

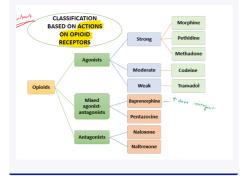
Pharmacology Musculoskeletal Cheat Sheet

by aina via cheatography.com/151298/cs/33317/

Type of analgesics

Opioids NSAIDs Paracetamol
Opiod = poppy

Opioids classification (Action on Rc)



Opioid Receptor

3 types opioid Rc

μ, κ, δ

Type of Rc

GPCR

Action of opioids

1. Close voltage gated Ca2+ in presynaptic neuron (↓ NT release). 2. Open K+ channel in postsynaptip neuron (↓ response to NT)

Functional effect associated with Rc

μ -> Respi depress, euphoria

κ -> Hallucination, dysphoria

δ -> less analgesic effect

Pharmacological effect

Pharmacokinetics

Cross BBB (Liphophilic: morphine < fentanyl, methadone, heroin)

Cross placenta

Poor oral bioavailability

Analgesic ladder



Opioids agonist

Heroin & Morphine

Acute MI, pulm edema, cancer

Fentanvl

Anaesthesia, Extremely potent, transdermal patch

Pethidine

labor (x ↓ uterine force, ↓ respi effect neonates)

Methadone

relieve opioid dependence

Codeine

mild pain, AE: constipation

Dextromethorphan

antitussive, cns effect

Tramadol

safe in lactation, post operative pain

Loperamide

diarrhea, neuropathic pain

Buprenorphine

partial agonist on µ

Pentazocine

rarely use dt AE

Opioid anatagonist

Adverse effect

D Dry mouth
E Euphoria
S Sedation
I Itch (Histamine release)
G GI (constipation)
N Nausea and vomiting
E Eyes (pupillary constriction)
R Respiratory depression

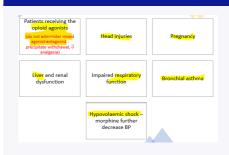
Opioids poisoning: CLinical triad

- 1. CNS depression
- 2. Respi depression
- 3. Pupil constriction

Withdrawal symptoms



Contraindication



Respi depression ↓ sensitive to pCO2,

pCO2↑, dilatation derebral

 $vessel, \ \uparrow \ intracranial$

pressure

Euphoria

Cough supression

Sedation

Miosis

Feature drug abuse & opioid poisoning, Antidote:

iv naloxone

Histamine release

Hypotension, bradycardia

Smooth

 \uparrow GIT tone -> Constipation,

muscle effect

↓ uterine tone → prolong labor

(GIT, bladder,

uterus

By aina

cheatography.com/aina/

Naloxone

Rapid reversal, no tolerance, no

withdrawal syndrome

Naltrexone

Longer DOA

Nalrophine

causing physical dependence

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