Diphenoxylate

MOA: Diphenoxylate is an opiate receptor agonist that stimulate mu receptors in GI to decrease the peristalsis and constrict the sphincters. Diphenoxylate has a direct effect on circular smooth muscle of the bowel, that conceivably results segmentation and prolongation of gastrointestinal transit time.

Uses: it is mainly used for treating diarrhea. It helps to decrease the number and frequency of bowel movements.

Loperamide

MOA: Similar to diphenoxylate Uses: This medication is used to treat sudden diarrhea (including traveler's diarrhea). Loperamide is also used to reduce the amount of discharge in patients who have undergone an ileostomy.

Methadone

MOA-In addition to opioid receptor agonist activity, methadone also act as antagonist of the N-methyl-D-aspartate (NMDA) receptor and it strongly inhibits serotonin and norepinephrine uptake.

Uses-Methadone is indicated for the management of pain severe enough to require an opioid analgesic and for which alternative treatment options are inadequate. It is also used in treating drug addiction, since it replaces other agonists on the receptor.

Fentanyl

N-phenylpiperidin-4-amine

MOA: Similar to morphine

Uses: It is uses both independently and in combination with droperidol for preanesthetic medication, in different forms of narcosis, and in post-operational anesthesia.

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