### IBD/ CROHN'S Cheat Sheet by MJC3 via cheatography.com/212269/cs/46133/

Treatment -	- Ulcerative Colitis	IBD and Cancer	Immunosup	pressants (cont)	UC vs CD		
Mild-M-	5-Aminosalicylates		BSG	Severe relapse or		UC	CD
oderate disease	(suppository or enema possibly combined with oral aminosalicylates) If unable to tolerate aminosalicylates: Steroids (topical corticosteroid or oral prednisolone)	Increased risk of colorectal cancer (CRC) in UC and Crohn's colitis 20-30% risk at 30 years from diagnosis Regular surveillance colono- scopy performed from 8-10 years post-diagnosis 5-ASAs are protective	guidelines advise use in following situations	frequently relapsing disease. 2 or more steroid course required within 12 months. Relapse below 15mg prednisolone. Relapse within 6 weeks of stopping	SKIN	Erythema nodosum Pyoderma gangre- nosum Iritis Episcl- eritis	Erythema nodosum Pyoderma gangre- nosum Iritis Episcl- eritis
Resistant Disease	Immunosuppre- ssants (eg Azathi- oprine, Mercaptop- urine) Anti-TNF monoclonal Ab (Infli-	Risk of CRC particularly high in patients with UC + Primary Sclerosing Cholangitis PSC also carries a high risk of cholangiocarcinoma	Pathology o Idiopathic chronic infla	steroids. f UC The disease m- extends		(infla- mmation of the episclera : white of the eye)	
Severe colitis	ximab, Adalimumab) Intravenous cortic- osteroids Ciclos- porin Infliximab (5 mg/kg infused over 2 hours at 2 and 6 week intervals) (Assuming 3 doses, average cost per patient = £5,035) Surgery	Ciclosporin Calcineurin inhibitor Prevents clonal expansion of T cell subsets Rapid onset of action Used as salvage therapy for severe UC not responding to IV steroids	matory disorder of t colonic mucosa, wit the potentia for extrainte stinal inflam mation. Diagnosis o Endoscopy and biopsy	verge in an h uninterrupted l pattern to - involve all or - part of the colon	KIDNEY	Calculi (kidney stones) Pyelon- ephritis (infla- mmation of the kidney due to bacterial infection)	Calculi pyelon- ephritis
Therapeutio	c Pyramid for Active	Usually introduced on day 3 of steroids	Radiology	Colonoscopy	LIVER	Sclerosing cholan-	Systemic amyloi-
Mild: Moderate:	Topical Steroids: Aminosalicylates Infliximab, Systemic Corticost- eroids, Oral	IV 2mg/kg/day Responders converted to oral Ciclosporin for 3-6 months and switched to Azathioprine/6-MP (Ciclosporin not used long-term)		enhanced ultras- ound, Barium studies, CT, MRI, Capsule endoscopy		gitis (infla- mmation of bile ducts: impeding	dosis (depos- ition of amyloid proteins)
Severe:	steroids Surgery, Cyclos- porine, Infliximab	Requires regular monitoring of Drug levels/Full blood count/-	Exclude infe	1.5		bile flow)	

Immunosuppres	ssants
Indicated for	Thiopurines.
severe or	Methotrexate.
refractory IBD	Ciclosporin.

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UC vs CD (	cont)		Aetiology	r (cont)	Histopatho	logy of UC (cont)	Ciclosporin	– side effe	cts
JOINTS S	Serone-	Serone	Genetics	47 loci associated	The most	the lower right in	Tremor		
ç	gative	gative		with UC (and	intense	the sigmoid colon	Paraesthesi	а	
	olyarthritis	polyar-		counting)	inflam-	and extends	Malaise		
,	blood test -ve for	thritis	-	(May prevent UC and	mation begins :	upward and around to the ascending	Headache		
	heumatoid		may caus	se CD)	bogino .	colon. At the lower	Abnormal liv	ver functior	ו tests
f	actor		Histopath	ology of UC		left is the ileocecal	Hirsutism		
	protein and cyclic-citru- linated			al diffuse inflammation		valve with a portion	Gingival hyperplasia		
			in the lamina propria affecting			of terminal ileum that is not involved.			
	peptide)		the colon		Denseted		Thiopurines		
1	(optido)		Chara	Continuous from the	Repeated ulceration	Granulation tissue resembling polyps	Side	Nausea	Advise
Aetiology			cter-	rectum up to the	and	rocombing polypo	effects		patients
Inappr-	Increased	l pro-in-	istics	caecum	healing				to take it at
opriate	flammato			Crypt abscesses,	cycles				night
immune	cytokines	-		goblet cell depletion and crypt distortion	result in:			Allergic	Fever/-
response	α, IL-1β, I			Can affect the distal	Anti-TNFs	adverse effects		reaction	Rash/A-
Breakdown in tolerance	Altered gu Defects ir			few cm of small bowel					rthralgia
to gut	mucosal			<ul> <li>- 'backwash ileitis'</li> </ul>	Infections			Myelosup	opression
microbial	immunity.			Non-smokers		nmunosuppressa-		Hepatoto	xicity
load					nts/Anti-TN	IF all increase risk of		Pancreat	itis
Combin-	Envirome				infection		Monitoring	FBC/LFT	
ation of	factors. T					re therapies in n increases risk 15		weeks fo	
factors	by particu bacterial	lar			fold	IT INCICASES TISK TO		months, every 4-8	
	pathogen				Active infe	ction/abscesses must		up to ~6/	
	Genetic –					d before commencing		every 3/1	2
	increased	risk in			anti-TNF tr		Azathioprine	e (Aza)	
	twins/othe	er				ould be screened for TB (CXR/Tuberculin	Mercaptopu	rine (6-MP	)
	relative				skin test)		Purine antin		inhibiting
	Diet						DNA synthe Aza is meta		6-MP
	Smoking				Malignancy		Doses mg/k		
					Increased i overall risk	risk of lymphoma (but	6-MP 0.75-7	1mg/kg/day	/
					overall fisk	Suii V IOW)			
					Heart failur	е			
					Anti-TNFs	contraindicated in			
					severe hea	art failure			



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Treatment	– Crohn's 5-ASA's less	Distribut (cont)	ion of Crohn's disease	Corticost Side	teroids (cont) Skin thinning. Osteop-	Differential (cont)	Diagnosis of UC
diagnosis if mild to moderate:	effective but may have a chemoprot- ective effect against cancer risk. Glucoc- orticosteroids		33% have anal disease. Other (gastroduodenal, oesophageal, oral). Rare.	effects:	orosis. Osteonecrosis Easy bruising. Cushing's syndrome (moon face, acne, hirsutism, striae).	Ischaemic	
Severe active Crohn's	Immunosuppre- ssants Azathi- oprine, Mercaptop-	Treatme	ent Crohn's are lifelong		Cataracts. Diabetes. Hypertension. Psychosis.	*Pseudome mbranous Colitis	e- Clostridium difficile infection
(including fistulising Crohn's)	urine, Methotrexate Anti-TNF therapy (Infliximab) (sever	relapsing	g-remitting conditions	effective	teroids are very at inducing remission a not a long-term mainte-	Anti-TNF T	
For perianal Crohn's:	active Crohn's) Antibiotics (Metro- nidazole, Ciproflox- acin) –	and ther	suppress inflammation reby maintain normal gut e and function	effect on	erapy because of the cortisol levels on the amus and anterior	Inflammato in pathoger UC)	crosis Factor α ry cytokine involved nesis of Crohn's (and
Nutritional Surgey Emotional delayed gro puberty in	Smoking cessation Nutritional Support		Corticosteroids Oral Prednisolone (eg 40mg od, 8 week reducing course). Budesonide (lower systemic effects). Beclomethasone (Clipper). Used for		rin & Tacrolimus rin Inhibits dephos- phorylation of nuclear factor of activated T cells (NFATc)	Monoclona Infliximab – Route: IV Licensed fo or UC/Fistu	r Refractory Crohn's lating Crohn's or severe UC
Small Bowel	n of Crohn's disease 80% of cases small bowel involved. Majority distal ileum.	Intrav- enous:	moderate flares of UC/Crohn's. For severe UC or Crohn's Hydrocort-	Tacrolim (FK506)	us Binds to FK-506 binding protein (FKBP). Calcin- eurin inhibitor.	Subcutaned Licensed fo	
lleo-c-	1/3 exclusively ileitis. 50% have ileocolitis	Topical	isone (eg 100mg qds) Steroid Suppositorie- s/Enemas (eg Predsol	Both prevent	interleukin 2 release and clonal expansion of T cell subsets	Idiopathic chronic inflam-	Most commonly the ileum and the colon, with the potential to
	20% colonic disease only		supps, Predfoam enemas). Less effective than topical 5-ASA but can be	Differential Diagnosis of UC Crohn's Colitis		matory disorder of the full thickness	involve the gastro- intestinal tract at any level from the mouth to the anus
			used in combination.	Infective colitis:	E.coli	of the intestine	and perianal region.

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Campylobacter Salmonella

### IBD/ CROHN'S Cheat Sheet by MJC3 via cheatography.com/212269/cs/46133/

Pathology of	Crohns Disease	Treatment	s Sum	mary (cont)	5-ASAs (	cont)	5-ASAs (	cont)
(cont) Typically there is patchy disease in the gastro- intestinal	with intervening areas of normal mucosa "Skip lesions"	Neoral) Ta Fujimycin) Protopic) NOVEL TF Nicotine: u	acrolim (Progr REATN useful i		Uses - UC	Maintainence of remission – mainstay of long-term treatment for UC. Treatment of mild-moderate flares. Chemoprotective effect against	Side Effects:	Diarrhoea! Nausea. Headache Rash (rarely Stevens-J- ohnson syndrome). Nephrotoxicity (Inter- stitial nephritis & Nephrotic syndrome)
tract Transmural inflam- mation with lymphoid aggregates Non caseating	(clusters of lymphoid cells- include T-cells, B- cells and NK cells.) Caseating "turning to cheese"	diverts LT LTB5 prod IL1 recepto Short Chai CuZnSOD (Peroxyl so	production luction or anta in fatty and d cavenc	agonists (UC). acids. esferrioxamine	Uses – Crohn's	colorectal cancer. Limited effectiveness compared to UC. Limited effectiveness in active Crohn's or maintaining remisson. May reduce risk of relapse after surgery.	Salofalk, Time-cor Multimati	trolled (Pentasa) rix pH dependent
granulomas (60% cases)		Epidemiolo Crohn's disease	ogy	Ulcerative Colitis			Carrier m colonic b	Mezavant) nolecules split by acterial enzymes
Skip Leisons *Strictures and fistula formation	In Crohn's, strictures make the bowel too tight, and fistulas create unnatural pathways—both are serious	Incidence ( 10/100,000 UK Prevale ~150 per 100,000 (1 660 people	0 in ence I in	Incidence 15/100,000 in UK Prevalence 200 per 100,000 (1 in 500 people)			Balsalazi Dose 1.6-4.8g/ Single da effective Topical Supposit	per day aily dosing seems as as traditional bd/tds ories - Proctitis
Perianal dise	complications.	Peak age at diagnosis 20-40, second smaller peak aged ~60			Foam or Liquid enemas - Distal colitis (rectum and			
Can affect ar tract Smokers Treatments S	ay part of the GI	Aminos alicylic	matory cytokii	rate inflam- y cells and ne release from lial cells.			sigmoid) Check Ff annually UC vs CI Ulcerative	
Salicylates 5-Amino salio mesalamine Steroids (glu Methylpredni	cocorticoids): solone (Medrol) ressants: Azathi-	(Mesal- azine)	Mecha unders involve cycloc prosta and N throug gamm	anism not fully stood but es inhibition of xygenase and noid formation -acetyl-5-ASA h PPAR a (Peroxisome arator Alpha			colitis Affects th colon onl Male:F- emale 1:	y of the GI tract Male: Female 1



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UC vs CD (co	nt)	Clinica
Bloody diarrhoea Abdominal pain Continuous, always begins in rectum	Abdominal pain Weight loss Perianal disease Bloody diarrhoea Skip lesions	Typica Featur Obstru Strictur Absce Deper
No strictures	Stricture and fistula formation with perianal disease	Histop of Ileu Inflam
Mucosal inflam- mation	Transmural inflammation throughout bowel	infiltra throug aris.
Diffuse inflam- mation in the lamina	wall, lymphoid aggregates and non-necrotising granulomas. Can	On the mator infiltra omato
propria Patchy ulceration with crypt abscesses,	develop fissuring ulcers, crypt abscesses, goblet cell depletion and	Clinica 'Blood of mut
goblet cell depletion and crypt distortion	crypt distortion	Urgen Abdor unusu Usual
Terminal ileum in 10% cases	Often affects the terminal ileum (80%) Any part of alimentary tract can be affected	Can b upset, Requi May n
No fistulas	Fistulas	UC A
		Ulcera

Clinical Presentation	on – Crohn's	UC AND CROHNS (cont)				
Features: Diarrh	minal Pain. loea. Weight	Malignant change common	Malignant change rare			
loss. A Obstruction secon	Anorexia. dary to	Fistulae less common	10% have fistulae			
strictures Abscesses, Fistula Depends on portio		25% have anal involvement	60% have anal involv- ement			
involved Histopathology Cro	ohn's Disease	Muscular shortening of the colon	Fibrous shortening			
		No skip lessons	Skip lesions			
Inflammatory cells infiltrates) extend f through submucos aris.	from mucosa	No fat or vitamin malabsorption	Fat & vitamin malabs- orption			
On the serosal sur matory cells appear infiltrates with pale omatous centres.	ar as nodular	No granulomas (collection of macrophages)	Granulomas in 50%			
		Mild lymphoid	Marked			
Clinical Presentation 'Bloody diarrhoea' of mucus		reaction	lymphoid reaction (increased WBC)			
'Bloody diarrhoea'		reaction Mild fibrosis	reaction (increased			
'Bloody diarrhoea' of mucus	and passage		reaction (increased WBC) Fibrosis Serositis			
'Bloody diarrhoea' of mucus Urgency Abdominal Discorr unusual) Usually insidious of	and passage fort (pain onset	Mild fibrosis	reaction (increased WBC) Fibrosis			
'Bloody diarrhoea' of mucus Urgency Abdominal Discorr unusual)	and passage fort (pain onset h systemic sation	Mild fibrosis	reaction (increased WBC) Fibrosis Serositis (inflamma- tion, serous			
'Bloody diarrhoea' of mucus Urgency Abdominal Discorr unusual) Usually insidious of Can be severe with upset, fever Requires hospitalis	and passage fort (pain onset h systemic sation surgery	Mild fibrosis Mild Serositis Raised ANCA (antineutrophil cytoplasmic	reaction (increased WBC) Fibrosis Serositis (inflamma- tion, serous membranes) ANCA			
'Bloody diarrhoea' of mucus Urgency Abdominal Discorr unusual) Usually insidious of Can be severe with upset, fever Requires hospitalis May need urgent s	and passage fort (pain onset h systemic sation surgery	Mild fibrosis Mild Serositis Raised ANCA (antineutrophil cytoplasmic antibodies.	reaction (increased WBC) Fibrosis Serositis (inflamma- tion, serous membranes) ANCA			
<ul> <li>'Bloody diarrhoea' of mucus</li> <li>Urgency</li> <li>Abdominal Discorrunusual)</li> <li>Usually insidious of Can be severe with upset, fever</li> <li>Requires hospitaliand May need urgent set</li> <li>UC AND CROHNS</li> </ul>	and passage fort (pain onset h systemic sation surgery Crohn's	Mild fibrosis Mild Serositis Mild Serositis Raised ANCA (antineutrophil cytoplasmic antibodies. Autoantibodies directed against	reaction (increased WBC) Fibrosis Serositis (inflamma- tion, serous membranes) ANCA			

horizontal ulcers & fissures



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