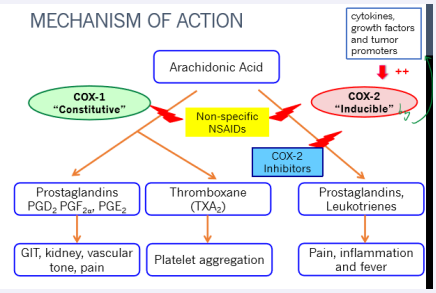
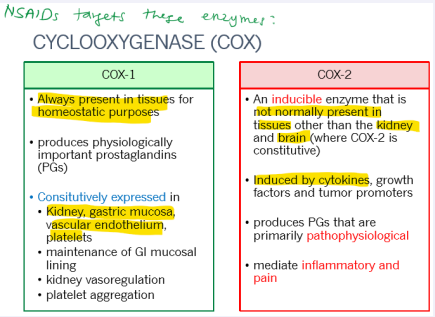
# NSAIDS Cheat Sheet

by aina via cheatography.com/151298/cs/33445/

## MOA




## Enzyme targets by NSAIDs

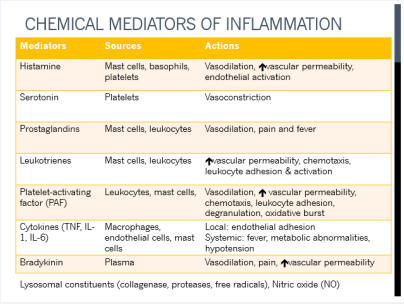



REMEMBER

COX-2
= C = K = Kidney
= 2 = B = Brain

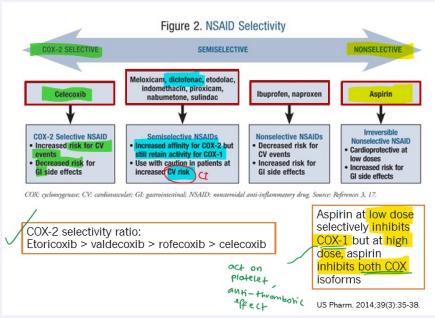
COX-1 = 1 = Number 1 so good at affecting everything else

## Chemical mediators of inflammation




extra information

## Common NSAIDs




NOTES:
* Cannot take other NSAIDs before taking aspirin because they may prevent aspirin action
* COX-2 selective has less AE of GI
* Naproxane less CVS effect dt antithrom-boxane

REMEMBER:

**"ABCDiN"**
- Aspirin
- iBuprofen, Naproxen
- COX-2 selective
- Diclofenac

COX-2 Selective, remember **"-coxib"**
main: Celecoxib

## Beneficial effects of inhibition PG synthesis

Analgesia
- ↓Bradykinin, 5-HT (serotonin)

Antipyretic
- ↓ IL-1, reset thermostat

Anti-inflammatory
- ↓ PGE2, PGI1

Antithrombotic
- by aspirin at low dose (permanent acetylation, inhibit platelet activation)

Arteriosus (NSAIDs for closure of patent ductus arteriosus)

## Adverse effect

**nSAIDS**
- Allergy
- Impaired
- Renal function
- Damage stomach wall (ulcer)

## Contraindication

Bleeding
- Avoid in patient:
-Anticoagulants
-Pregnancy 3rd trimester (premature close DA, risk bleeding)
Inhibit platelet cycloxygenase (COX), thereby **blocking the formation of thromboxane A2 (TXA2)** and impairing TXA2 dependent platelet aggregation

Asthma
- Inhibition of COX pathway shifts the arachidonic acid metabolism to **Lipoxy-genase (LOX) pathway** leading to **increased leukotriene synthesis**

Allergy

Stomach (Peptic ulcer, gastritis)
- Mucosal damage by –
COX-1 inhibition: Reduced blood flow
Topical irritation: Epithelial damage
COX-2 inhibition: Leukocyte adherence
*Can prescribe PPI for gastro-protection

CVS event
- angina, recent cardiac bypass usrgery, MI, any CV events

REMEMBER
**CBARS**

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