Celecoxib

This is a COX-2-selective NSAID that lacks many of the toxic GI effects of other NSAIDS that have COX-1 inhibitory affects in addition to COX-2. This was a source of much promise initially; however, Celecoxib has been found to increase the risk of thrombosis possibly due to decreased prostacyclin production causing platelet aggregation.



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Indications

Rheumatoid Arthritis
Roman King-Arthur
Celecoxib can be used in rheumatoid arthritis, as it is helpful in patients who need regular and long-term pain relief.

Osteoarthritis
Ostrich-King-Arthur
Celecoxib is indicated for use in osteoarthritis, as it has less side effects than other NSAIDs.

Pain
Pain-bolt
Celecoxib relieves pain via inhibition of COX-2.

Mechanism of Action

NSAID
N-sad
Celecoxib is an NSAID; however, unlike most other NSAIDs it selectively blocks COX-2 and has little effect on COX-1.

Selectively Inhibits COX-2
Selectively puts Inhibiting-chains on Cock in (2) Tutu only
Due to it’s selective inhibition of COX-2, it does not have toxic GI effects which are mediated through inhibition of COX-1.

Side Effects

Sulfa Allergy
Sulfur-match Allergy-alligator
Celecoxib is a sulfonamide drug that can cause sulfa allergy.

Increased Risk of Thrombosis
Up-arrow Risk of Trombone
This is believed to occur due to COX-2 expression in vascular endothelial cells. Inhibition of COX-2 leads to decreased prostacyclin production and platelet aggregation.

Reduced GI Bleeding Risk vs. Non-selective NSAIDs
Down-arrow GI-guy Bleeding vs. N-Sad
Celecoxib is less likely than non-selective NSAIDs to cause GI toxicity and bleeding because it selectively inhibits COX-2 while sparing COX-1, which helps maintain the protective gastric mucosa. However, GI complications can still occur, particularly in patients with a history of peptic ulcer disease, the

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elderly, and those taking concurrent medications such as aspirin, anticoagulants, corticosteroids, or SSRIs. When celecoxib is combined with aspirin, the GI protective advantage is significantly diminished.

Contraindication

Pregnancy > 30 Weeks

Caution-tape Pregnant-woman with Greater-than Dirty-30

It is a category D drug after 30 weeks gestation and should not be prescribed.