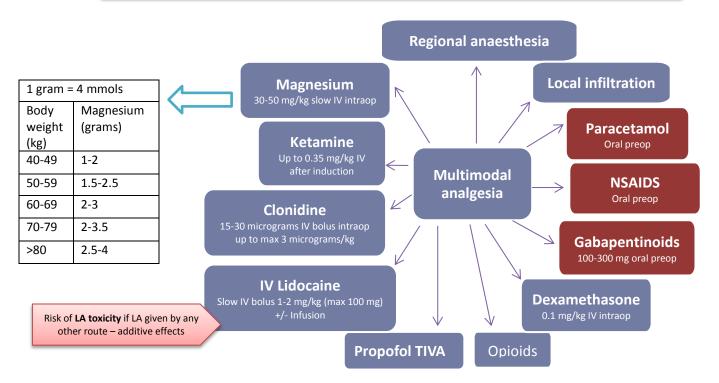
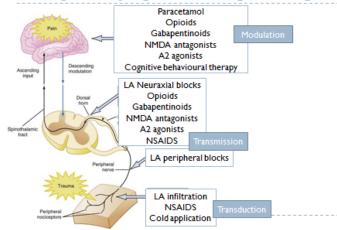


MULTIMODAL OPIOID SPARING ANAESTHESIA



Pain pathways pharmacological targets



Multimodals - Indications

Major surgery with expected severe postoperative pain

Patients at risk of opioidrelated respiratory depression:

- Obstructive sleep apnoea (OSA)
- Severe renal impairment
- Elderly
- Frail
- Severe COPD

Opioid tolerant or opioid dependent surgical patients

Patients at higher risk for severe postoperative pain:

- Tobacco use
- Alcohol and substance abuse disorders
- Mood disorders
- Anxiety
- Catastrophising behaviour
- Chronic pain
- · Pre-admission opioid use

Remifentanil is related to **acute opioid tolerance** (AOT) and/or **opioid induced hyperalgesia** (OIH) <u>Prevention strategies</u>:

- 1) Combine with Multimodals, especially NMDA receptor antagonists
- 2) Avoid high infusion rates to provide 'hypnotic-sparing anaesthesia'
- 3) If need for remifentanil TCI Cpt > 5 nanograms/ml to manage autonomic responses, then **give appropriate long** lasting analgesia (e.g epidural bolus, morphine, etc.) instead of increasing rate
 - 4) Combine with **Propofol TCI** vs inhalational agents

5) Use TCI vs ml/hr

6) 'Bridge' to postoperative analgesia either during, or at completion of, surgery, before the infusion is terminated.

1 in 3 patients on long term opioids were first prescribed opioids after surgery
1 in 10 adults are on prescribed opioids for chronic non-cancer pain
Opioid related deaths increase to the highest ever rate