Wye Valley NHS Trust

Proton Pump Inhibitors and antibiotics

Minimising the *Clostridium difficile* risk

Proton pump inhibitors (PPIs) e.g. lansoprazole, omeprazole, esomeprazole and rabeprazole are associated with increased *Clostridium difficile* risk [(1)].

In order to reduce the incidence of *C difficile* a review of all PPIs is recommended on admission, and **wherever clinically possible PPIs should be withheld if antibiotics are to be commenced and recommenced only after the antibiotics are completed and if symptoms of acid reflux recur, or if otherwise indicated.**
(see PPI deprescribing algorithm overleaf)

Indications where PPIs **should** continue include

- Known peptic stricture
- Active duodenal or gastric ulcer
- Severe oesophagitis
- Barrett's Oesophagus
- Clinically high risk because of co-prescribed medicines e.g NSAIDs, aspirin, clopidogrel especially if there is a history of previous NSAID induced ulcers

Indications where PPIs **may** be continued include

- Stress ulcer prophylaxis after abdominal surgery

The reason for withholding the PPI should always be clearly documented in the notes, and on the inpatient medication chart. If the PPI is not recommenced before discharge then the reason for withholding it should also be included on the EDS, with advice to recommence if symptoms recur.

For the patients who are prescribed PPIs for symptoms of acid reflux consider prn Peptac or ranitidine 150mg bd (H2RA) if needed for a recurrence of symptoms

To prompt the review of PPI pharmacy staff will use stickers on the inpatient medication charts

Consider omitting **PPI** with antimicrobials :
Inc C. diff. RISK

For further information see
http://www.open-pharmacy-research.ca/evidence-based-ppi-deprescribing-algorithm

1. Janarthanana S, Ditah I, Adler D, and Ehrinpreis M. Clostridum difficile – associated Diarrhoea and Proton Pump Inhibitor Therapy: A Meta Analysis. AM J of Gastroenterology 2012: 1007;1001-1010

2. Farrell B Pottie K, Thompson W et all. Evidence –based clinical practice guideline for deprescribing proton pump inhibitors. http://www.open-pharmacy-research.ca/evidence-based-ppi-deprescribing-algorithm accessed 20/10/2015

Wye Valley NHS Trust

Proton pump inhibitor (PPI) deprescribing algorithm