


Musculoskeletal

- 
- Acetaminophen
 - Allopurinol
 - Celecoxib
 - Cyclobenaprine
 - Etanercept
 - Ibuprofen

- Indomethacin
- Infliximab
- Ketorolac
- Probenecid & colchicine

[Acetaminophen]

- Analgesic, antipyretic
- COX-3 inhibitor
- Inhibits COX-3 selectively
- Inhibits synthesis of PG causing pain & fever
 - Mild-moderate pain
 - Fever
 - Lacks anti-inflammatory & antiplatelet activity
- OD cause fatal hepatic failure
- ↑ hepatotoxicity w/ alcohol
- ↑ renal toxicity w/ salicylates & NSAIDs

Allopurinol

- Antigout
- Xanthine oxidase inhibitor
- Inhibits xanthine oxidase & catabolism of purines → xanthine & uric acid
 - ↓ uric acid levels
 - Prevent hyperuricemia & gout
- Rash
- Inhibits metabolism
 - Mercaptopurine

Celecoxib

- NSAID
- COX-2 inhibitor
- Inhibits COX-2 & synthesis of PG causing pain, fever, & inflammation
 - OA
 - RA
 - Inflammatory jt ds
- GI bleeding
- ↑ risk stroke & MI

Cyclobenzaprine

- Skeletal m. relaxant
- **Tricyclic central-acting m. relaxant**
- **Acts on brainstem & spinal cord to reduce tonic somatic m. activity via γ & α motor neurons**
 - Acute muscle spasm
- Dizziness
- Drowsiness
- Dry mouth
- AVOID MAOI

Etanercept

- Antirheumatic agent, antitumor necrosis factor
- Antitumor necrosis factor – p57 combined w/ Fc of IgG
- Binds TNF- α & \downarrow jt inflammation & pain
- Slows progression of RA
 - RA
- URI
- HA
- \downarrow Ab response to live virus vaccines

Ibuprofen

- **NSAID**
- **Nonselective COX inhibitor**
- **Inhibits COX-1 & COX-2 & synthesis of PG causing pain, fever, & inflammation**
 - **Mild-moderate pain or dysmenorrhea**
 - Inflammatory disorders
 - **OA**
 - **RA**
 - ↓ risk colon, breast, lung, & prostate cancers
- **GI bleeding**
- N, V
- Dyspepsia
- Allergic rxns
- Hepatitis & renal failure

Indomethacin

- NSAID
- **Nonselective COX inhibitor**
- **Inhibits COX-1 & COX-2**
 - Inflammatory disorders
 - **Gouty arthritis**
 - OA
 - RA
 - Ankylosing spondylitis
 - **PDA in premature neonates**
- **GI bleeding**
- N, V
- Dyspepsia
- Allergic rxns
- Dizziness
- Drowsiness
- HA

Infliximab

- Ds modifying antirheumatic
- **Monoclonal Ab to TNF- α**
- **Inactivates TNF- α & ↓ jt inflammation, pain, & destruction**
- **↓ Sx of Crohn's ds**
 - **RA**
 - **Crohn's ds**
- Fatigue
- N, V
- URI

[Ketorolac]

- NSAID
- Nonselective COX inhibitor
- Inhibits COX-1 & COX-2 & synthesis of PG causing pain, fever, & inflammation
 - Short-term pain management
 - Prolongs bleeding time
 - Limit use to < 5d
 - Aspirin-allergy
 - Allergic rxn in pt w/ asthma
 - Nasal polyps

Probenecid & Colchicine

- Antigout
- **Uricosuric** – probenecid
- **Anti-inflammatory** – colchicine

- **Probenecid**
 - Inhibits renal reabsorption of uric acid & ↑ uric acid secretion
- **Colchicine**
 - **Inhibits leukocyte response to monosodium urate crystals in jt**

 - **Acute gouty arthritis**
 - Prevent gouty arthritis

- **Probenecid**
 - **Inhibits renal tubular secretion of Penicillins**
 - Used to ↑ penicillin serum levels
- **Colchicine**
 - D
 - N, V
 - **Agranulocytosis & aplastic anemia**