

Using assessment tools to improve hospice care

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THE BACK STORY.....

- The Mediare COPs include very specific language about measurement:
 - "The comprehensive assessment must include data elements that allow for measurement of outcomes."

The Back Story.....continued

- The hospice must measure and document data in the same way for all patients.
- The data elements must:
 - take into consideration aspects of care related to hospice and palliation;
 - be documented in a systematic and retrievable way for each patient;
 - be used in individual patient care planning and in the aggregate for the hospice's QAPI program.

The Back Story.....continued

- In order to meet the COP requirements, each hospice has to decide on specific measures and rating scales
- Measures and ratings scales should be proven instruments that have been tested and widely used – not "home grown"
- And now, Dr. Reidy.....

Objectives

- Understand how assessment tools can improve patient care.
- Understand and apply the following tools:
 - Palliative performance scale (PPS)
 - Confusion assessment method (CAM)
 - Pain assessment in advanced dementia (PAINAD) and children



Palliative performance scale

Estimating prognosis in hospice patients

Why is PPS important?

- Helps estimate prognosis for:
 - Goals of care discussions
 - Hospice eligibility, recertification

PPS - history

- First published in 1996 as tool for measuring functional changes in palliative care pts
- Adapted from Karnofsky Performance Scale (ambulation, activity level, evidence of disease)
- Added self-care, oral intake and level of consciousness
- Measured from 0-100% in 10% increments
 - 0% = dead, 100% = mobile & healthy

Use of Palliative Performance Scale in End-of-Life Prognostication

Journal of Palliative Medicine 2006;9:1066-1075

- Retrospective cohort study of 733 pts admitted to a palliative care unit (PCU) in Canada from March 2000-August 2002
- Outcome was survival time (# days from earliest PCU admission until death)
- Did initial PPS score accurately predict survival?

PPS study...

- Results:
 - Mean age 70 yrs
 - 46% male, 54% female
 - 88% cancer, 12% non-cancer diagnosis
 - Overall mean survival = 27 days
 - Overall median survival = 10 days
 - Kaplan-Meier survival curves by admission PPS scores

PPS study...

- Mortality rates over time
 - All pts with PPS 10% and 94% of pts with PPS 20% died within 2 weeks of admission.
 - 91% pts with PPS 30% died within 45 days
 - 91% pts with PPS 40% died within 90 days
 - 95% pts with PPS 50% died within 180 days

PPS study...

- Discussion:
 - PPS score is strong predictor of survival, but large validation studies needed
 - This study limited to inpatient palliative care pts
 - Untested utility as general predictor of prognosis for all patients (ie, non-hospice or palliative-care patients)
 - Risk of misinterpretation of PPS tool, which relies on clinician's judgment

Using the PPS

- Leftward columns are usually stronger determinants of prognosis (ambulation, activity, self-care)
- Use clinical judgment if one or two columns don't fit the overall PPS score (ie, choose either 40 or 50% -- never 45%)

Using the PPS...

- 1. Ambulation
 - Mainly sit/lie vs. mainly in bed (where does pt spend most of her time?)
 - Totally bed-bound (needs total lift to transfer)
- 2. Activity & extent of disease
 - Hospice pts with extensive disease

Using the PPS...

- 3. Self-care
 - "Occasional assistance:" needs minor help at times
 - "Considerable assistance:" needs regular help every day but able to do some self-care
 - "Mainly assistance:" needs help with most ADLs every day
 - "Total care:" needs help with all ADLs every day

Using the PPS...

- 4. Intake
 - Normal (usual eating while healthy) vs.
 reduced vs. minimal (very small amounts, usually pureed or liquid)
- 5. Conscious level
 - Full (normal) vs. confusion vs. drowsiness vs. coma (absence of response; may fluctuate)

Case: John

- 79 yo M with end-stage heart failure
- Admitted 1 year ago after hospitalization:
 - Out of bed with walker ~10 feet; uses wheelchair very dyspneic
 - Plays bridge with friends at his home
 - Needs help to get to bathroom but able to brush his teeth, shave
 - Feeds himself, decent appetite
 - Takes 1-hour nap in afternoon; otherwise awake & alert
 - PPS score: 50%

John...

- At 6 months after admission:
 - Mostly in bed; stands to pivot transfer; can only shuffle a few feet – dyspneic & dizzy
 - Sees visitors for short periods in bedroom
 - Needs help with bathing, dressing, toileting but able to participate somewhat
 - Feeds himself, poor appetite
 - Several naps during day, otherwise alert
 - PPS score 40%

John...

- Currently (one year after admission)...
 - Completely bedbound; dyspnea at rest
 - Sees family for short periods in bedroom
 - Needs help with all self-care
 - Feeds himself, little appetite
 - Frequent naps (sleeps >50% day); episodes of confusion, agitation
 - PPS 30%



Confusion Assessment Method (CAM)

Making the diagnosis of delirium

"Terminal Agitation"

- A <u>Symptom or Sign</u>: thrashing or agitation that may occur in the last days or hours of life
- Broad differential, including:
 - Pain
 - Anxiety
 - Dyspnea
 - Delirium

DSM-IV Criteria: Delirium

- Disturbance in consciousness
 - Attention
- Change in cognition
 - eg:memory, orientation, language
- Develops over a short period of time
- Caused by the direct physiological consequences of a general medical condition

Clinical Subtypes

- Hyperactive
 - Confusion, agitation, hallucinations, myoclonus
- Hypoactive
 - Confusion, somnulence, withdrawn
 - More likely to be under-diagnosed
- Mixed

Delirium is Common

- Up to 80% of people experience delirium during the final week of life
- 15 20% hospitalized cancer patients experience some delirium

Differentiating Delirium from Dementia

Features	Delirium	Dementia	
Onset	Acute	Insidious	
Course	Fluctuating	Progressive	
Duration	Days to weeks	Months to years	
Consciousness	Altered	Clear	
Attention	Impaired	Normal except in severe dementia	
Psychomotor changes	Increased or decreased	Often normal	
Reversibility	Usually	Rarely	

Recognizing and <u>naming</u> delirium is the first step in its appropriate management

Confusion Assessment Method

- Feature 1: Acute onset and fluctuating course
- Feature 2: Inattention
- Feature 3: Disorganized thinking
- Feature 4: Altered level of consciousness
- * The diagnosis of delirium by CAM requires the presence of features 1 and 2 and either 3 or 4.

What causes delirium?

- Medication side effect (most common!)
 - Opioids
 - Corticosteroids
 - Benzodiazepines
 - Scopolamine
 - Hydroxyzine
 - Diphenhydramine
 - Hyoscyamine

- Tricyclic antidepressants
- H2 blockers
- NSAIDs
- Metoclopramide
- Alcohol/drug withdrawl

Causes...

- Medical contributors
 - Infection
 - Brain metastates
 - Hepatic encepalopathy
 - Renal failure
 - Hypercalcemia
 - Hyponatremia
 - Hypoxemia
 - Volume depletion
 - Immobilization
 - Pain
 - Urinary retention
 - Constipation

- Psychosocial contributors
 - Depression
 - Vision/hearing impairment
 - Emotional, spiritual distress
 - Unfamiliar environment

CAM: summary

- Hallmarks of delirium are inattention, waxing/waning mental status
 - Might NOT include hallucinations
 - Remember HYPOACTIVE delirium
- Making the diagnosis of delirium is crucial:
 - Consider reversible causes
 - Avoid medications which cause or worsen delirium
 - Treat with haloperidol, <u>not lorazepam</u> (can worsen delirium)



Pain assessment in nonverbal patients

Providing pain relief to children and people with advanced dementia

Why are alternative pain scales important?

- Help quantify pain levels in patients who cannot advocate for themselves
- Help monitor response to therapies

Pain Assessment in Advanced Dementia: PAINAD scale

- Five-item observation tool with range 0-10
- Created by expert clinicians based on literature review, existing assessment tools
- Widely used, easy to learn
- Needs large validation study
 - Original study limited in size (19 pts white, male veterans)*

* Warden V, Hurley A, Volicer L. Development and psychometric evaluation of the pain assessmentin advanced dementia (PAINAD) scale. J Am Med Dir Assoc 2003;4:9-15

Case: Dora

- 85 yo F with advanced Alzheimer's disease
- Long-time resident
- Known for trying to wander, calling out, awakening at night
- More agitated, fighting staff, holding/protecting her abdomen

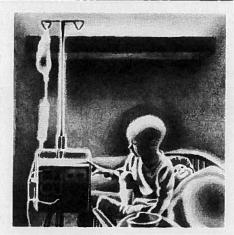


Dora: assessment

- "help me help me help me"
- Can't describe her symptoms; very fearful expression
- Review of chart: low-grade temp yesterday, no BM in four days, poor oral intake
- Temp 100.5, BP 102/70, HR 105, RR 25, O2 sat 97% RA
- Pt curled up on her side → says "ouch!" when you press on her abdomen; hyperactive bowel sounds; rectum w/hard stool

	0	1 2 4	2	Score
Breathing (independent of vocalization)	Normal	Occasional labored breathing. Short period of hyperventilation.	Noisy labored breathing. Long period of hyperventilation. Cheyne-Stokes respirations.	
Negative vocalization	None	Occasional moan or groan. Low-level speech with negative or disapproving quality.	Repeated troubled calling out. Loud moaning or groaning. Crying.	
Facial expression	Smiling or inexpressive	Sad, frightened, frowning	Facial grimacing	
Body language	Relaxed	Tense, distressed pacing, fidgeting.	Rigid, fists clenched, knees pulled up, pulling or pushing away, striking out.	
Consolability	No need to console	Distracted or reassured by voice or touch	Unable to console, distract or reassure.	

Case: Sarah



- 3 yo girl with acute leukemia
- Hospitalized for chemotherapy
- Episodes of grimacing, kicking, squirming, moaning
- Calms after a while with touch, presence

FLACC: Face, Legs, Activity, Cry, Consolability (Ages 2 months – 7 years) Score: Face No particular expression or smile withdrawn, disinterested quivering chin. clenched jaw withdrawn, disinterested quivering chin. clenched jaw l.ying quietly, normal position, moves easily No cry (awake or asleep) No ery (awake or asleep) Content, relaxed Reassured by occasional complaint sobs, frequent complaints Content, relaxed Reassured by occasional touching, hugging or being talked to, distractible Each of the five categories (F) Face; (L) Legs; (A) Activity; (C) Cry; (C) Consolability is scored from 0-2, which results in a total score between zero and ten. From The FLACC: A behavioral scale for scoring postoperative pain in young children. by S Merkel and others, 1997, Pediatr Nurse 23(3), p. 293-297. Copyright 1997 by Jannetti Co. University of Michigan Medical Center.

Pain assessment	
Facial Expression	and the
0 - Relaxed muscles, restful face, neutral expression	in se
1- Grimace, tight facial muscles; furrowed brow, chin, jaw, (negative facial expression – nose, mouth and brow)	
Cry	
0 - No Cry, quiet, not crying	
1 - Whimper, mild moaning, intermittent	
2- Vigorous cry, loud scream; rising, shrill, continuous (Note: Silent cry may be scored if baby is intubated as evidenced by obvious mouth and facial movement.	
Breathing Patterns	(Kauser
0 - Relaxed, usual pattern for this infant	
1 - Change in Breathing, indrawing, irregular, faster than usual; gagging; breath holding	
Arms	
0 - Relaxed/Restrained, no muscular rigidity; occasional random movements of arms	
1 - Flexed/Extended, tense, straight legs; rigid and/or rapid extension, flexion	
Legs	E-1
0 - Relaxed/Restrained, no muscular rigidity; occasional random leg movement	
1 - Flexed/Extended, tense, straight legs; rigid and/or rapid extension, flexion	
State of Arousal	
0 - Sleeping/Awake, quiet, peaceful sleeping or alert random leg movement	
1 - Fussy, alert, restless, and thrashing	DIF ALL

