"Palliative Care for the Internist: 15 Ways to Improve Care for Your Patients with a Life-limiting Illness"

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Disclosure: There are no relevant financial relationships to disclose regarding this presentation

Patrick White, MD



My Background



- Internal Medicine-Washington University/BJH
- Hospice & Palliative Care Fellowship University of Pittsburgh Medical Center
- PhD Program, Clinical and Translational Science, University of Pittsburgh
- Chief Medical Officer, BJC
 Hospice



Presentation Outline

- Background
- Communication Pearls
- Polypharmacy Pearls
- Symptom Management Pearls
 - Constipation
 - Nausea
 - Depression
 - Pain
 - Agitation
 - Secretions



Palliative Care Versus Hospice Care

Palliative Care

- Focus on improving quality of life and controlling symptoms
- At any point in a serious illness
- Patients often continuing curative therapies including chemotherapy and hospitalizations
- Home support varies by program
- Medications and equipment often have copays

Hospice Care

- Focus on improving quality of life and controlling symptoms
- Prognosis less than 6 months
- Focus on comfort focused therapies with patients often desiring to be at their homes without intensive therapies
- Home support includes home nurses, social workers, chaplains, and NPs/physicians
- Medications and equipment are typically without copays

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The Problem





Original Investigation

Family Perspectives on Aggressive Cancer Care Near the End of Life

Alexi A. Wright, MD, MPH; Nancy L. Keating, MD, MPH; John Z. Ayanian, MD, MPP; Elizabeth A. Chrischilles, PhD; Katherine L. Kahn, MD; Christine S. Ritchie, MD, MSPH; Jane C. Weeks, MD, MSc¹; Craig C. Earle, MD, MSc; Mary B. Landrum, PhD

IMPORTANCE Patients with advanced-stage cancer are receiving increasingly aggressive medical care near death, despite growing concerns that this reflects poor-quality care.

OBJECTIVE To assess the association of aggressive end-of-life care with bereaved family members' perceptions of the quality of end-of-life care and patients' goal attainment.

DESIGN, SETTING, AND PARTICIPANTS Interviews with 1146 family members of Medicare patients with advanced-stage lung or colorectal cancer in the Cancer Care Outcomes Research and Surveillance study (a multiregional, prospective, observational study) who died by the end of 2011 (median, 144.5 days after death; interquartile range, 85.0-551.0 days).

EXPOSURES claims-based quality measures of aggressive end-of-life care (ie, intensive care unit [ICU] admission or repeated hospitalizations or emergency department visits during the last month of life, chemotherapy \approx 2 weeks of death; no hospice or \approx 3 days of hospice services; and deaths occurring in the hospital).

MAIN OUTCOMES AND MEASURES Family member-reported quality rating of "excellent" for end-of-life care. Secondary outcomes included patients' goal attainment (ie, end-of-life care congruent with patients' wishes and location of death occurred in preferred place).

RESULTS Of 1146 patients with cancer (median age, 76.0 years [interquartile range, 65.0-87.0 years]; 55.8% male), bereaved family members reported excellent end-of-life care for 51.3%. Family members reported excellent end-of-life care more often for patients who received hospice care for longer than 3 days (58.8% [352/599]) than those who did not receive hospice care or received 3 or fewer days (43.1% [236/547]) (adjusted difference, 16.5 percentage points [95% CI, 10.7 to 22.4 percentage points]). In contrast, family members of patients admitted to an ICU within 30 days of death reported excellent end-of-life care less often (45.0% [68/151]) than those who were not admitted to an ICU within 30 days of death (52.3% [520/995]) (adjusted difference, -9.4 percentage points [95% CI, -18.2 to -0.6 percentage points]). Similarly, family members of patients who died in the hospital reported excellent end-of-life care less often (42.2% [194/460]) than those who did not die in the hospital (57.4% [394/686]) (adjusted difference, -17.0 percentage points [95% CI, -22.9 to -11.1 percentage points]). Family members of patients who did not receive hospice care or received 3 or fewer days were less likely to report that patients died in their preferred location (40.0% [152/380]) than those who received hospice care for longer than 3 days (72.8% [287/394]) (adjusted difference, -34.4 percentage points [95% CI, -41.7 to -27.0 percentage points]).

CONCLUSIONS AND RELEVANCE Among family members of older patients with fee-for service Medicare who died of lung or colorectal cancer, earlier hospice enrollment, avoidance of ICU admissions within 30 days of death, and death occurring outside the hospital were associated with ensemblement of the area. These fundaments are summative of advance can

Author Affiliations: Author affiliations are listed at the end of this autological sectors and a sector and

JAMA. 2016 Jan 19;315(3):284-92

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Supplemental content at jama.com

 CME Quiz at jamanetworkcme.com and CME Questions page 300

ORIGINAL ARTICLE

Early Palliative Care for Patients with Metastatic Non–Small-Cell Lung Cancer

Jennifer S. Temel, M.D., Joseph A. Greer, Ph.D., Alona Muzikansky, M.A., Emily R. Gallagher, R.N., Sonal Admane, M.B., B.S., M.P.H., Vicki A. Jackson, M.D., M.P.H., Constance M. Dahlin, A.P.N., Craig D. Blinderman, M.D., Juliet Jacobsen, M.D., William F. Pirl, M.D., M.P.H., J. Andrew Billings, M.D., and Thomas J. Lynch, M.D.

Among patients with metastatic non–small-cell lung cancer, early palliative care led to significant improvements in both quality of life and mood. As compared with patients receiving standard care, patients receiving early palliative care had less aggressive care at the end of life but longer survival. 11.6 months vs. 8.9 months, P=0.02

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Key Communication Skills

- Disclosing bad news
- Communicating prognostic information
- Addressing patients' and families' emotions
- Discussing end-of-life options including hospice





1) Disclosing Bad News (SPIKES)

- Setting
- Perception
- Invitation
- Knowledge
- Empathy
- Summary

Quiet location/tissues/pagers off Ask what they have been told/believe Permission to discuss prognosis Provide information without jargon Acknowledge emotions Discuss next steps



2) NURSE Statements

- Naming emotion
- Understanding
- Respecting

- Supporting
- Exploring

on "I can't imagine how frustrating this must be."

"If a doctor told me that I would be frustrated and have trouble trusting."

"All of us are so impressed with what a great job you have done taking care of Jack."

"We will be with there to support you through the rest of Jack's illness."

"Could you share more about what "X" means to you?



3) Tips for Talking about Hospice

- Talk first about what hospice is and the *support* it can provide long before you use the word "hospice"
- Learn how to address the hope for miracle or that God will intervene to help their loved one
- Know the power of "I wish" statements
- "What would your loved one say if they were doing the talking"

i wish.



Other Tips

- It is okay to cry in front of your patients/families and they are almost always touched by it
- Expect to get some bizarre reactions when sharing really bad news
- Think of a really anxious situation you encountered before entering a challenging goals of care discussion. It will help ground you before entering these often emotional draining conversations



4) Preparing Families for End-of-Life

- Symptoms to make patients/families aware of:
- 1) Delirium/agitation
- 2) Secretions
- 3) Respiratory changes
- 4) Mottling/Cyanosis





Patient Experience in the Last Week of Life

JOURNAL OF PALLIATIVE MEDICINE Volume 17, Number 3, 2014 (a) Mary Ann Liebert, Inc. DOI: 10.1089/jpm.2013.0371

End-of-Life Dreams and Visions: A Longitudinal Study of Hospice Patients' Experiences

Christopher W. Kerr, MD, PhD,¹ James P. Donnelly, PhD,² Scott T. Wright, BA,¹ Sarah M. Kuszczak, BS,¹ Anne Banas, MD,¹ Pei C. Grant, PhD,¹ and Debra L. Luczkiewicz, MD¹

Abstract

Background: End-of-life dreams and visions (ELDVs) have been well documented throughout history and across cultures. The impact of pre-death experiences on dying individuals and their loved ones can be profoundly meaningful.

Objective: Our aim was to quantify the frequency of dreams/visions experienced by patients nearing the end of life, examine the content and subjective significance of the dreams/visions, and explore the relationship of these factors to time/proximity to death.

Methods: This mixed-methods study surveyed patients in a hospice inpatient unit using a semi-structured interview. Sixty-six patients admitted to a hospice inpatient unit between January 2011 and July 2012 provided informed consent and participated in the study. The semi-structured interviews contained closed and open-ended questions regarding the content, frequency, and comfort/distress of dreams/visions.

Results: Fifty-nine participants comprised the final sample. Most participants reported experiencing at least one dream/vision. Almost half of the dreams/visions occurred while asleep, and nearly all patients indicated that they felt real. The most common dreams/visions included deceased friends/relatives and living friends/relatives. Dreams/visions featuring the deceased (friends, relatives, and animals/pets) were significantly more comforting than those of the living, living and deceased combined, and other people and experiences. As participants approached death, comforting dreams/visions of the deceased became more prevalent.

Conclusions: ELDVs are commonly experienced phenomena during the dying process, characterized by a consistent sense of realism and marked emotional significance. These dreams/visions may be a profound source of potential meaning and comfort for the dying, and therefore warrant clinical attention and further research.

- 87% of EOL patients experience dreams and visions
- The vast majority of dreams/visions are comforting
 - Common topics
 - Reunions with deceased loved ones
 - Going on a trip
 - Meaningful experience

Kerr CW, Donnelly JP, Wright ST, Kuszczak SM, Banas A, Grant PC, Luczkiewicz DL. End-of-life dreams and visions: a longitudinal study of hospice patients' experiences. J Palliat Med. 2014 Mar;17(3):296-303.



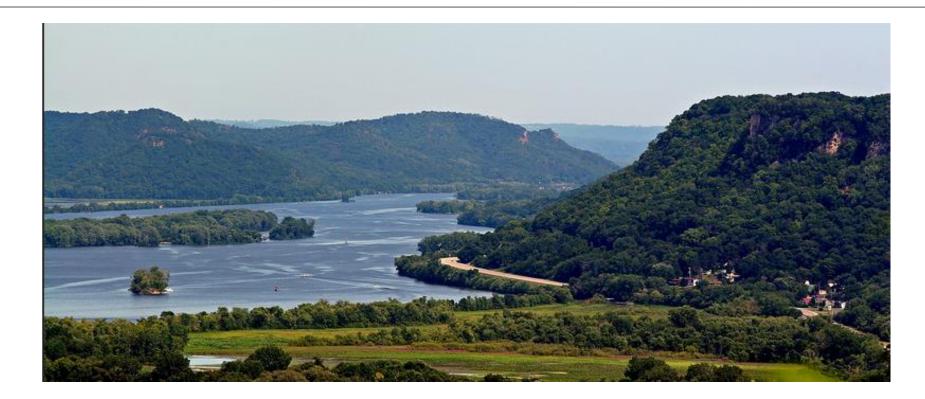
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5) Transportable Physician Orders for Patient Preferences TPOPP (Missouri POLST equivalent)

Last Narr	ne:	First Name:		Middle Initial:				
Date of B	Sirth:	Last 4 SSN:		Gender: M F				
A. CUITCK	If patient is not in cardiopulmo	SCITATION (CPR): Person has mary arrest, follow orders in B a Selecting CPR in Section 4 requirer selec	nd Ć.					
B.		in (DNAR410 CPRidition Venuel Deerk) 8: Person has pulse and/or is bre:	athing.					
CUPCK	Comfort Measures Only. Trait will depict and control. Comfort Measures Only. Trait will depict and region: Keep class, warm, and day: Use medication by any rests, positioning, wound care and often measures to nelicive pain and entropy. Trait will depict and careful to control actions. Trait will be control of the control of the control of the control of the control. Trait will be control of the control of the control of the control of the control. Trait will depict and careful to control of the control of the control of the control. Trait will depict any control of the control of the control of the control of the control. Trait will be control of the control of							
С.	Additional Orders:							
CUPCK ONF	No medically administered nutrition, including feeding takes. No medically administered nutrition, including feeding takes. Long term medically administered nutrition, including feeding takes. Additional Orders:							
D.	INFORMATION AND SIGNA	TURES						
CUPCK AU TUAT APPLY	Discursed with: Patient/Resident Agent/DPOA healtheare Parent of minor Legal guardian Health care surrogate Other (specify):							
	Signature of patient or recognized docision maker By signing the fam, the recognized docision maker advortizing that this regard regarding above transment measures is consistent with the internet dance, and with the bare internet, of the individual who is the subject of the fam.							
	Print name:	Signature (togethed):		Relationship (aste "as)" (")y				
	Addren:	dress:						
	Signature of physician My agrance below indicates to the best of my knowledge that these orders are consistent with the general's moderal condition and professors							
	Print physician name:	Phys	Physician phone:					
	Physician signature (regular):	Date	Date:					



Improving Access to Palliative Care



<u>Khandelwal N¹</u>, <u>Kross EK</u>, <u>Engelberg RA</u>, <u>Coe NB</u>, <u>Long AC</u>, <u>Curtis JR</u>. Estimating the effect of palliative care interventions and advance care planning on ICU utilization: a systematic review.</u> 2015 May;43(5):1102-11.



Minimizing Polypharmacy





Advances in Oncology: Impact of Palliative Chemotherapy on Quality of Life

JAMA Oncol. 2015 Sep;1(6):778-84.

Chemotherapy Use, Performance Status, and Quality of Life at the End of Life

Holly G. Prigerson, PhD; Yuhua Bao, PhD; Manish A. Shah, MD; M. Elizabeth Paulk, MD; Thomas W. LeBlanc, MD, MA; Bryan J. Schneider, MD; Melissa M. Garrido, PhD; M. Carrington Reid, MD, PhD; David A. Berlin, MD; Kerin B. Adelson, MD; Alfred I. Neugut, MD, PhD; Paul K. Maciejewski, PhD

IMPORTANCE Although many patients with end-stage cancer are offered chemotherapy to improve quality of life (QOL), the association between chemotherapy and QOL amid progressive metastatic disease has not been well-studied. American Society for Clinical Oncology guidelines recommend palliative chemotherapy only for solid tumor patients with good performance status.

OBJECTIVE To evaluate the association between chemotherapy use and QOL near death (QOD) as a function of patients' performance status.

DESIGN, SETTING, AND PARTICIPANTS A multi-institutional, longitudinal cohort study of patients with end-stage cancer recruited between September 2002 and February 2008. Chemotherapy use (n = 158 [50.6%]) and Eastern Cooperative Oncology Group (ECOG) performance status were assessed at baseline (median = 3.8 months before death) and patients with progressive metastatic cancer (N = 312) following at least 1 chemotherapy regimen were followed prospectively until death at 6 outpatient oncology clinics in the United States.

MAIN OUTCOMES AND MEASURES Patient QOD was determined using validated caregiver ratings of patients' physical and mental distress in their final week.

RESULTS Chemotherapy use was not associated with patient survival controlling for clinical setting and patients' performance status. Among patients with good (ECOG score = 1) baseline performance status, chemotherapy use compared with nonuse was associated with worse QOD (odds ratio [OR], 0.35; 95% CI, 0.17-0.75; P = .01). Baseline chemotherapy use was not associated with QOD among patients with moderate (ECOG score = 2) baseline performance status (OR, 1.06; 95% CI, 0.51-2.21; P = .87) or poor (ECOG score = 3) baseline performance status (OR, 1.34; 95% CI, 0.46-3.89; P = .59).

CONCLUSIONS AND RELEVANCE Although palliative chemotherapy is used to improve QOL for patients with end-stage cancer, its use did not improve QOD for patients with moderate or poor performance status and worsened QOD for patients with good performance status. The QOD in patients with end-stage cancer is not improved, and can be harmed, by chemotherapy use near death, even in patients with good performance status.

Invited Commentary page 785

6) Risks and Benefits of Statins in Advanced Illness

JAMA Intern Med. 2015; 175(5): 691-700.

Original Investigation

Safety and Benefit of Discontinuing Statin Therapy in the Setting of Advanced, Life-Limiting Illness A Randomized Clinical Trial

Jean S. Komee, MD, MSPH, Patrick L. Blatchford, PhiD, Donald H. Taylor & (PhD). Christine S. Ritche, MD. Jame H. Boll, MD, Dame L. Fairclough, DPH, Leara C. Humon, MD; Themas W. (elliane, MD; Greg P. Sumsa, PhD. Steven Wolf, LK). Nereen M. Arait, MD, PhD, David C. Curroe, BMed, Betty Ferrell, PhD, Nina Wagner, Schmaton, MD, S. Yossaf Zafar, MD, James F. Cleary, MD, Sandesh Dev, MD, Patricia S. Goode, MD, Arif H. Kamal, MD, Cordt Kassner, PhD; Efszheith A. Kwia, MD, Jameb G. McCalium, RN, MSH: Addeoye B. Ogunseitan, MD; Steven Z. Particia S. Goode, MD, Arif H. Kamal, MD, Cordt Kassner, PhD; Efszheith A. Kwia, MD, Jameb G. McCalium, RN, MSH: Addeoye B. Ogunseitan, MD; Steven Z. Particia V. Portenoy, MD: Maryo Drince-Paul, PhD, Jeff A. Sano, PhD. Keith, Wavez, MD, Chattels: F. Von Gunter, MD, PhA: https:// Abemethy.MD, PhD

Invited Commentary page 701

IMPORTANCE For patients with limited prognosis, some medication risks may outweigh the benefits, particularly when benefits take years to accrue, statins are one example. Data are lacking regarding the risks and benefits of discontinuing statin therapy for patients with limited life expectancy.

Related article page 827

 Supplemental content at jamaintemalmedicine.com

OBJECTIVE To evaluate the safety, clinical, and cost impact of discontinuing statin medications for patients in the palliative care setting.

DESIGN, SETTING, AND PARTICIPANTS This was a multicenter, parallel-group, unblinded, pragmatic clinical trial. Eligibility included adults with an estimated life expectancy of between 1 month and 1 year, statin threapy for 3 months or more for primary or secondary prevention of cardiovascular disease, recent deterioration in functional status, and no recent active cardiovascular disease. Participants were randomized to either discontinue or continue statin therapy and were monitored monthly for up to 1 year. The study was conducted from June 3, 2011, to May 2, 2013. All analyses were performed using an intent-to-treat approach.

INTERVENTIONS Statin therapy was withdrawn from eligible patients who were randomized to the discontinuation group. Patients in the continuation group continued to receive statins.

MAIN OUTCOMES AND MEASURES Outcomes included death within 60 days (primary outcome), survival, cardiovascular events, performance status, quality of life (QOL), symptoms, number of nonstatin medications, and cost savings.

RESULTS A total of 381 patients were enrolled; 189 of these were randomized to discontinue statins, and 192 were randomized to continue therapy. Mean (SD) age was 74.1 (11.6) years, 22.0% of the participants were cognitively impaired, and 48.8% had cancer. The proportion of participants in the discontinuation vs continuation groups who died within 60 days was not significantly different (23.8% vs 20.3%; 90% Cl, -3.5% to 10.5%; P = 3.6) and did not meet the noninferiority end point. Total (OL) was better for the group discontinuing statin therapy (mean McGill QOL score, 711 vs 6.85; P = .04). Few participants experienced cardiovascular everts (13 in the discontinuation group vs 11 in the continuation group). Mean cost savings weret \$3.37 per day and \$716 per patient.

CONCLUSIONS AND RELEVANCE This pragmatic trial suggests that stopping statin medication therapy is safe and may be associated with benefits including improved QOL, use of fewer nonstatin medications, and a corresponding reduction in medication costs. Thoughtful patient-provider discussions regarding the uncertain benefit and potential decrement in QOL associated with statin continuation in this setting are warranted.

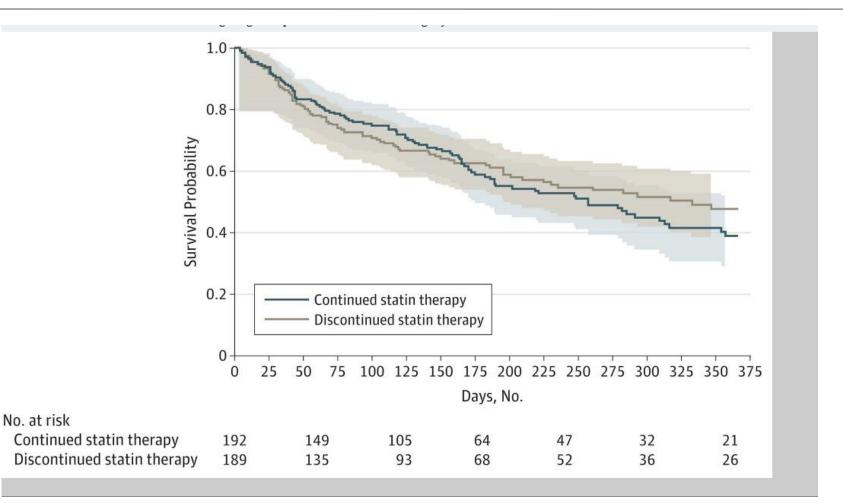
TRIAL REGISTRATION clinicaltrials.gov identifier: NCT01415934

Author Affiliations: Author affiliations are listed at the end of this

Corresponding Author: Amy P. Abernethy, MD. PhD. Center for Learning Health Care. Duke Clinical Research Institute. Duke University



Statin in Advanced Illness (Survival Impact)



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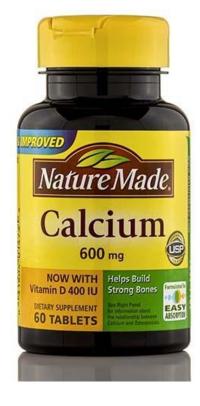
Statins in Advanced Illness: Impact on Quality of Life

Domain Measure	Estimate (95% CI)		Dise	contin	Favor		Favor: Contin	s nuatio	n
Quality of life	a sincercial devices de					88 13			
Overall	0.18 (-0.28 to 0.64)								
Physical	-0.08 (-0.43 to 0.26)					-			
Psychological	0.39 (-0.02 to 0.80)					-			
Well-being	0.32 (0.00 to 0.64)	-				-			
Support	0.53 (0.16 to 0.90)				_				
Total	0.26 (0.02 to 0.50)	_				_			
Symptoms									
Standard items	-2.19 (-5.01 to 0.63)		-	-	-	-			
Statin items	-0.23 (-1.39 to 0.93)							-	
All items	-2.45 (-6.02 to 1.12)		-			_	-		
Performance status									
AKPS scale score	-0.80 (-4.11 to 2.50)				-				
Medications									
Total medications	-0.67 (-1.29 to -0.05)	-				-			
Regular	-0.25 (-0.77 to 0.27)		-			-			
PRN ≥1/2 d	-0.19 (-0.46 to 0.08)		_			-	-		
PRN <1/2 d	-0.11 (-0.32 to 0.11)		8			-			
Satisfaction									
Recommend care	0.08 (-0.05 to 0.20)		-			-			
		-5 -4	-3	-2	-1	0	i	ź	Contraction of the local distribution of the
		St	andai	dizec	Estir	nate	(95%	CI)	

7) Challenges of Calcium Supplementation in Patients with Advanced Disease

Symptoms of Hypercalcemia

- Constipation
- Fatigue
- Dyspepsia
- Depression
- Anxiety
- Cognitive decline
- Agitation
- Anorexia
- Nausea
- Polyuria





8) Success of Drug Discontinuation: Anti-hypertensives

Table 2. Success Rate of Drug Discontinuation (DD) According to Types of Drugs

Drug Group	Patients Using Drug, No.	DD Suggested, No. (% ^a)	DD Actually Performed, No. (%)	Specific Compliance, % ^b	Eventual DD Success Rate, % ^c
Antihypertensives	95 ^d	58 (61)	50 (53)	86	84
β-Blockers	26	15 (58)	11 (42)	73	67
Calcium channel blockers	22	13 (59)	11 (50)	85	85
Disothiazide	11	11 (100)	10 (91)	91	91
ACE inhibitors	32	9 (28)	8 (25)	89	89
α-Blockers	8	6 (75)	2 (25)	33	33
Nitrates	5	5 (100)	5 (100)	100	100
Furosemide	18	14 (78)	13 (72)	92	79
Aspirin	24	2 (8)	2 (8)	100	100
Statins	26	18 (69)	14 (54)	78	72
Sulfonylurea	6	5 (83)	5 (83)	100	100
Metformin	11	5 (45)	3 (27)	60	60
H ₂ blockers	8	8 (100)	6 (75)	75	75
Omeprazole	18	10 (56)	9 (50)	90	90
Benzodiazepines	36 ^e	36 (100)	35 (97) ^e	97	97
SSRIs	33	13 (39)	11 (33)	85	77
Other antidepressants	12	10 (83)	9 (75)	90	90
Antipsychotics	8	3 (37)	3 (37)	100	100
Levodopa-carbidopa	10	7 (70)	5 (50)	71	71

Garfinkel D, Mangin D. Feasibility study of a systematic approach for discontinuation of multiple medications in older adults: addressing polypharmacy. Arch Intern Med. 2010 Oct

11;170(18):1648-54.



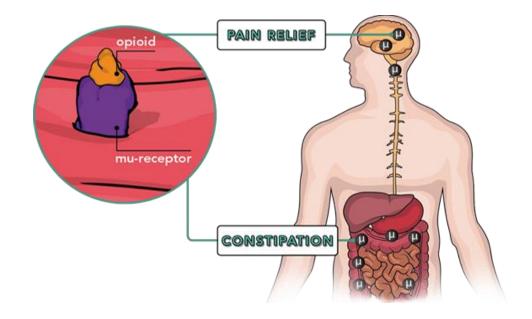
Medications Associated with Constipation

- Opioids/tramadol
- (methadone and fentanyl are the least constipating)
- Amiodarone
- Antacids (Tums)
- Antidepressants
- Antihistamines (Benadryl)
- Calcium
- Calcium Channel Blockers (Norvasc, Diltiazem, Verapamil)
- Iron
- Zofran



9) Opiate-induced Constipation

- "the passage of small, hard feces infrequently and with difficulty"
- 10% of all people > 65
- 50% of all patients on admission to hospice
- Up to 90% of patients on opioids will experience constipation at some point!





Randomized, Double-Blind, Placebo-Controlled Trial of Oral Docusate in the Management of Constipation in Hospice Patients

Yoko Tarumi, MD, Mitchell P. Wilson, Olga Szafran, MHSA, and G. Richard Spooner, MD, CCFP, FCFP Department of Oncology (Y.T.), Faculty of Medicine and Dentistry (M.P.W.), and Department of Family Medicine (O.S., G.R.S.), University of Alberta, Edmonton, Alberta, Canada

Abstract

Context. The stool softener docusate is widely used in the management of constipation in hospice patients. There is little experimental evidence to support this practice, and no randomized trials have been conducted in the hospice setting.

Objectives. To assess the efficacy of docusate in hospice patients.

Methods. This was a 10-day, prospective, randomized, double-blind, placebocontrolled trial of docusate and sennosides vs. placebo and sennosides in hospice patients in Edmonton, Alberta. Patients were included if they were age 18 years or older, able to take oral medications, did not have a gastrointestinal stoma, and had a Palliative Performance Scale score of 20% or more. The primary outcome measures were stool frequency, volume, and consistency. Secondary outcomes were patient perceptions of bowel movements (difficulty and completeness of evacuation) and bowel-related interventions.

Results. A total of 74 patients were randomized into the study (35 to the docusate group and 39 to the placebo group). There were neither significant differences between the groups in stool frequency, volume, or consistency, nor in difficulty or completeness of evacuation. On the Bristol Stool Form Scale, more patients in the placebo group had Type 4 (smooth and soft) and Type 5 (soft blobs) stool, whereas in the docusate group, more had Type 3 (sausage like) and Type 6 (mushy) stool (P = 0.01).

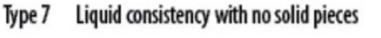
Conclusion. There was no significant benefit of docusate plus sennosides compared with placebo plus sennosides in managing constipation in hospice patients. Docusate use should be considered on an individual basis. J Pain Symptom Manage 2013;45:2–13. © 2013 U.S. Cancer Pain Relief Committee. Published



Bristol Poop Chart

BRISTOL STOOL CHART

ಿಂದಿ	Type 1	Separate hard lumps	Very constipated
	Type 2	Lumpy and sausage like	Slightly constipated
	Туре 3	A sausage shape with cracks in the surface	Normal
	Type 4	Like a smooth, soft sausage or snake	Normal
886	Type 5	Soft blobs with clear-cut edges	Lacking fibre
- Store	Туре б	Mushy consistency with ragged edges	Inflammation
1 1 1 1 1 1 1			



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RANDOMIZED CLINICAL TRIAL

Lubiprostone vs Senna in postoperative orthopedic surgery patients with opioid-induced constipation: A double-blind, active-comparator trial

Christina M Marciniak, Santiago Toledo, Jungwha Lee, Michael Jesselson, Jillian Bateman, Benjamin Grover, Joy Tierny

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Benjamin Grover, Chicago College of Osteopathic Medicine, Chicago, IL 60515, United States

Author contributions: Marciniak CM, Toledo S, Jesselson M, Bateman J and Lee J designed the research project: Marciniak day or *Senna* (generic) two capsules administered daily for six days. Subjects were assessed using the patient assessment of constipation (PAC)-symptoms (PAC-SYM) and the PAC-quality of life (PAC-QOL) scales measured at baseline and Day 7; Subjects were assessed daily for secondary measures included the Bristol stool scale bowel consistency, specific bowel symptom score (Nausea, cramping, straining, completeness, abdominal pain, time per lavatory attempt, assistance needed), adverse events and rescue medications required. Function was measured using the functional independence measure (FIM) at admission and discharge; length of ctay (LOC) and mission the straight of the sector of the sect

World J Gastroenterol. 2014 Nov 21;20(43):16323-33

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10) Pearls for Treating Depression at End-of-life

- SSRIs often have a considerable time to action in patients with significant comorbid illness
 - (median time of 6+ weeks for a 50% reduction in the symptoms in Star*D trial.)
- Mirtazapine
 - Advantages include quicker relief, appetite stimulation and reduction in insomnia

- Ritalin offers quick relief for many refractory patients but trials are mixed
- Ketamine has demonstrated very encouraging preliminary results
 - Earliest studies IV and intranasal



Mirtazapine for Treating Depression in Patients with Advanced Cancer





Methylphenidate for Treating Depression in Patients with Advanced Cancer

68 Journal of Pain and Symptom Management

Vol. 43 No. 1 January 2012

Original Article

Effects of Methylphenidate on Fatigue and Depression: A Randomized, Double-Blind, Placebo-Controlled Trial

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Abstract

Context. Fatigue is highly prevalent in populations with advanced illness and is often associated with depressed mood. The role of psychostimulant therapy in the treatment of these conditions remains ill defined.

Objectives. To evaluate the response of fatigue and depression in patients with advanced illness to titrated doses of methylphenidate (MP) as compared with placebo.

Methods. In a randomized, double-blind, placebo-controlled trial, 30 hospice patients, both inpatients and outpatients, who had fatigue scores of at least four on a scale of zero to 10 (0 de = no fatigue and 10 = worst fatigue), were randomly assigned to receive either 5 mg of MP at 8 M and 1 PM or placebo. Doses of MP were titrated every three days according to response and adverse effects. Home care patients were monitored daily by telephone and visited by a research nurse on Study Days 0 (baseline), 3, 7, and 14. Fatigue was assessed using the Piper Fatigue Scale as the primary outcome measure and validated by the Visual Analogue Scale for Fatigue and the Edmonton Symptom Assessment Scale (ESAS) fatigue score. Subjects in inpatient facilities were interviewed or assessed by staff on an identical schedule. Depressive symptoms were assessed by the Beck Depression Inventory-II, Center for Epidemiologic Studies Depression Scale, and the ESAS depression score. Primary statistical analysis was conducted using repeated-measures multivariate analysis of the variance.

Results. Both MP- and placebo-treated groups had similar measures of fatigue at baseline. Patients taking MP were found to have significantly lower fatigue scores (Piper Fatigue Scale, Visual Analogue Scale for Fatigue, and ESAS) at Day 14 compared with baseline. The improvement in fatigue with MP treatment was dosedependent; the mean average effective dose was 10 mg on Day 3 and 20 mg on Day 14 (dose range of 10–40 mg). Placebo-treated individuals showed no

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Accepted for publication: March 5, 2011.

	Plac	ebo	MP In	eatment
		Mean	\pm SD	
Variable	Day 0	Day 14	Day 0	Day 14
Fatigue	6.93 ± 2.37	6.58 ± 2.31	7.40 ± 2.03	2.69 ± 1.32
Depression	3.93 ± 3.06	3.58 ± 2.57	2.93 ± 3.12	1.92 ± 1.98
Well-Being	5.07 ± 1.77	4.82 ± 2.09	6.00 ± 2.04	3.67 ± 2.06
Anxiety	2.60 ± 2.20	3.42 ± 2.87	3.13 ± 2.33	1.69 ± 2.21
Pain	2.07 ± 1.44	1.75 ± 1.86	2.07 ± 2.15	1.08 ± 1.50
Appetite	3.13 ± 2.26	2.25 ± 2.34	4.13 ± 2.70	4.08 ± 3.40
Nausea	1.73 ± 2.81	1.67 ± 2.06	0.87 ± 0.99	1.54 ± 3.36

Comparison of Mean ESAS Scores for Placebo- and MP-Treated Groups at Baseline (Day 0) and Day 14

SD = standard deviation.

Scores: 0 = best; 10 = worst.



Interesting New Therapies!

Psilocybin produces substantial and sustained decreases in depression and anxiety in patients with life-threatening cancer: A randomized double-blind trial. J Psychopharmacol. 2016; 30(12):1181-1197.





11) Pearls for Treating Pain at End-of-Life

- Opiates can be titrated quickly if patients are carefully monitored
- Most typically start to schedule long-acting opioids if OME >30 mg
- Use caution in prescribing opiates in patients with renal failure
- Methadone can work wonders for patients refractory to other opioids

- If using Narcan in pt with chronic pain, dilute 0.4mg Narcan vial with 9mL of normal saline and give 1mL per minute.
- For uncomplicated painful bone metastases a single fraction of radiation can offer significant pain relief.



12) Benefits of Radiation Therapy in End-of-life

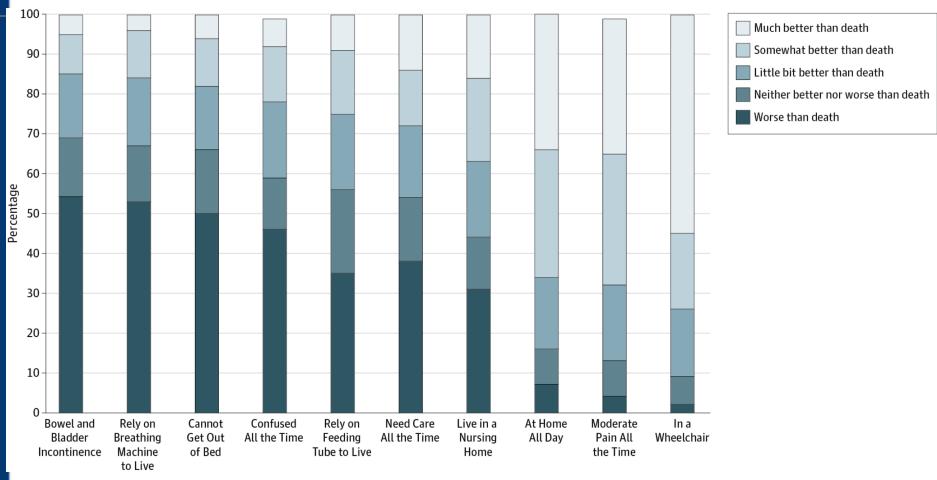
- Pain relief for uncomplicated bone metastases
 - pain relief typically starts within 2 weeks of treatment
 - partial response in 60-80% of patients at 4 weeks
 - complete relief in 30-50% of patients at 4 weeks
- Impact of early treatment of cord compression
 - Maintain ambulation and functional status
 - Maintain urinary/fecal continence and quality of life
- Some cancers respond better to radiation
 - Lymphoma, myeloma, small cell lung CA, breast CA, prostate CA, ovarian CA

Lutz S, Jones J, and Chow C. Role of Radiation Therapy in Palliative Care of the Patient With Cancer J Clin Oncol. 2014 Sep 10; 32(26): 2913–2919.



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States Worse Than Death Among Hospitalized Patients With Serious Illnesses



Rubin EB, Buehler AE, Halpern SD. States Worse Than Death Among Hospitalized Patients With Serious Illnesses. JAMA Intern Med. 2016 PMID 24479808



Comparing Efficacy of Single Fraction vs Extended Courses of Radiation Therapy for Bone Metastases

- No statistically significant differences in pain control or pathologic fractures rate
- Higher increase in retreatment rate in single fraction group (20% vs 8%)
- Lower rates of toxicity in single fraction regimens
 - Appetite loss (56% vs 66%)
 - Vomiting (13 vs 23%)
 - Diarrhea (23% vs 31%)
 - Skin discoloration (14% vs 24%)

<u>Chow E, van der Linden YM, Roos D, Hartsell WF, Hoskin P, Wu JS, Brundage MD, Nabid A, Tissing-Tan CJ, Oei B, Babington S, Demas WF, Wilson CF, Meyer RM, Chen BE, Wong RK.</u> <u>Lancet Oncol.</u> Single versus multiple fractions of repeat radiation for painful bone metastases: a randomised, controlled, non-inferiority trial. 2014 Feb;15(2):164-71.



Patient Reported Outcomes Comparing Singlefraction Vs Multi-fraction Palliative Radiotherapy

Table 5

Uncomplicated and complicated BoM PRO and pain responses for SFRT and MFRT.

Characteristic	Uncomplicated	Uncomplicated BoM			Complicated BoM		
	SFRT	MFRT	p-Value	SFRT	MFRT	p-Value	
Improvement in Total score	80% (309)	83% (180)	0.41	77% (95)	84% (149)	0.12	
Pain OR	75% (289)	75% (163)	0,98	71% (88)	75% (133)	0.47	
Pain CR	22% (86)	21% (45)	0.65	19% (24)	33% (58)	0.01	
Improvement in function	74% (213)	77% (118)	0.43	69% (62)	81% (111)	0.04	
Improvement in symptom frustration	78% (264)	81% (156)	0.39	77% (85)	78% (118)	0.95	

PRO = Patient Reported Outcomes; BoM = Bone Metastases; SFRT = Single Fraction Radiotherapy; MFRT = Multiple Fraction Radiotherapy; OR = Overall Response; CR = a post-RT score of zero.

Conway JL, Yurkowski E, Glazier J, et al. Comparison of patient-reported outcomes with a single versus multiple fraction palliative radiotherapy for bone metastasis in a population-based cohort. Radiother Oncol. 2016; 119(2):202-207.



International Variation in Practice Patterns Comparing Single-Fraction to Multi-fraction Radiotherapy





Economic Impact of Single-fraction Versus Multi-fraction Radiotherapy

RADIATION ONCOLOGY—ORIGINAL ARTICLE

Economic evaluation of single-fraction versus multiple-fraction palliative radiotherapy for painful bone metastases in breast, lung and prostate cancer

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Conflict of interest: The authors declare that they have no conflict of interest.

Submitted 4 October 2015; accepted 6 April 2016.

doi:10.1111/1754-9485.12467

Abstract

Introduction: Single- and multiple-fraction external beam radiotherapy (SFX-EBRT and MFX-EBRT) are palliative treatment options for localized metastatic bone pain. MFX is the preferred choice in many developed countries. Evidence shows little difference in how effectively SFX and MFX reduce pain. However, SFX is associated with higher retreatment and (in one meta-analysis) pathological fracture rates. MFX is, however, more time-consuming and expensive. We estimated the cost-effectiveness of SFX versus MFX for metastatic bone pain in breast, prostate and lung cancer in New Zealand.

Methods: We constructed a Markov microsimulation model to estimate health gain (in quality-adjusted life-years or QALYs), health system costs (in real 2011 NZ dollars) and cost-effectiveness. The model was populated using effect estimates from randomized controlled trials and other studies, and New Zealand cancer and cost data. Disability weights from the 2010 Global Burden of Disease study were used in estimating QALYs.

Results: Across all three cancers, QALY gains were similar for SFX compared to MFX, and per patient costs were less for SFX than MFX, with a difference of NZ\$1469 (95% uncertainty interval \$1112 to \$1886) for lung cancer, \$1316 (\$810 to \$1854) for prostate cancer and \$1344 (\$855 to \$1846) for breast cancer. Accordingly, from a cost-effectiveness perspective, SFX was the preferable treatment option. Various sensitivity analyses did not overturn the clear preference for SFX.

Conclusion: For all three cancers, SFX was clearly more cost-effective than MFX. This adds to the case for desisting from offering MFX to patients with metastatic bone pain, from a cost-effectiveness angle.

Key words: bone pain; cost-effectiveness analysis; metastatic cancer; radiotherapy; single fraction.



13) Pearls for Treating Secretions at End-of-life

- Nothing works as well as we would like
- One survey of 391
 caregivers found
 - Secretions occurred in 48% of patients
 - Of those with secretions,
 2/3 of families found them highly distressing
 - Female caregivers who were not prepared were at highest risk

- Mixed evidence that minimizing fluid intake reduces secretions
- Minimize deep suctioning
- Scopolamine patches can contribute to delirium while glycopyrrolate does not cross the blood barrier

Death rattle: critical review and research agenda. Support Care Cancer. 2014; 22(2):571-5.

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14) Pearls for Treating Agitation at End-of-life

- Identify under etiology when possible
 - infections, urinary retention, hypoxia, impaction, medications, pain, electrolytes, renal failure, hepatic failure etc.
 - If reversible, mean survival 40 days compared to 17 if not reversible

- Minimize high risk medications:
 - Anticholinergics, benzodiazepines, opioids, steroids, etc.
- Recent controversy about efficacy of haloperidol / risperidone

- Environmental factors
 - glasses, hearing aids, etc.

Agitation and delirium at the end of life: "We couldn't manage him". JAMA. 2008 Dec 24;300(24):2898-910. BIC THE WORLD'S BEST MEDICINE. MADE BETTER.

15) Supporting Caregivers

- 40-70% of family caregivers report clinically significant symptoms of depression
- 70% report caregiving had an impact on their employment
- One study found caregivers who reported "strain" had a 63% higher mortality rate than their non-caregiving peers



Schulz R, Beach SR. Caregiving as a risk factor for mortality: the caregiver health effects study. JAMA. 1999;282(23):2215-9.



Questions?



