates' religious or spiritual statements, health care professionals redirected the conversation to medical considerations (n = 15), offered to involve hospital spiritual care providers or the patient's own religious or spiritual community (n = 14), expressed empathy (n = 13), acknowledged surrogates' statements (n = 11), or explained their own religious or spiritual beliefs (n = 3). In only 8 conferences did health care professionals attempt to further understand surrogates' beliefs, for example, by asking questions about the patient's religion.

CONCLUSIONS AND RELEVANCE Among a cohort of surrogate decision makers with a relatively high degree of religiosity, discussion of religious or spiritual considerations occurred in fewer than 20% of goals-of-care conferences in intensive care units, and health care professionals rarely explored the patient's or family's religious or spiritual ideas.

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Author Affiliations: Clinical Research, Investigation, and Systems Modeling of Acute Illness (CRISMA) Center, Department of Critical Care Medicine, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania (Ernecoff, Buddadhumaruk, White); The Trent Center for Bioethics, Humanities, and History of Medicine, Duke University, Durham, North Carolina (Curlin); The Duke Divinity School, Duke University, Durham, North Carolina (Curlin).

Corresponding Author: Douglas B. White, MD, MAS, Clinical Research, Investigation, and Systems Modeling of Acute Illness (CRISMA) Center, Department of Critical Care Medicine, University of Pittsburgh School of Medicine, 3550 Terrace St, Scaife Hall, Room 608, Pittsburgh, PA 15261 (whitedb@upmc.edu).

Religion and spirituality shape surrogates' and health care professionals' ideas about sickness, health, and the end of life.^{1,2} Many patients and family members wish to speak with their health care professionals about religious and spiritual concerns, particularly when patients get sicker and as they approach the end of life.³ Patients who discuss such concerns with their health care professionals report more satisfaction with their clinical care.⁴⁻⁷ For some, such discussions foster appropriate levels of hope and help guide medical decisions.⁸ Evidence suggests that these patterns are found in the intensive care unit (ICU),⁹ where attention to spiritual concerns may affect clinical decisions and outcomes for both patients and surrogates.^{10,11}

Experts recommend that health care professionals attend to the spiritual concerns of patients and their family members^{9,12,13} by using open-ended questions, asking patients to say more, providing empathy,¹⁴ and involving spiritual care appropriately.¹⁵ However, little is known about the extent to which the health care professionals of critically ill patients follow such recommendations. Understanding how frequently discussions of spiritual concerns take place—and what characterizes them—is a first step toward clarity regarding best practices of responding to spiritual concerns in advanced illness.

We therefore analyzed audio-recorded goals-of-care conversations from a multicenter observational study of family meetings in 13 diverse ICUs across the United States to determine the frequency and characteristics of religious or spiritual statements by health care professionals and surrogate decision makers.

Methods

Study Design

We conducted a prospective cohort study in 6 US medical centers from October 8, 2009, through October 24, 2012, in which we audio-recorded, transcribed, and qualitatively coded physician-family conversations. The primary purpose of the project was to examine how health care professionals discuss prognostic information with surrogates during family conferences in the ICU. This study examines how religious or spiritual considerations manifested during such conversations.

Study Population and Enrollment

We conducted study activities in medical and medical-surgical ICUs at the University of Pittsburgh Medical Center; University of California, San Francisco, Medical Center; University of California, Fresno, Medical Center; Baystate Medical Center; Harborview Medical Center; and University of North Carolina-Chapel Hill Medical Center. The institutional review board at each site approved the study procedures. The research staff obtained written informed consent from all enrolled surrogates and health care professionals; surrogates provided proxy consent for patients. For study participation, surrogates were paid \$20 and health care professionals were paid \$10.

We recruited the surrogate decision makers of patients who met the following inclusion criteria: (1) age older than 18 years,

(2) lack of decision-making capacity, (3) respiratory failure requiring mechanical ventilation, (4) acute lung injury diagnosed by conventional criteria,¹⁶ and (5) either a score of 25 or higher on the Acute Physiology and Chronic Health Evaluation II or more than a 50% chance of long-term severe functional impairment (as judged by the patient's attending physician). Exclusion criteria were (1) lack of an English-speaking surrogate decision maker who was older than 18 years and able to complete a written questionnaire and (2) being on a waiting list for organ transplantation. eTable 1 in the Supplement highlights the differences between individuals who were enrolled and those who were not.

Data Collection

Surrogates provided basic demographic information, including their religion or spirituality and degree of religiosity, for themselves and the patients via paper questionnaires. Demographic information was also obtained from the health care professional who conducted the family meeting. Clinical details were prospectively collected from the patient's medical records.

After obtaining permission from all participants, research staff audio-recorded the meetings and the recordings were transcribed verbatim.

Statistical Analysis

To characterize the content of surrogates' and health care professionals' religious statements, we used constant comparative methods of qualitative description,¹⁷ an approach that is well suited for in-depth detailed analysis of data when conceptual frameworks in the field are not fully formed.¹⁸

Two coders (N.C.E. and 1 other person) reviewed all 249 transcripts of goals-of-care conferences and identified all religious or spiritual concepts and terms that were voiced by surrogates. To ensure comprehensiveness, we then searched for statements using a list of religious and spiritual terms (eTable 2 in the Supplement). Statements were excluded from analysis if they contained only colloquial use of a word with alternative religious or spiritual connotations (eg, "Thank God").

To develop the coding scheme, we used qualitative description to characterize the content of surrogates' and health care professionals' religious and spiritual statements. We then supplemented our inductive framework with a review of publications to identify the types of religious and spiritual topics that were previously reported by patients as well as those that were proposed as part of best practices for health care professionals in discussing religious and spiritual considerations.^{1,3,9,12,13,19-23}

Through a series of investigator meetings, we developed consensus on the coding framework (N.C.E., F.A.C., and D.B.W.), which we then modified iteratively when interviews yielded new themes or ideas. Using the final coding framework, one investigator coded all transcripts of family meetings in the ICU that contained at least 1 religious or spiritual statement, as identified in the initial round of coding (N.C.E.). To assess interrater reliability, another individual trained on the coding framework independently coded statements from 10% of the conferences (N.C.E. and 1 other person). Coders were unaware of the demographic characteristics of the conference participants and of the other coders' results. Overall, the coders had excellent interrater reliability as evidenced by an

Table 1. Characteristics of All Patients, Surrogates, and Health Care Professionals in Audio-Recorded Conferences

Characteristic	Patient ^a		P Value ^b	Surrogate ^a		P Value ^b	Physician ^a		P Value ^b
	Religious Conference (n = 40)	Nonreligious Conference (n = 209)		Religious Conference (n = 82)	Nonreligious Conference (n = 375)		Religious Conference (n = 35)	Nonreligious Conference (n = 110)	
Age, mean (SD), y	61.9 (15.8)	57.3 (16.7)	.11	50.8 (13.3)	49.2 (14.1)	.35	38.4 (8.0)	38.8 (10.6)	.85
Female sex	15 (37.5)	98 (46.9)	.30	61 (74.4)	238 (63.5)	.07	14 (40.0)	30 (27.3)	.21
Race									
White	30 (75.0)	171 (81.8)	.10	61 (74.4)	294 (78.4)	.06	28 (80.0)	78 (70.9)	.73
African American	3 (7.5)	27 (12.9)		8 (9.8)	41 (10.9)		2 (5.7)	3 (2.7)	
Asian	4 (10.0)	5 (2.4)		7 (8.5)	8 (2.1)		5 (14.3)	21 (19.1)	
Other	1 (2.5)	4 (1.9)		3 (3.7)	17 (4.5)		0	2 (1.8)	
Hispanic	3 (7.5)	18 (8.6)		>.99	9 (11.0)		33 (8.8)	.53	
Religious preference									
Buddhism				0	2 (0.5)		1 (2.9)	1 (0.9)	
Catholicism				26 (31.7)	93 (24.8)		8 (22.9)	22 (20.0)	
Hinduism				2 (2.4)	0		1 (2.9)	4 (3.6)	
Islam				1 (1.2)	1 (0.3)		1 (2.9)	2 (1.8)	
Judaism				0	1 (0.3)		4 (11.4)	8 (7.3)	
None/agnostic/atheist				9 (11.0)	53 (14.1)	.045 ^c	9 (25.7)	42 (38.2)	.84
No response/no data available				4 (4.9)	39 (10.4)		1 (2.9)	5 (4.5)	
Other Christian				0	3 (0.8)		1 (2.9)	4 (3.6)	
Other/spiritualist				3 (3.7)	3 (0.8)		0	2 (1.8)	
Protestant				37 (45.1)	179 (47.7)		9 (25.7)	20 (18.2)	
Sikh				0	1 (0.3)		0	0	
Importance of religion									
Not at all important				6 (7.3)	28 (7.5)	.17	4 (11.4)	29 (26.4)	.10
Not too important				11 (13.4)	55 (14.7)		9 (25.7)	33 (30.0)	
Fairly important				18 (22.0)	123 (32.8)		12 (34.3)	32 (29.1)	
Very important				47 (57.3)	167 (44.5)		10 (28.6)	15 (13.6)	
Relationship to patient									
Spouse				16 (19.5)	83 (22.1)	.94			
Child				29 (35.4)	134 (35.7)				
Parent				11 (13.4)	47 (12.5)				
Sibling				11 (13.4)	54 (14.4)				
Other				15 (18.3)	56 (14.9)				
Attending physician (vs fellow/resident)									
Full code status at enrollment	34 (85.0)	187 (89.5)	.42				22 (62.9)	52 (47.3)	
In-hospital mortality	27 (67.5)	82 (39.2)	.002 ^b						.12

^a Data are presented as the number (percentage) of patients unless otherwise indicated. Percentages may not add to 100 owing to rounding. Empty cells signify that not all variables were applicable or collected for all types of participants. Six surrogates did not complete the baseline questionnaire; 1 physician did not complete the baseline questionnaire.

^b The Fisher exact test was used for categorical variables and the 2-sample unpaired t test was used for continuous variables.

^c There was a difference in the character distribution between those who had religious conferences and those who had nonreligious conferences.

overall κ of 0.83. We used ATLAS.ti software (Scientific Software Development GmbH) for qualitative data management.

Results

Participants

We identified 405 eligible patients during the study period, of whom 275 had surrogates who consented to participate (enrollment rate, 67.9%); 109 patients were not enrolled be-

cause their surrogate declined to participate; 21 patients were not enrolled because their attending physician declined. Enrolled and unenrolled patients did not differ in age, sex, or race. A total of 546 surrogates and 150 health care professionals participated in the study. The characteristics of enrolled patients, surrogates, and health care professionals are summarized in Table 1. Surrogates were significantly more likely to be Christian compared with health care professionals (74.0% vs 44.1%; $P < .001$). Roughly one-third (35.2%) of health care professionals were atheist, agnostic, or had no affiliation.

Table 2. Framework of Religious and Spiritual Statements Initiated by Surrogates During Family Meetings, With Examples^a

Theme	Statements	Value (N = 40)
Surrogate religious statements, No.		59
Religious statement by family		33 (82.5)
Surrogate initiation of religious conversation		21 (52.5)
Religious/spiritual beliefs		34 (85.0)
God is ultimately responsible for physical and spiritual health (miracles and faith healing)	"Do everything that's possible to keep him alive. And if it doesn't work, that's because God's asking for him."	15 (37.5)
Hope for miracles rather than accepting death	"Let's just be clear. It's a miracle that we're looking for. For him to come out of this. It's a miracle."	4 (10.0)
Power of spiritual beliefs and practices to promote healing	"All I can do is pray for her to continue to get better and maybe one o' these days, she can walk outta here." "I'm very, very optimistic because I know our faith is strong."	2 (5.0)
Religious/spiritual practices		19 (47.5)
Prayer	"Just pray that's all, she gets better. That's the best you can do."	10 (25.0)
Performing religious/spiritual rituals	"Yeah, he's had the last rites."	4 (10.0)
Reading or watching religious/spiritual material	"And I read scriptures to him."	2 (5.0)
Religious/spiritual community		8 (20.0)
Want religious community to care for patient	Physician: "If you need any clergy, we can always have them come by. Whatever you need, okay?" Surrogate: "Our pastor's gonna come tomorrow."	5 (12.5)
Want health care team to support and address spiritual needs; visit by hospital chaplain	Nurse: "We have people here in the hospital. Sometimes people would desire prayer at the bedside...if there's anything like that that would be meaningful to you guys and to her, we'd most certainly want to be able to do that for you." Surrogate: "She would probably like that."	2 (5.0)
Have someone to pray with	"[My friend] said, 'Oh [first name], what can we do for you?' And I said, 'You know, what I need from you? Prayers. More than anything else, I need your prayers. So, right now, what I need from you is to gather the people and bring them in and I don't care where you do it, but I need everybody on their knees.'"	1 (2.5)
Physician is God's instrument to promote healing (God acts through health care professionals to cure illness)	"And I have great faith that the Lord is in command and He's giving you all the skills that you need and the education that you're given and He will prompt all that and work through that. So, that's where I am."	4 (10.0)
Reinterpretation that the end of life is a new beginning for their loved one	"It has really, really been hard to process the fact. Not that I think that he's any better than anybody else, because sickness can come to anybody. And as my pastor can say, in many of his sermons, 'It rains on the just as well as the unjust.'"	3 (7.5)

^a Statements could fall into more than 1 theme. Data are given as number (percentage), except where noted.

Audio-Recording and Family Meetings

Of the 275 patients who were enrolled in the study, 259 had physician-family meetings and 249 (96.1%) of these meetings were audio-recorded (mean [SD] duration of recordings, 24.0 [13.8] minutes). The number of health care professionals present in the meetings ranged from 0 to 9 (mean, 1.8). Thirty family meetings had a social worker present; only 2 had a spiritual-care provider present. The mean number of family members (combination of enrolled and not enrolled) per conference was 2.6.

Prevalence of Religious or Spiritual Statements

Religious or spiritual considerations were raised in 40 of 249 (16.1%) family meetings. Surrogates were the first to voice a religious or spiritual concept in 26 meetings (10.4%); health care professionals were the first in 14 meetings (5.6%). Surrogates' religious or spiritual statements arose in diverse contexts, including discussions of prognosis, discussions of the medical situation, when the physician assessed their impressions of the medical situation, when health care professionals inquired about patient values, in response to health care

professionals' expressions of empathy, and in response to health care professionals voicing religious or spiritual ideas.

Content of Surrogates' Religious or Spiritual Statements

In the 40 conferences in which religious or spiritual concepts were voiced, surrogates made 59 statements with religious or spiritual content. The content centered on the following 5 broad themes: their religious or spiritual beliefs (n = 34), practices (n = 19), or community (n = 8); their belief that the physician is God's instrument to promote healing (n = 4); and their reinterpretation of the end of life as a new beginning for their loved one (n = 4). Some statements contained more than 1 theme. Table 2 shows examples of surrogates' use of each of the themes.

The most common theme in surrogates' religious or spiritual statements was the belief that God is ultimately responsible for physical and spiritual health (15 of 40 meetings), including statements about miracles. One surrogate said, "Let's just be clear. It's a miracle that we're looking for, for him to come out of this. It's a miracle."

Some surrogates expressed the need to participate in religious practices such as engaging in ritual (eg, administering

last rites), reading or watching religious or spiritual material (eg, reading the Bible), and praying (10 of 40 meetings). One surrogate stated about prayer, “Just pray that’s all. That’s the best you can do.”

With respect to religious or spiritual community members, surrogates spoke of wanting to involve them in caring for the patient. This included having members of the community visit the patient (5 of 40 meetings). One surrogate noted, “Mother and Daddy’s minister has been here several times already. And they have a very supportive church family. So, we are very appreciative of that.”

Some surrogates indicated their belief that God acts through the physician to cure illness or that the physician is God’s instrument to promote healing (4 of 40 meetings). One stated, “But I know my God’s a big God. And I know He can even guide your hands to do the right thing.”

Surrogates also used religious language to reinterpret the end of life as a new beginning for their loved one. One surrogate said of her mother, “She’s becoming an angel.”

How Health Care Professionals Responded to Surrogates’ Religious or Spiritual Statements

Four themes arose most frequently in health care professionals’ responses to religious or spiritual statements by surrogates. Health care professionals most commonly responded to surrogates’ religious or spiritual statements by speaking about the medical plan for treatment or goals of care, including terminal-event planning and implications for care (15 of 40 meetings). For example, in response to a surrogate who expressed that she was praying for the patient not to require a tracheostomy, one physician stated, “The long-term question is how to prevent the pancreatitis from happening again. It’s not a question for now, but it’s gonna be a question pretty soon, I think.”

In some instances, health care professionals responded with empathic statements (13 of 40 meetings). In response to one surrogate’s statement, “Prayer’s not gonna work,” the physician responded, “Hang in there. I know it’s hard. I know.” As in this example, physician responses rarely directly addressed surrogates’ spiritual or religious language.

The third most common response by health care professionals was acknowledging surrogates’ religious or spiritual statements with closed-ended responses, such as, “Mhmm,” or, “Okay” (11 of 40 meetings).

Few health care professionals responded to religious statements by emphasizing their commitment to high-quality medical treatment, reassuring surrogates regarding their own dedication to the patient with a statement containing more emotional support (4 of 40 meetings). After one surrogate said, “I know my God’s a big God. And I know He can even guide your guys’ hands to do the right thing,” a physician responded, “We’ll do the best with what we’ve got.”

Other themes arose less frequently. In response to surrogates’ religious or spiritual statements, health care professionals in 2 conferences made efforts to explore the patient’s or surrogate’s personal spirituality. In response to one surrogate’s request to continue medical treatment until God asks for the patient, a physician noted, “Okay, so he has some religious beliefs.” In response to another surrogate’s statement that God

is the most powerful entity, a physician voiced his own religious beliefs by saying, “I agree. He is more powerful.”

In response to surrogates’ statements about hoping for a miracle (4 conferences), health care professionals either changed the subject ($n = 3$) or expressed empathy ($n = 2$; in 1 conference the physician did both). Likewise, in response to surrogates’ statements that the physician is God’s instrument to promote healing or that God acts through health care professionals to cure illness (4 conferences), health care professionals offered a closed-ended response ($n = 3$) or reassured the family ($n = 1$).

Table 3 shows the themes and examples of health care professionals’ responses to surrogates’ religious or spiritual statements.

Content of Health Care Professionals’ Religious or Spiritual Statements

Table 4 shows the themes and examples of health care professionals’ statements initiating conversation about religious or spiritual concerns.

The most common ways in which health care professionals initiated conversations about religious or spiritual concerns was by acknowledging sources of religious or spiritual support, such as offering the hospital chaplain or social worker (13 of 40 meetings), for example, “Would you like me to call our hospital chaplain?”

Some health care professionals initiated conversations about religious or spiritual concerns by asking about the patient’s or surrogate’s religion or spirituality (6 of 40 meetings). This included questions about the importance of religion to the patient or surrogate. One physician asked, “Are there any things, in particular, that are really important now? Does he have religious beliefs?”

Physicians occasionally spontaneously voiced their own religious or spiritual beliefs to surrogates (3 of 40 meetings). One physician stated, “I do believe in miracles.”

Discussion

Among a cohort of surrogates with a relatively high degree of religiosity, discussion of religious or spiritual considerations occurred in fewer than 20% of goals-of-care conferences and health care professionals rarely attempted to explore the patient’s or family’s religious or spiritual ideas.

Although we are aware of no other studies that have addressed this topic in the context of surrogate decision making, several studies of physician-patient encounters have found similarly low rates of discussion of religious and spiritual considerations.^{5,24,25} For example, Phelps et al²⁴ found that three-fourths of oncology patients at the end of life thought spiritual care would have a positive effect on their care and only one-fourth had actually received spiritual care.

There are several potential explanations for the low rates of discussion of religious or spiritual considerations. Health care professionals may avoid these topics because they feel unprepared to engage patients and surrogates.²⁶ Ellis et al²⁷ and Ford et al²⁸ found that a central barrier to discussing such con-

Table 3. Framework of Health Care Professionals' Responses to Surrogates' Religious Statements During Family Meetings, With Examples

Physician Responses to Surrogates' Religious Statements	Statement	No. (%) (N = 40)
Identify common goals of care or implications for medical care	"So, she's very sick. We also got that sense that she was really scared, yesterday." "So, we're gonna give you an update today." "I'm his doc next week, too. We'll meet again. You guys talk. I think, when you talk, think about trach. Just remember, he said he didn't want one. I have a tough time havin' a surgeon do something like that, when someone's been clear in expressing that. We usually avoid doing that to people."	15 (37.5)
Provide empathy	"And we're all here for you guys. And you know, we want to support you in whatever ways that we can."	13 (32.5)
Acknowledge with closed-ended response	"Mhmm." "Okay." "Yeah." [deep breath]	11 (27.5)
Provide reassurance	"We'll keep doin' everything we can."	4 (10.0)
Elicit or confirm surrogate's or patient's personal spirituality	"Okay, so he has some religious beliefs."	2 (5.0)
Provide physician spiritual/religious beliefs to surrogate	Surrogate: "Like God is more powerful to me than anything and anyone." Physician: "I agree. He is more powerful."	1 (2.5)
Mobilize sources of support for patient/surrogate (hospital-based spiritual care or social work, personal religious community)	"Let me contact [social work] and see if they can try to meet with you."	1 (2.5)
Ensure integration with a spiritual community	Surrogate: "So, we're trying to get a hold o' him..." Physician: "Oh, the bishop? We'll get him on the phone."	1 (2.5)

Abbreviation: trach, tracheostomy.

Table 4. Framework of Religious and Spiritual Statements Initiated by Health Care Professionals During Family Meetings, With Examples

Physician Initiation of Religious Concerns		No. (%) (N = 40)
Physician makes first religious statement of conversation		19 (47.5)
Asks open-ended questions		
Mobilizes sources of support for patient/surrogate (hospital-based spiritual care or social work, personal religious community)	"Guys, would you want anybody from pastoral care to come up and see her?"	13 (32.5)
Asks surrogate about personal spirituality	"Is faith, spirituality, religion, is that a big part of his life?"	6 (15.0)
Integration with a spiritual community	"I would say that anybody who loves him and wants to be with him, come. If you have any religious personalities, priests or pastors or anyone that you feel needs to come, I would invite them."	1 (2.5)
Provides physician spiritual/religious beliefs to surrogate	"I'll come by. You know I will. I'll be watching. I'll be praying."	3 (7.5)
Identifies common goals of care, implications for medical care	"Though, I'll tell you my job isn't to take away hope, I will be hoping for that same miracle we're all hoping for, but medically speaking, realistically speaking, this isn't going to improve. He's not going to get better and leave the hospital."	2 (5.0)

cerns is a lack of training for discussing religion and spirituality. Another possibility is that health care professionals may place less value on such discussion either because of their own attitudes toward religion and spirituality or because they perceive the decisions as depending solely on medical facts instead of including diverse values.²⁶

We also found that when surrogates did raise a religious or spiritual consideration, health care professionals rarely made attempts to explore the topic. Curlin et al²⁹ found that many health care professionals reported changing the subject when patients raise spiritual concerns. By not engaging such concerns, health care professionals may miss opportunities to better understand patients and surrogates, including how they make medical decisions. Studies have found that patients want to discuss their religious and spiritual concerns, and when practitioners do speak with patients about spiritual concerns, patients are more satisfied with the care they have received.⁸ Furthermore, the discussions are associated with increased referrals to hospice, suggesting that the process of health care

professionals discussing religious and spiritual values and concerns may have a tangible effect on patient outcomes, potentially in a more patient-centered direction.^{5,7,16}

Implications

Our findings suggest that religious considerations—viewed as important to a large proportion of Americans—are often absent from end-of-life conversations. This may signal a need for changes in health care delivery in ICUs. One possible approach is to redesign health care processes to increase the involvement of spiritual-care providers in end-of-life discussions that involve patients with high degrees of religiosity. Chaplains, who have expertise that is complementary to health care professionals', may be able to help navigate issues at the interface of religion and end-of-life decision making. In light of existing shortages of chaplains and the high prevalence of patients who cite religious considerations at the end of life, health care professionals may need enhanced training on how to navigate such issues.³⁰ We suggest the development of scalable approaches to teach health care profes-

sions how to explore patients' religious and spiritual concerns, how to respond to frequent topics, and when to involve spiritual-care providers.

Strengths and Limitations

Our study draws from the largest existing cohort of audio-recorded physician-family encounters in ICUs, drawn from 13 ICUs at 6 sites across the United States.

Although we had high interrater reliability, it is possible that other coders would have interpreted the statements in somewhat different ways. It is unclear what contributed to the infrequency with which religious and spiritual topics were discussed in this sample, and we cannot exclude the possibility that surrogates and health care professionals spoke about religious and spiritual considerations outside the audio-recorded goals-of-care conversations. Although there were no differences between enrolled surrogates and those who de-

clined to participate in terms of basic demographic information, we cannot exclude the possibility that there were unmeasured differences that resulted in a sample that may not generalize to all family members in ICUs. In addition, 3 of 4 surrogates were Christian, potentially limiting the generalizability of the study to other religious groups.

Conclusions

Although many patients wish to have their religious values incorporated in end-of-life decisions, our research indicates that religious and spiritual considerations are infrequently discussed during physician-family meetings. Developing strategies to ensure adequate exploration and integration of religious and spiritual consideration may be important for improving patient-centered care in ICUs.

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REFERENCES

1. Steinhauer KE, Christakis NA, Clipp EC, McNeilly M, McIntyre L, Tulsy JA. Factors considered important at the end of life by patients,

family, physicians, and other care providers. *JAMA*. 2000;284(19):2476-2482.

2. Ehman JW, Ott BB, Short TH, Ciampa RC, Hansen-Flaschen J. Do patients want physicians to inquire about their spiritual or religious beliefs if they become gravely ill? *Arch Intern Med*. 1999;159(15):1803-1806.

3. Steinhauer KE, Clipp EC, McNeilly M, Christakis NA, McIntyre LM, Tulsy JA. In search of a good death: observations of patients, families, and providers. *Ann Intern Med*. 2000;132(10):825-832.

4. Williams JA, Meltzer D, Arora V, Chung G, Curlin FA. Attention to inpatients' religious and spiritual concerns: predictors and association with patient satisfaction. *J Gen Intern Med*. 2011;26(11):1265-1271.

5. Daaleman TP, Nease DE Jr. Patient attitudes regarding physician inquiry into spiritual and religious issues. *J Fam Pract*. 1994;39(6):564-568.

6. Hart A Jr, Kohlwees RJ, Deyo R, Rhodes LA, Bowen DJ. Hospice patients' attitudes regarding spiritual discussions with their doctors. *Am J Hosp Palliat Care*. 2003;20(2):135-139.

7. MacLean CD, Susi B, Phifer N, et al. Patient preference for physician discussion and practice of spirituality. *J Gen Intern Med*. 2003;18(1):38-43.

8. McCord G, Gilchrist VJ, Grossman SD, et al. Discussing spirituality with patients: a rational and ethical approach. *Ann Fam Med*. 2004;2(4):356-361.

9. Curlin FA, Hall DE. Strangers or friends? a proposal for a new spirituality-in-medicine ethic. *J Gen Intern Med*. 2005;20(4):370-374.

10. Curlin FA, Lantos JD, Roach CJ, Sellergren SA, Chin MH. Religious characteristics of U.S. physicians: a national survey. *J Gen Intern Med*. 2005;20(7):629-634.

11. Kaldjian LC, Jekel JF, Friedland G. End-of-life decisions in HIV-positive patients: the role of spiritual beliefs. *AIDS*. 1998;12(1):103-107.

12. Sulmasy DP. Ethos, mythos, and thanatos: spirituality and ethics at the end of life. *J Pain Symptom Manage*. 2013;46(3):447-451.

13. Koenig HG. Religion, spirituality, and medicine: research findings and implications for clinical practice. *South Med J*. 2004;97(12):1194-1200.

14. Lo B, Ruston D, Kates LW, et al; Working Group on Religious and Spiritual Issues at the End of Life.

Discussing religious and spiritual issues at the end of life: a practical guide for physicians. *JAMA*. 2002;287(6):749-754.

15. Puchalski C, Ferrell B, Virani R, et al. Improving the quality of spiritual care as a dimension of palliative care: the report of the Consensus Conference. *J Palliat Med*. 2009;12(10):885-904.

16. Bernard GR, Artigas A, Brigham KL, et al. The American-European Consensus Conference on ARDS: definitions, mechanisms, relevant outcomes, and clinical trial coordination. *Am J Respir Crit Care Med*. 1994;149(3, pt 1):818-824.

17. Sandelowski M. Whatever happened to qualitative description? *Res Nurs Health*. 2000;23(4):334-340.

18. Glaser BG, Strauss AL. *The Discovery of Grounded Theory: Strategies for Qualitative Research*. Chicago, IL: Aldine; 1967.

19. Alcorn SR, Balboni MJ, Prigerson HG, et al. "If God wanted me yesterday, I wouldn't be here today": religious and spiritual themes in patients' experiences of advanced cancer. *J Palliat Med*. 2010;13(5):581-588.

20. Johnson KS, Elbert-Avila KI, Tulsy JA. The influence of spiritual beliefs and practices on the treatment preferences of African Americans: a review of the literature. *J Am Geriatr Soc*. 2005;53(4):711-719.

21. Pearce MJ, Coan AD, Herndon JE II, Koenig HG, Abernethy AP. Unmet spiritual care needs impact emotional and spiritual well-being in advanced cancer patients. *Support Care Cancer*. 2012;20(10):2269-2276.

22. Peteet JR, Balboni MJ. Spirituality and religion in oncology. *CA Cancer J Clin*. 2013;63(4):280-289.

23. Fischer GS, Tulsy JA, Arnold RM. Communicating a poor prognosis. *Topics Palliat Care*. 2000;4:75-94.

24. Phelps AC, Lauderdale KE, Alcorn S, et al. Addressing spirituality within the care of patients at the end of life: perspectives of patients with advanced cancer, oncologists, and oncology nurses. *J Clin Oncol*. 2012;30(20):2538-2544.

25. Ellis MR, Campbell JD, Detwiler-Breidenbach A, Hubbard DK. What do family physicians think about spirituality in clinical practice? *J Fam Pract.* 2002;51(3):249-254.

26. Curlin FA, Sellergren SA, Lantos JD, Chin MH. Physicians' observations and interpretations of the influence of religion and spirituality on health. *Arch Intern Med.* 2007;167(7):649-654.

27. Ellis MR, Vinson DC, Ewigman B. Addressing spiritual concerns of patients: family physicians' attitudes and practices. *J Fam Pract.* 1999;48(2):105-109.

28. Ford DW, Downey L, Engelberg R, Back AL, Curtis JR. Discussing religion and spirituality is an advanced communication skill: an exploratory structural equation model of physician trainee self-ratings. *J Palliat Med.* 2012;15(1):63-70.

29. Curlin FA, Lawrence RE, Odell S, et al. Religion, spirituality, and medicine: psychiatrists' and other physicians' differing observations, interpretations,

and clinical approaches. *Am J Psychiatry.* 2007;164(12):1825-1831.

30. Balboni MJ, Sullivan A, Amobi A, et al. Why is spiritual care infrequent at the end of life? spiritual care perceptions among patients, nurses, and physicians and the role of training. *J Clin Onc.* 2012;31(4):461-467.

Invited Commentary

Religion, Spirituality, and the Intensive Care Unit The Sound of Silence

Tracy A. Balboni, MD, MPH; Michael J. Balboni, PhD, MDiv; George Fitchett, DMin, PhD

Visualize for a moment the philosophical quandary of a tree falling in the uninhabited forest and whether it makes a sound—the dying tree, its surroundings of fellow trees, foliage, and earth—



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with no person to hear its fall. This visualization hardly seems relevant to the intensive care unit (ICU), particularly be-

cause these seem to be manifestly opposing environments—one is quiet, organic, and verdant with life while the other is characterized by the sounds of human and technological activity, sterility, and illness. And yet the quandary posed by this visual exercise is central to the article by Ernecoff and colleagues¹ and to the question of the role of spirituality in caring for seriously ill patients and their families.

In *The Rebirth of the Clinic*, Sulmasy calls illness a “spiritual event” that “grasps persons by the soul as by the body and disturbs both.”^{2(p17)} Certainly, data support Sulmasy’s thesis,³ with spirituality being important to most ill persons, contributing to coping and quality of life and being a source of spiritual needs. But what is meant by *spirituality*? Spirituality has been disputably and variably defined. According to the 2009 Spiritual Care Consensus Conference, “Spirituality is the aspect of humanity that refers to the way individuals seek and express meaning and purpose and the way they experience their connectedness to the moment, to self, to others, to nature, and to the significant or sacred.”^{4(p887)} Religion, a related concept, is typically understood as a spirituality that is shared by a group of people, often with common beliefs and practices. Regardless of the varying definitions, what is clear is that spirituality is found in myriad forms, such as the sacredness of family, nature, or a relationship to the divine. Furthermore, what is also clear is that spirituality is typically out of place in medical environments, as foreign as the contrasting visuals of the lonely tree and bustling ICU. However, stranger still is the fact that, although we health care professionals struggle to connect spirituality and medicine as evidenced by the many and mounting articles that refute or explicate their connection, our patients and families typically do not struggle. For most, thoughts of what is most sacred, of what transcends the finitude of human

life, come flooding in the moment the physician shares the news of the serious illness or the telephone call comes urging the listener to the bedside of a critically ill loved one.

The article by Ernecoff and colleagues¹ discusses with clarity and nuance the silence regarding spirituality in the setting of critical care. The study uses rigorous qualitative methods and is embedded in a prospective multisite study of family meetings at 13 ICUs across the United States. Using the audio recordings of 249 family meetings, the authors explore the religious and/or spiritual thematic content of goals-of-care conversations between health care professionals and surrogates of critically ill patients. Although religion was important to 77.6% of the surrogates, only 16.1% of the conferences included any reference to religion or spirituality. Furthermore, when they did occur, these conversations were initiated by surrogates 65.0% of the time. A health care professional raised spiritual concepts (eg, spiritual histories) only 14 times (5.6%), and only 2 of the conferences (0.8%) were attended by a chaplain. When surrogates raised spiritual concepts, health care professionals’ most common response was to change the subject to the medical realities at hand. Although empathic responses were the next most common response, health care professionals, in general, “rarely directly addressed surrogate’s spiritual or religious language.” Only 2 health care professionals responded by exploring the patient’s or surrogate’s spirituality. Notably, for conversations that included religious and/or spiritual content, various themes were identified, with miracles being one of several spiritual themes that intersected with medical care.

The findings by Ernecoff and colleagues¹ regarding the silence surrounding religion and/or spirituality in ICU conversations are loud and clear. Still, there remain important unanswered questions. First, what definitions did the authors use to denote a religious or spiritual theme? Based on the quotes and the predominance of religious language used in their keyword search, their concept of religion and/or spirituality appears largely to be framed by what colloquially might be termed *religious*. Understanding the definition is critical to interpreting these frequencies and placing them in proper context, particularly because the de facto defi-