

Practical guidelines for developing new palliative care services: resource management

T. J. Smith^{1*}, P. J. Coyne² & J B. Cassel²

¹Sidney Kimmel Comprehensive Cancer Center, Johns Hopkins Medicine, Baltimore, ²Massey Cancer Center of Virginia Commonwealth University, Richmond, USA

The data are relatively clear cut that palliative care improves quality of life and symptom control, improves quality of care by reducing aggressive but unsuccessful end of life care, and reduces costs. That should be an easy message to deliver to the public, health care administrators, payers, and governments. In fact, the arguments to develop palliative care services must be clear and concise, and make the clinical and financial case for the services that the palliative care team wants to deliver. Here, we discuss some of the types of models including consult services, outpatient programs, and inpatient units; the important components; some easy to use screening tools; components of the consultation team; a model medical record that increases “prompts” to do best palliative care; and data to report to supervisors.

Key words: palliative care, clinical and financial case, screening tools, medical record

introduction

Palliative care is easily defined as careful attention to symptom management, open and honest communication, and medically appropriate goal setting. Palliative care is almost always interdisciplinary with nurses, social workers, chaplains or clergy, pharmacists, physicians and others having equal say in the care of the patient and family. Palliative care appears to improve care without harm (see reviews by Higginson [1], Zimmerman [2], Bruera [3], Temel [4] and the American Society of Clinical Oncology Provisional Clinical Opinion [5]). The exact methods by which palliative care improves patient results are not completely defined, but at least some components are necessary.

The purpose of this brief review is to define some of the important palliative care components, and give some guides to resource management. The ideas here are based on 20 years of experience in developing and sustaining palliative care units, and reflect the wisdom of many others including Diane Meier MD, MaryAnn Hager RN MSN, and Laurel Lyckholm RN MD.

what palliative care site and method gives the best results?

There are few data about what site or type of care provides the best outcomes. For the Center to Advance Palliative Care Curriculum Palliative Care Leadership Program we made a learning tool to identify appropriate palliative care model and staffing model. We found that teams had three types of care:

1. inpatient consult services only; 2. inpatient units (IP units) with or without consult services; and 3. outpatient clinic only. Of course, there are advantages and disadvantages to each as shown in Table 1.

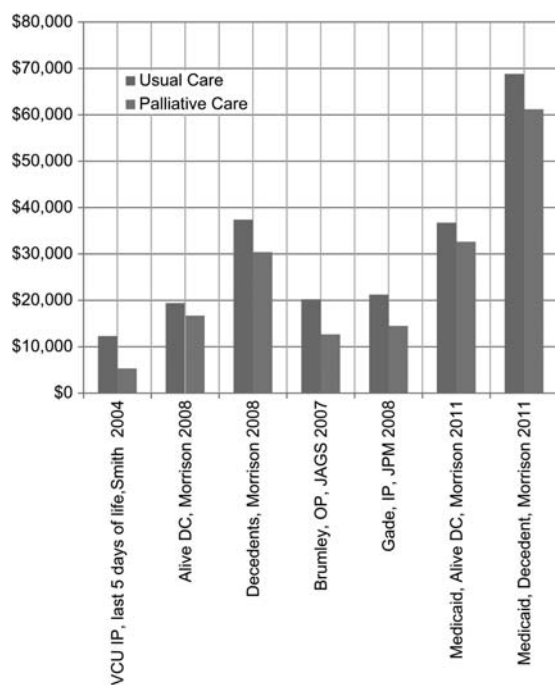
Inpatient palliative care units (PCUs) are devoted to providing only palliative care, with special nurses, training, and protocols just like the Intensive Care Unit. The advantages include specialized care, the ability to do certain procedures such as lidocaine or ketamine infusions, and it makes a visible ‘home’ for palliative care training, research, and donations. The disadvantage is that the PCU is a ‘cost center’ with a budget, and may be held to usual benchmarks such as 75% occupancy, and at least break even financially. To date, all the data show that palliative care saves money, as shown in Figure 1, with typical savings of US\$5000–7500 per case.

Consult services are the easiest program to start and maintain. Consult services only need a health care professional to see patients and apply palliative care. Although we think of palliative care as fully interdisciplinary, there are no data that the full team is needed – or not. Muir et al. [6] did palliative care in oncology offices with ‘just’ a physician and advance practice nurse, and showed better symptom management. They set up the program this way because of reimbursement in the US which is only for doctors and nurses. They could have added a social worker who can bill for some counseling services. They showed a 21% decrease in symptom burden, an increase in oncologist satisfaction (necessary for them to continue to work with oncologists) and consults increased by 87% in 2 years. They saved each oncologist over 4 weeks of time so that the practice could do more regular oncology. In our own settings, chaplains do not get reimbursed, and psychologists may not be able to generate their own salary in billings, so most programs raise money to support these services. It is our opinion that these services are essential, and in our experience, patients and families greatly appreciate these

*Correspondence to: Dr T. J. Smith, Director of Palliative Medicine for Johns Hopkins Medicine, Sidney Kimmel Comprehensive Cancer Center at Johns Hopkins, 600 N. Wolfe Street, Blaylock 369, Baltimore, MD 21287-0005, USA. Tel: +1-410-955-2091; Fax: +1-410-955-2098; E-mail: tsmit136@jhmi.edu

Table 1. Advantages and disadvantages of palliative care program models

	Advantages	Disadvantages
Consult Service and/or Outpatient Clinic	You can start quickly with a small staff	Usually only daytime coverage
	Interdisciplinary collaboration throughout health system	You may not be in control of the care so the care may not change. Some programs have only 20% of their suggestions followed [15, 16]
	Low cost	May not be able to have 'cost avoidance' savings since patient care or location of care may not change, e.g. transfer out of the ICU May be difficult to obtain and track data unless you have a dedicated finance person
	Education is hospital wide A consult service increased the number of appropriate discharges to hospice from 1% to about 30% [17], and from 25% to 47% in another.	Patients who transfer from palliative care to hospice may cost more than usual patients
Inpatient Unit	A palliative care dedicated staff will provide the best care	The rest of the hospital may lose interest in palliative care since you are there
	With transfer to PCU, you assume control of the patient	You have control of the patient, so you must provide comprehensive, 24/7 care Some doctors may not want to give up control over their patients
	Becomes the place for education, clinical research, and volunteers	Must meet the hospital requirements for census, budget
	And a target for food, gifts, endowments	May be perceived as a 'death unit', or a sign that the clinician has 'given up'
	If you have admissions for pain and palliative care management, and engender trust, may make it easier to transition those patients to hospice type care.	
	Dedicated expert high volume care may be more efficient and less costly.	May be perceived as withholding disease specific treatment, such as feeding tubes

**Figure 1.** Impact of palliative care on health care costs. VCU IP, Virginia Commonwealth University Inpatients; Alive DC, patients discharged alive; Decedents, patients who died in the hospital; OP, outpatients; IP, inpatients.

'special' types of care. For a recent review of oncologist-palliative care services see Alesi et al. [7].

The actual role of the consult service will vary with local customs and culture. Some consult services only make recommendations, whereas others actually assume care of the patient and write orders, take calls, etc. A 'recommendation' service is easier to start and maintain as it does not have long-term or intense responsibility. However, it may also not change practice much, especially at first, and loses the opportunity to standardize care with subsequent cost savings. The 'assume care' model requires more staff time to assume the care of medically complex patients, and must have arrangements for night and weekend coverage, but offers the strongest opportunity to create a model of standardized, medically appropriate, lower cost care. Those programs that want to advance palliative care earlier into the trajectory of care, i.e. during palliative chemotherapy treatment or during heart failure management, will need more staff and hours than those that concentrate on more traditional end-of-life care.

There is only one study that attempted to directly compare the experience with either consultation programs or inpatient palliative care units. Casarett et al. [8] interviewed 10 633 surviving caregivers after the death of their loved one in the US Veterans Administration system, with a response rate of 50–65%. Families of patients with

Name _____ MRN: _____ Age: _____ Date: _____
 Unit: _____

PALLIATIVE MEDICINE FOLLOWING? YES / NO (please circle one)

Please check the criteria that apply to your patient by circling the Y (yes) in the right column.

1. Readmitted from SNF/home/long term care facility OR Third admission within the past 6 months OR third admission to hospital for an incurable or possible life limiting illness within the past 6 months OR Acute brain injury requiring more than 5 days of mechanical ventilation	Y
2. Metastatic cancer previously treated or patient with cancer who is not believed to likely benefit from cancer directed therapy, or presence of hypercalcemia, malignant ascites/effusions, weight loss >10% of body weight, ECOG PS 2 or higher.	Y
3. Assistance with symptom management, especially uncontrolled acute pain, nausea and vomiting, dyspnea, malignant bowel obstruction and constipation, existential or spiritual distress	Y
4. Patient with disparate advanced directive (AD) goals such as wants CPR and transfusions and not dialysis.	Y
5. Patient with family in disagreement with patient AD	Y
6. Patient with assistance needed with goals of care planning for patient and family and/or consideration for hospice referral	Y
7. Critically ill patient with no advanced directive or plan of care established	Y
8. Patient or family requests a palliative medicine consult	Y
9. Patient is full code with overall poor prognosis	Y
10. The care managers, nurses or other non-physician staff believes that the patient or family could benefit from a palliative medicine consultation. Reason: _____	Y
11. Renal or hepatic failure requiring dialysis or transplant which is refused by the patient or not recommended by the medical providers	Y
12. Patient or family of patient with life threatening illness with unrealistic goals of care or expectations for recovery, please explain: _____	Y
13. Artificial hydration / nutrition requested by family or patient with a short anticipated survival from their underlying medical condition	Y

If one or more criteria are checked, please consider Palliative Medicine consult.

Consult Ordered? YES/NO (circle one)

Consultation discussed with patient's Attending Physician (name):

- Goals of care discussed with patient (check if yes)
- "code status" discussed with patient
- Further plans for treatment discussed with patient

Please return ALL completed forms to Palliative Medicine, Blalock 369, fax 410-955-2097, call Nancy Cisar 410-955-2098, or PING the Palliative Care Consultation pager.

Pall Med referral tool revised 04.21.10/Maani; revised Smith JHM 2011

Figure 2. Johns Hopkins Medicine Palliative Medicine Consult Worksheet. Adapted from the Geisenger Health System, developed by Dr Neil Ellison and colleagues. See also newly published trigger criteria [18].

usual care were less satisfied with the care over the last month of life than those who had a palliative care consultation, and those in the IP unit were the most

satisfied. Patients with a palliative care consultation or IP unit stay had more 'do not resuscitate' orders, and they were obtained earlier before death. Other benefits included

Table 2. Suggested components of a palliative care consultation (with comments or suggested phrases)

Understanding about illness understanding and the goals of care
Inquire about illness and prognostic understanding
<i>"What do you want to know about your illness? What do you know about your situation?"</i>
*After clearance by the attending physician, offer clarification of treatment goals
<i>"Would you like to discuss what might happen to you?"</i>
*Offer clarification of adaptation to changed goals and foreseeable death on several visits.
<i>Oncologists tend to think of this conversation as a one-time event, but the existential threat of death and loss of meaning continues from diagnosis. Personal Communication. Anthony Riley, MD, January 2012)</i>
Inquire about uncontrolled symptoms
<i>Always use a Symptom Assessment Tool such as Edmonton or Memorial Sloan Kettering Scales</i>
Pain
Pulmonary symptoms (cough, dyspnea)
Fatigue and sleep disturbance
Mood (depression and anxiety)
Gastrointestinal (anorexia and weight loss, nausea and vomiting, constipation)
<i>Decision making</i>
Inquire about mode of decision making
Assist with treatment decision-making, if necessary
Coping with life-threatening illness
<i>"This must be hard on you and your family. How are you coping with this illness?"</i>
Patient
Family/family caregivers
Referrals/prescriptions
Identify – and write down - care plan for future appointments
Indicate referrals to other care providers, and communicate directly by fax, email, or electronic medical record
Note new medications prescribed

*Modified from the National Palliative Care Consensus Guidelines, 2009

Table 3. Data to gather in order to analyze your own performance, and compare to other PC programs

Data element	Reason
Patient ID#	
Patient age, gender, race/ethnicity	Helps to know if you are reaching all the people you need to reach.
Palliative care diagnoses	List the top several for each patient
Referring service and/or referring physician	Helps to know who you are and are not reaching
Date of hospital admission	Helps to know your length of stay. Palliative care may reduce length of stay, which increases the number of people your hospital can serve.
Date of hospital discharge	
Date of PCU admission	
Disposition: inpatient death vs. discharge; discharge location	
Hospice admissions/discharges	
Patient billing status: acute care or hospice pass-through	
Financial analysis of the program	Are you profitable? Do you save money by cost avoidance? Do you cost the health system money? Do charitable donations support your program? Do you generate substantial good will for your parent organization?

Modified from Center to Advance Palliative Care Metrics [13, 14]. PCU, palliative care unit.

more chaplain visit and more goals of care discussion, all more common with palliative care consult and IP unit stays. This indicates a possible 'dose-response' effect familiar to oncologists – the more exposure to palliative care, the more palliation is actually achieved.

what are important components of a palliative care program?

We can identify some components which we think are important, including screening tools for consults and

Section	Importance
Chief complaint, history of present illness, review of systems	Usual medical care; it must look like a medical chart!
Symptom Assessment using ESAS or MSAS-C	These will find more symptoms
Prior Treatment	Lists treatments in order to know when to switch
1. Chemo #1 2010, 3 months response, progressive disease	
2. Chemo #2 2011, 5 months response, progressive disease	
3. Radiation Thoracic vertebrae 9-12	
Performance status (Palliative Performance Status highly predictive) ____	Chemotherapy not indicated in PS 3 or 4 patients, in general.
Code status __ Full __ DNR ____ Not discussed, discuss on _____	
Advance Medical Directive Yes No On File Do not resuscitate Yes No On File	
MOLST Yes No On File	
Goal of treatment: cure long term short term palliative	
Problem list with diagnostic statements	(Affects Risk of Mortality, which may affect nursing staff or reimbursement)
1. Nonsmall cell lung cancer	
2. Brain metastases, controlled	
3. Bone metastases	
4. Dyspnea	
5. Anemia	
6. malnutrition, mild	
Plan	
1. Chemo #3...which automatically PROMPTS a palliative care or hospice referral, goals of care discussion, discussion about advance medical directives	Can build in automatic prompts
2. Hospice informational visit	
3. Palliative care re-referral	

ESAS= Edmonton Symptom Assessment Scale; MSAS=Memorial Symptom Assessment Scale; MOLST=medical orders for life sustaining treatment; DNR= Do Not Resuscitate;

Figure 3. Template of a note to increase recording of oncology specific palliative care information.

admissions, use of guidelines and standardized algorithms, use of a standard note for consults, and standardized metrics for comparison.

There are excellent screening tools available on the Center to Advance Palliative Care website (<http://www.capc.org/tools-for-palliative-care-programs/clinical-tools/>). We use a modification of the Geisenger Clinic Form, shown in Figure 2. Many algorithms that improve care are also available free of charge on the same website and can be modified for local use.

The National Consensus Project [9] created guidelines that have been used in several studies with good results, especially that of Temel et al. [10] in non-small cell lung cancer which showed better palliation and 2.7 months more survival. Our modification is shown in Table 2, and includes ‘Always call the referring physician before discussing prognosis’.

We have developed a standardized note with prompts. Prompts work [11], and prompts about advance medical directives can increase the number of discussions. Making a list of treatments done before helps us know

when it is time to transition away from chemotherapy, such as three lines of chemotherapy in non-small cell lung cancer treatment. It appears to be almost universal that 10%–30% of patients receive chemotherapy in their last 2–4 weeks of life, regardless of profit motives of the oncologist [12], so we need better prompts to know when to have the discussion. One such note is shown in Figure 3.

Programs [13] should monitor their own performance for internal and external comparison. Weissman and Meier [14] have proposed standardized metrics, shown in modified form in Table 2. This data helps us determine who our customers are, and who is not referring to us, for selective marketing.

conclusions

Palliative care is a rapidly growing specialty that improves care at a cost we can afford, in every country. There are ways to structure the program and tools to enhance service. We illustrate some of

these from our experience. Much research needs to be done to maximize efficiency and quality by directly comparing such methods, but there are ample ways to improve today.

acknowledgments

Research Support from ACS Grant #PEP-10-174-01 (TS), R01CA116227-01 (TJS), 2R01CA106370-05A1 (TJS), and RC2CA148259 (BEH) from the National Cancer Institute.

disclosure

The authors declare no conflicts of interest on this topic.

references

- Higginson IJ, Evans CJ. What is the evidence that palliative care teams improve outcomes for cancer patients and their families? *Cancer J* 2010; 16(5): 423–435.
- Zimmermann C, Riechelmann R, Krzyzanowska M *et al*. Effectiveness of specialized palliative care: a systematic review. *JAMA* 2008; 299(14): 1698–1709.
- Bruera E, Yennurajalingam S. palliative care in advanced cancer patients: how and when? *The Oncologist* 2012 Jan 17 [Epub ahead of print] doi: 10.1634/theoncologist.2011-0219.
- El-Jawahri A, Greer JA, Temel JS. Does palliative care improve outcomes for patients with incurable illness? A review of the evidence. *J Support Oncol* 2011; 9(3): 87–94.
- Smith TJ, Temin S, Alesi ER *et al*. American Society of Clinical Oncology Provisional Clinical Opinion: The Integration of Palliative Care into Standard Oncology Care. *J Clinical Oncol* 2012; 30: 880–887.
- Muir JC, Daly F, Davis MS *et al*. Integrating palliative care into the outpatient, private practice oncology setting. *J Pain Symptom Manage* 2010; 40(1): 126–135.
- Alesi ER, Fletcher DS, Muir C *et al*. Palliative care and oncology partnerships in real practice. *Oncology (Williston Park)* 2011; 25(13): 1287–1290, 1292–1293.
- Casarett D, Johnson M, Smith D, Richardson D. The optimal delivery of palliative care: a national comparison of the outcomes of consultation teams vs. inpatient units. *Arch Intern Med* 2011; 171(7): 649–655.
- Ferrell B, Connor SR, Cordes A *et al*. The national agenda for quality palliative care: the National Consensus Project and the National Quality Forum. *J Pain Symptom Manage* 2007; 33(6): 737–744.
- Temel JS, Greer JA, Muzikansky A *et al*. Early palliative care for patients with metastatic non-small-cell lung cancer. *N Engl J Med* 2010; 363(8): 733–742.
- Anton BB, Schafer JJ, Micenko A *et al*. Clinical decision support. How CDS tools impact patient care outcomes. *J Healthc Inf Manag* 2012; 23(1): 39–45.
- Braga S. Why do our patients get chemotherapy until the end of life? *Ann Oncol* 2011; 22(11): 2345–2348.
- Weissman DE, Meier DE, Spragens LH. Center to Advance Palliative Care palliative care consultation service metrics: consensus recommendations. *J Palliat Med* 2008; 11(10): 1294–1298.
- Weissman DE, Meier DE. Center to advance palliative care inpatient unit operational metrics: consensus recommendations. *J Palliat Med* 2009; 12(1): 21–25.
- Pantilat SZ, O'Riordan DL, Dibble S, Landefeld CS. Hospital-based palliative medicine consultation: a randomized controlled trial. *Arch Intern Med* 2010; 170: 2038–2040.
- Rabow MW, Dibble SL, Pantilat SZ, McPhee SJ. The comprehensive care team: a controlled trial of outpatient palliative medicine consultation. *Arch Int Med* 2004; 164: 83–91.
- Morrison RS, Dietrich J, Ladwig S *et al*. Palliative care consultation teams cut hospital costs for Medicaid beneficiaries. *Health Aff (Millwood)* 2011; 30: 454–463.
- Weissman DE, Meier DE. Identifying patients in need of a palliative care assessment in the hospital setting: a consensus report from the Center to Advance Palliative Care. *J Palliat Med* 2011; 14(1): 17–23.