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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 GI tract.	Type C - CHEMICAL	Chemicals/drugs eg aspirin. Elevated acid secretion	The mucosa of is non-keratin squamous ep The type of muscle in 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 oesophagus	Caffeine:	s of Dyspepsia PDE inhibitor promotes acid secretion	muscularis of the oesophagus varies by region	intermediate 1/3 is skeletal and smooth muscle, the inferior 1/3 is smooth muscle.		Adventitia = a rougher outer layer that holds the organ in place, usually found where organs
Gastritis	Type: A,B,C	Alcohol:	Dissolves mucous layer				are attached to other tissues (like
Peptic Ulcers	Gastic ulcers. Duodenal ulcers	Spicy Food:	Capsaicin, Activates TRPV1 but may inhibit acid secretion via vagal inactivation. PDEV inhibitors eg sildenafil like drugs. Nitrates (relaxes LOS via PDE activation).				parts of the esophagus or
syndrome	a rare condition caused by tumors (gastrinomas) that produce excessive gastrin, leading to overproduction of stomach acid and peptic ulcers.	Concom- itant medication (drugs that can relax					rectum). Meaning that part of the organ is not freely moving inside a cavity anymore, but
							rather fixed or connected to surrounding struct- ures.
Gastric Cancer 3 categories of Gastritis		LOS):	Theophylline (Relaxes LOS via PDE inhibition).			Type A G	
Type A - AUTOIMMU	(antibodies		Drugs with antimu- scarinic properties (block muscarinic receptors). Ca2+ channel blockers (prevent calcium entry).			ction of parietal	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 - BACTERIAL	Helicobacter 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 conditions associated with Type A Gastritis	Autoimmune thyroiditis (Hashi- moto's disease). Type I Diabetes. Addison's Disease (Adrenal glands, reduced cortisol & aldosterone). Vitiligo (skin pigmentation disorder) white patches of skin.	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	pylori (cont)Secretesurea from high urease activity (antral pH raised, gastrin & acid secretion increases). PAF (platelet activating factor).GramDoesn't retain		If allergic to penicillin and previous exposure to clarithromyci and metron- idazole ONE WEEK TWIC DAILY	metron- idazole 400 in mg. Bismuth subsalicylate and
		H2 receptors	DAG & IP3. GTP-binding protein coupled receptor (GPCR) Linked to Gs (stimulates adenylate cyclase) Increases intrac-	negative	Crystal Violet stain! - Pink stain!!!	Mucosa aggressors and protectors	
Treatment potentially required	Hydroxocobalamin injections			Eradication First Line treatment	n of H.pylori ONE WEEK TWICE DAILY Amoxycillin 300mg and either	Protective	Mucus, Prostagla- ndins, Bicarb- onate, Mucosal blood flow
Type C Gastritis - Chemical, Drug and Diet SAID's Steroidal anti-infl-		Inhibit or	ellular cAMP Proglumide,		Clarithromycin 500 mg or Metron- idazole 400 mg and either omeprazole 20 mg or lansop- razole 30 mg. Consider lowest acquisition costs and previous exposure to clarit-	Aggressive	Acid, Pepsin, NSAID's, <i>H. pylori</i> , Drugs, Diet
a (F C S	ammatory drugs (SAID's) inhibit phospholipase A2 by promoting expression of annexin 1 and suppressing expression of COX-2.	Reduce Misoprostol, H2 acid Blockers, Atropine, secretion: Proton Pump Inhibi- tors.	Treatment for Surgery			r Dyspepsia Gastric vagotomy	
		Type B Gastritis - Helicobacter pylori				(1900 1970's)	& antacids
						Drugs (1970's onwards)	
r	Non-steroidal anti-i- nflammatory drugs	Associated with:	80% of gastric ulcers. 95-100%. of duodenal	15 11 1	hromycin or metron- idazole!	Barriers/- Protection:	Alginate and Sucralfate-antacid and barrier
inhibit the cyclo-oxy- genase enzymes. COX-1 COX-2 Barrett's Oesphagus			ulcers. 100% chronic antral gastritis. gastric cancer (younger infected, greater chance) colonises mucus in both stomach and duodenum.	If allergic to penicillin ONE WEEK TWICE DAILY	Clarithromycin 500 mg Metronidazole 400 mg and either Omeprazole 20 mg or lansoprazole 30 mg	Muscarinic cholinergic receptor antago- nists (M3)	Pirenzepine
Long-standing reflux of acid <i>About 1 in 10 people with GORD</i> <i>develop Barrett's oesophagus.</i> Normal stratified squamous epithelium is replaced with simple columnar epithelium with goblet (mucus cells)		Gram negative spiral bacterium				Selective H2 receptor antago- nists	Cimetidine, raniti- dine, famotidine
						Drugs (1990's onwards)	
						Proton Pump	Omeprazole, Pantoprazole,

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Inhibitors

Lansoprazole, Rabeprazole and Esomeprazole

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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 MAA)		

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