

PNURSING MANAGEMENT OF PAIN IN PEOPLE WITH COVID-19

PAIN SYNDROMES COMMONLY REPORTED DURING COVID-19

- Arthralgias/myalgias due to infection, rigors
- Chest/thoracic/rib pain associated with persistent, severe cough
- Headache



- Sore throat
- · Procedure-associated pain
- Exacerbation of chronic pain, especially in those with preexisting serious illness

PHARMACOLOGIC MANAGEMENT: ACETAMINOPHEN

For patients quarantined at home, educate regarding acetaminophen content in many over-the-counter medications and the potential for overdose. Medications for a variety of conditions often contain acetaminophen: PAIN

- Antipyretic and analgesic but not anti-inflammatory
- Hepatic toxicity at doses ≥ 4000 mg per day or lower in elderly or those with liver disease

COUGH LETHARGY ARTHRITIS SLEEP SINUS COLD HEADACHE

PHARMACOLOGIC MANAGEMENT: NSAIDS

- NSAIDs are antipyretic, analgesic, and anti-inflammatory
- The NIH COVID-19 Treatment Guidelines recommend that "persons with COVID-19 who are taking NSAIDs for a comorbid condition should continue therapy as previously directed by their physician."

THERE ARE RISKS IN TAKING NSAIDS FOR ANYONE WITH A SERIOUS ILLNESS:





• Acute Kidney Injury, a common occurrence in people with COVID-19







PHARMACOLOGIC MANAGEMENT: OPIOIDS



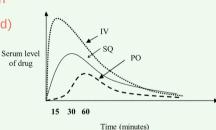
For moderate to severe pain (and anyone with a seriously illness with mild to moderate pain where NSAIDs and acetaminophen use limited)

Routes - helpful tips:

 Oral concentrated liquid (such as morphine or oxycodone) may be useful when dyspnea severe and swallowing tablets difficult

Transdermal fentanyl or buprenorphine – limit use with fever due to rapid absorption, possible sedation/respiratory depression

 IV morphine, hydromorphone or fentanyl for inpatient/ICU use



Peak effect: helps guide re-dosing and time activity to maximum effect

When converting between opioids or from one route to another:

DRUG	IV/SQ	ORAL
Fentanyl IV	0.1mg=100mcg	NA
Hydrocodone/ Acetaminophen	NA	30
Hydromorphone	1.5	7.5
Morphine	10	30
Oxycodone	NA	20
Tramadol	NA	120

PHARMACOLOGIC MANAGEMENT: OTHER AGENTS

- Gabapentinoids toxicity reported with chronic kidney disease or worsening acute renal failure, common in
 - o Renal dosing If patient already on gabapentin or pregablin for existing pain, dose reduce if CrClc < 60
 - Hepatic dosing no adjustments warranted



- Renal dosing If patient already on duloxetine, decrease dose if CrClc < 90, avoid use or stop if ≤ 30
- Hepatic dosing avoid if pt with liver disease (Child-Pugh Class A, B, C)



 For patients on oral corticosteroid therapy for other conditions (e.g. cancer pain) prior to COVID-19, these should not be discontinued





NONPHARMACOLOGIC MANAGEMENT



- · Bracing with Pillow During Cough
- Distraction
- Heat
- · Menthol topical
- Positioning
- Spiritual care



- American Association of Colleges of Nursing (AACN) and City of Hope (COH). (2020). End-of-Life Nursing Education Consortium (ELNEC). Accessed April 29, 2020 from: https://www.aacnnursing.org/ELNEC
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- Paice, J.A. (2019). Pain management. In: B.R. Ferrell and J.A. Paice (Eds.), Oxford textbook of palliative nursing, 5th edition (Chapter 9, pp. 116-131). New York, NY: Oxford University Press.

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