



# **Medication Error Bulletin**

Strives to promulgate preventable medication errors amongst healthcare professionals Brought to you by Pharmacy Department, HCTM | Volume 15, September 2024

## Wrong drug (Prescribing Error)

Tab. Pantoprazole was prescribed for a patient on Ryles Tube (nasogastric tube) The Error

The bioavailability of Tab. Pantoprazole is reduced to 75% of oral equivalent when given via NG tube Reasoning & most pantoprazole products do not recommend dispersion probably owing to their large bead sizes.

How can we avoid? If a patient is using a Ryles Tube and a PPI is indicated, instead of Tab. Pantoprazole, please consider

the following table of Proton Pump Inhibitors available in HCTM formulary instead;			
PPI, Brand name & Cost estimate	Description	Ryles tube- friendly?	Recommendation
1) <u>ESOMEPRAZOLE</u> CAPSULES			
EMANERA 40mg RM 0.59/cap  Emanero 40 mg Esomeprazole  30 pronominario serio del consistente de	<ul> <li>The current Esomeprazole brand available in the formulary.</li> <li>Pellets inside capsules are larger than other brands, causing clogging problems.</li> <li>Manufacturer suggests to use feeding tubes of French size (Fr) ≥16. Common sizes used are 12 Fr &amp; 14 Fr</li> </ul>	≥16	Mix pellets inside capsule with non-carbonated water. Avoid other liquids to prevent dissolution of enteric coating. Shake vigorously & administer quickly to avoid clogging of tube.
ESOZ 40mg RMO.9/cap, NEXIUM 40mg RM 2.07/cap	<ul> <li>Can disperse well in water.</li> <li>Esomeprazole has high bioavailability even via feeding tubes.</li> </ul>	<b>✓</b>	Recommended choice when these brands are available
2) <u>omeprazole</u> capsules/dispersible tablets			
OMILOCK 20mg RM 0.27/cap  Omilock 20mg Omyparathe Capada	<ul> <li>Capsule contents can be mixed in acidic fruit juices         (apple/orang juice) or non-carbonated water. Investigation         suggests that acidic liquid could preserve the enteric-         coating of granules, improving drug delivery and absorption.</li> <li>Known to block tubes of less than &amp;Fr. Common sizes used         are 12 &amp; 14 Fr.</li> </ul>	need Fr size ≥8 Fr	Take immediately or within 30 minutes. Use feeding tubes ≥ 8 Fr.
LOSEC MUPS 10mg dispersible tablets RM 4.77/tab	<ul> <li>Usual adult dosing is 2 - 4 tablets (20-40mg) OD.</li> <li>Tablets disintegrates to give a dispersion of small granules &amp; have a tendency to block feeding tubes &lt; 8 Fr.</li> </ul>	need Fr size ≥8 Fr	Reserved for Ryles Tube patients when no other options are feasible as it's most expensive.
NOTE! DO NOT CRUSH PPIS			

### DO NOT CRUSH PPIs.

Tablets or capsules usually present themselves as pellets/granules upon dispersion. Crushing the pellets may compromise the protective coating and result in is loss of efficacy. \*\*\* Brands available may vary with time.

### <u>Duplicate Errors in one prescription</u> The Errors

#### Reasoning

-same drug class, potentiate side effects

-SGLT2 inhibitors. → higher risk of hypoglycaemia

-Statins → higher risk of muscle damage & liver

problems



Tab. DapaGLIFLOZIN and EmpaGLIFLOZIN as well as Tab. SimvaSTATIN 40mg ON and Tab. AtorvaSTATIN 40mg ON were indented concurrently in the same prescription for 5 months. How can we avoid

duplicate errors?

CHECK for DRUG DUPLICATES when copying & pasting previous medication prescriptions





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- 3. Handbook of Extemporaneous Preparation, Pharmaceutical Press, 2010.

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