

# Harnessing the Power of Data for Hospice Leaders, Part 2

In Partnership with:



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2011 Carolina's Center for Hospice & End-of-Life Care Annual Meeting September 26, 2011

#### Introduction & Background





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#### Presentation Outline

#### Part I:

- In the Beginning... Early Questions & Answers
- Data Available
- 3. Data Applications for Hospice Administrators

#### Part II:

- I. Death Service Ratio
- 2. Length of Service
- 3. Hospice in Nursing Facilities
- 4. Hospice Caps
- 5. Data Driven Advocacy
- 6. U-Shaped Curves
- 7. Disaster Preparedness & Misc.

# Disclosures

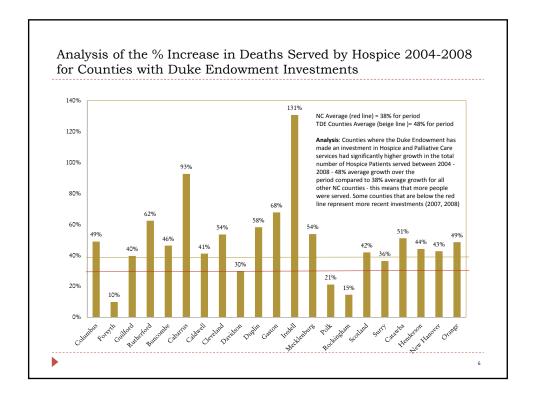
Janet Bull, MD
 Scientific Advisory Board – Archimedes, Salix
 Speakers Bureau – Salix, Pfizer, Meda

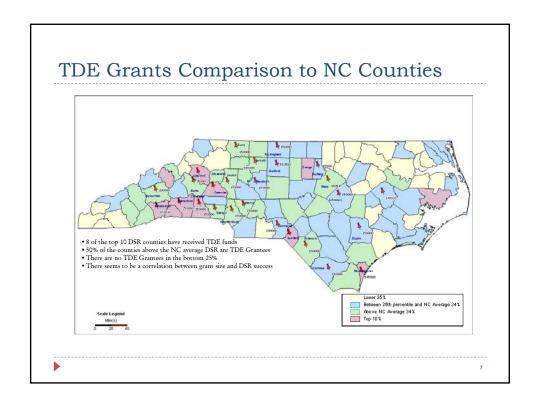
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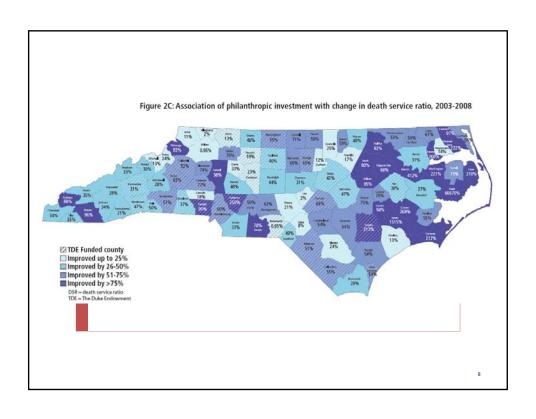
# The Duke Endowment

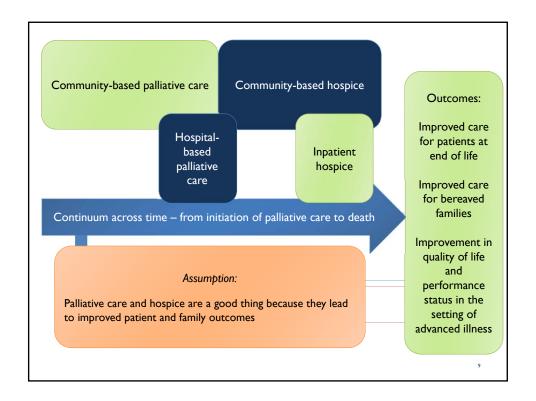
- ▶ Have invested over 9 million to hospice/palliative care in the Carolinas in the past 10 years
  - √ 3.9 million hospice inpatient units
  - √ 5.4 million in palliative care services
- Committed to quality and improving EOL care
- In NC IPU beds increased from 165 (2000) to 331 (2006)
- Invested in both inpatient and outpatient programs

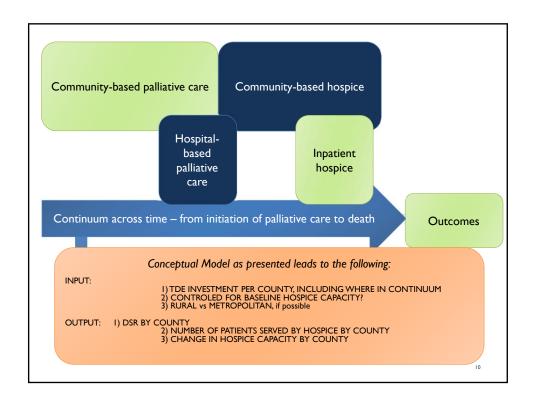
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5 = length of stay confirm	Community- based palliative care	Hospital- based palliative care	Community- based hospice	Inpatient hospice
Characteristics	Biopsychosocial whole person care; LOS generally > 60 days*; any disease; residing in the outpatient setting (nursing home, ALF, residential home or home) with caregiver or alone; primary care model requiring a lot of MD input	Focused on acute management of medical illness requiring hospilization LOS generally 3-10 days*; any disease; hospitalized/inpatient; consult service model with evidence of reduced LOS and cost to hospital	Biopsychosocial whole person care; LOS generally <20 days*; any disease; at home with caregiver; primary care model in conjunction with hospice medical director but with minimal MD input	Focused on acute management of symptoms or dying; LOS generally <5 days*; any disease; free-standing inpatient hospice unit; inpatient model with hospice medical director input as main MD (but generally midlevel provider run)
Reimbursement Model	Fee for service	Cross-subsidize from hospital revenues	Hospice Medicare-type per diem payment	Hospice Medicare-type per diem payment
Revenue model	Cost of providing care >>> reimbursement. These programs usually lose the most money	In hospitals' best interest to have pal care	If keep costs in control, revenue positive	If keep costs in control, can be revenue positive
Availability for patients	Few programs available; fewer in rural areas	Increasing rapidly across US; limited by workforce	Generally available throughout US	Expensive to establish and staff; 21% of hospice agencies operate an IPU (2008)
TDE Investment Strategy	Major investment in programs, education, and quality	Major investment in programs, education, and quality	No investment	Major investment in building and education

# Papers

- Policy issue: Does targeted investment in the missing parts of the palliative care and hospice chain improve outcomes?
- NC Issue: Can organizations like TDE make a regional difference in the state in terms of palliative care and hospice?

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#### Letter to the Editor

JPSM, published 6/11

Abernethy AP, Kassner CT, Whitten E, Bull J, Taylor DH

- Systemic Cost: From a policy standpoint, it is most important to consider hospice expenditures in the context of the "systemic cost" of end-of-life care, that is, the total cost of care from all care settings for the patient who dies on a specific service (especially important given the cross-over of patients from one setting to another, making clear distinctions of hospice and non-hospice problematic).
- Hospice Cost Savings: Aggregate cost analyses support continued and substantial Medicare spending on hospice care, both to enhance end-of-life experiences for patients and their loved ones and to make end-oflife care more affordable. Notably, a North Carolina patient receiving end-of-life care through hospice received \$11,354 less in care paid for by Medicare than did a patient receiving hospital-based care.
- Death Service Ratio: DSR offers a simple and pragmatic measure for monitoring hospice utilization, tying change in utilization to cost reduction/increase, and, with further development, monitoring quality of care, access, disparities, and performance against national benchmarks. We found that, in the 10% of counties with highest DSR compared to all counties, per patient hospice costs were higher (mean \$8,063 vs. \$7,031; difference of \$1,032) but hospital costs were lower (mean \$24,567 vs. \$27,632; difference of -\$3,065). On balance, in counties with higher use of hospice, the use of hospital care was reduced; this observation is consistent with a hypothesis that increased hospice use reduces overall Medicare costs at the end of life. Further, we found evidence that external grant funding to support the development of hospice and palliative care was related to increase in hospice use, which correlated with the cost savings observed in these counties.

# **National Statistics**

- Increased growth nationally by over 13% 2004-09
- Average DSR nationally has increased to 42%
- Total hospice deaths have increased while death rate has slowly decreased

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# Factors that Affected Growth

- National exposure
- Board specialty
- Service expanded to non cancer diagnosis
- Increase in number of providers
- Palliative Care services
- Increase in investments through
  - Inpatient units
  - Grants The Duke Endowment 12 million in the Carolinas

# Results: Carolinas and TDE

- ▶ Funded counties increase in DSR
  - NC 46.2% vs 38%
  - SC 34.8% vs 24.7
- ▶ Top 10 counties in NC (DSR>46%) 80% TDE funding
- ▶ Funding given to IPU or PC equally affected DSR
- ▶ ROI occurred in approximately 18 months

**)** 

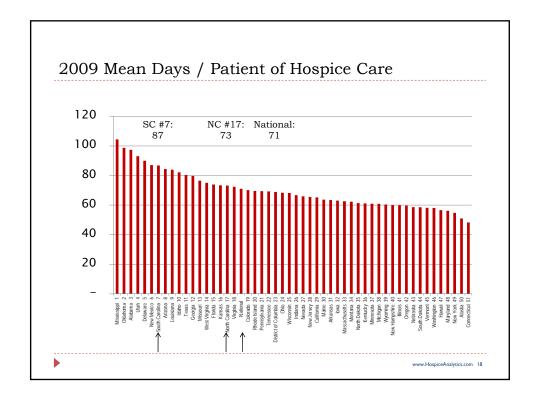
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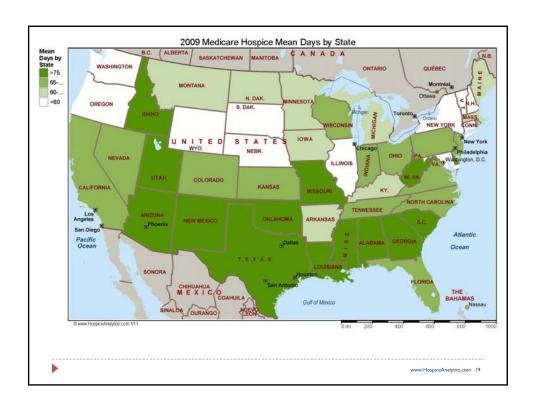
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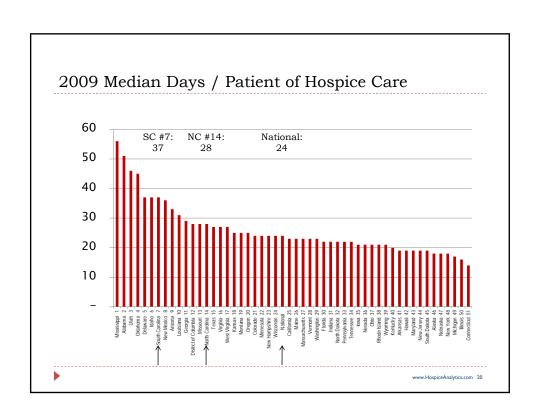
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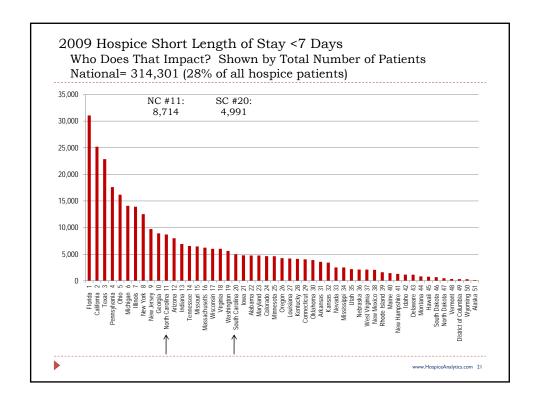
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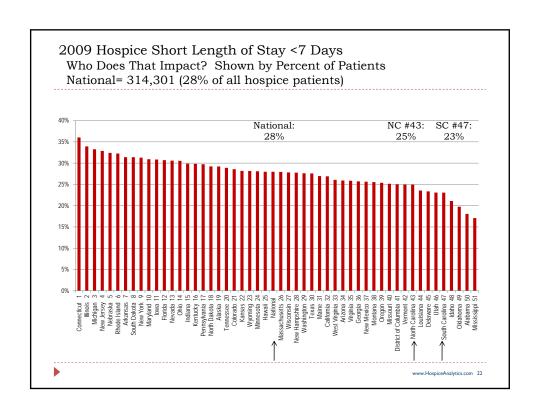
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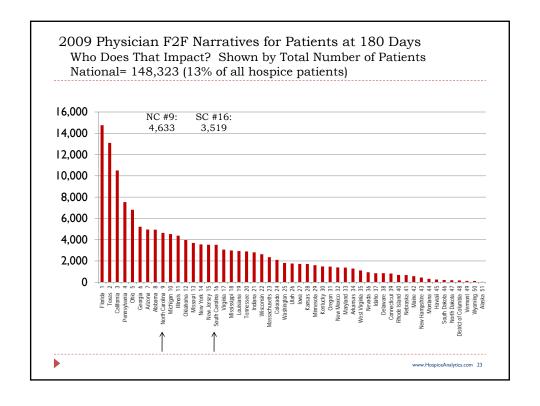


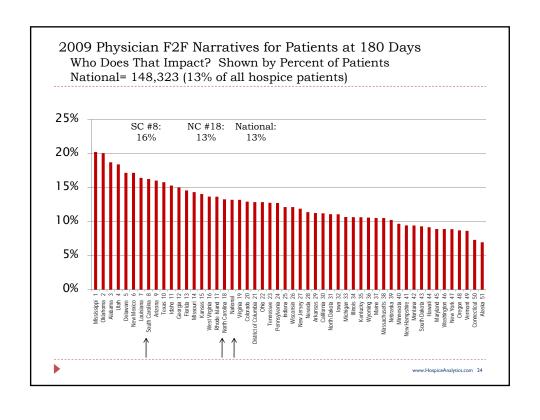


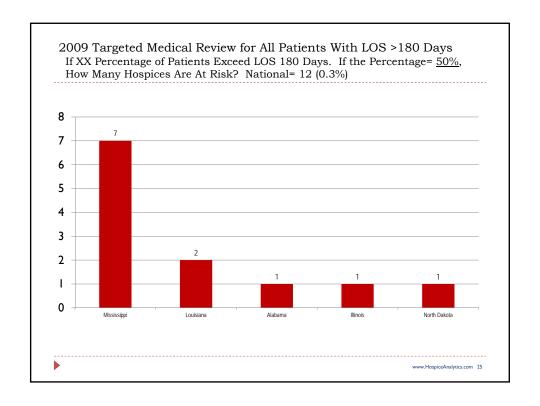


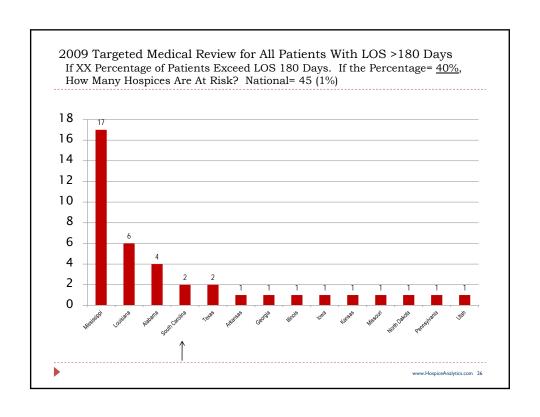


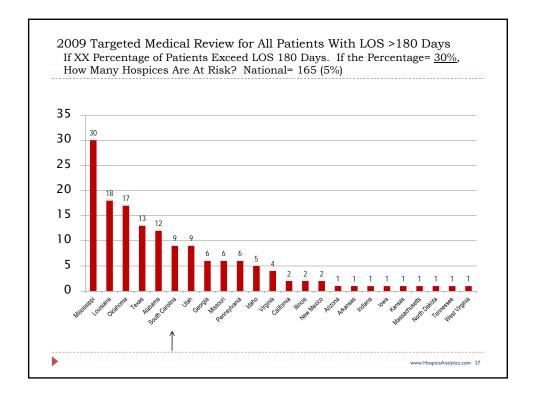


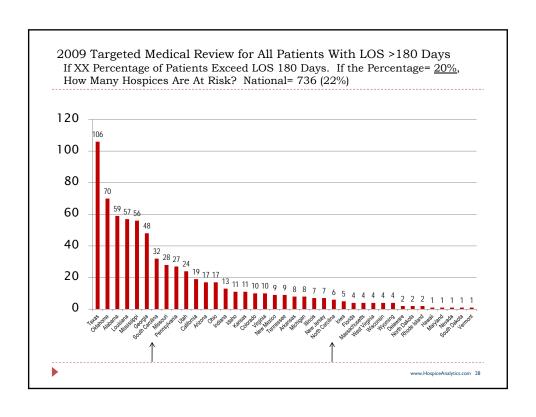




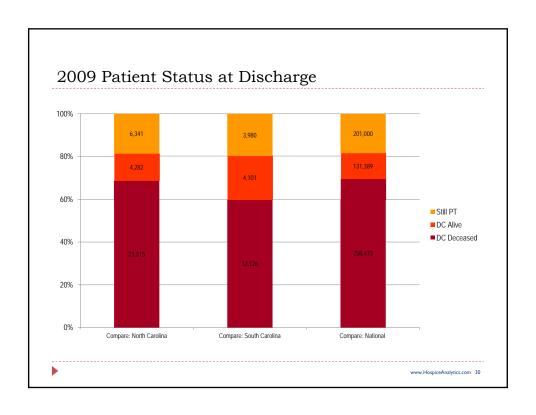


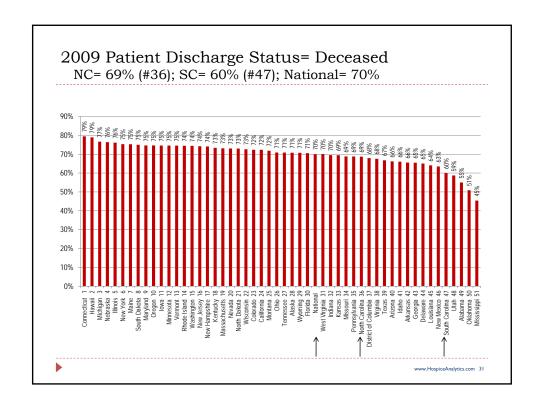


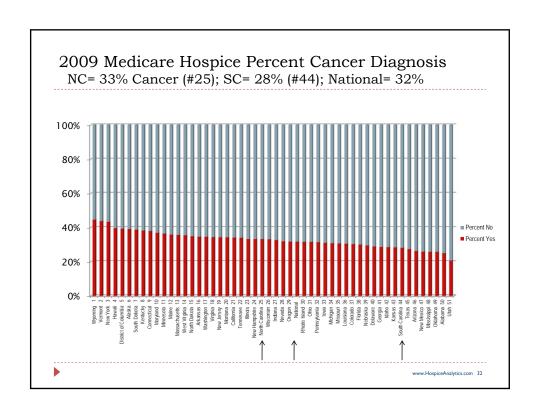


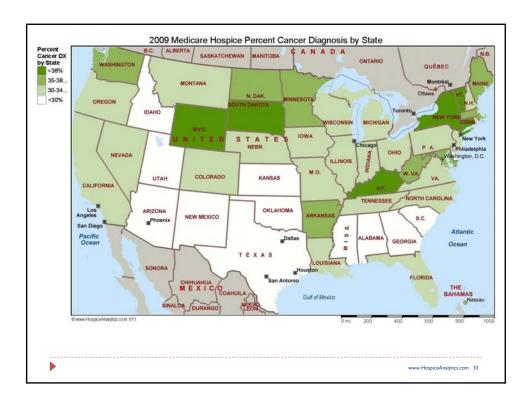


# 2009 Targeted Medical Review for All Patients With LOS >180 Which States Are NOT at Risk If the Percentage= 20%? 1. Alaska 2. Connecticut 3. District of Columbia 4. Kentucky 5. Maine 6. Minnesota 7. Montana 8. Nebraska 9. New Hampshire 10. New York 11. Oregon 12. Washington









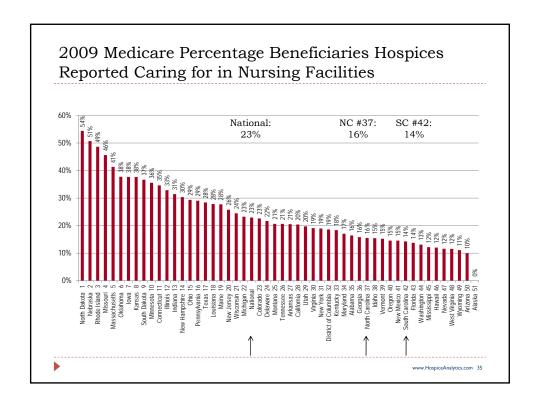
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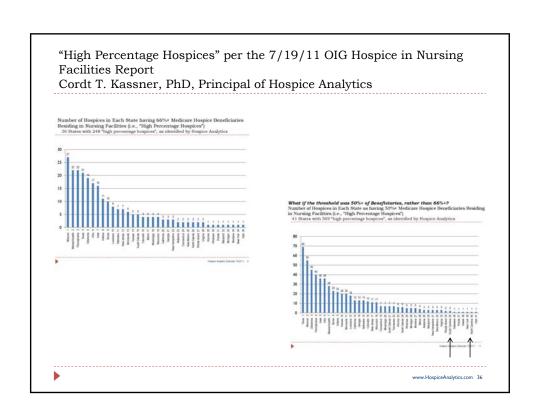
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# Palliative Care Best Practice – LTC / Hospice, 1

#### Palliative Care Best Practice - LTC / Hospice

Colorado Health Care Association/Colorado Center for Hospice & Palliative Care

#### **CHCA QIS Committee**

February 2008

RELEVANT FEDERAL AND STATE REGULATIONS	F309,310,311,312,314,315,317,318,319,320,325,327,329-regarding Quality of Care (F309-revised guidance regarding pain). F279 regarding Coordinated and Comprehensive Care Plans.
RELEVANT AHCA / CHCA	F241 and 242 regarding Quality of Life  CHCA Publications: Pathways to Excellence
STANDARDS OF CARE	AHCA Publications at: http://www.ahcancal.org/facility_operations/clinical_practice
RELEVANT NHPCO / COCHPC STANDARDS OF CARE	Hospice Care in Nursing Facilities (Volume 2, \$75.00) Publisher-NHPCO available at NHPCO Marketplace National Hospice & Palliative Care Organization Quality Partners, Appendix II Nursing Facility Hospice Care, <a href="https://www.nhpco.org">www.nhpco.org</a> .
RELEVANT JCAHO REQUIREMENTS	Provision of Care Standards; PC.5.10, PC.8.10, PC.8.70
ADDITIONAL RESOURCES	Hospice in a Skilled Nursing Facility – a model for success; <a href="http://www.dphe.state.co.us/hfddownload/hospicenh.pdf">http://www.dphe.state.co.us/hfddownload/hospicenh.pdf</a> CFMCQIO information regarding pain management:

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# Palliative Care Best Practice – LTC / Hospice, 2

PALLIATIVE CARE	Highly		
TIMELINE	Recommended	Optional	Practices
ADMISSION	X		Advance Care Planning – ranging from treatment practices to funeral services - What is in place? - CPR Directive, Living Will, MDPOA, POLST     Assessment of current medical and functional status
	×	×	Administer MDS at admission and calculate Flacker Mortality Scale from it. Administer quarterly thereafter until Flacker Scale results identify a prognosis of 12 months or less.
		x	Life review and Legacy planning discussions     Vision Mapping
QUARTERLY	X X		Re-administration of MDS and re-calculate Flacker Mortality Scale.     Review Advance Care Plan – is it still current and appropriate.
12-MONTH PROGNOSIS	×	×	Discussion with resident and family of current prognosis and goals of care     Palliative care consultation.
6-MONTH PROGNOSIS	×		Explanation of hospice, hospice services, and resident choice of services     Re-evaluate the patients understanding of the disease process, expectations, goals and values; Advance Directives (Clarify
	× × ×		preferences: hospitalization, antibiotics, IV fluids, nutrition, etc.)  3) What is Hospice Care?  4) Developing coordinated Plan of Care  5) Aggressive management of symptoms, pain, and suffering
DEATH PRACTICES	×	×	Informing residents of pending deaths and allowing them to say goodbye     Create a consistent practice done upon death – ringing a bell, etc.     Ideas and examples for death practices and memorials
BEREAVEMENT	X X X		Resident family     Resident community     LTC staff
APPENDIX			Resources for Understanding and Accommodating Religious,     Cultural, and Ethnic Variations     Resources for Conducting Difficult Conversations     Resources for Life Review, including scan of Vision Map     Resources for Palliative Care & Hospic in the Long-Term Care     Setting     Palliative and Hospice Care Resources     Hospices Providers in Colorado     Hospices by County

# Palliative Care Best Practice - LTC / Hospice, 3

- This tool is currently being updated and will be available in print and online
   October 1, 2011. For additional information, please contact:
  - ▶ Jennifer Ballentine, MA, Executive Director of the Life Quality Institute, at phone 303-398-6317 or email <a href="mailto:jballentine@lifequalityinstitute.org">jballentine@lifequalityinstitute.org</a>.
  - Web site: www.LifeQualityInstitute.org.

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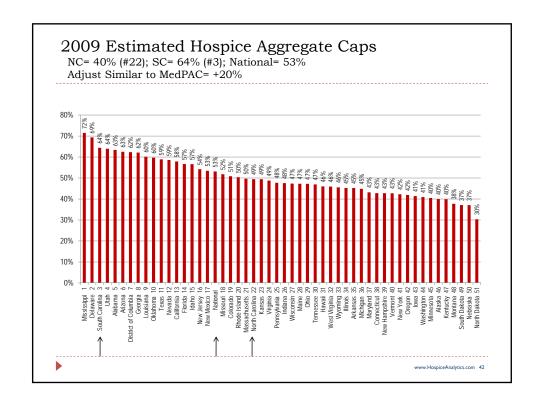
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#### 2009 Estimated Cap on Aggregate Hospice Reimbursement Should you be concerned? Yes. Operating at 106%-126% of overall cap. The Regulation Estimated Payback= \$542,117 The cap period runs from November 1st of each year through October 31st of the next year. The total payment made for services furnished to Medicare Beneficiaries during this period are compared to the "cap amount" for this period. Any payments in excess of the cap must be refunded by the hospice. **Aggregate Cap** \$9,362,194 \$10,000,000 \$8,820,077 \$8,000,000 The beneficiary must not have been counted previously in either another hospice's cap or another \$6,000,000 \$4,000,000 reporting year. The beneficiary must file an initial election during the period beginning 9/28 of the previous cay year through 9/27 of the current cap year. \$2,000,000 \$0 When a beneficiary elects to receive hospice benefits from two or more different Medicare certified hospices, proportional application of the cap amount is necessary. \$542,117 -\$2,000,000 Estimated Estimated Estimated Allowable Payment Balance Payment Medicare Claims Processing Manual; Rev. 1738; 5/15/09; p. 36. See Manual for additional detail, particularly if maximum is exceeded. • Estimated Allowable Payment= Total Patients x 2009 Cap Amount (\$23,014.50). • Estimated Payment= Total Medicare Payments. National mean hospice cap on overall hospice reimbursement percentage (estimated payment/estimated allowable payment)= 53%. www.HospiceAnalytics.com 41



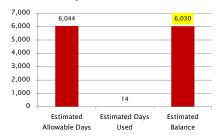
# 2009 Estimated Limitations on Payments for Inpatient Care

#### The Regulation

- During the 12-month period beginning November 1 of each year and ending October 31, the aggregate number of inpatient days (both for general inpatient care and inpatient respite care) may not exceed 20 percent of the aggregate total number of days of hospice care provided to all Medicare beneficiaries during that same period.
- Calculated by the FI as follows: The maximum allowable number of inpatient days is calculated by multiplying the total number of days of Medicare hospice care by 0.2.
- Medicare Claims Processing Manual; Rev. 1738; 5/15/09; p. 35. See Manual for additional detail, particularly if maximum is exceeded.

#### Should you be concerned? Operating at ~0% of Inpatient Limit

#### **Inpt Care Limit**



- Estimated Allowable Days= Total Days x 0.20.
- Estimated Days Used= Total GI + Respite Days.
   National mean limit on payments for inpatient care (estimated) days used / estimated allowable days)= 10%.

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#### 2009 CMS Surveys

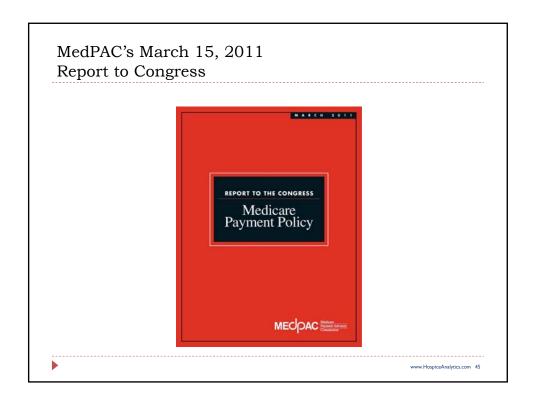
#### The Regulation

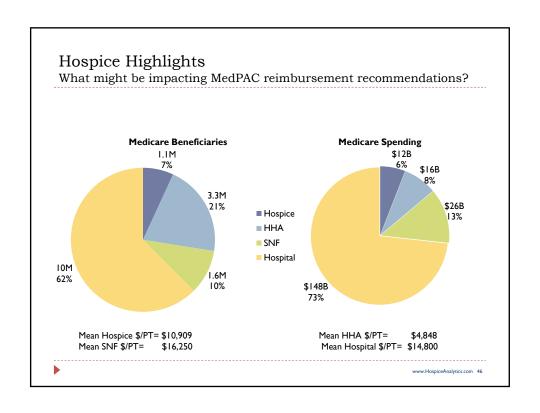
- Tier 1: Surveys occur immediately for complaints that if substantiated would result in immediate jeopardy.
- Tier 2: Surveys occur for all other complaints as prioritized; 5% targeted surveys annually.
- Tier 3: Surveys occur on 7-year interval for any one
- Tier 4: Surveys occur on **6-year average** for all providers in state (i.e., all surveys / all providers); initial Medicare Hospice Certification surveys.
- \*Note: The only exceptions to these survey dates have involved deemed status accreditation surveys. If your hospice is accredited, it is possible that your accreditation survey has been more recent than what is posted in the CMS file.

#### Should you be concerned?

You have been surveyed more recently than most other hospices in the state

As of 12/31/09	)
Initial Certification	11/30/05
Last survey date	11/30/05
Years since last survey	4.1 years
Rank: How many hospices in your state have a shorter time since last survey?	78 / 82
State average (NC) State average (SC)	3.9 years 2.1 years





# What Does MedPAC Consider?

	Hospice	Home Health	SNF	Cent Hospitals
Patients:	•ALL: Number of Patient	s, Payer, Age, Race, Gend	ler, Urban / rural	
Patients:		•Episodes / therapies	•Clinical complexity	
	•ALL: Number of Provide	ers, Nonprofit / for profit	/ gov, Urban / rural, Acc	ess to capital
Providers:	•Freestanding / HHA- based / Hospital-based / SNF-based		•Freestanding / Hospital-based	•Type of service •Employment •Teaching
C	•ALL: Total Medicare Sp	ending, Average cost / da	y, Net margins – high / le	ow
Spending:	•Aggregate cap			
Length of Stay:	•ALL: Mean, Median			
Diagnosis	•ALL: Primary Diagnosis			
Discharge disposition	•Live discharges	•Live discharges	•Community •Hospital	•Readmission rates
Quality	•NA •Growing concern regarding waste, fraud, and abuse in hospice	•Fraud and abuse challenges - temp. moratorium for new providers, suspension of payments to providers with high risk of fraud •Functional measures •Adverse events	Percent discharged to community Percent rehospitalized for any of 5 conditions "Efficient providers"	•Mortality rates •Patient safety indicators •Patient satisfaction •Readmission rates •"Efficient providers" •Value-based incentive pay

# Hospice Highlights

- I. The Congress should update the payment rates for hospice for fiscal year 2012 by 1 percent.
- The Congress should direct the Secretary to change the Medicare payment system for hospice to:
  - $\mathbb{A}$  have relatively higher payments per day at the beginning of the episode and relatively lower payments per day as the length of the episode increases,
  - B. include a relatively higher payment for the costs associated with patient death at the end of the episode, and
  - $\,$  C.  $\,$  implement the payment system changes in 2013, with a brief transitional period.
  - D. These payment system changes should be implemented in a budget neutral manner in the first year. (First recommended in March 2009)
- 3. The Secretary should direct the HHS Office of Inspector General to investigate:  $\frac{1}{2}$ 
  - A the prevalence of financial relationships between hospices and long-term care facilities such as nursing facilities and assisted living facilities that may represent a conflict of interest and influence admissions to hospice,
  - $\ensuremath{\mathtt{B}}.$  differences in patterns of nursing home referrals to hospice,
  - the appropriateness of enrollment practices for hospices with unusual utilization patterns (e.g., high frequency of very long stays, very short stays, or enrollment of patients discharged from other hospices), and
  - the appropriateness of hospice marketing materials and other admissions practices and potential correlations between length of stay and deficiencies in marketing or admissions practices. (First recommended in March 2009)

# Hospice Highlights

I. The Congress should update the payment rates for hospice for fiscal year 2012 by 1 percent.

#### Historical Trend:

	MedPAC Recommendation	Market Basket Adjustment
2012	+1%	+2.5%
2011	+2.6%	+2.6%
2010	NA	+2.1%
2009	NA	+3.6%
2008	NA	+3.3%
2007	NA	+3.4%
2006	NA	+3.7%
2005	NA	+3.3%

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# Hospice Highlights

MedPAC reimbursement recommendations for other industries:

	Hospice	Home Health	SNF	Hospital
2012	+1%	0%	0%	+1%
2011	+2.6%	0%	0%	+2.4%
2010	NA	0%	0%	2.7%
2009	NA	0%	0%	3.0%

Note: Per 8/4/11 CMS Provider e-news:

On Fri July 29, CMS today announced a final rule reducing Medicare skilled nursing facility (SNF) Prospective Payment System (PPS) payments in FY2012 by \$3.87 billion, 11.1 percent lower than payments for FY2011. The FY2012 rates correct for an unintended spike in payment levels and better align Medicare payments with costs.

"CMS is committed to providing high quality care to those in skilled nursing facilities and to pay those facilities properly for that care," said CMS Administrator Donald M Berwick, MD. "The adjustments to the payment rates for next year reflect that policy."

# Hospice Highlights

What might be impacting MedPAC reimbursement recommendations?

#### Net Margins:

	Hospice	Home Health	SNF	Hospital
2009	NA	17.7%	18.1%	-5.2%
2008	5.1%	17.0%	16.6%	-7.1%
2007	5.8%	16.5%	14.7%	-6.0%
2006	6.4%	15.9%	13.3%	-4.7%
2005	4.6%	17.3%	13.0%	-3.1%

 $^{\ast}$  MedPAC has commented that 10%+ net margins are too high

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# Hospice Highlights

#### Hospice Net Margins:

	2008 Net Margin
All	5.1%
Freestanding	8.0%
Home health based	2.7%
Hospital based	-12.2%
For profit (all)	10.0%
For profit (freestanding)	11.3%
Nonprofit (all)	0.2%
Nonprofit (freestanding)	3.2%
Urban	5.6%
Rural	1.3%
Below cap	5.5%
Above cap (excluding cap overpayments)	1.0%
Above cap (including cap overpayments)	19%

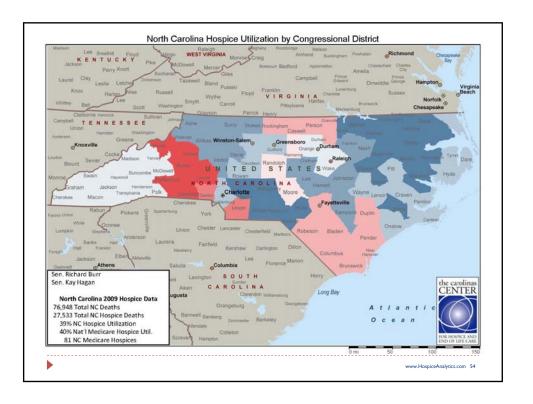
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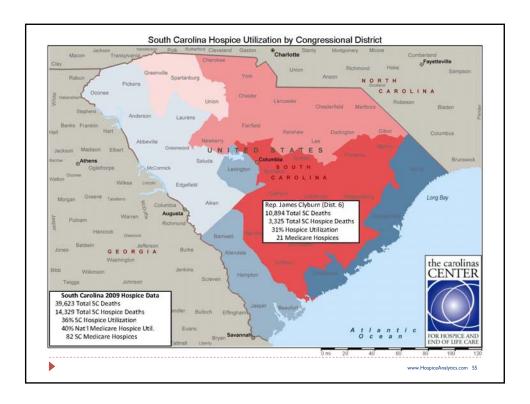
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# Summary of MedPAC's March 2011 Report to Congress

Key Points	Findings / Recommendations
MedPAC is an independent Congressional agency established to advise the U.S. Congress on issues affecting the Medicare program. MedPAC is also tasked with analyzing access to care, quality of care, and other issues affecting Medicare.	MedPAC is analyzing hospice and trying to develop a reimbursement model intending to increase access to hospice care, improve the quality of hospice care, and to reduce waste, fraud, and abuse within the Medicare Hospice Benefit.
The growth of hospice – now exceeding \$10B.	Annual review of hospice and inclusion in March Congressional Reports.
The numbers of hospice patients, length of stay, and providers are all growing.	This suggests growing awareness of hospice services, although length of stay has increased almost exclusively among those with long LOS, and new providers are almost exclusively for profit providers.
Limited data to assess the quality of hospice care.	The PPACA of 2010 mandates that CMS publish quality measure in 2012 and hospices will be required to report quality data in FY2014.
Hospice net margins are increasing, although there is significant variance between provider types.	Hospice mean net margin= 5.1%; although nonprofits= 0.2% and for profits= 10.0%.

# What Is The U-Shaped Curve Intended To Do?

#### MedPAC's 3/11 Report to Congress

#### **Recommendation / U-Shaped Curve**

Compared with the current hospice payment system, this payment model would:

I. Result in a much stronger relationship between Medicare payments and hospices' level of effort in providing care throughout an episode,

2. Promote stays of a length consistent with hospice 2. What exactly does this mean...? as an end-of-life benefit.

Intuitively it makes sense that more intensive hospice services would be provided on admission and death, and this is consistent with some preliminary data provided to MedPAC. However, NHPCO has conducted a study that suggests relatively stable amounts of hospice services provided across the admission - perhaps like an ICU. So we don't know...

# What Is The U-Shaped Curve Intended To Do?

analyzing Medicare services and making reimbursement recommendations to the mission, purpose, and integrity of the Medicare Hospice Benefit.  Medicare Hospice Benefit.  Medicare Hospice Benefit.  Increased spending due to increased beneficiaries serve although minorities and those in rural areas receive less hospice, and there is an increase in non-cancer diagnos.  Nearly all LOS change has been among for-profits.  Nearly all LOS change has been in the 4th quartile (75% increasing numbers of hospices exceeding caps.).	MedPAC's 3/11 Report to Congress	Recommendation / U-Shaped Curve
	analyzing Medicare services and making reimbursement recommendations to the mission, purpose, and integrity of the	<ul> <li>Increased spending due to increased beneficiaries served, although minorities and those in rural areas receive less hospice, and there is an increase in non-cancer diagnoses.</li> <li>Nearly all provider growth has been among for-profits.</li> <li>Nearly all LOS change has been in the 4th quartile (75%+).</li> <li>Increasing numbers of hospices exceeding caps.</li> <li>Increasing numbers of beneficiaries discharged alive.</li> <li>Hospice net margins have remained fairly stable between 2002-2008, with the greatest difference between nonprofit</li> </ul>

#### Reimbursement Methodologies

- ▶ Flat reimbursement cuts (i.e., cuts applied evenly across all hospices) hurt those with the smallest net margins the fastest and hardest.
  - Eliminating the Budget Neutrality Adjustment Factor and imposing Productivity Factor Cuts are flat cuts with tremendous negative impact on all hospices. NHPCO released a study in March 2011 projecting median hospice profit margins will decrease 10% or more by 2019, and that 60%+ of hospices will have negative profit margins by 2019.
  - Community Hospice Partnership conducted a similar study last year and had similar findings. CHP projects the impact of these cuts will quickly close nonprofit and rural hospices (i.e., those with the smallest margins).
- Alternatives to flat reimbursement cuts may help or they may not.
  - MedPAC's proposed U-Shaped Curve is an alternative to flat reimbursement cuts, but will it help protect the most vulnerable hospices?

# Testing the Impact of Various U-Shaped Curves in Hospice Reimbursement

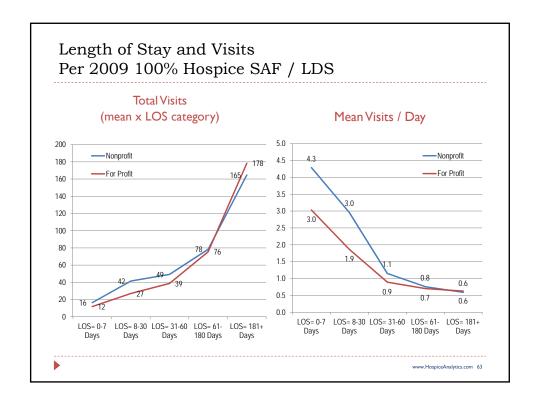
Criteria	All Hospices	Nonprofit	For-profit	Urban	Rural
RHC Baseline Revenue	100.0%	100.0%	100.0%	100.0%	100.0%
5% and 30 Days*	98.5%	98.8%	98.2%	98.5%	98.4%
10% and 30 Days	97.0%	97.6%	96.3%	97.0%	96.7%
5% and 14 Days	97.1%	97.3%	96.8%	97.1%	97.0%
5% and 7 Days	96.2%	96.4%	96.0%	96.2%	96.1%
10% and 14 Days	94.1%	94.6%	93.6%	94.1%	93.9%
25% and 30 Days	92.4%	94.0%	90.8%	92.5%	91.8%
10% and 7 Days	92.4%	92.7%	92.1%	92.4%	92.3%
25% and 14 Days	85.3%	86.5%	84.1%	85.4%	84.8%
25% and 7 Days	81.0%	81.8%	80.2%	81.1%	80.7%
Mean of all 9 models	92.7%	93.3%	92.0%	92.7%	92.4%

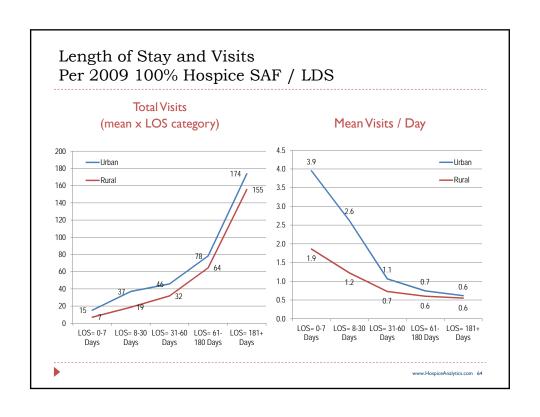
\*For example, "5% and 30 Days" means: Reimbursing 105% of current RHC per diem for the first 30 days, followed by 95% for the remainder of days, with an increase to 105% for the last 30 days if the beneficiary dies. This model results in all hospices being reimbursed 98.5% of the current per diem rate.

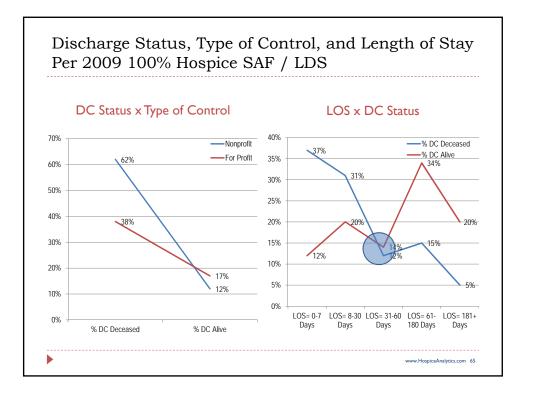
Conclusion: The impact of these 9 models has very little variation across different hospice provider groups - therefore the overall impact of these models is more like a flat reimbursement cut.

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#### Length of Stay and Visits Per 2009 100% Hospice SAF / LDS **Total Visits** (mean x LOS category) Mean Visits / Day 4.5 DC Deceased 4.0 160 DC Alive -% DC Alive 3.5 140 3.0 120 2.5 100 2.0 1.5 60 1.0 40 20 0.0 LOS= 0-7 LOS= 8-30 LOS= 31-60 LOS= 61- LOS= 181+ LOS= 0-7 LOS= 8-30 LOS= 31-60 LOS= 61- LOS= 181+ Days 180 Days Days Days 180 Days www.HospiceAnalytics.com 62







# Conclusions Based on Preliminary Analysis

- ▶ MedPAC is correct the hospice industry is changing.
- How do we support increasing access to quality hospice service, while decreasing the potential for waste, fraud, and abuse?
- ► Flat reimbursement cuts devastate hospice providers with small net margins i.e., nonprofit and rural providers.

#### Conclusions Based on Preliminary Analysis

#### Does the U-Shaped Curve Work?

- While intuition suggests it might support quality hospice services and decrease the potential for WFA, preliminary data analysis suggests there is little differentiation between provider groups, suggesting it might not.
- ▶ Testing various shaped curves indicates the most vulnerable hospice providers would be hurt least by a wide / flat U-shape — although the impact is much like a flat reimbursement cut.

#### **New Questions...**

- Does the current hospice reimbursement via per diem work? Preliminary analysis suggests it does, although some regulatory changes (and perhaps statutory changes) need to be implemented to address MedPAC concerns.
- Does a U-Shaped hospice reimbursement curve alleviate MedPAC's concerns (e.g., cap excesses, live discharges, net revenues, etc.)? Preliminary analysis suggests it does not.

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#### Conclusions Based on Preliminary Analysis

# If the hospice per diem is maintained, what alternatives might help address MedPAC concerns?

- Clarify hospice cap definitions, strengthen CMS' right to recover excess payments, and *reduce* the aggregate hospice cap.
- ▶ Eliminate flat hospice reimbursement cuts (e.g., productivity factor).
- Place a temporary moratorium on new hospices.
- Hold hospices accountable for meeting statutory volunteer requirements.

# Conclusions Based on Preliminary Analysis – Additional Thoughts

# If the hospice per diem is maintained, what alternatives might help address MedPAC concerns?

- Increase appropriate hospice admissions by implementing clearer admission criteria guidelines particularly regarding non-cancer diagnoses.
- Decrease the number of beneficiaries discharged alive. Review eligibility criteria more carefully at 30 days (where 70% of those who will die have died, and 70% of those who will be discharged alive are still on service).
- ▶ Longer hospice lengths of stay are not problematic and in fact might be encouraged to maximize positive impact of hospice services (~60 days; compared to current median LOS= 24 days).
- Consider calculating hospice caps more frequently.

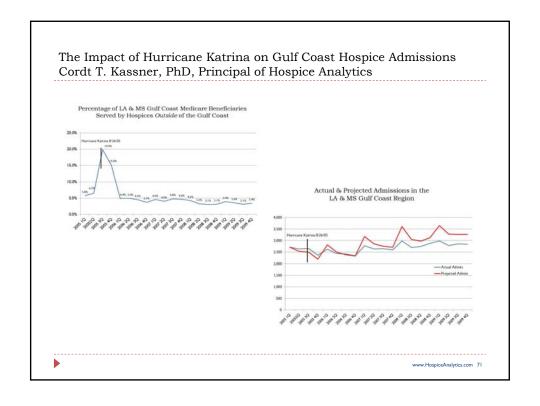
#### Presentation Outline

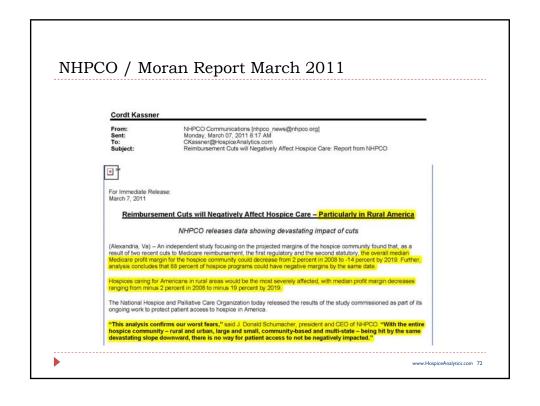
#### Part I:

- In the Beginning... Early Questions & Answers
- 2. Data Available
- 3. Data Applications for Hospice Administrators

#### Part II:

- Death Service Ratio
- 2. Length of Service
- 3. Hospice in Nursing Facilities
- 4. Hospice Caps
- 5. Data Driven Advocacy
- 6. U-Shaped Curves
- 7. Disaster Preparedness & Misc.





# NHPCO / Moran Report March 2011

- Report issued 3/7/11
  - > 2-page press release
  - 2-page summary
  - ▶ 6-page complete report
- Updated 3/17/11
  - 2-page press release
  - 2-page summary
  - ▶ 13-page complete report

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#### NHPCO / Moran Report March 2011

#### 3/7/11 Methods

Projected hospice profit margins from 2009-2019 using Hospice Cost Reports (for costs) and Hospice Claims (for revenues)

Hospices were classified as urban (<50% of services provided to patients living in rural settings) or rural (50%+)

Data cleaning reduced total hospices by 32% (from 3,756 to 2,539)

#### $Reimbur sement\ factors:$

- Market Basket 2009-2019: +2.4% annually (+2.6% in 2010)
- BNAF 2009-2015: -0.4% annually (-0.3% in 2009)
- Productivity Factor 2012-2019: -1.6% annually

#### 3/7/11 Results

Medicare Hospice median profit margins for all hospices could decrease from 2% in 2008 to (-14%) in 2019. Urban Hospice: 3% to (-13%). Rural Hospice: (-2%) to (-19%)

The percent of hospices with negative profit margins could increase from 76% in 2008 to 88% in 2019. Urban Hospice: ??. Rural Hospice: 80% to 91%

# NHPCO / Moran Report March 2011

Major Conclusions From These Reports:

# ▶ OMG!!!

- Median hospice profit margins <(-10%) by 2019
- >60% of hospices with negative profit margins by 2019
- What's driving this?
  - Productivity Factor Adjustments account for -13% revenue between 2012-2019
  - ▶ BNAF accounts for -3% revenue between 2009-2015
  - Market basket increases projected for 2.4% annually, but may not be that high
  - Note that all of these methods are "flat cuts" across the industry so those with already low profit
    margins are hit hardest.
- What can be done?
  - Advocate specifically against productivity factor adjustments and other "flat cuts"
  - Educate this is catastrophic, and your hospice members need to know and prepare for it

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#### Palliative Care

- Palliative Care was approved as a medical subspecialty 10/6/06
- Several interesting palliative care studies have recently been released, including (per PalliMed blog):
  - Hospitals increasingly offer palliative care Washington Post
  - Critical (Re)thinking: How ICU's are getting a much-needed makeover Wall Street Journal
  - Special needs, Special care (Pediatric Palliative Care) Boston Globe
  - Many doctors still focus more on cure than managing pain NPR
  - Hit by the reality of cancer treatment NYT Well Blog
- We're seeing that, like hospice, palliative care:
  - Increases quality of care
  - Reduces suffering
  - Costs less
  - Improves patient transitions between providers
  - ▶ Is growing fast

#### Palliative Care

- However, nearly all palliative care studies have small samples e.g., "at my hospital", or perhaps with a small number of providers.
- Enter CMS billing code V66.7:
  - "Encounter for palliative care." Subheadings include "end-of-life care," "hospice care" and "terminal care"
  - > V66.7 is always a secondary diagnosis with the underlying disease coded first.
  - > V66.7 is not tied to reimbursement of any kind. Physicians generally bill under counseling time.
- V66.7 became effective 10/1/96

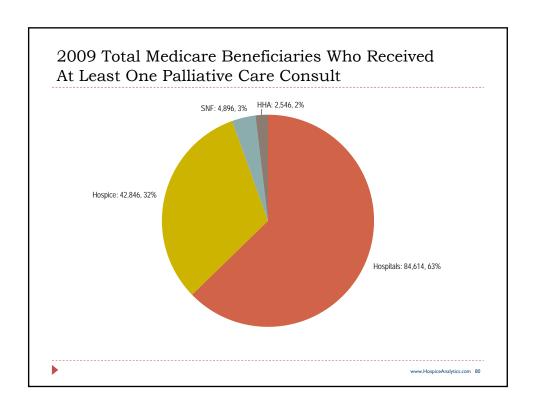
#### Palliative Care

- V66.7 Strengths:
  - The only palliative care billing code able to be used to easily and consistently track palliative care consults, outcomes, and costs.
  - The palliative care community has been encouraging the use of this code for years, particularly in the late 1990's.
  - Some hospitals (e.g., University of Colorado Hospital) have implemented an automatic process to include V66.7 on all palliative care consultations.
- V66.7 Weaknesses:
  - There is no detailed definition of when V66.7 can be used or shouldn't be.
  - The code isn't used consistently.
    - > Sometimes "legitimate" palliative care consults do not include the V66.7 code on claims.
    - ${\color{blue} \mathsf{Sometimes\,"illegitimate"\,non-palliative\,care\,services\,include\,the\,V66.7\,code\,on\,\,claims.}}$ 
      - $\hfill\Box$  Radiation oncology might use this code as V66.7 is an exclusion criteria for some hospital mortality calculations.
      - $\hfill\square$  Home based primary care programs may use this code (unsure why).
  - Some billing software may include only the first 4-5 (out of 10) diagnosis fields, so if V66.7 is used in a later field it may be inadvertently dropped.

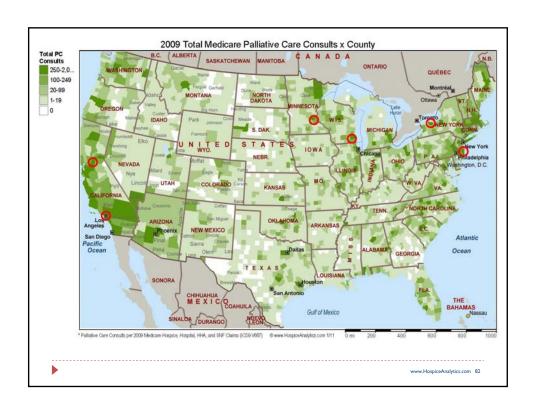
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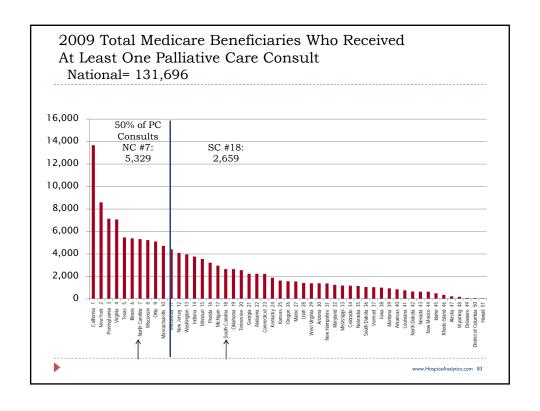
#### Palliative Care

- Conclusions:
  - 1. At this point we cannot verify the reliability of V66.7, so results must remain in this context.
  - However, the vast majority of providers would have no use in using a V-Code for "Encounter for Palliative Care".
  - 3. Let's look at the data and see if there might be benefit for the palliative care field.



#### Palliative Care How often is V66.7 used? 2009 # PC Consults # Died (%) Medicare Total 131,696 134,904 110,512 (84%) 58,956 (45%) 40,661 (30%) 5,219 5,329 4,205 (81%) 1,517 (36%) 2,456 (58%) North Carolina South Carolina 2,614 2,659 2,169 (83%) 613 (28%) 1,407 (65%) Where was V66.7 used? 2009 # Hospice (%) # SNF (%) # HHA (%) 4,896 (4%) 2,549 (2%) Medicare Total 84,614 (63%) 42,845 (32%) 3,186 (60%) 2,002 (38%) 97 (2%) 44 (1%) 1,298 (49%) 1,310 (49%) 48 (2%) \* (\*%) South Carolina \* Indicates CMS protected fields where cell size < I I

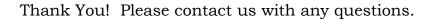




# 2009 Total Medicare Beneficiaries Who Received At Least One Palliative Care Consult

Provider Type	PC Consults	PC Benes Who Died	PC Benes Admitted to Hospice	Setting Where PC Benes Died
Hospices	42,846	33,100 (77%)	42,846 (100%)	30,686 Hospice (93%) 2,414W/O Hospice (7%)
Hospitals	84,614	74,475 (88%)	35,605 42% of PC Consults	27,123 Hospice Alone (36%) 39,001 Hospital Alone (52%) 1,132 Both (2%) 7,219 Neither (10%)
Skilled Nursing Facilities	4,896	4,119 (84%)	1,490 30% of PC Consults	868 Hospice Alone (21%) 2,776 SNF Alone (67%) I 19 Both (3%) 356 Neither (9%)
Home Health Agencies	2,546	1,586 (62%)	I,079 42% of PC Consults	789 Hospice Alone (50%) 336 HHA Alone (21%) * Both (*%) 454 Neither (29%)
Total	134,902	113,280 (84%)	81,020 60% of PC Consults	60,724 (54%) With Hospice 52,556 (46%) W/O Hospice

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Care Flanders. 2010. Palliative sedation guideline. [in Dutch]. Available from http://www.pallialine.be/template.asp?f=rl\_sedatie.htm#page=page-1. Accessed March 29, 2011.

# Death Service Ratio: A Measure of Hospice Utilization and Cost Impact

To the Editor:

In October 2007, Taylor et al. published compelling data showing that use of hospice care reduces United States Medicare expenditures at the end of life. In a case-control study of a sample of Medicare decedents (1993-2003), the authors compared 1819 hospice decedents with 3638 matched controls. Hospice use reduced Medicare program expenditures after the initiation of hospice by an average of \$2309 per hospice user (\$7318 for hospice users vs. \$9627 for controls; P < 0.001). For cancer, maximum savings of \$7000 occurred with a length of stay (LOS) in hospice between 60 and 100 days; for other primary conditions, maximum savings of \$3500 occurred with a LOS of 50–110 days. Thus, cost savings were maximized with much longer periods of hospice use than is common among Medicare beneficiaries (median LOS of 16 days in not-for-profit, and 20 days in for-profit hospices).<sup>2</sup>

Examining Medicare expenditures in North Carolina for patients receiving hospice care vs. not served by hospice, we have obtained results that are consistent in showing that hospice use appears to lessen overall health care spending near the end of life. We acknowledge that these are preliminary analyses; we did not match hospice decedents with those nonhospice decedents who are most similar, as our goal here was to simply describe unadjusted Medicare cost differences in North Carolina. Likewise, a limitation of this initial exploration is that our analyses included only patients who died; we did not examine costs incurred by hospice patients who did not die.

Using 2008 data from the Centers for Medicare and Medicaid Services (CMS) Standard Analytic Files, Limited Data Sets for Hospice, Hospitals, Home Health Agencies, and Skilled Nursing Facilities (SNFs), we compared total

Medicare expenditures for all Medicare beneficiaries who died under the care of one of these provider types. In North Carolina, average costs to Medicare for patients who died with a history of the following types of service use were hospice, \$19,249; home health agency, \$19,810; SNF, \$25,842; hospital, \$30,603; and multiple settings, \$30,732 vs. not receiving care from any service, \$6853. Notably, a North Carolina patient receiving end-of-life care through hospice received \$11,354 less in care paid for by Medicare than did a patient receiving hospital-based care.

Clearly, hospice utilization exerts a strong force on health care system costs. How can we examine and monitor hospice utilization and impact? We propose "death service ratio" (DSR) as a simple measure of hospice use for this purpose. Calculated as a percentage—the numerator being deaths in a defined area or population served by hospice and the denominator being all deaths in that area/population—DSR serves as an indicator of hospice utilization in a region and, therefore, as an indirect indicator for impact of hospice on health care costs. We explicitly acknowledge that DSR is a crude indicator, as it does not accommodate for hospice LOS, patient complexity, or other important factors; but, in its simplicity, DSR allows regional monitoring of hospice utilization that can be linked to health system costs.

Using DSR as a primary measure, we recently completed a study of the impact of philanthropic funding for hospice services on hospice utilization and costs. In North Carolina counties receiving grants for hospice development through a large foundation (The Duke Endowment, Charlotte, NC), the DSR was 40% as compared with that of 30% in counties not funded by the foundation. Here, DSR was calculated as the number of Medicare beneficiaries in North Carolina who died under hospice care (numerator) over the total number of Medicare beneficiary deaths in North Carolina (denominator). Calculation of the DSR allowed for informative comparisons across service areas. Per patient hospital costs were similar between grantfunded and unfunded counties (\$30,822 vs. \$30,375; difference of \$447). Per patient hospice rates were also similar (\$19,258 vs. \$19,234; difference of \$24). However, looking more closely at the highest DSR counties, we found that, in the 10% of counties with highest DSR compared with all counties, per patient hospice costs were higher (mean \$8063 vs. \$7031; difference of \$1032) but hospital costs were lower (mean \$24,567 vs. \$27,632; difference of -\$3065). On balance, in counties with higher use of hospice, the use of hospital care was reduced; this observation is consistent with a hypothesis that increased hospice use reduces overall Medicare costs at the end of life. Further, we found evidence that external grant funding to support the development of hospice and palliative care was related to increase in hospice use, which correlated with the cost savings observed in these counties.

These analyses demonstrate that DSR can serve as a useful marker of hospice utilization and financial impact at the local level, leading to valuable insights about the relationship between use and costs within a regional population. We are currently examining DSR by county in North Carolina to understand trends in care, distribution of available services (including hospice and palliative care), and impact of bridging community-based palliative care programs; results will likely be useful for workforce planning.

As a measure, DSR could be further developed as an indicator of access and impact, but certain steps must first be taken. These include exploration of the relationship between change in DSR and change in quality of care; determination of whether or not results generated in North Carolina are generalizable to other areas of the United States or the country as a whole; development of quality-of-care benchmarks followed by studies exploring methods for improving performance against those benchmarks; and standardization of what is encompassed by "hospice" care, as well as by its overarching discipline, "palliative care," to enable cleaner analyses.

From a policy standpoint, it is most important to consider hospice expenditures in the context of the "systemic cost" of end-of-life care, that is, the total cost of care from all care settings for the patient who dies on a specific service (especially important given the crossover of patients from one setting to another, making clear distinctions of hospice and nonhospice problematic). Hospice comprises only a fraction of total

Medicare costs; as a proportion of total Medicare expenditures in 2008, hospice accounted for 8% (\$11.1 billion), hospitals for 71% (\$113 billion), and SNFs for 13% (\$23 billion). Aggregate cost analyses support continued and substantial Medicare spending on hospice care, both to enhance end-of-life experiences for patients and their loved ones and make end-of-life care more affordable. DSR offers a simple and pragmatic measure for monitoring hospice utilization, tying change in utilization to cost reduction/increase, and, with further development, monitoring quality of care, access, disparities, and performance against national benchmarks. With this motivation, we plan to further study and strengthen DSR as a measure.

#### Acknowledgment

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