

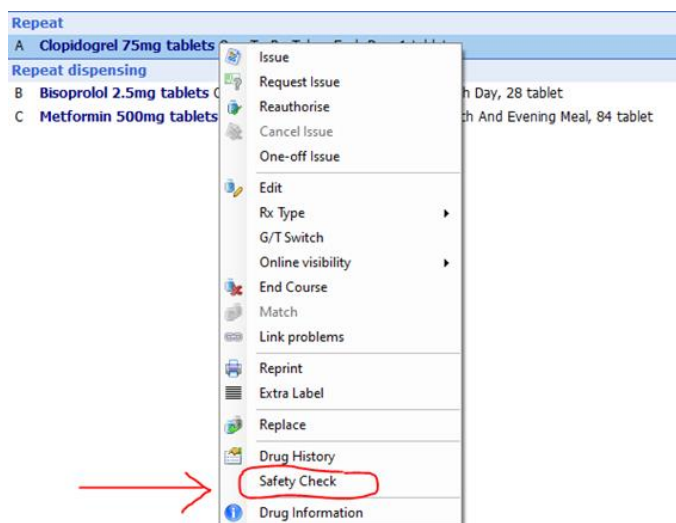
**Prescribing Tip For Information**

**Interaction between clopidogrel and proton pump inhibitors (PPIs)**

**Avoid the combined use of clopidogrel with omeprazole or esomeprazole due to a significant interaction. Other PPIs are considered safe with clopidogrel. (see SPS for further information)**

- Clopidogrel is a pro-drug activated by the enzyme CYP2C19. Omeprazole and esomeprazole are inhibitors of this enzyme meaning concurrent use can reduce plasma levels of activated clopidogrel.
- Although other PPIs can inhibit CYP2C19 to a lesser extent, clinically significant interactions have not been observed.
- Therefore, omeprazole and esomeprazole should be avoided in patients taking clopidogrel. Lansoprazole, pantoprazole or rabeprazole should be used in preference.
- The [Medicines and Healthcare products Regulatory Agency \(MHRA\)](#) and European Medicines Agency (EMA) advise against concurrent use of clopidogrel with omeprazole and esomeprazole. They do not extend this recommendation to other PPIs.
- It should be borne in mind that patients can buy omeprazole and esomeprazole
- The use of other known CYP2C19 inhibitors (such as fluoxetine, cimetidine, voriconazole, fluconazole, ciprofloxacin, carbamazepine and oxcarbazepine) with clopidogrel should also be discouraged because these are expected to have a similar effect to omeprazole and esomeprazole.

**Patients prescribed clopidogrel and omeprazole or esomeprazole should be reviewed for an alternative PPI. This interaction is included within the CQC clinical searches which check the provider is appropriately actioning MHRA/CAS/drug safety update alerts. A search has been produced by Ardens and is freely available to all.**



Interactions can be checked for using the BNF, the Summary of Product Characteristics ([emc](#)) and the EMIS safety check function

**DUCK, Donald (Mr)** Born [redacted] NHS No. **Unknown**

Name: Omeprazole 20mg gastro-resistant capsules  
Dosage: One To Be Taken Each Day  
Quantity: [ ] capsule Duration: 28 Day(s)  
Rx Types: Acute  
Authorising Clinician: [redacted]  Private  Personally-administered  For STI – free of charge

Description	Price	Sup
<b>28 capsule</b>	<b>£1.09</b>	<b>Dru</b>
28 capsule	£16.70	Neo
28 capsule	£3.13	Tev
28 capsule	£0.59	Act
28 capsule	£0.84	Dex
250 capsule	£8.50	Viat
100 capsule	£3.07	San

Optional Prescrip...

Warnings Drug Information Current Medication Past Medication Allergies Problems

Selected Drug - **Omeprazole 20mg gastro-resistant capsules**  
Contains - Omeprazole 20 mg

**Medium Severity Warnings (1)**

**Drug to Drug Interaction** Omeprazole is predicted to decrease the efficacy of Clopidogrel. Manufacturer advises avoid.  
Clopidogrel 75mg tablets

To contact the Medicines Optimisation Team please phone 01772 214302

If you have any suggestions for future topics to cover in our prescribing tips please contact [Nicola.schaffel@nhs.net](mailto:Nicola.schaffel@nhs.net)

All content accurate and correct on the date of issue of this tip.