

Opioid-induced bowel dysfunction

MASCC/ISOO

Annual Meeting on Suppportive Care in Cancer

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Disclosures

I have received honoraria for speaking at satellite symposia from Astra Zeneca, Kyowa Kirin, and Wyeth Pharmaceuticals.



I have received honoraria for attending advisory boards from Astra Zeneca, Kyowa Kirin, Shionogi, and Wyeth Pharmaceuticals.

I have received research funding from Kyowa Kirin.



Disclosures



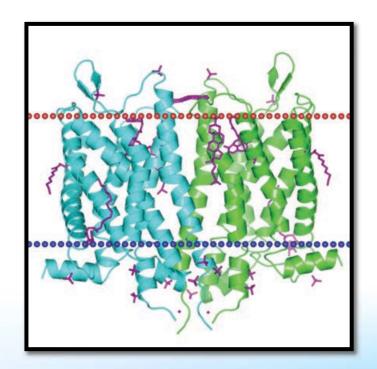


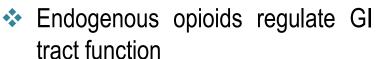


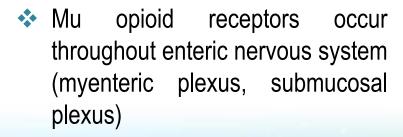


BACKGROUND











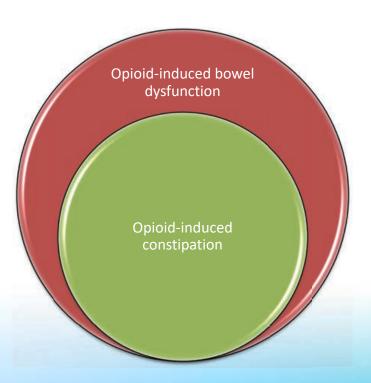
2019
21-23 JUNE
SAN FRANCISCO
SUPPORTIVE CARE
MAKES EXCELLENT
CANCER CARE POSSIBLE

Opioid-induced bowel dysfunction (OIBD)

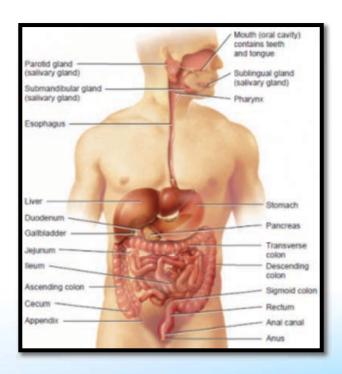


Opioid-induced constipation (OIC)









Opioid-induced bowel dysfunction:

- Salivary gland dysfunction
- Oesophageal dysfunction
- Gastroparesis
- Sphincter of Oddi dysfunction
- Other problems

Narcotic bowel syndrome (central effect)





OPIOID-INDUCED CONSTIPATION



Functional constipation

#

Opioid-induced constipation (OIC)





Pathophysiology:

- Decreased small bowel motility
- Decreased water & electrolyte secretion small bowel
- Increased tone ileocaecal valve
- Decreased large bowel motility
- Increased water & electrolyte absorption large bowel
- Increased tone anal sphincter
- Reduced anorectal sensitivity (to distension)







Rome IV diagnostic criteria:

- New or worsening symptoms of constipation when initiating, changing, or increasing opioid therapy that must include 2 or more of the following:
 - a) straining during $> \frac{1}{4}$ (25%) of defaecations
 - b) lumpy or hard stools (BSFS 1-2) > $\frac{1}{4}$ (25%) of defaecations
 - c) sensation of incomplete evacuation > $\frac{1}{4}$ (25%) of defaecations
 - d) sensation of anorectal obstruction/blockage > 1/4 (25%) of defaecations
 - e) manual manoeuvres to facilitate > 1/4 (25%) of defaecations



Rome IV diagnostic criteria:

- New or worsening symptoms of constipation when initiating, changing, or increasing opioid therapy that must include 2 or more of the following:
 - f) fewer then 3 spontaneous bowel movements per week
- Loose stools are rarely present without the use of laxatives

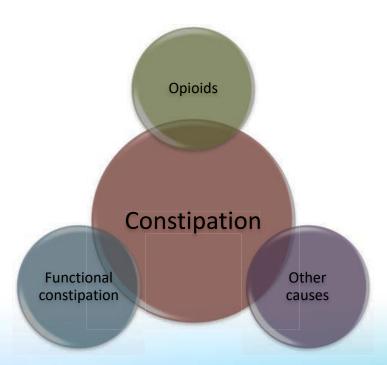


Epidemiology:

Common









- Abdominal pain
- Anorexia
- Early satiety
- Nausea
- Vomiting
- Abdominal distension
- Diarrhoea ("overflow")





- Flatulence
- Halitosis
- Heartburn
- Intestinal obstruction
- Intestinal perforation
- Anal fissure
- Haemorrhoids



- General malaise
- Confusion
- Headache
- Pulmonary embolism
- Urinary retention





- Psychological problems
- Social problems
- [Health economic burden]





"When I am faced with taking a pain med, I will always think about the constipation that might result, and so I will try to take the smallest dose possible or do without"



Dhingra L et al. A qualitative study to explore psychological distress and illness burden associated with opioidinduced constipation in cancer patients with advanced disease. Palliat Med 2012; 27: 447-56.

Management:

- Lifestyle measures
- Conventional laxatives
- Rectal interventions
- Lubiprostone*
- Prucalopride*
- Peripherally acting mu opioid receptor antagonists (PAMORAs)*
- Opioid switching
- Other interventions

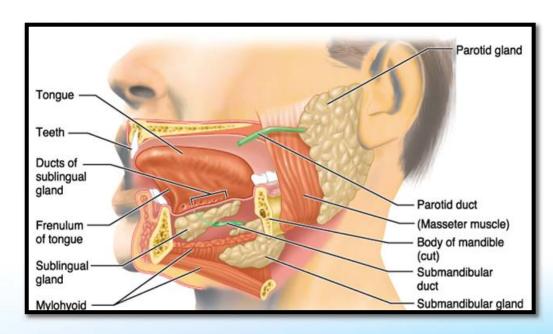




OPIOID-INDUCED BOWEL DYSFUNCTION



Salivary gland dysfunction

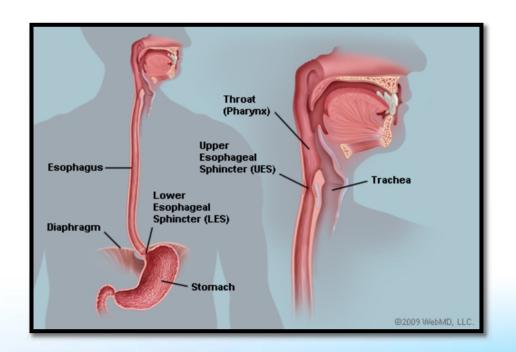


Salivary gland dysfunction:

- general problems (e.g. oral discomfort)
- eating-related problems
- speech-related problems
- poor oral hygiene
- oral infections
- systemic infections
- dental / denture problems
- psychosocial problems
- miscellaneous problems (e.g. oesophagitis)



Oesophageal dysfunction



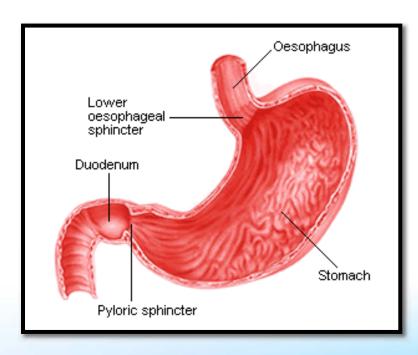


Oesophageal dysfunction:

- dysphagia (liquids)
- regurgitation
- chest pain



Gastroparesis

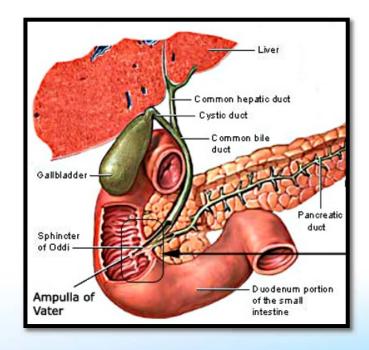


Gastroparesis:

- early satiety
- postprandial fullness
- nausea / vomiting
- bloating
- upper abdominal pain
- hiccoughs



Sphincter of Oddi dysfunction





- biliary colic
- acute pancreatitis



Opioid-induced bowel dysfunction

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Management:

- \diamond Discontinue opioid $\sqrt{}$
- Dose reduce opioid (x)
- \Rightarrow Switch opioid ($\sqrt{}$)
- ❖ PAMORAs (?)
- ightharpoonup Symptomatic management ($\sqrt{}$)
- Other strategies (?)





Sphincter of Oddi dysfunction

Management:

Switch opioid

"Good" opioids: buprenorphine, pethidine, tramadol

"Bad" opioids: fentanyl, morphine, oxycodone, tapentadol, loperamide

PAMORAs

Prevention: naloxegol (case report)

Treatment: naloxone (case reports)





Sphincter of Oddi dysfunction

Management:

Symptomatic management*
Antispasmodic medication: nifedipine, GTN, hyoscine butylbromide, phosphodiesterase type 5 inhibitor, tricyclic antidepressants, somatostatin analogues, botulinum toxin



Other strategies
 Sphincterotomy: endoscopic, surgical





CONCLUSION



Conclusion

Message to non-specialists:

Opioids are not the cause of every problem!





Conclusion

Message to specialists:

Opioids can be the cause of many problems

(so it could be the opioid!)



