### 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- oderate disease	5-Aminosalicylates (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	BSG guidelines advise use in following situations	Severe relapse or frequently relapsing disease. 2 or more steroid course required within 12 months. Relapse below 15mg prednisolone. Relapse within 6 weeks of stopping	SKIN	UC Erythema nodosum Pyoderma gangre- nosum Iritis Episcl- eritis	CD Erythema nodosum Pyoderma gangre- nosum Iritis Episcl- eritis
Resistant Disease	Immunosuppre- ssants (eg Azathi- oprine, Mercaptop- urine) Anti-TNF monoclonal Ab (Infli- ximab, Adalimumab)	Risk of CRC particularly high in patients with UC + Primary Sclerosing Cholangitis PSC also carries a high risk of cholangiocarcinoma	Pathology of Idiopathic chronic infla matory	The disease		(infla- mmation of the episclera : white of the eye)	
Severe colitis	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	disorder of t colonic mucosa, wit the potentia for extrainte stinal inflam mation. Diagnosis o Endoscopy and biopsy	he from the anal verge in an h uninterrupted 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
Therapeutic UC Mild:	Pyramid for Active Topical Steroids: Aminosalicylates	Usually introduced on day 3 of steroids IV 2mg/kg/day Responders converted to oral	Radiology	enhanced ultras- ound, Barium studies, CT, MRI, Capsule endoscopy	LIVER	Sclerosing cholan- gitis (infla- mmation of bile ducts: impeding bile flow)	Systemic amyloi- dosis (depos- ition of amyloid proteins)
Moderate:	Infliximab, Systemic Corticost- eroids, Oral steroids	Ciclosporin for 3-6 months and switched to Azathioprine/6-MP (Ciclosporin not used long-term) Requires regular monitoring of	Exclude infe				
Severe:	Surgery, Cyclos- porine, Infliximab	Drug levels/Full blood count/- Renal function/Blood pressure	Blood tests helpful but not diagnostic				

Immunosuppressants					
Indicated for Thiopurines.					
severe or	Methotrexate.				
refractory IBD	Ciclosporin.				

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UC vs CD (cont) Aetiolog		Aetiology	etiology (cont) Histopathology		gy of UC (cont) Ciclosporin – side ef			ects	
gativ poly (bloo –ve rheu facto prote	Serone- Serone gative gative polyarthritis polyar- (blood test thritis -ve for rheumatoid factor protein and cyclic-citru- linated	gative polyar-	Genetics47 loci associated with UC (and counting)The most intense inflam- mation begins :Smoking (May prevent UC and may cause CD)mation begins :	the lower right in the sigmoid colon and extends upward and around to the ascending colon. At the lower left is the ileocecal	Tremor Paraesthesia Malaise Headache Abnormal liver function tests Hirsutism				
			Superficial diffuse inflammation in the lamina propria affecting the colon only			valve with a portion of terminal ileum that is not involved.	Gingival hyperplasia		
Aetiology Inappr- opriate	eptide) Increased flammato		Chara cter- istics	Continuous from the rectum up to the caecum Crypt abscesses,	Repeated ulceration and healing cycles	Granulation tissue resembling polyps	Side effects	Nausea	Advise patients to take it at night
immune response Breakdown	cytokines α, IL-1β, I Altered gu	L-6		goblet cell depletion and crypt distortion Can affect the distal	result in: Anti-TNFs	adverse effects		Allergic reaction	Fever/- Rash/A rthralgia
in tolerance to gut microbial	Defects ir mucosal immunity.			few cm of small bowel – 'backwash ileitis' Non-smokers	Infections Steroids/Im	nmunosuppressa-		Myelosup Hepatoto	pression xicity
load Enviromental factors. Triggered by particular by particular bacterial pathogen. Genetic – increased risk in twins/other relative Diet Smoking			infection Two or mol combinatio fold Active infec	IF all increase risk of re therapies in n increases risk 15 ction/abscesses must d before commencing	Monitoring	Pancreat FBC/LFT weeks for months, <sup>-</sup> every 4-8 up to ~6/ every 3/1	every 2 r first 2 Then weeks 12, Then		
	twins/other relative Diet			exposure t skin test) Malignanc	ould be screened for o TB (CXR/Tuberculin / risk of lymphoma (but	Azathioprine (Aza) Mercaptopurine (6-MP) Purine antimetabolites in DNA synthesis Aza is metabolised to 6- <b>Doses</b> mg/kg/day 6-MP 0.75-1mg/kg/day		inhibiting 5-MP	
					Heart failur Anti-TNFs severe hea	contraindicated in			



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Treatment -	- Crohn's	Distribut	ion of Crohn's disease	Corticost	teroids (cont)	Differential	Diagnosis of UC		
Initial diagnosis	5-ASA's less effective but may	(cont)	33% have anal disease.	Side effects:	Skin thinning. Osteop- orosis. Osteonecrosis	(cont)	Yersinia		
if mild to have a chemoprot- moderate: ective effect against cancer risk. Glucoc-		Other (gastroduodenal, oesophageal, oral). Rare.		E	Easy bruising. Cushing's syndrome (moon face, acne,	la che comia d	Amoebic Dysentery		
Severe active Crohn's	orticosteroids Immunosuppre- ssants Azathi- oprine, Mercaptop-	Treatme	nt Crohn's are lifelong		hirsutism, striae). Cataracts. Diabetes. Hypertension. Psychosis.	Ischaemic *Pseudome mbranous Colitis			
(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	Anti-TNF Therapy		
For perianal Crohn's:	active Crohn's) Antibiotics (Metro- nidazole, Ciproflox- acin) –	and ther	suppress inflammation eby 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 S Surgey Emotional s delayed gro puberty in y Possibility of	Smoking cessation Nutritional Support		Corticosteroids Oral Prednisolone (eg 40mg od, 8 week reducing course). Budesonide (lower systemic effects). Beclomethasone (Clipper). Used for moderate flares of		Ciclosporin & Tacrolimus (FK506) Ciclosporin Inhibits dephos- phorylation of nuclear factor of activated T cells (NFATc) Tacrolimus Binds to FK-506		NF McAB Therapy I anti-TNF antibodies or Refractory Crohn's lating Crohn's for severe UC b (Humira)		
Bowel b	30% of cases small bowel involved. Majority distal ileum.	Intrav- enous:	UC/Crohn's. For severe UC or Crohn's Hydrocort- isone (eg 100mg qds)	(FK506)	binding protein (FKBP). Calcin- eurin inhibitor.		or refractory Crohn's		
lleo-c- 5 olonic 2	<ul><li>1/3 exclusively ileitis.</li><li>50% have ileocolitis</li><li>20% colonic disease</li><li>only</li></ul>	Topical		Both prevent Different	interleukin 2 release and clonal expansion of T cell subsets ial Diagnosis of UC	Idiopathic chronic inflam- matory disorder of the full	Most commonly the ileum and the colon, with the potential to involve the gastro- intestinal tract at any level from the		
			5-ASA but can be used in combination.	Crohn's Crohn'		thickness of the intestine	mouth to the anus and perianal region.		

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Campylobacter Salmonella

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Pathology of Crohns Disease Treatmen		Treatments S	ummary (cont)	cont)	5-ASAs (cont)			
(cont) Typically there is patchy disease in the gastro- intestinal tract	Ily with intervening Ne s areas of normal Fu mucosa "Skip Pr e in lesions" No stro- nal LT		Ciclosporin A (Sandimmun or Neoral) Tacrolimus (FK-506, Fujimycin) (Prograf, Advagraf, Protopic) NOVEL TREATMENTS Nicotine: useful in UC? LTB4 antagonists eg zileuton. Fish oils, eicosopentanoic acid		Maintainence of remission – mainstay of long-term treatment for UC. Treatment of mild-moderate flares. Chemoprotective effect against colorectal cancer.	Side Effects:	Diarrhoea! Nausea. Headache Rash (rarely Stevens-J- ohnson syndrome). Nephrotoxicity (Inter- stitial nephritis & Nephrotic syndrome). Agranulocytosis (low	
Transmural inflam- mation with lymphoid aggregates Non caseating granulomas	(clusters of lymphoid cells- include T-cells, B- cells and NK cells.) Caseating "turning to cheese"	diverts LT pro LTB5 product IL1 receptor a Short Chain fa	duction towards ion. intagonists (UC). atty acids. d desferrioxamine enger).	Uses – Crohn's	Limited effectiveness compared to UC. Limited effectiveness in active Crohn's or maintaining remisson. May reduce risk of relapse after surgery.	Salofalk, Time-con Multimatri	white blood cell count). Pancreatitis. dent resin (Asacol, Mesren) trolled (Pentasa) x pH dependent Mezavant)	
(60% cases)		Crohn's disease	Ulcerative Colitis			colonic ba	olecules split by acterial enzymes azine, Olsalazine,	
Skip Leisons *Strictures and fistula formation	In Crohn's, strictures make the bowel too tight, and fistulas create unnatural pathways—both	Incidence 8- 10/100,000 in UK Prevalenc ~150 per 100,000 (1 in 660 people)	10/100,000 11			effective a		
are serious complications. Perianal disease		Peak age at diagnosis 20-40, second smaller peak aged ~60				Foam or Liquid enemas - Distal colitis (rectum and sigmoid) Check FBC/Renal function annually		
Can affect any part of the GI tract		5-ASAs						
Smokers			derate inflam- tory cells and			UC vs CD		
	Treatments Summary Crohn's & Ulcerative Colitis		alicyliccytokine release fromacidepithelial cells.(Mesal-Mechanism not fully			Ulcerative colitis		
Salicylates 5-Amino salicylic acid (5-ASA); mesalamine (Asacol) Steroids (glucocorticoids): Methylprednisolone (Medrol) Immunosuppressants: Azathi- oprine & mercaptopurine		azine) understood but involves inhibition of cyclooxygenase and prostanoid formation and N-acetyl-5-ASA through PPAR gamma (Peroxisome Proliferator Alpha Receptor gamma)				Affects the colon only Male:F-	, i i i i i i i i i i i i i i i i i i i	
						emale 1:1		
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UC vs CD (co	ont)	Clinica
Bloody diarrhoea Abdominal pain	Abdominal pain Weight loss Perianal disease Bloody diarrhoea	Typica Featur Obstru
Continuous, always begins in rectum	Skip lesions	Strictur Absce Depen
No strictures	Stricture and fistula formation with perianal disease	Histop of Ileu Inflam
Mucosal inflam- mation	Transmural inflammation throughout bowel	infiltrat throug aris.
Diffuse inflam- mation in the lamina	wall, lymphoid aggregates and non-necrotising granulomas. Can	On the matory infiltration
propria Patchy	develop fissuring ulcers, crypt	Clinica
ulceration with crypt	abscesses, goblet cell depletion and	'Blood of muc
abscesses, goblet cell depletion and crypt	crypt distortion	Urgen Abdon unusu
distortion		Usuall
Terminal ileum in 10% cases	Often affects the terminal ileum (80%) Any part of alimentary tract can be affected	Can be upset, Requir May n
No fistulas	Fistulas	UC AN

Clinical Presentati	on – Crohn's	UC AND CROHNS (cont)			
<b>7</b>	minal Pain. ioea. Weight	Malignant change common	Malignant change rare		
loss. / Obstruction secon	Anorexia. dary to	Fistulae less common	10% have fistulae		
strictures Abscesses, Fistula Depends on portic	ae	25% have anal involvement	60% have anal involv- ement		
involved Histopathology Cr	ohn's Disease	Muscular shortening of the colon	Fibrous shortening		
of lleum		No skip lessons	Skip lesions		
Inflammatory cells infiltrates) extend through submucos aris.	from mucosa	No fat or vitamin malabsorption	Fat & vitamin malabs- orption		
On the serosal sum matory cells appear infiltrates with pale omatous centres.	ar as nodular	No granulomas (collection of macrophages)	Granulomas in 50%		
		Mild lymphoid	Marked		
Clinical Presentati	on of UC	reaction	lymphoid reaction (increased WBC)		
'Bloody diarrhoea' of mucus	and passage				
Urgency		Mild fibrosis	Fibrosis		
Abdominal Discon unusual)	nfort (pain	Mild Serositis	Serositis (inflamma-		
Usually insidious of	onset		tion, serous		
Can be severe wit	h systemic		membranes)		
upset, fever Requires hospitali May need urgent s		Raised ANCA (antineutrophil cytoplasmic antibodies	ANCA normal		
UC AND CROHN	S	Autoantibodies			
Ulcerative Colitis	Crohn's Disease	directed against own neutrophils.)			
Only affects colon	Affects mouth to anus	More common in non-smokers or ex smokers	Increased incidence in smokers		
No fissures,	Deep ulcers				

horizontal ulcers & fissures



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