pharmEBGE

UNLOCKING THE POWER OF OMEPRAZOLE AND NSAIDS

A Winning Co-Prescription for Pain Relief and Gastric Wellness



Need of gastro-protection in NSAID-induced Ulcer

To prevent NSAID-induced gastropathy, **three strategies are followed in clinical routine**: co-prescription of a gastroprotective drug, use of selective COX-2 inhibitors, eradication of *Helicobacter pylori*

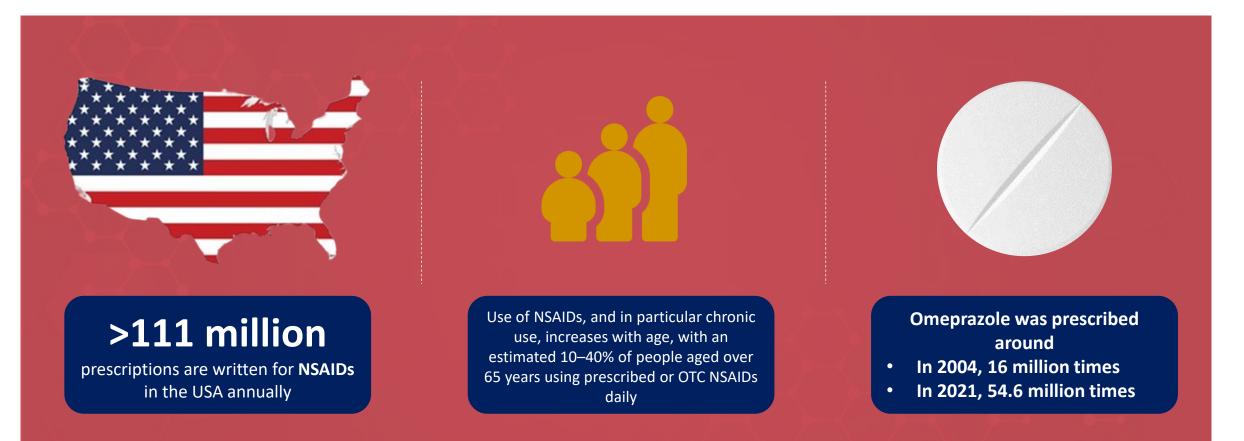
Proton pump inhibitors like Omeprazole is used as the comedication of choice as they effectively reduce gastrointestinal adverse events of NSAIDs and are safe even in long-term use

PPIs control both **basal and food-stimulated acid secretions**, producing complete and longer-lasting acid suppression than H2 receptor antagonists (H2RAs)

Abbreviations: NSAIDs, Non Steroidal Anti-Inflammatory Drugs; GI, Gastrointestinal; COX-2, Cyclo-oxygenase-2; H2RAs, H2 receptor antagonists Reference: 1. Gwee KA, Goh V, Lima G, Setia S. Coprescribing proton-pump inhibitors with nonsteroidal anti-inflammatory drugs: risks versus benefits. J Pain Res. 2018 Feb 14;11:361-374.

Epidemiology

According to global estimates, **NSAIDs** are some of the most frequently utilized medications worldwide and taken by approximately **30 million people per day**



Abbreviations: NSAIDs, Non Steroidal Anti-Inflammatory Drugs; OTC, over the counter

Reference: 1. Farah RI, Khatib AE, Abu Ziyad HJ, Jiad DK, Al Qusous LR, Ababneh AJ, Ajarmeh S. Pattern of use and awareness of side-effects of non-steroidal anti-inflammatory drugs in the Jordanian population. Ann Med. 2023;55(2):2242248.2.https://www.statista.com/statistics/780397/omeprazole-prescriptions-number-in-theus/#:~:text=In%202004%2C%20omeprazole%20was%20prescribed,2004%20to%20201%2C%20in%20millions 3. Conaghan PG. A turbulent decade for NSAIDs: update on current concepts of classification, epidemiology, comparative efficacy, and toxicity. Rheumatol Int. 2012 Jun;32(6):1491-502.

Omeprazole in NSAID-induced Ulcers

