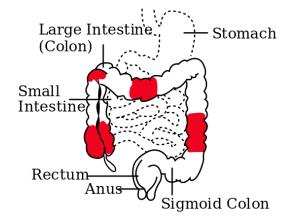
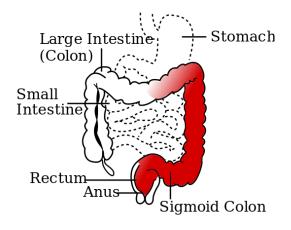
This term is usually used to denote ulcerative colitis and Crohn's disease .However bowel inflammation can be caused also by Bilharzial colitis , amoebic colitis , ileocaecal T.B and typhoid enteritis .





Crohn's Disease

Colitis ulcerosa

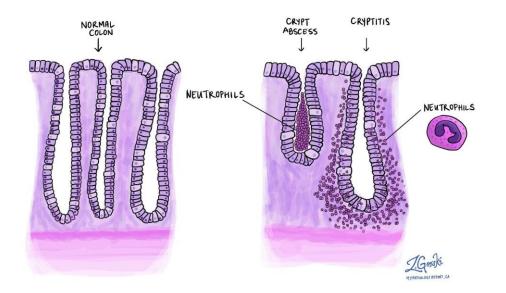
	Crohn's Disease	Ulcerative Colitis
Indidence	<ul> <li>Equal in male &amp; female</li> </ul>	<ul> <li>More in females .</li> </ul>
	<ul> <li>Commonly occur 10-30</li> </ul>	<ul> <li>Commonly occur 20-40</li> </ul>
	years.	years.
Aetiology	<ul> <li>Unknown but immunologi</li> </ul>	ical , genetic or
	environmental factors are possible causes .	
Pathology	<ul> <li>It can affect any part of</li> </ul>	<ul> <li>Usually start above</li> </ul>
	GIT from <b>mouth to anus</b> .	dentate line and extend
	<ul> <li>The commonest site is</li> </ul>	upward for variable
	terminal <b>ileum</b> followed by	distance to affect <b>rectum</b>
	proximal colon and anal	only(proctitis) or <b>left</b>
	canal with <b>rectal sparing</b>	colon or whole colon (
		pancolitis ).
		• Never affect ileum .
	It affects all layers from	• It affects <b>mucosa</b> only .

	mucosa to serosa,	<ul> <li>Mucosal affection varies</li> </ul>
	surrounding structures &	from <b>granularity</b> to
	mesentery which contain	extensive <b>ulceration</b>
	enlarged lymph nodes .	
	<ul> <li>It is Characterised by</li> </ul>	• It is <b>continuous</b> disease
	<b>skip areas</b> ( normal	with sharp transition
	healthy gut between the	between diseased &
	diseased areas )	healthy area without any
		skip area .
	<ul> <li>It is characterized by</li> </ul>	The condition begins with
	granuloma formation	multiple <b>crypt</b>
	( collection of inflammatory	abscesses surrounded
	cells ) followed by severe	by <b>inflammation</b> .
	fibrosis, marked	<ul> <li>These abscesses fuse to</li> </ul>
	thickening & narrowing	form <b>superficial ulcers</b>
	of the affected segment .	
	<ul> <li>In longstanding cases</li> </ul>	<ul> <li>Pseudopolyps usually</li> </ul>
	,multiple fissures occur	present between the
	with mucosal oedema $ ightarrow$	ulcers .
	cobble stone	• Minimal fibrosis without
	appearance.	thickening of the wall .
Complications	•Intestinal :	Intestinal :
	1) Stricture $\rightarrow$ I.O	1) Toxic <b>megacolon</b>
	2) Abscess and fistula to	(5%) due to atony of
	bowel loops , bladder ,	colon may be <b>fatal</b> .
	vagina or skin .	2) Haemorrhage , shock
	3) Anal fissure , abscess	& anaemia .

	and fistula .	3) Colon cancer	
	4) Malabsorption .	especially in pancolitis	
	5) <b>G.B stones</b> due to lack of	for more than 10 years	
	absorption of bile salts.	, often multicenteric .	
	• Extra-intestinal :Uveitis , arthritis , cholangitis , liver		
	cirrhosis, skin lesions, pyoderma gangrenosum and		
	erythema nodosum.		
Clinical	<ul> <li>There remissions &amp; exacerbations .</li> </ul>		
picture	Gradual onset .	• Acute onset .	
	<ul> <li>It starts by diarrhoea.</li> </ul>	It starts by severe watery	
	• In ileitis only there is no	diarrhoea( up to 30	
	passage of mucus, pus	times/day) with passage	
	or bleeding per rectum	of <b>mucus , pus and</b>	
	and no tenesmus.	bleeding per rectum	
	<ul> <li>Colicky pain &amp; tenderness</li> </ul>	are the cardinal feature .	
	in the right iliac fossa	• Tenesmus is severe .	
	simulating acute	<ul> <li>Colicky pain &amp;</li> </ul>	
	appendicitis .	tenderness in the left	
	In long standing cases:	iliac fossa .	
	Indurated tender <b>mass</b>	• General : Fever , headach	
	<b>in</b> the right iliac fossa or	anorexia , malaise(FAHM)	
	I.O may occurs.	nausea, vomiting,	
	<ul> <li>General manifestations</li> </ul>	anaemia ,weakness ,	
	are similar to ulcerative	dehydration , loss of	
	colitis.	weight ,	
	<ul> <li>Crohn's colitis gives</li> </ul>	lymphadenopathy,	
	similar manifestation as	clubbing of fingers,	
L			

	ulcerative colitis.	manifestations of extra-	
	• Perianal disease is	intestinal complications.	
	common .	<ul> <li>Hypovolaemic shock in</li> </ul>	
		severe bleeding per	
		rectum .	
		• Toxic megacolon : High	
		fever ( 39-39.5 °C ) &	
		severe abdominal	
		distension .	
		• Perianal disease is rare .	
D.D	Other causes of pain or	Other causes of bleeding	
	swelling in the right iliac fossa .	per rectum .	
	Other causes of diarrhoea	Other causes of diarrhoea .	
Investigations	& I.O . • Laboratory:		
	1) Stool analysis .	-	
	2) Blood exam. : .anaemia , leucocytosis , hypoproteinaemia & hypokalaemia .		
	<ul> <li>Barium meal follow</li> </ul>	Barium enema :	
	through : show areas of	Show mucosal changes	
	strictures with skip normal	& shortening of colon	
	areas , narrowing of	with loss of haustrations	
	terminal ileum <b>(String</b>	<ul> <li>It is contraindicated in</li> </ul>	
	sign of Kantor) with	toxic megacolon .	
	proximal dilatation and	<ul> <li>Colonoscopy (show</li> </ul>	
	fistula .	extent of the disease,	
	• Barium enema for	diffuse inflammation ,	
	suspected colon disease .	ulcers and pseudopolyps	
	<ul> <li>Colonoscopy &amp;</li> </ul>	) with biopsy are	

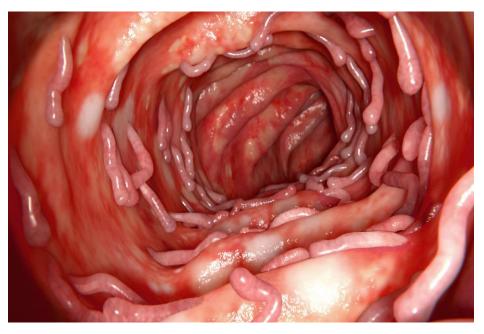
	ileoscopy with biopsy	diagnostic .
	are diagnostic .	
	• U/S & CT to detect extra-	
	luminal complications .	
Treatment	I)Medical treatment is the main line of treatment ( see medicine ) . II)Surgical treatment : •Indications : failure of medical treatment or complications . •Methods	
	1) Limited resection	1)Proctocolectomy (
	of affected segment	excision of whole colon
	(avoid resection of long	and rectum ) with
	segment to avoid	permanent <b>ileostomy</b> is
	malabsorption).	the classical treatment .
	2) Stricturoplasty for	2)Total Colectomy with
	localized stricture .	rectal sparing and <b>ileo-</b>
		rectal anastomosis .
		Follow up for life to avoid
		rectal cancer .
		3)Proctocolectomy with
		distal rectal
		mucosectomy and ileal
		<b>pouch</b> is fashioned to act
		as reservoir and is
		anastmosed to the
		anal canal within the
		preserved rectal muscle .



Crypt abscesses



Cobble stone appearance.



Pseudopolyps



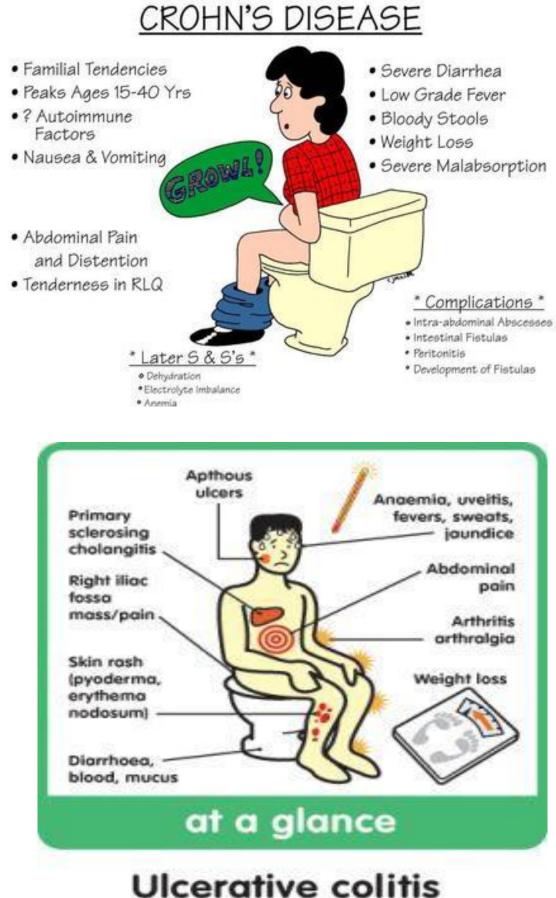


#### Erythema nodosum



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Pyoderma gangrenosum



and Crohn's disease



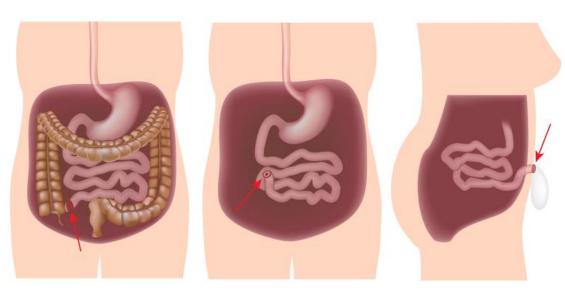
# Crohn's Disease



**Ulcerative Colitis** 



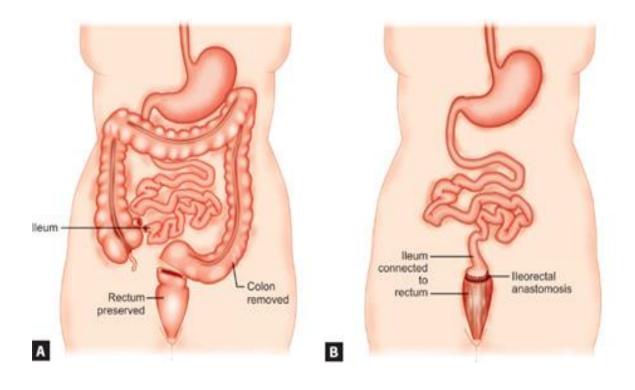
The whole colon, without skips is affected by an irregular mucosa with loss of normal haustral markings.



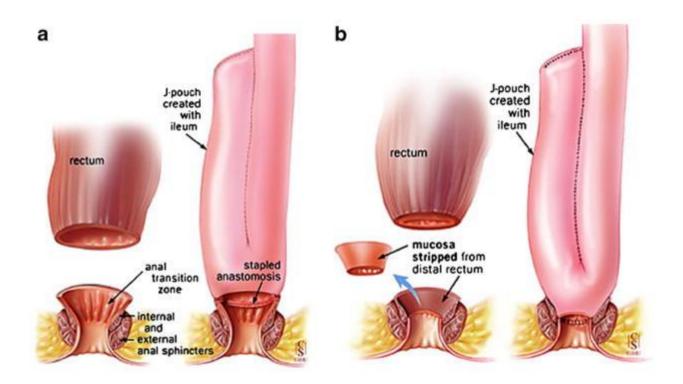
Colon and rectum removed

End of ileum brought out as an ileostomy Front view Side view

#### Proctocolectomy with ileostomy



### Total colectomy with ileorectal anastomosis



# Proctocolectomy with distal rectal mucosectomy and ileal pouch is anastmosed to the anal canal