## **Drug Portfolio**

Drug class	examples	Mode of action & indication	Risks & adverse effects	Contraindications	Practice points
		Anal	Analgesic agents		
Non-narcotics/ non-opioid	Aspirin Paracetamol	Mode of action  Aspirin Aspirin has analgesic, antipyretic, anti-inflammatory and antiplatelet actions.	Risks/adverse effects Aspirin Nausea Dyspepsia	Contraindications Aspirin Allergic to aspirin or other NSAID	Aspirin  Monitor for GI bleeding, renal failure or hepatic dysfunction in chronic use
		Paracetamol  Mechanisms involved in its analgesic effect may include inhibition of central prostaglandin synthesis and modulation of inhibitory descending serotonergic pathways. Paracetamol has negligible anti-inflammatory effects  Indications	Vomiting GI ulceration or bleeding Asymptomatic Blood loss Increased bleeding time Headache Dizziness Tinnitus  Paracetamol	Surgery Bleeding disorders Hepatic disease Eldery (increased risk of AE) Pregnancy Breastfeeding	if regular paracetamol alone is inadequate for treating pain, adding an NSAID may provide additional analgesia and allow use of lower or intermittent doses of NSAID  Onset of pain relief is approximately 30 minutes after oral administration
		Aspirin Mild to moderate pain Fever Acute migraines Inhibitor of platelet aggregation  Paracetamol Mild to moderate pain	Paracetamol Increased aminotransferases	Paracetamol Chronic liver disease - may be at increased risk of liver damage following therapeutic dose or overdose of paracetamol	minutes after oral administration  Give IV infusion over 15 minutes
NSAIDS	Ibuprofen Aspirin (analgesic) Ketoprofen	Mode of action  Have analgesic, antipyretic and anti-inflammatory actions. They inhibit synthesis of prostaglandins by inhibiting cyclo-oxygenase (COX) present as COX-1 and COX-2:  inhibition of COX-1 results in impaired gastric cytoprotection and antiplatelet effects  inhibition of COX-2 results in anti-inflammatory and analgesic action reduction in glomerular filtration rate and renal blood flow occurs with both COX-1 and COX-2 inhibition  Indications  Pain due to inflammatory athropathies  Pain due to inflammatory and tissue injury	Risks/adverse effects Dehydration Renal failure Asthma Nausea Dyspepsia GI ulceration or bleeding Raised liver enzymes Diarrhoea Headache Dizziness Salt and fluid retention Hypertension	Contraindications Coagulation disorders Bleeding Surgery Peptic ulcer disease or GI bleeding Hypersensitivity reactions Hepatic impairment Elderly (increase risk of adverse effects) Women (impaired fatality) Pregnancy	For extra pain relief NSAIDs may be used with paracetamol and, if pain is severe, an opioid, eg tumour metastases in bone  Do not stop low-dose aspirin treatment when using an NSAID  Before starting chronic treatment, measure complete blood count, haemoglobin, BP, weight, creatinine and liver function, and repeat at least once a year during continued treatment