

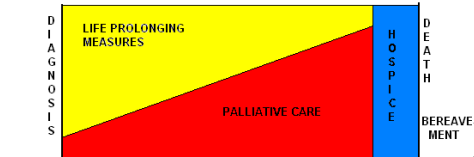


The University of Chicago Medical Center
Section of Geriatrics and Palliative Medicine
Inpatient Consults 188-PALL

DEFINITIONS

Palliative Care (PC) = aims to relieve physical, emotional, and spiritual suffering, and improve quality of life for patients with advanced illness, along with their families.

Hospice = aims to provide aggressive palliative care for patients at the end of their life, usually when life-prolonging treatment options have stopped



COMPARISON OF HOSPICE VS. PALLIATIVE CARE

| | HOSPICE | PALLIATIVE CARE |
|---------------------------------|--|---|
| PATIENTS | Terminal | Advanced & Life-threatening illnesses |
| PERSONNEL | Team – RN case manager, SW, chaplain, MD, CNAs | APN/MD consultants, others if needed |
| MEDICINES | Covered for comfort for the primary dx | Not covered |
| MEDICAL EQUIP. | Covered for primary dx | Not covered, work with home care agencies |
| INS. COVERAGE | Benefit package under most insurances | Fee-for-service consultant charges |
| BEREAVEMENT | Yes | No |
| PROGNOSIS | < 6 months | Not needed |
| LIFE-PROLONGING MEASURES | Usually not | Are OK to do |

WHAT DOES HOSPICE COVER?

Under Medicare, pt must be eligible for Medicare Part A (hospital benefit)

- Hospice RN visits at least weekly and prn, SW, Chaplain, Hospice MD oversight, CNAs – usually 1hr, 3-5x/week
- Medicines related to the primary diagnosis for comfort
- Medical Equipment for comfort and safety including oxygen
- 24hr coverage by nurses with on-call visits
- Up to 13 months of bereavement for caregivers after the death
- Respite care for 5 days, usually in a nursing home
- Inpatient hospice can be done at certain hospitals, for more aggressive symptom control, usually for up to 7 days.

HOSPICE ELIGIBILITY GUIDELINES

Hospice eligibility defined by 6 months or less life expectancy:

| | |
|----------------------|---|
| CANCER | Metastatic, stage IV Functional Decline, ECOG 3/4 Nutritional decline, albumin < 2.6 or 10% wt loss in 3mos time |
| HEART DISEASE | NYHA class IV – symptoms at rest with optimal treatment (30-40% 1yr mortality rates), worse with: <ul style="list-style-type: none"> - recent cardiac hospital stay (3x/1 yr) - elevated BUN or Cr >1.4 - BPs <100, HR >100 - LVEF <20% - Resistant ventricular arrhythmias - Anemia - Sodium <135 - Cachexia, functional decline - Prior cardiac arrest, unexplained syncope, cardiogenic CVA, HIV |
| LUNG DISEASE | Dyspnea at rest, unresponsive to treatment Inc ER visits, declining FEV1 (>40 ml/yr) Cor pulmonale or right heart failure PaO2 < 56 mmHg or sat < 89% on oxygen albumin < 2.5 or wt loss > 10% poor function (mainly bed/chairbound) |
| DEMENTIA | FAST score 7C or worse (bedbound, can't smile, < 6 words/day, can't hold up head) Co-morbidities: aspiration, pyelo, sepsis, multiple decubiti (stage 3-4), fever on abx Nutritional decline, > 10% wt loss in 6 mos |
| LIVER DISEASE | End-stage cirrhosis with INR >1.5 and albumin < 2.5 Plus: refractory ascites, SBP, hepatorenal syndrome, encephalopathy, or recurring variceal bleeds |
| HIV | CD4 <25 or viral load > 100,000 off HAART Or: with advanced lymphoma or KS, progressive PML, advanced dementia, cachexia, refractory infections cryptosporidium, toxoplasmosis, MAC |
| RENAL FAILURE | CrCl <10 cc/min (<15 if diabetic) and serum Cr >8 (>6 if diabetic), uremia, oliguria, intractable fluid overload, no dialysis plans |
| ALS | VC < 30%, declining ventilation Rapid weight loss or dehydration Infections such as aspiration, pyelo, sepsis, decubiti, recurring fevers |
| STROKE | Acutely : severe coma over 3 days Chronically: age > 70, dementia FAST > 7A, progressive wt loss |

OPIOID EQUIVALENCIES

| Drug | IV/SQ | Oral | Duration |
|---|--------|-----------|--------------------------|
| Morphine MSIR tabs 15, 30mg Roxanol liquid 20mg/cc | 10mg | 30mg | IR 3-4hrs SR 8-12 hrs |
| Hydromorphone Dilaudid 2,4mg tabs Liquid 1mg/cc | 1.5mg | 7.5mg | 3-4hrs |
| Oxycodone Roxicodone/oxyIR 5mg tabs OxyIR liquid 20mg/cc Percocet 5oxy/325 acet | NA | 20 - 30mg | IR 3-4hrs SR 8-12 hrs |
| Fentanyl | 0.1 mg | NA | 5-10 minutes IV |
| Codeine T#3 30 cod/325acet T#4 60 cod/325acet | 100mg | 200mg | 3-4hrs |
| Hydrocodone Vicoden/lortab 5hyd/500acet Vicoden ES 5hyd/750acet Norco 10hyd/325 Vicuprofen 5hyd/200ibu | NA | 30mg | 3-4hrs |

OPIOID USE:

LOAD:

- Start low dose/short acting (5-10mg PO Morphine equivalent for adult)
- Dose at peak (60-90 min PO, 6-15min IV, 15-30min SQ)
- PCA = Patient controls the analgesia dosing
- Re-eval based on duration to adjust dose to the loading level (e.g: if it took three 5mg MSIR doses to relieve the pain, use 15mg MSIR next time in pain)

MAINTENANCE:

- Go long: convert 24 hrs of total short-acting dose that worked to long acting (e.g. MS Contin/Oramorph SR, OxyContin, Fentanyl)
- Breakthrough pain: use 10-20% of the total daily dose for breakthrough. Give prn based on route and peak: PO = every 60-90 min, IV every 10-15 min.
- Re-evaluate often: if consistently needing 3 or more breakthrough doses daily, need to increase maintenance (by 25-50% mild-mod pain, 50-100% severe). Calculate new breakthrough dose.

CONVERSION: After calculated conversion, start new med at 50-75% of calculated dose to avoid incomplete cross-tolerance. This is less important if the patient is staying on the same medicine and merely changing routes.

Basic Conversion Equation Example:

Pt. received morphine 60 mg IV in past 24 hrs. Switch to oral morphine.

$$\frac{60 \text{ mg IV morphine}}{\text{PO morphine (X)}} = \frac{10 \text{ mg IV}}{30 \text{ mg PO}}$$

Solve for X = 180 mg PO morphine/day = MSContin 90 mg PO q 12 hr

FENTANYL PATCH CONVERSION

25 mcg/hour topically q 72 hours is approximately equal to the following:
 Morphine 15 mg IV or 50 mg PO per 24 hours
 Hydromorphone 3 mg IV or 12 mg PO per 24 hours
 Oxycodone 30 mg per 24 hours
 Vicodin or Tylenol #3 ≈ 9 tablets or Norco ≈ 4-5 tablets per 24 hours
 Available Transdermal Duragesic Doses = 12, 25, 50, 75, 100 mcg/hr

Fentanyl Patch use and titration

- Titrate to pain relief with immediate release opioids first
- Calculate 24 hr opioid dose, convert dose to transdermal fentanyl equivalents
- Patch takes 12-24 hrs to reach full effect, therefore must continue prior opioid for first 12-24 hrs
- Patch duration of effect 48-72 hrs, do not increase more frequently than every 2-3 days
- Must prescribe short-acting opioid for breakthrough pain

Methadone: Conversion varies with daily oral Morphine equivalency dose.
 Ex. Morphine <100 mg (1:3); 101-300 mg (1:5); 301-600 mg (1:10); 601-800 mg (1:12); 801-1000mg (1:15); >1000mg (1:20)
 Has a long and variable half-life (12-120 hrs), potential for drug-drug interaction, and QT prolongation/Torsades.

Therefore should only be used by persons with experience! Call 188-PALL

MANAGEMENT OF OPIOID SIDE EFFECTS

| Adverse Effect | Management Considerations |
|------------------------|--|
| Constipation | Softener plus stimulant (colace + senna, peri-colace), miralax, sorbitol, bisacodyl. If no BM in 4 days consider enemas, beware of fecal impaction |
| Sedation | Tolerance usually develops. Hold sedatives/anxiolytics, dose reduction, consider CNS stimulants (methylphenidate, caffeine) |
| Nausea/Vomiting | Dose reduction, opioid rotation, metoclopramide, prochlorperazine, scopolamine patch, haloperidol |
| Pruritis | Dose reduction, opioid rotation, antihistamines, H2 blockers |
| Delirium | Dose reduction, opioid rotation, antipsychotics (haloperidol, risperidone) |
| Respiratory depression | Sedation always precedes respiratory depression! Hold opioid. Give low dose naloxone to avoid withdrawal crisis – Dilute 0.4 mg (1 mL of 0.4 mg/mL amp) in 9 cc of saline, use 1 cc q 5 min until respirations improve |