# THE TABLET: PALLIATIVE CARE PHARMACY TIPS



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**Palliative Care Pharmacy Team:** 

**Clinical Pharmacy** Specialist:

Maria Felton Lowry, PharmD, BCPS, BCGP

**Assistant Professor** University of Pittsburgh School of Pharmacy, Department of Pharmacy and Therapeutics **Palliative** Care Clinical Pharmacy Specialist **UPMC** Palliative and Supportive Institute

Cell: 412-627-8473 Office: 412-864-2899 Email: lowrymf@upmc.edu

If you have a topic you would like the pharmacy team to answer, please send your suggestions to: lowrymf@upmc.edu

## TODAY'S TOPIC:

Requested Topic: Opioid-Induced Constipation Treatment Review

#### **Background:**

Opioids bind to mu receptors in the GI tract and can precipitate reduced GI motility, increased fluid absorption, and lead to opioid-induced constipation (OIC). OIC's definition is variable among provider groups; Rome IV definition of OIC is "new/worsening constipation when initiating, changing, or increasing opioid therapy that must include 2 or more of the following: (1) straining during more than one-fourth (25%) of defecations; (2) lumpy or hard stools more than one-fourth (25%) of defecations; (3) sensation of incomplete evacuation more than one-fourth (25%) of defecations; (4) sensation of anorectal obstruction/blockage more than one-fourth (25%) of defecations; (5) manual maneuvers to facilitate more than one-fourth (25%) of defecations (eg, digital evacuation, support of the pelvic floor); or (6) fewer than 3 spontaneous bowel movements per week." First-line agents for treatment of OIC include: senna, bisacodyl, polyethylene glycol, lactulose, sorbitol, magnesium citrate, or magnesium hydroxide. If patients have inadequate response to appropriate trial of laxatives (ie. use of 2 types of scheduled laxatives), it may be necessary to escalate treatment. Peripherally acting mu-opioid receptor antagonists (PAMORAs) are effective for treating OIC. Other classes of medications such as intestinal secretagogues and selective 5-HT agonists are lacking data to support use in OIC.

#### Importance:

OIC is common in our palliative care population. It is important for palliative care clinicians to be aware of the guidelines for treating OIC to treat our patients and educate others about appropriate pharmacologic management.

#### **OIC Agent Review:**

Class	Medications	Mechanism of Action
Osmotic laxative	PEG, lactulose, magnesium	Draw water into intestine,
	citrate, magnesium hydroxide	hydrating and softening stool
Stimulant laxative	Bisacodyl, senna, sodium	Irritate sensory nerve endings to
	picosulfate	stimulate colonic motility and
1		reduce colonic water absorption
Lubricant Laxative	Mineral oil	Lubricate lining of gut
Peripheral acting	Naldemedine (Symproic)	Block mu opioid receptors in the
mu opioid receptor	Naloxegol (Movantik)	gut, restoring function of enteric
antagonists	Methylnaltrexone (Relistor)**	nervous system
(PAMORAs)		
Intestinal	Lubiprostone (Amitiza)	Act on chloride channels to
secretagogues		stimulate fluid secretion into
		intestinal lumen

Alvimopan (Entereg), Linactolide (Linzess), Prucalopride (Motegrity) are not addressed as they are not FDA-approved for OIC

### The Guidelines:

American Gastroenterological Association OIC Guidelines: AGA OIC Guidelines 2019

Strength of	Quality of Evidence
Recommendation	
Strong	Moderate
1. Strong	1. High
2. Strong	2. Moderate
3. Conditional	3. Low
No recommendation	Fridance Can
No recommendation	Evidence Gap
	Recommendation  Strong  1. Strong 2. Strong

<sup>\*</sup>recommend use of combination of at least 2 types of laxatives before escalating therapy to PAMORA

Medication	Dosing Regimen	Monitoring
Naldemedine	0.2mg PO daily	Avoid use in patients with severe hepatic
(Symproic)		impairment
		Do not use in case of obstruction
Naloxegol	25mg PO daily, can dose-	Requires dose adjustment for renal
(Movantik)	reduce to 12.5mg	impairment, avoid in severe hepatic
		impairment
		Do not use in case of obstruction
Methylnaltrexone	Chronic non-cancer pain:	Requires dose adjustment for renal and
(Relistor)	450mg PO daily or 12mg	hepatic impairment
	SubQ daily	Do not use in case of obstruction
	Advanced illness: weight	
	based dose SubQ every	
	other day as needed	
Lubiprostone	24mcg PO BID	Requires dose adjustment for liver
(Amitiza)		impairment
		Do not use in case of obstruction

## **Bottom Line:**

- It is important to keep in mind that UPMC has a formulary for OIC:
  - o **UPMC Formulary**: OIC 2019
  - o Preferred, formulary agent: 1st line: Naloxegol (Movantik®)
    - o Formulary-restricted agents (restricted to: Pain Service, Oncology, Critical Care, GI, Palliative Care): 2<sup>nd</sup> line: Naldemedine (Symproic®) 3<sup>rd</sup> line: Methylnaltrexone (Relistor®)
- Some agents are not specifically approved for OIC; therefore would not recommend their use for
- No head-to-head trials of these OIC agents exist

Stay tuned in 2 weeks for a review of the evidence behind some of these recommendations...

<sup>\*\*</sup>Methylnaltrexone is the only PAMORA with an FDA-approved indication for OIC in patients with advanced illness or pain caused by active cancer requiring dosage escalation. Others are approved for patients with OIC in chronic noncancer pain