

# Medication for pain

# Classification of Pain

- Nociceptive: tissue injury, inflammation.
- Nociplastic: chronic widespread pain with no obvious cause.
- Neuropathic: injury or disease in central or peripheral nervous system.
- Psychogenic: pain coexisting with psychological or psychiatric dysfunction.

# Pharmacological management of pain

## 1. Nociceptive Pain

- a. NSAID: Diclofenac, Brufen etc.
- b. Paracetamol
- c. Cox-2 inhibitors: Etoricoxib
- d. Codein
- e. Tramadol
- f. Local injections (intramuscular) Lidocaine, Botulinum Toxin
- g. (Opioids)\*
- h. (CBD)\*

# Pharmacological pain management

## 2. Nociceptive Pain

- a. Amitriptyline
- b. Duloxetine
- c. Gabapentine
- d. Pregabalin
- e. Naltrexone
- f. (CBD)\*

# Pharmacological pain management

## 3. Neuropathic pain

- Amitriptyline
- Duloxetine
- Gabapentin
- Pregabalin
- Clonidine (Catapresan)
- Botulinum Toxin
- Lidocaine patches
- Capsaicine patches
- Tramadol
- (CBD)\*

# Pain management

- **Coexisting neuropathic and nociceptive or nociplastic pain**
  - a. Neuropathic pain should have higher priority to treat
  - b. Combination therapy:
    - Amitriptylin/Duloxetine + Paracetamol
    - Amitriptylin/Duloxetine and/or Gabapentin/pregabalin + paracetamol
    - Amitriptylin/Duloxetine and/or Gabapentin/Pregabalin + Paracetamol + NSAID/cox 2 inhibitors
    - Botulinum Toxin/Capsaicine patch, with or without Clonidine
    - Capsaicine patch/Lidocaine patch

# Treatment of other comorbidities could help in reducing pain intensity

- Dysautonomia
- MACS
- Microglia
- Sleeping disorders
- Proprioceptive impairment
- Anxiety/Depression
- Fatigue
- Dyspareunia
- Dysmenorrhea

Thank you