

OPIOID ANALGESICS

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Opioid, and Narcotic Analgesic

- The most widely used and effective of narcotic analgesics are derived from opium alkaloids. Morphine is one typical example



Opioids

- Opioids are used to treat acute pain and palliative

Opioid receptors

- **The main types of opioid receptors:**

Opioid receptors ligands

- **Endogenous Opioids**
 - Endorphins
 - Enkephalins
 - Dynorphins
 - Endomorphins

Opioid receptors ligands

Opioid uses

- **Pain relief : acute pain after surgery ,injury or trauma, cancer pain, and pain arising from disease**

Opioid side effects

1. Nausea and vomiting

Dependence vs. Addiction

- **Physical dependence: normal adaptations to chronic exposure to a drug, Stopping the drug leads to a withdrawal syndrome**

Dependence vs. Addiction

- **Withdrawal symptoms when use of the drug is abruptly reduced or stopped**

Opioid antagonist

- **Naloxone and naltrexone**
- **nalorphine and levallorphan**

