

## Gastrointestinal drugs Cheat Sheet by sam219 via cheatography.com/201893/cs/45455/

### Manage peptic ulcer

1. Antacids

1st line. Neutralize acid & raise gastric pH.

Uses: PU, gastritis, reflux esophagitis

Rapid acting: MgOH, MgO & CaCO3 Intermediate acting: Magalderate & MgCO3 Slow acting: Mg silicate & Al compounds.

CaCO3: non-systemic Ca that causes acid rebound.

Bismuth subsalicylates:

MOA: glycoprotein-bismuth complex with mucus (protective barrier) Stimulates epidermal growth factor which enhances ulcer healing.

NaHCO3: systemic antacid.

#### Gastric antacid mixtures benefits:

- 1. combine rapid & slow acting components to get rapid onset with sustained action.
- 2. Decreases dose and SE of single agents
- 3. Use agents that antagonize each other.

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2. H2 receptor antagonist

MOA: inhibits acid and gastrin stimulated secretions.

Cimetidine

has many SE: impotence, gynecomastia, headache, dirrahea, muscle pain, short acting and CYP 450 inhibitor (D-D interactions)

Ranitidine

more potent than cimetidine.

has furan ring.

Famotidine-Nizatidine-Roxatidine

Endogenous substances stimulating gastric acid secretion: ACh-Gastrin-Histamine-Calcium

### Uses of H2RB:

- 1. PU
- 2. Benign gastric ulcer
- 3. Reflux esophagitis
- 4. Hypersecretory conditions.

## Manage peptic ulcer 3. PPI

Omeprazole Lansoprazole Esomeprazole

Enteric-coated granules. S-enantiomer of omeprazole. found in racemic omperazole.

ttt of gastric & duodenal ulcers.

More active due decreased interindividual variation in bioavailability.

#### Prodrugs.

Irreversibly (covalently) inhibit the proton pump (H/K ATPase) which stops proton pumping into gastric lumen.

### Manage peptic ulcer

4. Sucralfate (chemical complex)	5. Prostaglandins cytoprotective drugs
Adjuvant therapy with only local action in GIT.	Inhibit gastric acid & pepsin secretions.
MOA: forms a protective barrier around ulcer	Misoprostil
site.	Semisynthetic deriv. from PGE1, but more stable & selective due to 16-methyl and 16-
	hydroxy gp.
	- increase GI mucus and bicarbonates.
	- Used with NSAIDs for gastric and duodenal ulcer ttt.
	Misoprostol
	anti-secretory & cytoprotective.



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Laxatives			
Stimulant laxatives	Saline laxatives	Bulk-forming laxatives	Fecal softners
Increase persta- lisis & effect on water reabsorption and secretion.	Mg, sulfates, phosphates and tartrates salts.  -Mg citrate-Mg sulfate-Dibasic sodium phosphate.	Polysaccharides that are only partially hydrol- yzed. (Plantago seed, Polycarbophil)	Surfuctants or wetting agents. (Docusate soduim)
Anthraquinone laxatives: Senna, Cascara	MOA: (work by hyperosmolarity) Cations and anions that are not absorbed from GIT and in a hypertonic solution, draw water from tissue into intestine-> perstalisis-> watery stool.	MOA: The undigested portions of the polymer are hydrophilic, so they swell and form a viscous solution or gel-> perstalisis>soft gelatinous stool	Non-absorbable & non-toxic.
Diphenylmethane: Bisacodyl, phenophathalein			MOA: lower surface tension of stool to allow intestinal fluid penetration> soft stool.
			uses: for geriatrics.

Anti-diarrheal agents				
Loperamide HCI	Diphenoxylate HCI			
Synthetic .	Synthetic congener of meperidine (opioid analog).			
For acute non-specific diarrhea.	Slows intestinal motility.			
MOA: works on opioid receptors				
Uses: travellers diarrhea.				

Antiemetics					
Anti-psychotics	Antihistamines	Anticholinergics	Cannab- inoids (THC)	Metclopramide blocks D receptor of CTZ.	Domperidone increases gastric motility which decreases nausea.
Phenthiazines & butyrophenones	Diphenhydramine	combined with scopolamine and amphetamine.	Dronabinol	Diphenidol Depresses vestibular apparatus.	Ondansetron 5-HT3 antagonist. used for CINV.
Act on CTZ.	treat motion and morning sickness.	Treat motion sickness.	for N/V in cancer chemotherapy.		



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Adsorbants			
Activated charcoal	Kaolin	Pectin	
Treated residue to increase adsorptive power.	hydrated aluminium silicate	Natural purified carbohydrate. Consists of partially methoxylated polygalacturonic acid.	
Uses: Antiflatulence and antidote	Alone or a mixture with pectin.	Uses: protectant agent for diarrhea in infants and children	
	Uses: for food poisoning diarrhoea or dysentery.		

Inert powders that adsorb gas, toxins & bacteria.

Miscellaneous GI compounds			
Cholestyramine resin	Lactulose	Simethicone	
Strong basic anion exchange resin with styrene-divinyl benzene copolymer with a quaternary ammonium.	Syrup to reduce blood ammonia levels.	Mix of fully methylated linear siloxane polymer of repeating units.	
MOA: Bile acid sequesterant.	MOA: its poorly absorbed and converted in GIT into acids that neutralize ammonia.	Uses: antifoaming agent for distention, anti-spasmodic, antiflatulance (for kids).	
Chelating agent so D-D interactions occur and affects ADEK vit. absorption.	S Uses:Laxative, Portal-systemic encephalopathy.		
Uses: high cholesterol managmenr			



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