### RESEARCH LETTER



# Quality measures for palliative care in the emergency department

The emergency department (ED) offers specific challenges and opportunities for palliative care–related programs and initiatives. ED providers serve an important role in both the initiation and the continuation of palliative care for the seriously ill as ED visits often increase within the last 6 months of life. Palliative care is specialized care for the seriously ill that focuses on improving quality of life at any age and at any stage of disease. Palliative care can be provided along with curative treatment in the ED and often improves patient quality of life, symptom control, and transitions of care, without shortening survival or disrupting potential life-prolonging interventions. Hospice care is applicable for a subset of seriously ill patients with less than 6 months of expected survival. ED referrals and care transitions from ED to hospice may similarly impact patient outcomes and quality of life. However, systematic quality measurements of the impact of ED-palliative care interventions are rare.

National organizations such as Center to Advance Palliative Care (CAPC), American Academy of Hospice and Palliative Medicine (AAHPM), and the Hospice and Palliative Nurses Association (HPNA) provide guidance to programs by identifying quality metrics for palliative care. 5-7 For example, CAPC categorizes metrics into outcome measures, process measures, and transition plans. 5,6 Measuring What Matters (AAHPM and HPNA) is a consensus recommendation for a portfolio of ten performance measures to guide hospice and palliative medicine programs for assessment and improvement. 5,6 In addition, AAHPM developed an implementation guide for patientreported outcome performance measures for quality improvement and regulatory reporting efforts. These quality measures were designed for hospitalized (>24h) or hospice patients and are not specific to the ED setting. Therefore, there is little guidance on how to measure quality improvements specifically related to ED palliative care interventions. This gap was explored by a committee on convened by the Palliative Medicine Section of the American College of Emergency Physicians, in 2017, to develop a consensus on best practices for ED palliative care. We present the work of this committee to articulate a set of relevant ED palliative care quality measures using an expert consensus approach (Table 1).

The committee included academic (MR, RG, SL, EI) and community (TL, RP) EM and HPM physicians (DW, KA) and an EM nurse

(GC), with representation from EM administrative leadership and those with dual EM and HPM board certification. The committee retained its structure with no attrition or addition of members throughout the modified nominal group expert consensus process. The group convened via a 60-minute monthly conference call that occurred for approximately 2 years (October 2017–July 2019).

The quality measures were defined via five consensus process phases: (1) identifying preassessments and personnel needs for ED palliative care quality measurement; (2) identifying specific ED palliative care quality measures via literature review and expert consensus; (3) categorizing ED-palliative care quality measures into the three domains of clinical outcomes, operational sustainability, and patient satisfaction; (4) within each domain, grouping the measures for ED palliative care initiatives along the patient care continuum—from arrival in ED to identification of eligible patient to final disposition; and (5) conference calls and face-to-face meetings to finalize the document (Table 1).

We derived the three main domains of clinical outcomes, operational sustainability, patient satisfaction from the domains of quality care set forth by the Centers for Medicare & Medicaid Services (e.g., clinical outcomes, operational sustainability, patient satisfaction, financial impact, and adherence to the joint commission standards). Clinical outcome measures focus on assessing the quality of clinical care services provided in the ED for patients with palliative care-related needs, for example, assessment and management of pain and distressing symptoms in a timely manner. Operational sustainability measures focus on processes such as patient flow, disposition, readmissions, and resource utilization. For example, use of palliative care order set or the ED length of stay in those with ED palliative care consultations. Patient or customer satisfaction measures assess the patient and/or their family member/caregiver's perceptions of quality of care provided in the ED; for example, through Press Ganey scores or other surveys. We also reviewed and modified some of the previously defined quality measures<sup>6-8</sup> that had ED relevance. For example, screening for distressing symptoms, psychosocial needs, spiritual/religious concerns, and documentation of health proxy or advance directives.

In each of the three main domains, we further subcategorized the quality measures to reflect the fact that ED palliative care initiatives

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Patient screening and identification	Assessment and management of palliative care-related needs	Referrals of palliative care services	Transitions of care	Protocol/order set/other	Academic Emergency N
Clinical outcomes					medicinė
-No. using surprise question: "Would	<ul> <li>Percentage of patients with pain assessment documented (total vs. those screening positive)</li> </ul>	-No. of X intervention	<ul><li>Percentage of ED and/ or in- hospital use of ventilator,</li></ul>	<ul> <li>Percentage of patients in target population (e.g., elderly from skilled nursing facility or metastatic solid organ</li> </ul>	
you be surprised if the patient	<ul> <li>Percentage of patients prescribed pain medications or medications for other distressing symptoms (nausea,</li> </ul>	after palliative care	pressor support, artificial nutrition, dialysis, etc.,	malignancy) with documented screening for palliative care needs	
died in the next	vomiting, dyspnea, etc.) in ED	consultation	after palliative care	-Percentage of patients with documented health proxy or	
year (or during this admission)?"	<ul> <li>-Time from X symptom/pain assessment to delivery of medication for symptom/pain relief</li> </ul>	-No. of total deaths and/or ICU/	consultation vs. all total patients receiving	decision maker in medical records (total vs. those who screened positive for palliative care needs)	
screening positive or	-Percentage or No. of patients offered spiritual support	non-ICU or floor	ventilator, pressor	-Percentage of patients with do not attempt resuscitation	
"no surprise," deaths	in ED (spiritual support offered for patients with	deaths within	support, artificial	status (total vs. those who screened positive for	
within 30 days -No. using surprise	deaths within 24 h of ED arrival) -Percentage of family members offered spiritual support	24, 48, or /2h ot ED admission	nutrition, dialysis, etc. -Percentage with	palliative care needs) -Percentage with documentation of advance directives/	
question: "Would	after ED patient death	-No. of deaths (ICU/	readmission to the	POLST/MOLST (total vs. patients in target	
you be surprised	-Percentage of family members offered grief support	floor) after ED	hospital within	population—such as those admitted to ICU)	
if the patient	after ED patient death	palliative care	30 days (total vs. those	-No. of patients who died within 24/48/72h of ED	
died in the next	-Percentage of family members screened for caregiver	consultation	with palliative care	admission with documented health proxy or decision	
year (or during	strain	within 24, 48,	consultation in ED)	maker in medical records	
tnis admission):	-Percentage With ED Ventilator use; pressor use in	or / Zn or EU	-Percentage of repeat ED		
"no surprise" deaths	patient screened positive for painative care needs -Percentage of in-hospital ventilator use pressor	- Percentage or	VISILS WILTIIN 30 days (Lotal		
within 6 months	support, artificial nutrition, dialysis, etc., use in	No. of patients	care consultation in ED)		
-Percentage or No. of	patient screened positive for palliative care needs	admitted total	-Percentage discharged		
patients measured	in ED	and/or after	to home and screened		
with score (% or		palliative care	positive for palliative care		
No.) for frailty or		consultation to:	needs		
functional decline		<ul> <li>Non-ICU/floor</li> </ul>	-Percentage discharged to		
(for example CFS,		• ICN	skilled nursing facility/		
PPS)		<ul> <li>Palliative care</li> </ul>	long-term care and		
-Percentage or No. of		unit	screened positive for		
patients measured			palliative care needs		
with score (%			-Percentage discharged on		
or No.) for total			nospice care		
disease burden/			-No. of patients who died		
comorbialdes/ contaits sick (for			Within 24/46/721101		
mortality risk (ior					
-Percentage or No. of			meeting (in those with		
patients measured			ED palliative care		
for spiritual distress			consultations vs. in all		
or loneliness			patients)		

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Protocol/order set/other	-Percentage or No. of palliative care templates or order sets used in all ED patients -Percentage of palliative care templates or order sets used in ED patients with X condition -Percentage or No. of X order sets placed by an ED clinician -Percentage or No. of X order sets placed by an accepting clinician -Percentage or No. of X order set placed (in those who screened positive for palliative care needs or received ED palliative care consult)
Transitions of care	-Percentage or No. of canceled palliative care consultations by admitting clinician percentage of patients who received pain medications within X hours of arrival to floor/ICU/palliative care unit etc. (in those who screened positive for palliative care consult) -Percentage of patients who received medications for distressing symptom control within X hours of arrival to floor/ICU/palliative care unit etc.  -Time from ED request for palliative care/hospice consultation to final disposition
Referrals of palliative care services	-No. of ED referrals for palliative care consultation or No. of ED referrals for hospice service -Time from consult to response by palliative care team member or hospice agency staff -ED length of stay for palliative care consult (and/ or in those who screen positive for palliative care needs) vs. ED length of stay for all patients, all discharged patients, all admitted patients -Hospital length of stay for patients in the ED vs. hospital length of stay for patients of stay for patients of stay for patients hospital length of stay for patients of stay for patients of stay for patients of stay for patients
Assessment and management of palliative care-related needs	-Percentage or No. of patients screened positive for palliative care needs using X tool -Percentage or No. of patients with X diagnosis screened positive for palliative care needs -Percentage of X order set placed by an ED clinician in those patients who screened positive for palliative care needs -Percentage of X order sets placed by an accepting clinician in those patients who screened positive for palliative care needs -Percentage or No. of patients admitted (ICU/floor) or discharged after screened positive for palliative care needs -Percentage or No. of patients admitted for palliative care needs
Patient screening and identification	Operational sustainability -Percentage of completion rate/use of screening tool for palliative care needs -Percentage of patients with X diagnosis who were screened -No. of transfers from a long-term care facility -No. of patients with multiple ED visits and hospitalizations in X time (total vs. those who screened positive for palliative care needs) -Time from ED arrival to completion of palliative care screening -Person completing the screening tool



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Protocol/order set/other	-Rating of the ED by patient/family member on a Likert- like scale (worst possible to best possible) Survey sample questions: -How likely are patient/family member to recommend this ED to other friends or family? -Did ED providers treat patient/family member with dignity and respect?
Transitions of care	-Percentage of patients and/ or family members highly satisfied with pain or symptom management in the ED -Percentage of patients and/or family members reporting excellent coordination of care to the next health care setting from ED Survey sample questions: -Did patient get as much help with pain/other symptoms relief as needed and how often? -Did patient/family member report whether they were kept informed about the family member's condition while in ED?
Referrals of palliative care services	-Percentage of patients and/or family members reporting high level of satisfaction with health care team communication patients and/or family members reporting excellent end-of-life care after a patient's hospital death within 24 or 72h of ED arrival Survey sample questions:  -Did patient/family member receive emotional or psychosocial or spiritual support from ED providers (or while in the ED)?
Assessment and management of palliative care-related needs	er satisfaction  -Percentage of patients and/ or family members reporting excellent/very good end-of-life care for an ED patient death  -Percentage of patients and/or family members reporting a high level of shared decision making with ED providers  Survey sample questions:  -Did ED providers listen carefully to the patient/family member when they talked about problems with their care?  -Did ED providers explain things in a way that was easy to understand?
Patient screening and identification	Patient and/or family member satisfaction  -Press Ganey scores or reporting or family member ED patiel satisfaction scores on patients who screened positive for palliative care needs or family member astisfaction scores or all ED patients  All ED patients  - Percentage or patients

Abbreviations: CCI, Charlson Comorbidity Index; CFE, Clinical Frailty Scale; ICU, intensive care unit; MOLST/POLST, practitioner/medical orders for life-sustaining treatment; PPS, Palliative Performance

\*Metrics are grouped in columns for ease of representation; however, measures may be applicable across multiple categories (for example, pain management metrics may fall within all three domains clinical outcomes, operational sustainability, and patient satisfaction—and for multiple column categories that represent the ED continuum of care such as assessment and transitions of care).

 $^{
m b}$ Consumer Assessment of Healthcare Providers and Systems (CAHPS) Survey. Centers for Medicare & Medicaid Service. $^?$ 

may often be implemented along the continuum of a patient's course in the ED. Therefore, the subcategories range from ED arrival to final disposition, including: (1) patient screening and identification, (2) assessment and management of palliative care needs, (3) referrals for palliative care services, (4) appropriate transitions of care, and (5) other categories such as order set/protocol-related measures.

We prioritized the inclusion of ED palliative care quality measures that were time based, patient specific, and actionable. ED performance management is often centered around improving patient flow and reducing crowding; thus, throughout-based, "nonclinical" metrics are highly relevant for ED palliative care interventions.

One example is ED arrival time to palliative care screening or time from palliative care consultation to final disposition. "Clinical" time-based measures such as time from pain assessment to delivery of pain management are important considerations. To assess the full impact of ED palliative care interventions, the time period for assessing quality may need to extend to 24 to 72 h after admission. For example, when assessing whether an ED palliative care consultation leads to a higher rate of having an early family meeting in those patients who died, a program may need to gather data 24 to 72 h after admission from ED.

Patient-specific measures are valuable to an ED for: (1) identifying the patient population of interest for screening/implementation of ED palliative care initiatives—for example, an ED serving multiple long-term care facilities should focus their palliative care screening efforts on the elderly patients arriving from those facilities and identify a suitable tool (e.g., frailty); (2) identifying an individual ED patient's palliative care needs, for example, the number of patients who screen positive for the "surprise" question—"would you be surprised if the patient died within this year?"; (3) identifying and allocating appropriate institutional resources based on patient load, for example, number of ED palliative care consultations or ED hospice referrals requested; and (4) measuring financial impact and outcomes, for example, number of interventions such as ventilator or dialysis after an ED palliative care consultation.

Actionable ED palliative care quality measures help standardize ED best practices and transitions of care. Examples include documentation of advance directives (e.g., in those admitted to the intensive care unit), use of palliative care order sets, or number of ED deaths where spiritual/chaplain support was offered. Also, reviewing patient suggestions via satisfaction surveys and implementing changes based on data has the potential to impact overall patient care in the ED.

We recognize that there exists a wide variability in ED access to resources related to palliative and hospice care. Reviewing ED palliative care quality measures before implementation may help guide an ED in defining how and where to focus an ED palliative care initiative. Measuring the impact of initiatives can provide meaningful feedback for an organization and help make the case for strategic institutional investment. ED data collection has unique challenges, often related to time constraints and limited personnel support. Therefore, measures that are easy to collect/document and fit within preexisting ED processes and roles of staff are most likely

to be successful. One example is having a triage nurse to identify patients (using set criteria) to be screened for palliative care needs. Similarly automatic triggers and alerts in the electronic record may assist data entry and collection, such as use of palliative care order sets or smart phrases for documenting goals of care conversations or advance directives. What measures to report (ED readmissions vs. cost savings) and to whom will be based on alignment with departmental and institutional goals. 8,10

Partnerships of ED palliative care champions with the palliative care team members are valuable. This is helpful for assessing impact and effectiveness of ED initiatives during the hospital stay in addition to defining the roles and responsibilities of interdisciplinary team members outside and within the ED such as case managers, chaplains, or social workers in screening, needs assessment, management, and data gathering for ED palliative care initiatives. Staff education is a very important aspect of any quality improvement initiative; however, the scope of this paper does not list ED palliative quality measures related to educational initiatives such as increased knowledge or impact provider attitudes related to ED palliative care.

In conclusion, these ED palliative care quality measures seek to provide guidance for EDs seeking to define a problem, assess the department's palliative care needs, and/or measure the progress/impact/effectiveness of an implemented ED palliative care initiative across the patient care continuum. Ideally, these ED palliative care quality measures would be used for a continuous cycle of quality improvement.

#### **KEYWORDS**

hospice, metrics, palliative care, quality measures

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#### **CONFLICT OF INTEREST**

The authors declare no potential conflict of interest.

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#### REFERENCES

Lamba S, Nagurka R, Murano T, Zalenski RJ, Compton S. Early identification of dying trajectories in emergency department patients: potential impact on hospital care. *J Palliat Med.* 2012;15(4):392-395. doi:10.1089/jpm.2011.0358

- 2. Wang DH. Beyond code status: palliative care begins in the emergency department. *Ann Emerg Med.* 2017;69(4):437-443.
- Grudzen CR, Richardson LD, Johnson PN, et al. Emergency department-initiated-palliative care in advanced cancer: a randomized clinical trial. JAMA Oncol. 2016;2(5):591-598.
- 4. Meier DE, Beresford L. Fast response is key to partnering with the emergency department. *J Palliat Med*. 2007;10(3):641-645.
- Center to Advance Palliative Care. Accessed August 16, 2022. www.capc.org
- Dy SM, Kiley KB, Ast K, et al. Measuring what matters: topranked quality indicators for hospice and palliative care from the American Academy of Hospice and Palliative Medicine and Hospice and Palliative Nurses Association. J Pain Symptom Manage. 2015;49(4):773-781.
- The palliative care measures project: implementation guide. American Academy of Hospice and Palliative Medicine. 2022. Accessed August 20, 2022. http://aahpm.org/uploads/AAHPM22\_PRO-PM\_ IMPLEMENTATION\_GUIDE.pdf
- 8. Loffredo AJ, Chan GK, Wang DH, et al. United States Best practice guidelines for primary palliative care in the emergency department. *Ann Emerg Med.* 2021;78(5):658-669.
- Hospital Quality Initiative. Centers for Medicare and Medicaid Services. 2015. Accessed August 20, 2022. https://www.cms.gov/ Medicare/Quality-Initiatives-Patient-Assessment-Instruments/ HospitalQualityInits
- Welch SJ, Asplin BR, Stone-Griffith S, et al. Emergency department operational metrics, measures and definitions: results of the Second Performance Measures and Benchmarking Summit. Ann Emerg Med. 2011;58(1):33-40.