Essential Medications in Hospice

SIX CLASSES OF ESSENTIAL HOSPICE MEDICATIONS

Analgesics

 Medications used to relieve pain.

Anticholinergics Medications used to dry

Antiemetics · Medications used to secretions, provide smooth muscle relieve nausea and vomiting. relaxation, & manage allergy symptoms

Antipsychotics · Medications used to treat symptoms of psychosis.

Anxiolytics

· Medications used to relieve anxiety and provide a calming effect.

Laxatives

· Medications used to treat constipation.

Indication: Terminal Secretions

Indications: Nausea, Vomiting

Indication: Constipation

Note: Many medications are used off-label in hospice care; off-label use is indicated by OL in this document

Anticholinergics

Medication &	Hyoscyamine (Levsin [®] , Hyomax-SL [®]) ^{OL}	Atropine (Isopto® Atropine) OL	Glycopyrrolate (Robinul®, Cuvposa®) OL
Starting Dose	 0.125 mg SL q4h PRN 	 2 drops SL q4h PRN 	 0.1 – 0.2 mg SQ/IV q6h PRN
Adverse Effects	Blurred vision, constipation, urinary retention, confusion, delirium, restlessness, hallucinations, dry mouth, and heart palpitations		
Monitoring Parameters	Symptom improvement		
Drug Interactions	 Use cautiously with other medications with that have cholinergic actions or anticholinergic side effects; avoid alcohol use Antidepressants, antihistamines, tiotropium, and ipratropium bromide may enhance anticholinergic effect 		
Clinical Pearls	Use non-pharmacologic interventions first line; anticholinergic medications do not affect existing secretions; may prevent new secretions		

Antiemetics

Medication & Starting Dose	Haloperidol (Haldol®) OL Promethazine (Phenergan®) Prochlorperazine (Compazine®) Ondansetron (Zofran®) • 0.5 mg PO/SL/PR q6h PRN • 25 mg PO/PR q6h PRN • 10 mg PO q6h PRN • 4 mg PO/SL q8h PRN • 25 mg PR q12h PRN • 25 mg PR q12h PRN • 4 mg PO/SL q8h PRN		
Adverse Effects	 Haloperidol, promethazine, prochlorperazine: anticholinergic effects, EPS, sedation, orthostatic hypotension, lower seizure threshold Ondansetron: constipation, fatigue, headache, QT prolongation 		
Monitoring Parameters	Symptom improvement, adverse effects		
Drug Interactions	 Use cautiously with other medications with that have CNS depressant effects and QTc prolonging medications Haloperidol: CYP 3A4 and 2D6 (inhibitors and inducers) 		
Clinical Pearls	• Avoid use of haloperidol and prochlorperazine in Parkinson's disease or Lewy body dementia; promethazine is the preferred agent		

Antipsychotics

Antipsychotics				Indication: Agitation
Medication & Starting Dose	Haloperidol (Haldol [®]) • 0.5 mg PO/SL/PR/SC/IV/IM q4h PRN or ATC	Chlorpromazine (Thorazine®) • 10 mg PO/SL q8h PRN or ATC	Quetiapine (Seroquel®) • 25 mg PO BID	Risperidone (Risperdal®) • 0.25 mg PO BID
Adverse Effects	 Anticholinergic effects, EPS, sedation, orthostatic hypotension, lower seizure threshold Boxed Warning (All Antipsychotics): Elderly patients with dementia-related psychosis treated with antipsychotics are at an increased risk of death compared to placebo Boxed Warning (Quetiapine): Antidepressants increase the risk of suicidal thoughts and behaviors 			
Monitoring Parameters	Symptom improvement, adverse effects			
Drug Interactions	 Use cautiously with other medications with that have CNS depressant effects and QTc prolonging medications Haloperidol, risperidone: CYP 3A4 and 2D6 (inhibitors and inducers), quetiapine: CYP 3A4 (inhibitors and inducers) 			
Clinical Pearls	• Avoid use of haloperidol and chlorpromazine in Parkinson's disease or Lewy body dementia; quetiapine is the preferred agent			

Anxiolytics

Indications: Anxiety, Dyspnea, Insomnia, Muscle Spasm, Seizure

Medication & Starting Dose	 Lorazepam (Ativan[®]) Anxiety, dyspnea^{OL}: 0.5 mg PO/SL/PR/SC/IV/IM q4h PRN (starting dose may differ for other indications) Seizures: 2 mg PR/SL q15minutes PRN 	
Adverse Effects Sedation, dizziness, weakness, ataxia, agitation Boxed Warning: concomitant use with opioids; abuse, misuse, and addiction; dependence and withdrawal reactions		
Monitoring Parameters	• Symptom improvement, respiratory rate, hypotension	
Drug Interactions	CNS depressants	
Clinical Pearls	 Potential for paradoxical worsening of agitation Preferred benzodiazepine in the elderly due to lack of active metabolites Approximate PO equivalence to other benzodiazepines: lorazepam 1 mg ≈ alprazolam (Xanax®) 0.5 mg ≈ diazepam (Valium®) 5 mg 	

Laxatives

Medication &	Senna (Senokot [®])	Bisacodyl (Dulcolax®)	Docusate + Senna (Senna-S [®])
Starting Dose	 2 tabs PO daily PRN or scheduled 	 5 mg PO daily or 10 mg PR daily PRN 	 2 tabs PO daily PRN or scheduled
Adverse Effects	Diarrhea, nausea, vomiting, abdominal cramps, electrolyte and fluid imbalance		
Monitoring Parameters	Symptom improvement, adverse effects		
Drug Interactions	Senna: polyethylene glycol, digoxinBisacodyl: polyethylene glycol, antacids		
Clinical Pearls	 Available as an oral solution (8.8 mg/5 mL) May combine with oral stool softener 	May combine with oral stool softenerFull rectum: suppository may be ineffective	 May not be more effective than individual Poor taste when crushed
	 Onset of action: 6-12 hours (oral) 	 Onset of action: 6-12 hours (oral) 	 Onset of action: 6-12 hours (oral)

ANALGESICS

Acetaminophen (Tylenol®)	Ibuprofen (Motrin [®] , Advil [®])
Uses	Uses
Pain, fever	Pain, fever
Dosing	Dosing
Starting Dose: 325 mg PO/PR q4h PRN	Starting Dose: 400 mg PO q6h PRN
Maximum Daily Dose: 3,000 mg for most patients; 2,000 mg for patients with liver	Maximum Daily Dose: 3,200 mg
disease or malnutrition	Adverse Effects
Adverse Effects	Decreased hemoglobin, edema, abdominal pain, bloating, dyspepsia, nausea
Generally, well tolerated, liver & renal toxicity with chronic overdose	 Boxed Warnings: serious cardiovascular thrombotic events; serious
 Rare but serious skin reactions including toxic epidermal necrolysis (TEN) and 	gastrointestinal bleeding, ulcerations, and perforation
Stevens-Johnson Syndrome (SJS)	Monitoring Parameters
Monitoring Parameters	Symptom improvement
Symptom improvement	Drug Interactions
Drug Interactions	Use caution with other medications that may increase bleeding risk, such as
Avoid multiple acetaminophen-containing medications to reduce accidental	 Ose caduon with other medications that may increase bleeding risk, such as anticoagulants, antiplatelets, and SSRIs
overdose; avoid excessive alcohol use	 Avoid concomitant use with corticosteroids; avoid alcohol use
Clinical Pearls	Clinical Pearls
May be used with an NSAID or opioid	
Weigh risks versus benefits in patients with severe liver impairment	 Take with food or milk to lessen stomach upset Weigh risk versus benefit in patients with renal insufficiency
Morphine (Roxanol®)	Hydromorphone (Dilaudid®)
Uses	Uses
 Pain, dyspnea,^{OL} cough^{OL} 	 Pain, dyspnea, ^{OL} cough^{OL}
Dosing	Dosing
Starting Dose:	 Starting Dose: 1 mg PO/SL/PR q4h PRN
 Immediate release: 2.5-5 mg PO/SL/PR q4h PRN 	Adverse Effects
 Extended release: 15 mg PO/PR q12h 	Boxed Warnings: addiction, abuse and misuse; respiratory depression;
Adverse Effects	accidental injection; risk of medication errors (oral solution); concomitant CNS
Boxed Warnings: addiction, abuse and misuse; respiratory depression; accidental	depressants
injection; medication errors (oral solution); concomitant CNS depressant	Somnolence, constipation, nausea, hypotension, vomiting, dry mouth, urinary
Somnolence, constipation, nausea, hypotension, vomiting, dry mouth, urinary	retention, pruritus, respiratory depression, opioid-induced neurotoxicity
retention, pruritus, respiratory depression, opioid-induced neurotoxicity	Monitoring Parameters
Monitoring Parameters	Symptom improvement
Symptom improvement	 Mental status; vitals: blood pressure, heart rate, respiratory rate
Mental status; vitals: blood pressure, heart rate, respiratory rate	 Signs of opioid-induced neurotoxicity, urinary retention, and constipation
 Signs of opioid-induced neurotoxicity, urinary retention, and constipation 	Misuse/abuse
 Misuse/abuse 	Drug Interactions
Drug Interactions	CNS depressants, alcohol
CNS depressants, alcohol	Clinical Pearls
Clinical Pearls	
	 Oral solution (1 mg/mL) available but not dose concentrated
Use caution in renal impairment; high risk for opioid-induced neurotoxicity	Use caution in renal impairment
Oxycodone (Roxicodone [®] , OxyFast [®])	Fentanyl transdermal patches (Duragesic [®])
Uses	Uses
Pain, dyspnea, ^{OL} cough ^{OL}	Pain
Dosing	Dosing
Starting Dose: 2.5 mg PO/SL/PR q4h PRN	 Starting Dose (opioid-tolerant patients only): 25 mcg/hour q72h
Adverse Effects	Adverse Effects
Boxed Warnings: addiction, abuse and misuse; respiratory depression; accidental	 Boxed Warnings: addiction, abuse and misuse; respiratory depression;
injection; risk of medication errors (oral solution); concomitant CNS depressants	accidental injection; medication errors (buccal, intranasal, lozenge, sublingual)
Somnolence, constipation, nausea, hypotension, vomiting, dry mouth, urinary	concomitant CNS depressants
retention, pruritus, respiratory depression, opioid-induced neurotoxicity	• Somnolence, constipation, nausea, hypotension, vomiting, dry mouth, urinary
Monitoring Parameters	retention, pruritus, respiratory depression, opioid-induced neurotoxicity
Symptom improvement	Monitoring Parameters
 Mental status; vitals: blood pressure, heart rate, respiratory rate 	Symptom improvement
 Signs of opioid-induced neurotoxicity, urinary retention, and constipation 	Mental status; vitals: blood pressure, heart rate, respiratory rate
 Misuse/abuse 	 Signs of opioid-induced neurotoxicity, urinary retention, and constipation
Misuse/abuse Drug Interactions	Misuse/abuse
5	Drug Interactions
CNS depressants, alcohol	CNS depressants, alcohol
Clinical Pearls	Clinical Pearls
Preferred IR in renal impairment	Easy to administer but difficult to titrate if pain crisis or escalating pain
Use of combination products limited by max daily dose of acetaminophen	- Lasy to auminister but unitout to infate it pain clisis of escalating pain
Methadone (Dolophine®)
Uses	Monitoring Parameters
Pain	• At each visit: symptom improvement, respiratory rate less than 10 breaths per

Uses	Monitoring Parameters		
• Pain	At each visit: symptom improvement, respiratory rate less than 10 breaths per		
 Dosing Starting Dose (opioid-naïve): 2.5 mg PO/SL/PR g12h or 2.5 mg PO/SL/PR g24h 	minute, pinpoint pupils, excess sedation, difficulty arousing patient, heart palpitations, change in heart rate/rhythm		
Adverse Effects	 Signs of opioid-induced neurotoxicity, urinary retention, and constipation; misuse/abuse Drug Interactions CNS depressants, CYP 3A4 and 2B6 (inhibitors and inducers), QTc prolonging medications 		
 Boxed Warnings: addiction, abuse, and misuse; respiratory depression; QT prolongation; accidental ingestion; concomitant CNS depressants Dizziness, sedation, N/V, constipation, QT prolongation, arrhythmias, respiratory depression, urinary retention 			
Clinical Pearls			
 Not commonly used outside of hospice and palliative care so prescriber may not be comfortable with dosing Only 5 mg and 10 mg tablets can be used for pain 	 Tablets can be crushed and still retain long-acting properties Methadone has a long half-life; use caution with initiation and dose titration Avoid use for dyspnea; reserve use for pain management 		



DISCLAIMER: Recommendations contained herein are intended to assist with determining the appropriate therapy for the patient. Responsibility for final decisions and actions related to care of specific patients shall remain the obligation of the institution, its staff, and the patient's attending physicians. Nothing in this document shall be deemed to constitute the providing of medical care or the diagnosis of any medical condition. References on request: <u>druginformation@optum.com</u>

References

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