

Update in Paediatric Inflammatory Bowel Disease (pIBD)

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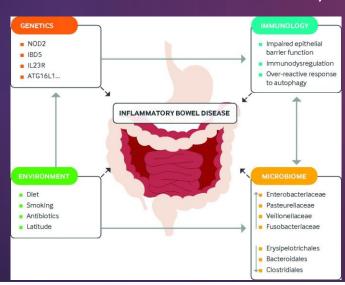
ROYAL LONDON HOSPITAL

Aims

- Symptoms and Red flag signs
- Investigations
- Role of Faecal Calprotectin
- Treatment including Biologics/Biosimilars and Novel Biologics
- ► Future challenges

PIBD

- Detailed History and Examination
- 25% IBD age < 16</p>
- VEOIBD different entity monogenic





PAEDIATRIC INFLAMMATORY BOWEL DISEASE (IBD)

IBD is a chronic disorder of the gut that primarily affects people in adolescence or early adulthood. The two most common forms of IBD are ulcerative colitis and Crohn's disease.

Symptoms of IBD











Lack of

Causes of IBD









Childhood



Childhood



Childhood-onset IBD accounts for almost a third of cases



The levels of paediatric IBD are increasing across



Over half of patients believe IBI negatively affects their education



Paediatric IBD causes emotional, mental and psychological stress on the individual

References

nited European Gastroenterology Journal: (1) Farthing M, Roberts S, Samuel D, Williams D, et al, Survey of digestive health acro

Red Flag signs

- Bloody Diarrhoea
- Nocturnal diarrhoea
- Arthritis
- Perianal disease
- Involuntary weight loss
- Deceleration of linear growth
- Delayed puberty
- Unexplained fever

- Family history of IBD
- Coeliac disease
- Peptic ulcer disease
- Persistent RUQ or RIF pain
- Dysphagia
- Odynophagia
- Persistent vomiting

*Clinical judgment should be according to detailed history and examination.

Investigations

Secondary Care

- **▶** FBC
- U &E/Bone/LFTs
- ► CRP+ESR
- ► TFTS
- ► Stool M C +S
- ► FCP

Ferritin

Coeliac and Igs

Vit D B12 Folate Zinc

Tertiary Care

- ▶ As per Secondary
- Upper Endoscopy
- Ileocolonoscopy
- Mri Abdo

Video Capsule

Faecal Calprotectin

- NOT DIAGNOSTIC
- ▶ Do not use age <2 years</p>
- Validated in children with known IBD for response to treatment
- Useful BUT raised in
 - NSAIDS
 - Infection
 - Polyps
 - Helicobacter pylori
 - Constipation with Anal tear/Fissure

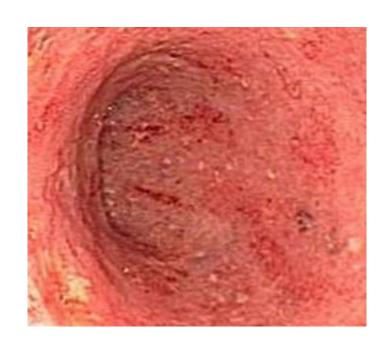
Referral Criteria

- History + Examination
- Chronic Bloody Diarrhoea –negative cultures
- NB markers in UC often normal
- Anaemia with high platelets, Low albumin Abnormal Inflammatory markers
- Raised FCP in context
- Isolated Perianal Disease
- Family History IBD or Autoimmune
- If unsure please call Paed Gastro



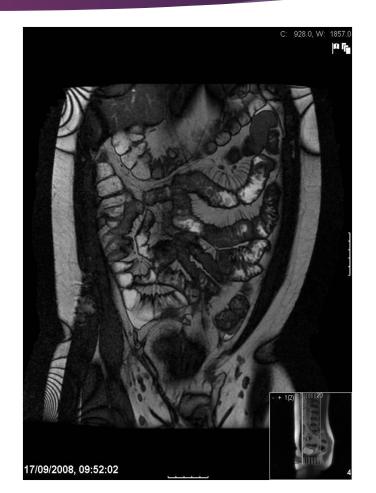
Endoscopy





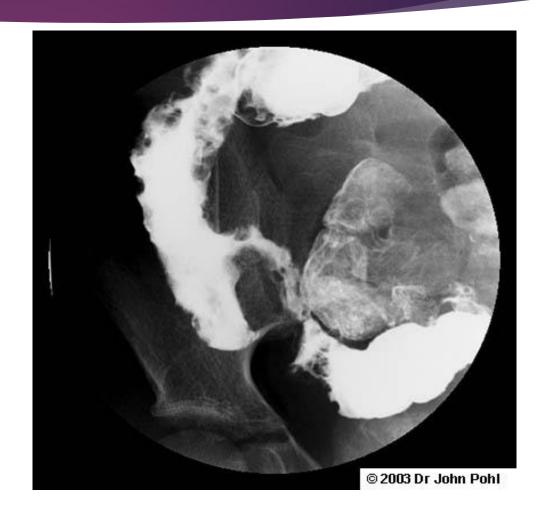
MRI



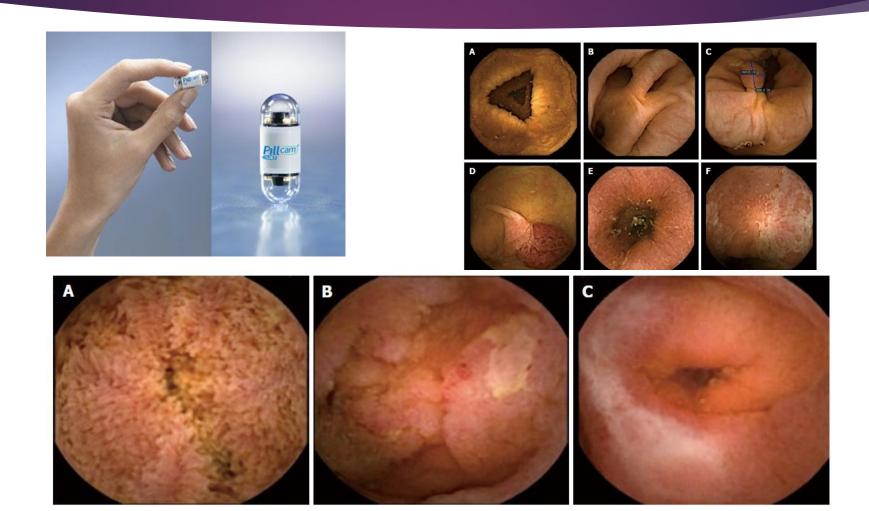


BaFT

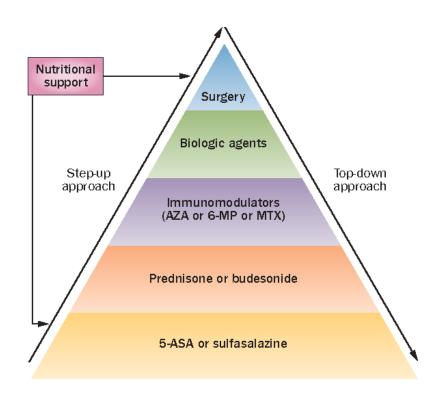




Video Capsule Endoscopy

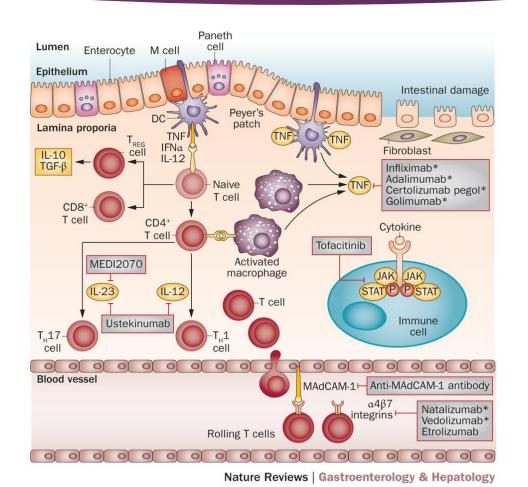


Treatment





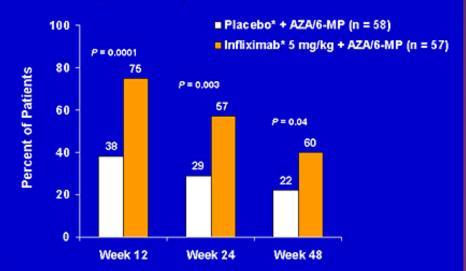
Gut Immunology



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Steroid-Free Remission

Remission (CDAI <150) and Discontinuation of Steroids



*Placebo and infliximab were administered at weeks 0, 2, and 6. Lemann M, et al. Gut. 2003;52(Suppl VI):A44.

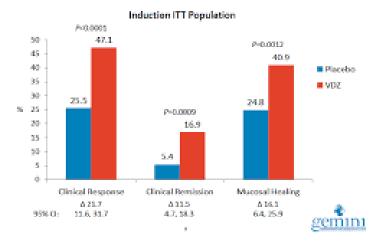
Infliximab in Pediatric Crohn's Disease (REACH)

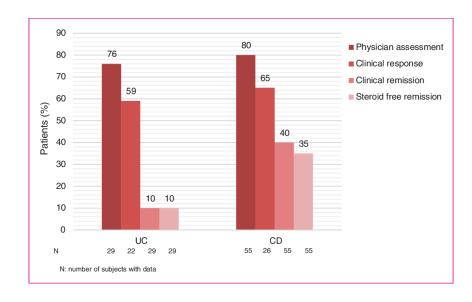
- Multicenter, randomized, open-label study (Hyams et al. 2007. Gastroenterology)
- Children with Crohn's disease on stable doses of medications / immunomodulator
 - N = 112 (6 17 yrs)
- Results
 - Week 10: 88% with response; 59% remission
 - Week 54: 64% with response; 56% remission
- *Key points:
 - Steroid-sparing regimen
- Positive effect on growth

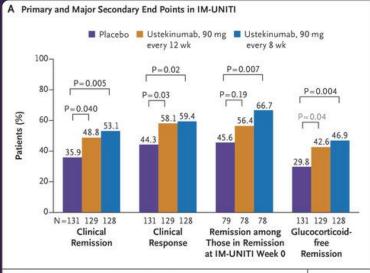


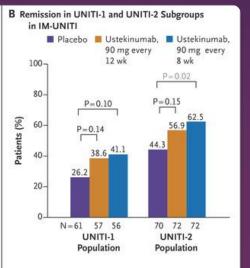
Vedolizumab

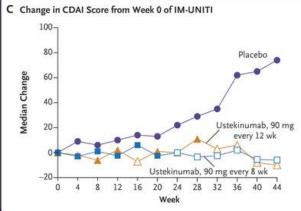
Clinical Response, Remission, Mucosal Healing at 6 Weeks

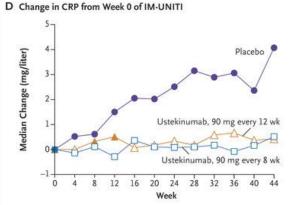








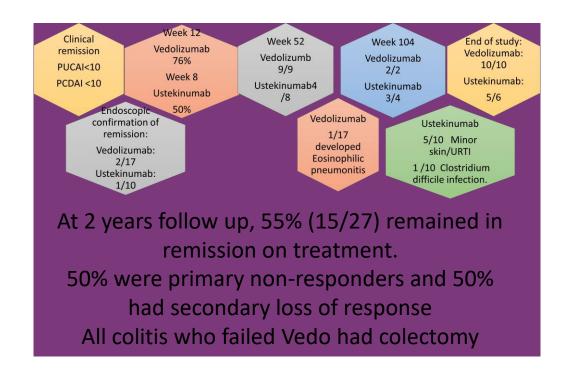




Ustekinumab

Vedolizumab and Ustekinumab in children

RESULTS	Vedolizumab	Ustekinumab
N (*Data expressed as median and range)	17 (1 patient received both drugs)	10
Median age at diagnosis (years)	9.1 (4.7 – 14.4)	7.0 (4.0 – 12.4)
Diagnosis n	UC 13/17 IBDU 2/17 CD (2/17 - research)	CD 10/10
Disease location	E4 14/17	L3 8/10
(Paris classification) n	E2 1/17	L2 2/10
	L2L4apG0 2/17	Upper involvement 50%
		Peri anal disease 70% Growth failure 70%
Length of prior anti-TNF treatment (months)	4.8 (0 – 44.7)	24.3 (6.8 – 50.3)
Treatment length (months)	13.5 (2.6 – 41.2)	22.0 (7.1 – 28.1)
Follow up length (years)	4.1 (2.0 – 12.4)	8.0 (2.8 – 11.9)



Future Challenges

- National Equity-PGHAN AUDIT
- Access to medications
- Research and Ethics
- Funding
- Guidelines:
- https://www.ecco-ibd.eu
- https://www.espghan.org/knowledgecenter/publications/Gastroenterology/2020-The-Medical-Management-of-Paediatric-Crohn-s-Disease--an-ECCO-ESPGHAN-Guideline-Update