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Gastrointestinal System Cheat Sheet by MJC3 via cheatography.com/212269/cs/46131/

Potential Causes of Dyspepsia		3 categories of Gastritis (cont)		The Oesophagus		The Oesophagus (cont)	
Dyspepsia	A non specific term, encomp- asses a number of symptoms attrib- utable to the upper Gl tract.	Type C - CHEMICAL Diet & Lifest	Chemicals/drugs eg aspirin. Elevated acid secretion yle & Other drugs	The mucosa of is non-keratine squamous epone The type of muscle ine the	of the oesophagus zed stratified ithelium the superior 1/3 is skeletal muscle, the	Adventitia replaces serosa.	Serosa = a slick covering that helps organs move smoothly (like the outer wrap of your intestines).
Oesoph- agitis	Gastro oesoph- ageal reflux disease (GORD). Barrett's	Other cause Caffeine:	es of Dyspepsia PDE inhibitor promotes acid secretion	muscularis of the oesophagus varies by	intermediate 1/3 is skeletal and smooth muscle, the inferior 1/3 is		Adventitia = a rougher outer layer that holds the organ in place, usually found where organs
Gastritis Peptic	Type: A,B,C Gastic ulcers.	Alcohol:	Dissolves mucous layer Capsaicin.	region	smooth muscle.		are attached to other tissues (like parts of the esophagus or rectum). Meaning that part of the organ is not freely
Ulcers Zollinger- Ellison syndrome	IcersDuodenal ulcersollinger-a rare conditionllisoncaused by tumorsyndrome(gastrinomas) that	Food:	Activates TRPV1 but may inhibit acid secretion via vagal inactivation.				
-	produce excessive gastrin, leading to overproduction of stomach acid and peptic ulcers.	Concom- itant medication (drugs that can relax	PDEV inhibitors eg sildenafil like drugs. Nitrates (relaxes LOS via PDE activation)				moving inside a cavity anymore, but rather fixed or connected to surrounding struct-
Gastric Cancer		LOS):	Theophylline (Relaxes LOS via				ures.
3 categories of Gastritis Type A - (antibodies AUTOIMMUNE against parietal cells) Reduced or no acid secretion and intrinsic factor			PDE inhibition). Drugs with antimu- scarinic properties (block muscarinic receptors). Ca2+ channel blockers (prevent calcium entry).			Destru- ction of parietal cells	Reduced or absent acid secretion. Vitamin B12 defici- ency. Anaemia
	Aplastic anaemia due to Vit B12 deficiency.	Obesity and pregnancy	increased intra abdominal pressure causing reflux.				
Type B - BACTERIA	Helicobacter L pylori infection. Elevated acid secretion						

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Type A Gastritis (cont)		Acid Secretion		Type B Gastritis - Helicobacter		Eradication of H.pylori (cont)	
Other Au conditions thy associated mo with Type Typ A Gastritis Ad (Ad rec ald Viti pig dis pat	Autoimmune thyroiditis (Hashi- moto's disease). Type I Diabetes. Addison's Disease (Adrenal glands, reduced cortisol & aldosterone). Vitiligo (skin pigmentation	M3 and CCK2 (CCKB; gastrin) receptors	GTP-binding protein coupled receptor (GPCR). Linked to Gq (stimulates Phosph- olipase C). Increases intrac- ellular Ca2+ via PIP2 conversion to DAG & IP3.	pylori (cont Secretes Gram negative	t) urea from high urease activity (antral pH raised, gastrin & acid secretion increases). PAF (platelet activating factor). Doesn't retain	If allergic to penicillin and previous exposure to clarithromycir and metron- idazole ONE WEEK TWIC DAILY	Tetracycline 1 1g and metron- idazole 400 n mg. Bismuth subsalicylate and E omeprazole 20 mg
	disorder) white patches of skin.	H2 receptors	GTP-binding protein coupled receptor (GPCR) Linked to Gs (stimulates adenylate cyclase) Increases intrac-		Pink stain!!!	Mucosa aggressors and protectors	
Treatment potentially required	Hydroxocobalamin injections astritis - Chemical,			Eradication First Line treatment	ONE WEEK TWICE DAILY Amoxycillin 300mg and either	Protective	Mucus, Prostagla- ndins, Bicarb- onate, Mucosal blood flow
Drug and Diet SAID's Steroidal anti-infl- ammatory drugs (SAID's) inhibit phospholipase A2 by promoting expression of annexin 1 and suppressing	Inhibit or Reduce acid	ellular cAMP Proglumide, Misoprostol, H2 Blockers, Atropine,		mg or Metron- idazole 400 mg and either omeprazole 20 mg or lansop-	Treatment fo	NSAID's, <i>H. pylori</i> , Drugs, Diet r Dyspepsia	
	phospholipase A2 by promoting expression of annexin 1 and suppressing	secretion: Type B Gas	ition: Proton Pump Inhibi- tors. B Gastritis - Helicobacter		razole 30 mg. Consider lowest acquisition costs and previous exposure to clarit- hromycin or metron- idazole!	Surgery (1900 1970's) Drugs (1970)	Gastric vagotomy & antacids
NSAID's	expression of COX-2. Non-steroidal anti-i- nflammatory drugs	pylori Associated with:	80% of gastric ulcers. 95-100%. of duodenal ulcers. 100% chronic antral gastritis. gastric cancer (younger infected, greater			Barriers/- Protection:	Alginate and Sucralfate-antacid and barrier
Barrett's O	genase enzymes. COX-1 COX-2 esphagus			If allergic to penicillin ONE WEEK TWICE	Clarithromycin 500 mg Metronidazole 400 mg and either Omeprazole 20 mg or lansoprazole 30 mg	Muscarinic cholinergic receptor antago- nists (M3)	Pirenzepine
About 1 in 10 people with GORD develop Barrett's oesophagus. Normal stratified squamous epithelium is replaced with simple columnar epithelium with goblet (mucus cells)		Gram negative spiral bacterium	chance) colonises mucus in both stomach and duodenum.	DAILY		Selective H2 receptor antago- nists	Cimetidine, raniti- dine, famotidine
						Drugs (1990	's onwards)
Jonier (IUI						Proton Pump Inhibitors	Omeprazole, Pantoprazole, Lansoprazole, Rabeprazole and

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protecting gastric mucosa when taking NSAID's				
Synthetic PGE2	Misoprostol + NSAID. Problem – smooth muscle relaxation – diarrhoea.			
Antacids eg: TUMS, Rennie.	Inhibit acid secretion: H2 antagonists eg: famotidine. Proton Pump Inhibitors (PPI's) eg omepra- zole, lansoprazole, esomeprazole, pantoprazole.			
Selective COX-II inhibitors	Diclofenac, refocoxib (Vioxx)			
Emerging novel NSAIDS (not clinically used)	NO-flurbiprofen (nitric oxide releasing deriva- tives). H2S releasing NSAID's (currently awaiting			

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