

Inflammatory Bowel Disease

Dr Paul Tervit

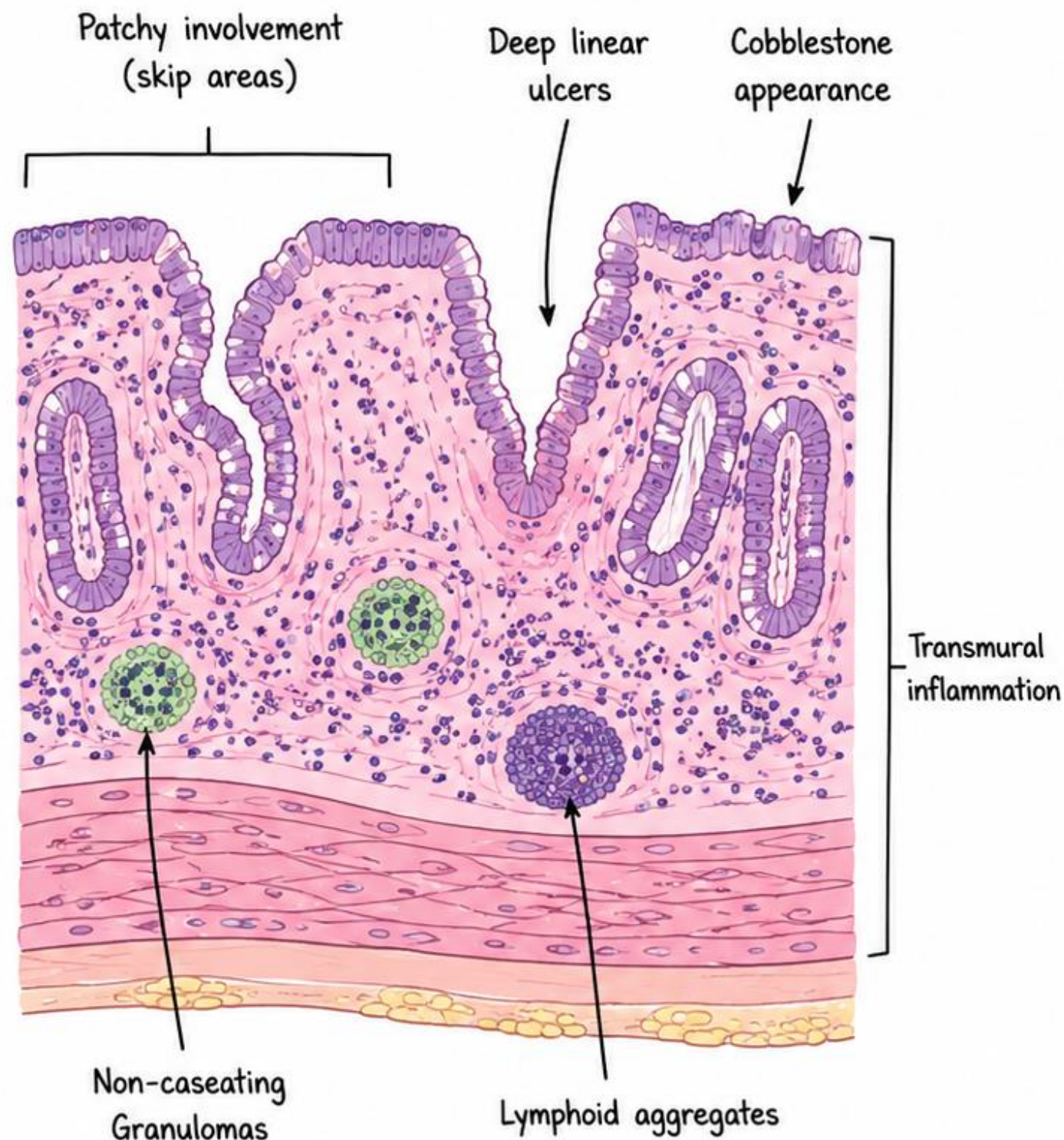
Feature	Crohn's Disease (CD)	Ulcerative Colitis (UC)
Distribution	Can affect any part of the GI tract (mouth to anus); terminal ileum and colon most common	Limited to the colon and rectum
Pattern of involvement	Discontinuous ("skip lesions")	Continuous from the rectum proximally
Rectal involvement	Often spared	Almost always involved
Depth of inflammation	Transmural (full-thickness)	Mucosal and submucosal only
Macroscopic appearance	Cobblestoning, deep linear ulcers, strictures, fistulas	Diffuse erythema, friability, superficial ulceration, pseudopolyps
Histology	Transmural inflammation; non-caseating granulomas (15–30%)	Cryptitis, crypt abscesses, goblet cell depletion, no granulomas
Small bowel involvement	Common (especially terminal ileum)	Absent (except backwash ileitis in extensive disease)
Perianal disease	Common (fistulas, fissures, abscesses, skin tags)	Rare
Fistulas	Common	Rare
Strictures	Common due to fibrosis	Uncommon
Obstruction	May occur	Rare
Bleeding	Less prominent	Common, often significant
Diarrhoea	Usually non-bloody (unless colonic disease)	Typically bloody with mucus
Abdominal pain	Common, often right lower quadrant	Common, often left lower quadrant or cramping
Weight loss	Common	Less prominent
Malabsorption	Common (especially ileal disease)	Rare
Smoking	Increases risk and worsens disease	Appears protective (not recommended as therapy)
Toxic megacolon	Rare	More common
Colorectal cancer risk	Increased with longstanding colonic involvement	Increased with extensive, longstanding colitis
Primary sclerosing cholangitis (PSC)	Less common	More strongly associated

Feature	Crohn's Disease (CD)	Ulcerative Colitis (UC)
Extraintestinal manifestations	Arthritis, uveitis, episcleritis, erythema nodosum, pyoderma gangrenosum, PSC, VTE	Similar spectrum; PSC is more frequent
Endoscopic findings	Patchy inflammation, aphthous ulcers, cobblestoning, deep fissures	Continuous inflammation beginning at rectum, loss of vascular pattern, friability
Imaging	Bowel wall thickening, “string sign”, fistulas, abscesses	Colonic wall thickening; loss of haustra in chronic disease (“lead pipe” colon)
Surgical cure	No (disease frequently recurs after resection)	Yes (total proctocolectomy is curative for colonic disease)
Common complications	Fistulas, abscesses, strictures, malnutrition, nephrolithiasis, gallstones	Severe bleeding, toxic megacolon, colorectal cancer
First-line induction (mild–moderate)	Budesonide (ileocecal disease), systemic corticosteroids if more severe	5-ASA (mesalazine) ± topical therapy; corticosteroids for moderate–severe flares
Maintenance therapy	Immunomodulators and biologics; 5-ASA has limited role	5-ASA effective in mild disease; immunomodulators and biologics for moderate–severe disease
Biologic options	Anti-TNF, anti-integrin, anti-IL-12/23, anti-IL-23, JAK inhibitors (selected cases)	Anti-TNF, anti-integrin, anti-IL-12/23, anti-IL-23, JAK inhibitors

High-yield exam differences

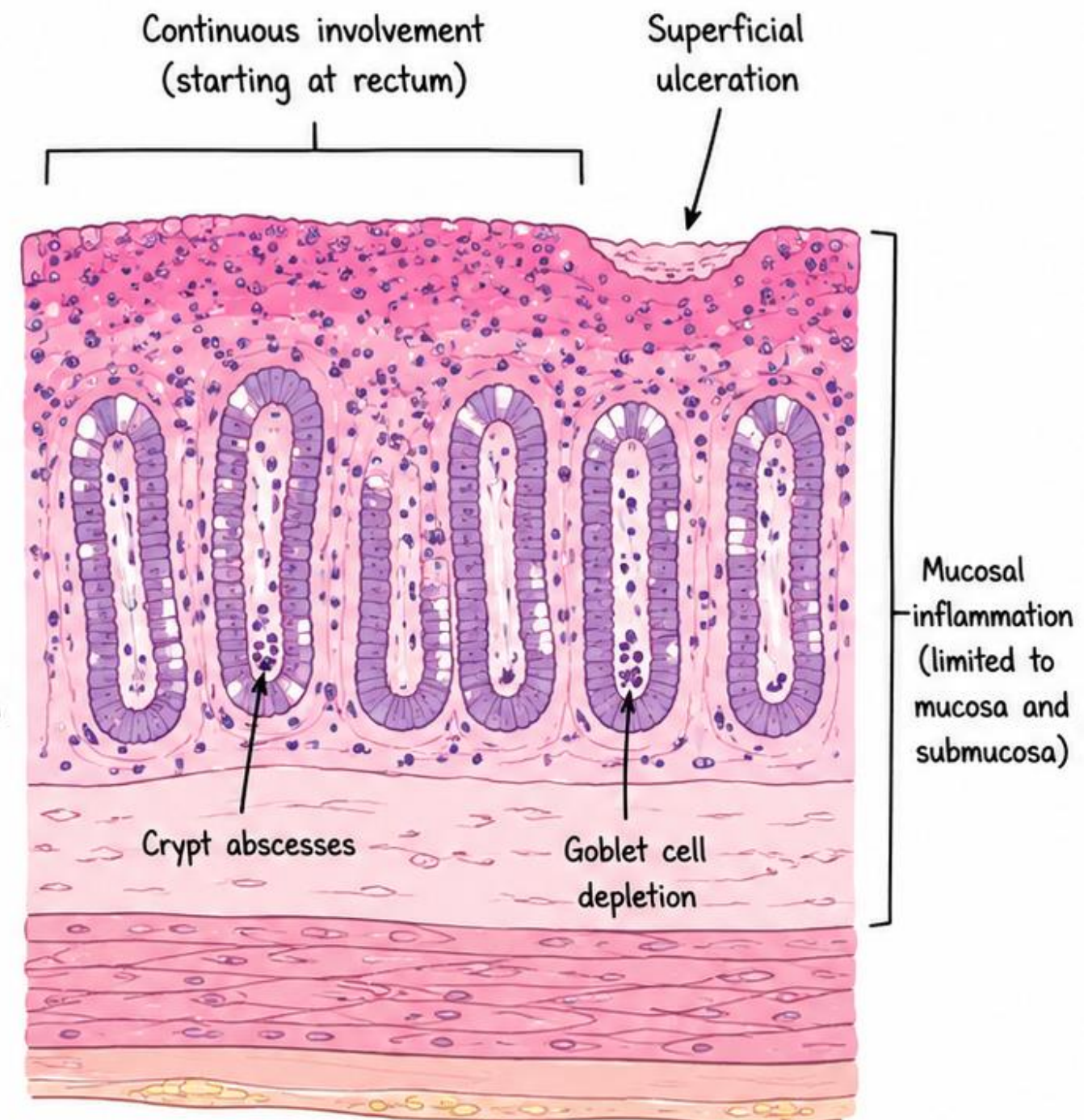
Crohn's Disease	Ulcerative Colitis
Skip lesions	Continuous disease
Transmural inflammation	Mucosal inflammation
Anywhere mouth → anus	Colon only
Terminal ileum common	Rectum always involved
Fistulas & strictures	Toxic megacolon
Granulomas may be present	Crypt abscesses
Smoking worsens disease	Smoking appears protective
Surgery not curative	Colectomy is curative

CROHN'S DISEASE



- Discontinuous ("skip lesions")
- Transmural inflammation
- Non-caseating granulomas (15-30%)
- May affect any part of GI tract

ULCERATIVE COLITIS



- Continuous disease from rectum proximally
- Mucosal & submucosal inflammation only
- Crypt abscesses, goblet cell depletion
- Limited to colon and rectum