Pethidine

Pethidine, also known as meperidine, is a synthetic opioid analgesic medication. It is primarily used for the relief of moderate to severe pain. Here's the information you requested:

Drug classification:

Pethidine belongs to the class of medications known as opioid analgesics or narcotics.

Desired effect:

The primary desired effect of pethidine is pain relief. It can be used for a variety of conditions such as postoperative pain, labor pain, and other acute or chronic painful conditions.

Mechanism of action:

Pethidine acts by binding to opioid receptors in the central nervous system (CNS). It primarily activates the mu-opioid receptors, which reduces the transmission of pain signals and alters the perception of pain in the brain.

Most common adverse effects:

Adverse effects associated with pethidine use can include:

- 1. Nausea and vomiting: Pethidine has a higher incidence of causing nausea and vomiting compared to other opioids.
- 2.**Sedation and drowsiness:** Pethidine can cause drowsiness and sedation, which may impair cognitive and motor functions.
- 3. **Respiratory depression:** Like other opioids, pethidine can suppress respiratory function, especially at higher doses.
- 4. **Constipation:** Opioids commonly cause constipation by slowing down gastrointestinal motility.
- 5. **Itching and rash:** Some individuals may experience itching or develop a rash as a side effect of pethidine.

Most common side effects:

Some common side effects of pethidine may include:

- 1.Dry mouth
- 2.Sweating
- 3. Dizziness
- 4. Headache
- 5.Confusion
- 6.Weakness
- 7. Euphoria or dysphoria (mood changes)

Antidote:

The primary antidote for pethidine overdose or toxicity is naloxone, an opioid receptor antagonist that can reverse the effects of opioid overdose.

When it should be administered:

Pethidine should be administered as prescribed by a healthcare professional. The timing and dosage will depend on the individual's condition and pain severity

Nursing responsibilities:

- 1. Assessing the patient's pain level before and after administering pethidine.
- 2.Monitoring vital signs, including respiratory rate, heart rate, and blood pressure, especially during the initial doses or when increasing the dose.
- 3. Monitoring for adverse effects such as nausea, vomiting, sedation, and respiratory depression.
- 4.Educating the patient and family about potential side effects, precautions, and signs of opioid overdose.
- 5.Ensuring proper documentation of the medication administration, including dosage, time, and patient response.

Findings that prevent administration:

Pethidine should not be administered or should be used with caution in the following situations:

- 1. Hypersensitivity or known allergy to pethidine or other opioids.
- 2. Severe respiratory depression or compromised respiratory function.
- 3. History of seizures or increased intracranial pressure.
- 4.Use of monoamine oxidase inhibitors (MAOIs) within the past 14 days, as it can lead to serotonin syndrome.
- 5. Pregnancy, especially near-term or during labor, as pethidine can affect the newborn.

