



Utilizing Validated Tools for Evaluating Hospice and Palliative Care Eligibility

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Ohio's Hospice

Today's Presenters

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Objectives

- Describe Medicare Guidelines for Hospice Eligibility in common non-cancer diagnoses
- Describe the use of validated tools and scales for prognostication in patients with advanced non-malignant disorders

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A 6-month prognosis for hospice? Whose idea was this??

- Hospice all volunteer organization until 1984
- Hospice Benefit 1984 brought reimbursement and regulation Medicare <u>Conditions of Participation</u>- the "COPS"
- 1984 COPS Eligible patients must have a prognosis of "6 months or less if the disease follows it normal course".

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Hospice developed around a Cancer Model

- Prognostication of 6 months was simple: - Few disease modifying treatments for cancer
 - Patients with advanced cancer expected to die within months.

Non cancer diseases:

- 1990's- value of hospice care for patients with non-cancer diagnoses, but how to determine life expectancy??
- 1995-1996, National Hospice Organization, (now NHPCO), consensus groups developed:

<u>Medical Guidelines for Determining Prognosis in Selected</u> <u>non-Cancer diagnoses</u>

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<u>Medical Guidelines for Determining Prognosis in</u> <u>Selected non-Cancer diagnoses</u>

- Guidelines adapted by HCFA (now CMS) as policies for hospice reimbursement
- Formed the basis for the Local Coverage Determinations (LCDs) utilized by Medicare Administrative contractors (MACs) to determine payment

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Local Coverage Determinations LCD's for Palmetto The Medicare Administrative Contractor for Ohio

<u>https://www.cms.gov/medicare-coverage-database/indexes/lcd-list.aspx?Cntrctr=373&ContrVer=1&CntrctrSelected=373</u>

CMS.gov





Medical Guidelines for Determining Prognosis

- No validated evidence that the Guidelines are sensitive or specific predictors of a prognosis of 6 months in individual cases.
- Hospice organizations opposed the "guidelines" as criteria for hospice admission.
- Guidelines very helpful in bringing specialists "on board".

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Benefits and Burdens: Medical Guidelines for Determining Prognosis?

- Provide a wide umbrella of potential eligibility for evaluation of patients for hospice
- Help assure that patients with non-cancer diagnoses have opportunity to receive hospice care by giving non-hospice professionals a tool to screen patients for referral
- Can potentially deny access if used too vigorously in chronic non-cancer diagnoses without considering co-morbidities and evidence of constitutional decline Control of the constitutional decline Control of the constitutional decline Control of the constitutional decline

Medical Guidelines for Determining Prognosis

- If guidelines are met, hospice gets paid. If not, hospice can still get paid, but must provide additional evidence of a 6-month prognosis.
- The real work of determining eligibility rests on the hospice staff!!!

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-The Hospice Medical Director's Manual

3rd Edition, 2016

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Validated Tools

- Minimum Data Set/ Mortality Risk Score
- Palliative Performance Scale
- The "AHA" question:
 - "Would you be surprised if your patient died in the next 6 months?? In the next year??"

Minimum Data Set /Mortality Risk Indicator MMRI

- Predicts 6 month mortality for nursing home residents with advanced dementia.
- 12 data points indicating EOL changes are given points and the points added up.
- 63% patients with a risk score of 9 or greater will die within 6 month
- However, 26% of patients with a lower score will also die within 6 months

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Minimum Data Set

The MDS has the potential to help professionals in long-term care to identify patients at increased risk of demise based on data with life limiting implications, such as difficulty swallowing, weight loss, and comorbidities - like heart failure.



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Palliative Performance Scale PPS

 Performance status is an important predictor of survival in non-cancer patients

- Declining performance status is a strong criteria for hospice eligibility
- Few non-cancer diagnoses patients are admitted to hospice with a PPS > 50%
- Other performance scales: Karnofsky, ECOG

Livel					
300%	Full	Normal activity/work No evidence of disease	Full	Normal	Full
90%	Full	Normal activity/work Some evidence of disease	Full	Normal	Full
80%	Full	Normal activity/work Some evidence of disease	Full	Normal or reduced	Full
70%	Reduced	Unable normal job/work Significant disease	Full	Normal or reduced	Full
60%	Reduced	Unable hobby/housework Significant disease	Occasional Assistance necessary	Normal or reduced	Full or Confus
50%	Mainly sit/lie	Linable to do any work Extensive disease	Considerable Assistance required	Normal or reduced	Full or Confus
40%	Mainly in bed	Unable to do most activity/ Extensive disease	Mainly assistance	Normal or reduced	Full or Drow +/- Confusio
30%	Totally Bed Bound	Unable to do any activity Extensive disease	Total Care	Normal or reduced	Full or Drown +/- Confusio
20%	Totally Bed Bound	Unable to do any activity Extensive disease	Total Care	Minimal to sips	Drowsy or Cor +/- Confusio
10%	Totally Bed Bound	Unable to do any activity Extensive disease	Total Care	Mouth care only	Full or Drow +/- Confusio
0%	Death	· · · · · · · · · · · · · · · · · · ·	· · · · · ·		×



Going Beyond Diagnosis:

- Dr. Feliciano, Medical Director of the Palmetto MAC that serves Ohio
 - Identify decline in the domains of:
 - behavior
 - nutrition
 - cognition
 - function

Dr Feliciano – our hero

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The skill set for identifying patients for hospice:

• Understanding the effects of environment, social support systems, access to care on the individual patient, and utilizing the International Classification of Function (ICF) as well as the ICD10.

Dr Feliciano – our hero



The skill set for identifying patients for hospice:

- Understanding the basic trajectory of the illness
- Objectivity
- Intuition
- Knowing the markers
 repeated hospitalizations, depression, withdrawal, life passages and loss, weight loss and trouble swallowing

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The "AHA" question -

"Would you be surprised if your patient died in the next 6 months?? In the next year??"

Cardiac Disease - Prognostication

- Accurate prognostication in heart failure is challenging.
 - Disease trajectory is unpredictable with high incidence of sudden death
 - Heterogeneous patient population

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ES Cardiac Disease

Prognostication is very difficult when the patient is compensated, and patients and their families often do not realize the patient is dying:

"Patients with heart failure can look the same on the Monday of the week they die as they have for six months"

> Joanne Lynn, MD Bioethicist, Director of the Center for Care of the Dying





Prognostication Tools NYHA Classification

Patient Symptoms
No limitation of physical activity. Ordinary physical activity does not cause undue fatigue, palpitations, dyspnea (shortness of breath).
Slight limitation of physical activity. Comfortable at rest. Ordinary physical activity results in fatigue, palpitation, dyspnea (shortness of breath).
Marked limitation of physical activity. Comfortable at rest. Less than ordinary activity causes fatigue, palpitation, or dyspnea.
Unable to carry on any physical activity without discomfort. Symptoms of heart failure at rest. If any physical activity is undertaken, discomfort increases.
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Prognostication Tools

- New York Heart Association (NYHA) Classification is the major gauge of disease severity
- 1-year mortality estimates are:
 - Class II (mild symptoms): 5-10%.
 - Class III (moderate symptoms): 10-15%.
 - Class IV (severe symptoms): 30-40%.



General predictors of shorter prognosis:

- Cardiac hospitalization :triples 1-year mortality; nearly 1 in 10 die within 30 days of admission
- Intolerance to therapy (i.e. beta-blockers or ACE-inhibitors) associated with high 4 month mortality
- Elevated BUN (defined by upper limit of normal) and/or creatinine \geq 1.4 mg/dl (120 $\mu mol/l).$

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General predictors of shorter prognosis:

- Systolic blood pressure <100 mm Hg and/or pulse >100 bpm doubles 1-year mortality
- Decreased left ventricular ejection fraction (linearly correlated with survival at LVEF ≤ 45%)
- Ventricular dysrhythmias, treatment resistant.

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Predictors

- Anemia : each 1 g/dl reduction in hemoglobin is associated with a 16% increase in mortality
- Hyponatremia : serum sodium ≤135-137 meq/l
- Cachexia or reduced functional capacity.
- Orthopnea.
- Co-morbidities: diabetes, depression, COPD, cirrhosis, cerebrovascular disease, and cancer.

Hospice Eligibility Criteria Cardiac Disease

The National Hospice and Palliative Care Organization's (NHCPO) guidelines for heart disease admission criteria include:

- symptoms of recurrent HF at rest (NYHA class IV)

AND - optimal treatment with ACE inhibitors, diuretics, and vasodilators (contemporary optimal treatment now includes β-blockers, aldosterone antagonists, and device therapies).

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Supporting Documentation

- According to the NHPCO guidelines an ejection fraction < 20% is helpful objective evidence but not required (systolic HF)
- Each of the following further decreases survival:
 treatment resistant ventricular or supraventricular arrhythmias

 - history of cardiac arrest in any setting -
 - history of unexplained syncope -
 - cardiogenic brain embolism concomitant HIV disease





Dementia

- Syndrome of acquired and persistent impairment in cognition and intellectual functioning.
- Irreversible & leads to progressive brain failure and death

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Dementia

- Divided into four functionally defined categories:
 - Mild
 - ModerateSevere
 - Terminal
- Terminal dementia is defined as loss of communication, ambulation, swallowing and continence





Prognostic factors associated with shortened survival:

Male gender	Dehydration	CHF	COPD	Cancer	Peripheral Edema
Bowel incontinence	Recent weight loss/ Low BMI	Age	Fever	Pressure Ulcers	Cardiac dysrhythmias
Sleeping most of the day	Need for continuous oxygen	SOB	Aspiration	Low oral intake	Seizures
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Prognostic Factors

- <u>Malnutrition, feeding issues, and dysphagia</u> are the strongest associated factors with 6 month mortality in elderly patients with advanced dementia.
- Hospitalization with acute illness and terminal dementia is associated with a particularly poor prognosis:
- the 6-month mortality after hospitalization for pneumonia was 53% compared with 13% for cognitively intact patients.
 - For patients.
 For patients with a new hip fracture, 55% of end-stage dementia patients died within 6 months compared with 12% for cognitively intact patients





Stage 7a	Characteristics Speech ability is limited to six words
7b	Speech ability is limited to one intelligible word per average day
7c	Ambulatory ability is lost
7d	Unable to sit up without assists
7e	Loss of ability to smile
7f	Loss of ability to hold up head independently
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Hospice Eligibility Criteria Dementia • NHPCO guidelines:

- FAST Stage 7C

AND

One or more specific dementia-related co-morbidities in the past 12 months (aspiration pneumonia, pyelonephritis, septicemia, multiple stage 3-4 ulcers, persistent fever, weight loss >10% within six months or serum albumin <2.5g/dL).



Senile Asthenia

- A syndrome that reflects a decline in physiological reserve and increased vulnerability to various stressors.
- Also known as age-related physical debility/frailty.
- Adult Failure to thrive and Debility Not Otherwise Specified (NOS) can no longer be listed as a principal terminal diagnosis
- AFTT and Debility NOS can instead be listed as secondary conditions to support prognosis if indicated.

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Adult Failure to Thrive

1. Irreversible nutritional impairment, as evidenced by both of the following:

- Body Mass Index (BMI) less than 22kg/m²
 Declines enteral/parenteral nutritional support OR has not responded to such support, despite an adequate caloric intake

AND

2. Significant Disability as evidenced by the Palliative Performance Scale (PPS) equal to or less than 40 percent.





Supporting Documentation

- Recurrent or intractable infections, such as pneumonia or other URI, sepsis, or UTI
- Decreasing serum albumin or cholesterol
- Dysphagia leading to recurrent aspiration and inadequate oral intake documented by the decreasing food portion consumption
- Nausea/vomiting poorly responsive to treatment

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Supporting documentation Asthenia

- Diarrhea, intractable
- Generalized pain
- Decline in systolic blood pressure to below 90 or progressive postural hypotension
- Edema
- Change in level of consciousness
- Abnormal electrolyte levels
- Progressive 3-4 stage pressure ulcers

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Clinical Frailty Scale



Hospice Eligibility Criteria

• Terminal Illness: GENERAL (non-specific)

- Terminal condition not attributed to a single specific illness. **AND**

AND

- Rapid decline over previous 3-6 months as evidenced by:
 - Progression of disease evidenced by symptoms, signs & test results
 Decline in PPS to < 40%
 - Decline in PPS to ≤ 40%
 Involuntary weight loss >10% and/or Albumin < 2.5g/dL
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Prognostic Indicators

- All lung diseases follow a common final pathway
- FEV 1<30% of predicted remains best indicator
 - 25% of pts die within 2 years
 - 55% of pts die within 4 years
- Low BMI
- Low oxygen sat/high CO2

Prognosis in hospitalized patients

- Age
- Functional status
- Co-morbidities
- Hypoxia
- Hypercapnia
 - PaCO2 > 50mmHg at admission
 33% dia within 6 months
 - 33% die within 6 months
 42% die within 1 year
- If mechanical ventilation required, 25% die during admission

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Eligibility Guidelines

- Disabling dyspnea at rest
- Poor response to bronchodilators
- Decreased functional capacity (bed-to-chair)
 <u>AND</u>
- Increasing hospital/MD visits
- Hypoxia at rest (<88% on room air) <u>OR</u>
- Hypercapnia (pCO2 > 50mmHg)



End-Stage Liver Disease

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Prognostic Indicators

- Decompensated liver disease has LE <2 years - Bleeding varices
 - Spontaneous bacterial peritonitis (SBP)
 - Ascites
 - Hepatocellular carcinoma
 - Hepatorenal syndrome

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Prognostic Tools

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Child-Pugh Classification

Parameters	P		
Parameters	1	2	3
Serum Bilirubin(mg/dl)	2.0	2-3	>3.0
Serum Albumin(g/dl)	>3.515	2.8-3.5	<2.8
Prothrombin Time (Prolongation (s))	1-4	5-6	>6
Hepatic encephalopathy	None	Minimal	Advanced
Ascites	None	Slight	Moderate
One and two year survival based or	CTP Sc	ore	
Class	1 yr	2 yr	
A (5-6 points)	100~%	85 %	
B (7-9 points)	80%	60%	
C (10-15 points)	45%	35%	

MELD Score

WILLD SCOLE
ELD = 3.78 x log, serum bilirubin (mg/dL) +
11.20 x log _e INR +
9.57 x log _e serum creatinine (mg/dL) +
6.43 (constant for liver disease etiology)

ITES:	
re patient has been dialyzed twice within the last 7 days, then the value	
serum creatinine used should be 4.0	

Any value less than one is given a value of 1 (i.e. if bilinubin is 0.8, a value of 1.0 is used) to prevent the occurrence of scores below 0 (the natural logarithm of 1 is 0, and any value below 1 would yield a negative result)

Other facts that support eligibility (but not required)

- Progressive malnutrition
- Muscle wasting
- Continued alcohol use >80g/day
 1 standard drink has 10g of EtOH
- Hepatocellular carcinoma
- Hepatitis B
- Hepatitis C refractory to treatment

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What about transplantation?

- Patients who are on the liver transplant list MAY be enrolled in hospice
 - Increased emotional support needs
- If a donor organ is procured, the patient must be discharged from hospice



Cerebrovascular Accident

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Prognostic Indicators

- Early (within first few days of hospitalization) Age >75
 Female gender
 Embolic cause
 Hemorrhagic transformation
 Symptom onset to treatment time > 2 hours
 En stay >8 hours
 Failure to receive TPA
 Treatment not in a dedicated stroke center
 Low income

 - ✓ Low income
 ✓ Lack of social support

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Prognostic Indicators

- Late (greater than 3 days s/p CVA)
 - Dysphagia lasting >3-7 days post stroke -
 - Requirement of feeding tube -
 - Post-stroke coma lasting >3 days -
 - Absent response to verbal stimuli after 3 days -

Eligibility Guidelines

• Hospice eligibility requires

- Poor functional status (PPS <40)

AND

-

Inability to maintain nutrition and caloric intake

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Poor Functional Status

- Poor functional status
 - PPS score of 40 or less
 - Bed-bound
 - Unable to work
 - Needs maximal assistance for self-care
 - PO intake normal or reduced
 - Either fully conscious or drowsy/confused

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Poor Nutritional Status

- Must include ONE of the following
 - Weight loss >10% in the past 6 months
 - Weight loss >7.5% in the past 3 months
 - Serum albumin
 - Aspiration
 - Calorie counts demonstrating inadequate intake
 - Dysphagia severe enough to prevent adequate intake

Additional supportive factors

- Present within the past 12 months, within the context or progressive clinical decline:
 - Recurrent infections (pneumonia or other URI)
 - UTIs
 - Sepsis
 - Stage 3-4 decubitus ulcers
 - Fever (persistent after antibiotics)

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Can a feeding tube help?

- Feeding tubes generally NOT recommended
 - Do NOT prevent aspiration
 - Often require restraintsInfection
 - InfectionFunctional issues



End-Stage Renal Disease

Prognostic Indicators

- Fluid overload
- Severe anemia
- GI bleeding
- Itching from uremia
- "Uremic frost"
- Hyperkalemia causing heart arrhythmias



Uremic Frost

End-Stage Renal Disease

These criteria must be met:

- Must NOT be receiving dialysis (or must have a plan to d/c) or seeking renal transplant
- Laboratory evidence of renal failure:
 Creatinine clearance <10 cc/min (more liberal for patients with DM and CHF)
 - OR • Creatinine >8 mg/dL (>6.0 for diabetics)



What happens when you stop dialysis?

- When a patient decides to stop dialysis: - Death within 1-2 weeks
 - Longer if patient has nearly normal urine output
- Fluid overload (can be treated with diuretics)
- Hyperkalemia



Discussing Hospice Care

- Discussing hospice is hard
- Hospice = death vs. hope?
- Hospice care increases survival for selected non cancer diagnoses: surveillance, socialization, risk avoidance

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Words That Work -

To the patient:

"If your illness can't be cured, how would you like the rest of your life to be?" " Where do you want to be at the end of life"

To the family:

- "I am worried about your mother,
 - she is loosing weight
 - she is sleeping more
 - has been hospitalized three times in the last year..."

Words That Work -

- I know an organization that has helped a lot of our patients, can I tell your more?
- Let's get care that helps me take care of you and supports your family

Always include family in these discussions- be prepared for strong emotions

Calling the doctor:

- "Mrs. Jones has lost 15 pounds in the last 6 months".
- "Mrs. Jones has been hospitalized three times for heart failure and almost did not get back here this time".
- "Mrs. Jones husband died last month, she is not eating, is losing weight and is more confused I think she needs more emotional support".
- "I notice that Mrs. Jones meets the Medicare guidelines for hospice care with a diagnosis of ______".

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Thank you for attending our presentation!

Thoughts and discussion -

Please share your experiences!

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Online tools

- Prognostat
- E- prognosis