

Surgical Aspects of IBD

Diagnostic pitfalls, new treatments & surgical innovations

Prof Robert Hannon

Consultant in General, Colorectal & Laparoscopic Surgery





Types of Colitis

A) Ulcerative Colitis

Proctitis



Left-sided colitis

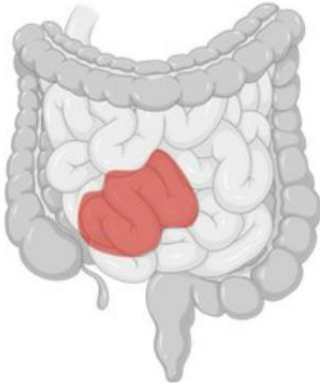


Extensive colitis

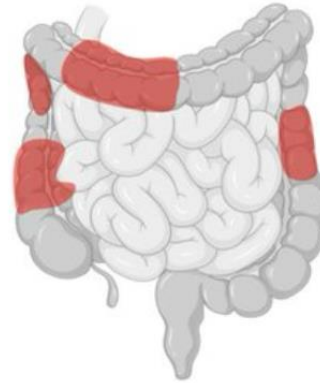


B) Crohn's Disease

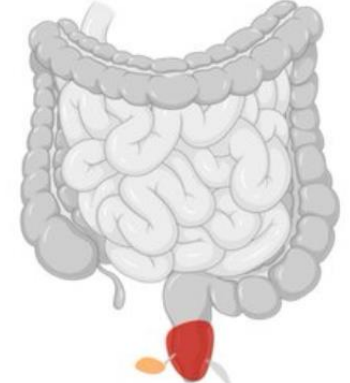
Ileocecal Crohn's disease



Crohn's colitis



Fistulising Crohn's disease



Symptoms of Colitis

- Diarrhoea
- Bleeding
- Mucous
- Abdo pain/ Cramps
- Fever

Differential Diagnosis

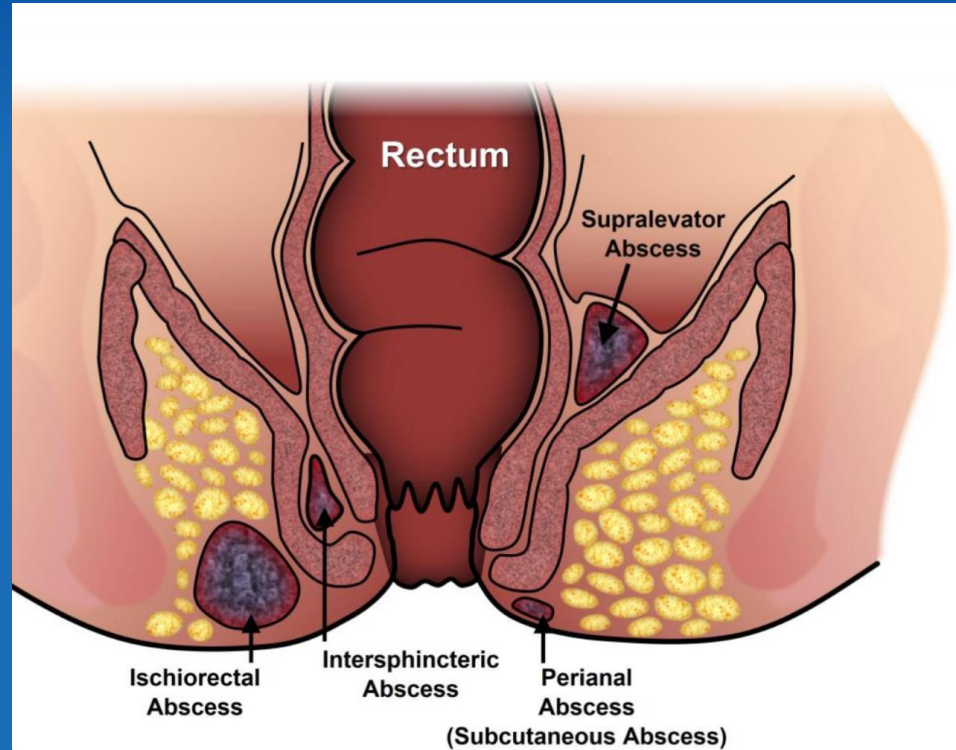
- Acute viral/bacterial (including post-Covid)
- Parasitic (foreign travel)
- “Hospital Colitis” – C.Diff, Ischaemic , Diverticulitis
- Microscopic (endoscopically normal, biopsies +) Rx: Budesonide
- Drug (NSAID, Recreational - C, K)

Consider IBD if symptoms persist after treatment - Chronicity

- Biopsies will confirm chronic inflammation (granulomas)

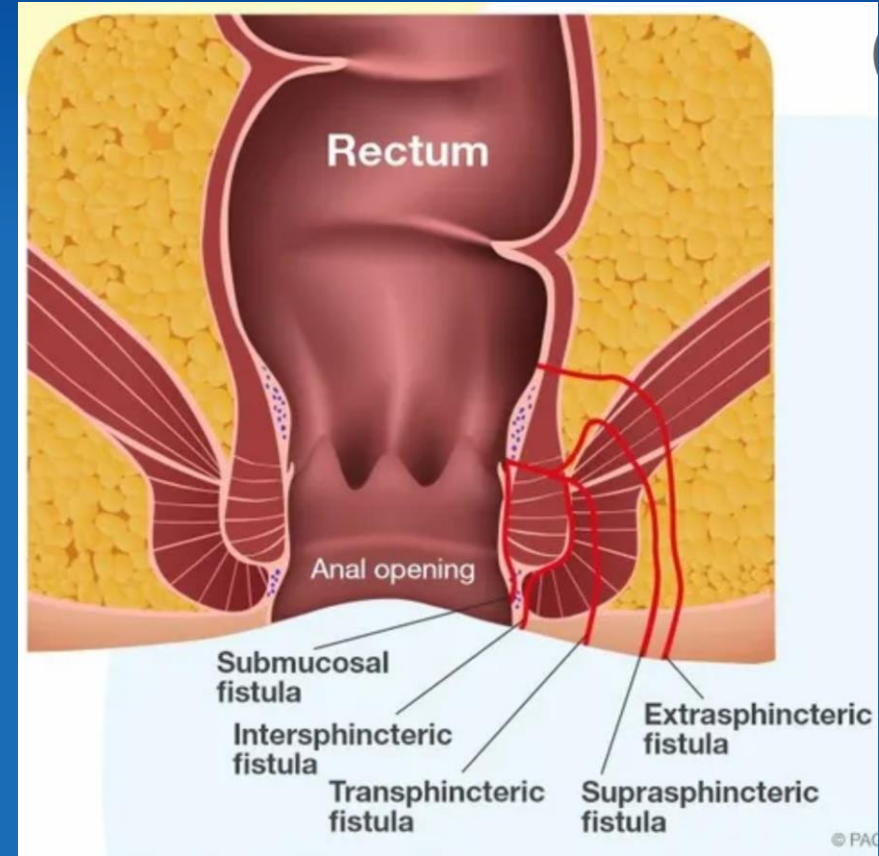
Peri-anal presentations

- Perianal abscess & fistula
- Crypto - glandular disease



Peri-anal presentations

- Perianal abscess & fistula
- Crypto - glandular disease
- Treatment with Seton, Fistulotomy
Plug or Flap



Consider Crohn's in complex disease

- Crohn's Perineum
- Atypical Pilonidal disease
- Atypical Hidradenitis



Prevalence

- 40,000 cases in Ireland
- UC 15/100,000
-
- Crohn's 5/100,000

Numbers



Etiology

- Environmental v Genetic

Numbers

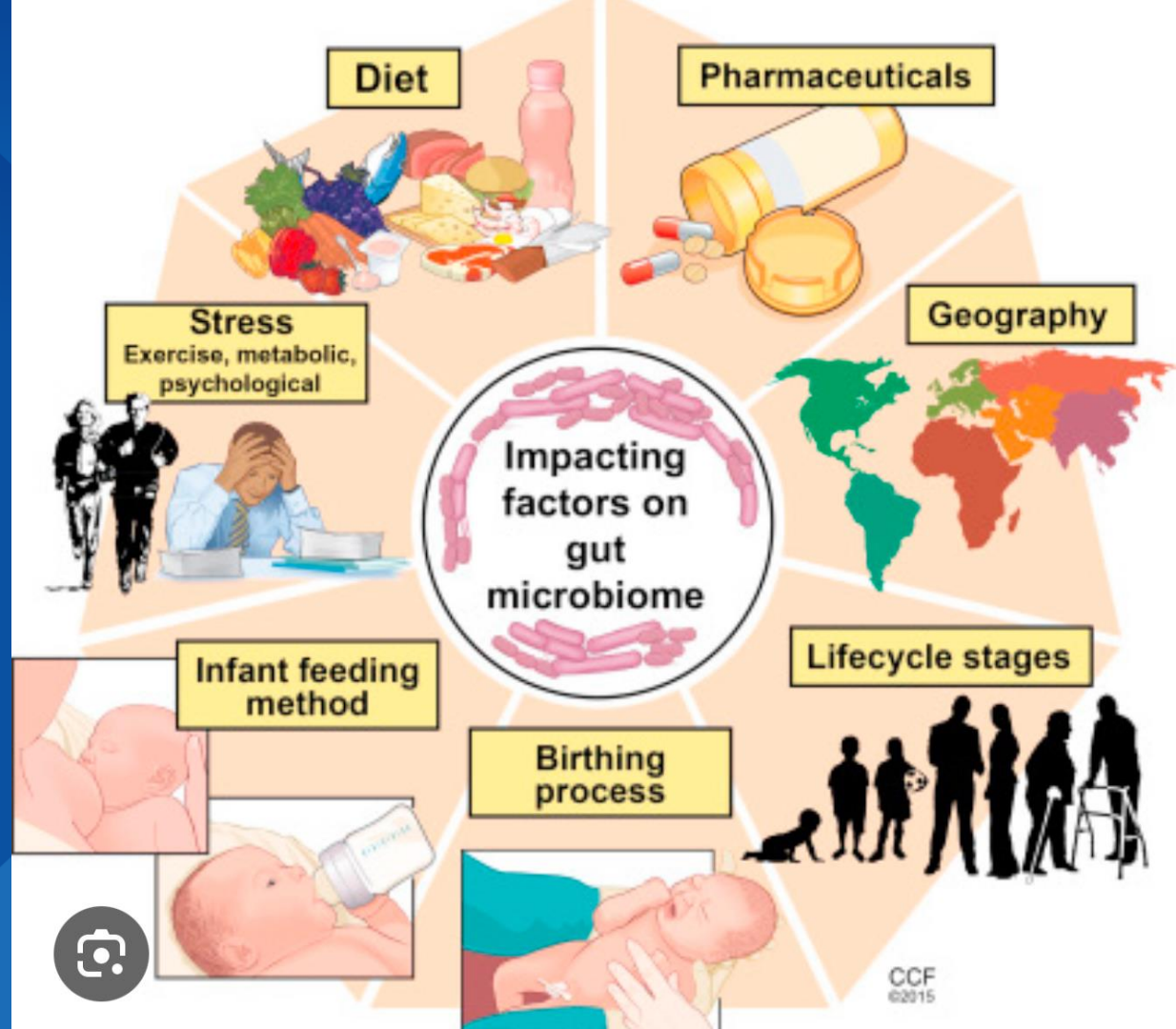


- Environmental
 - NS gradient
 - EW gradient
 - Incidence follows GDP



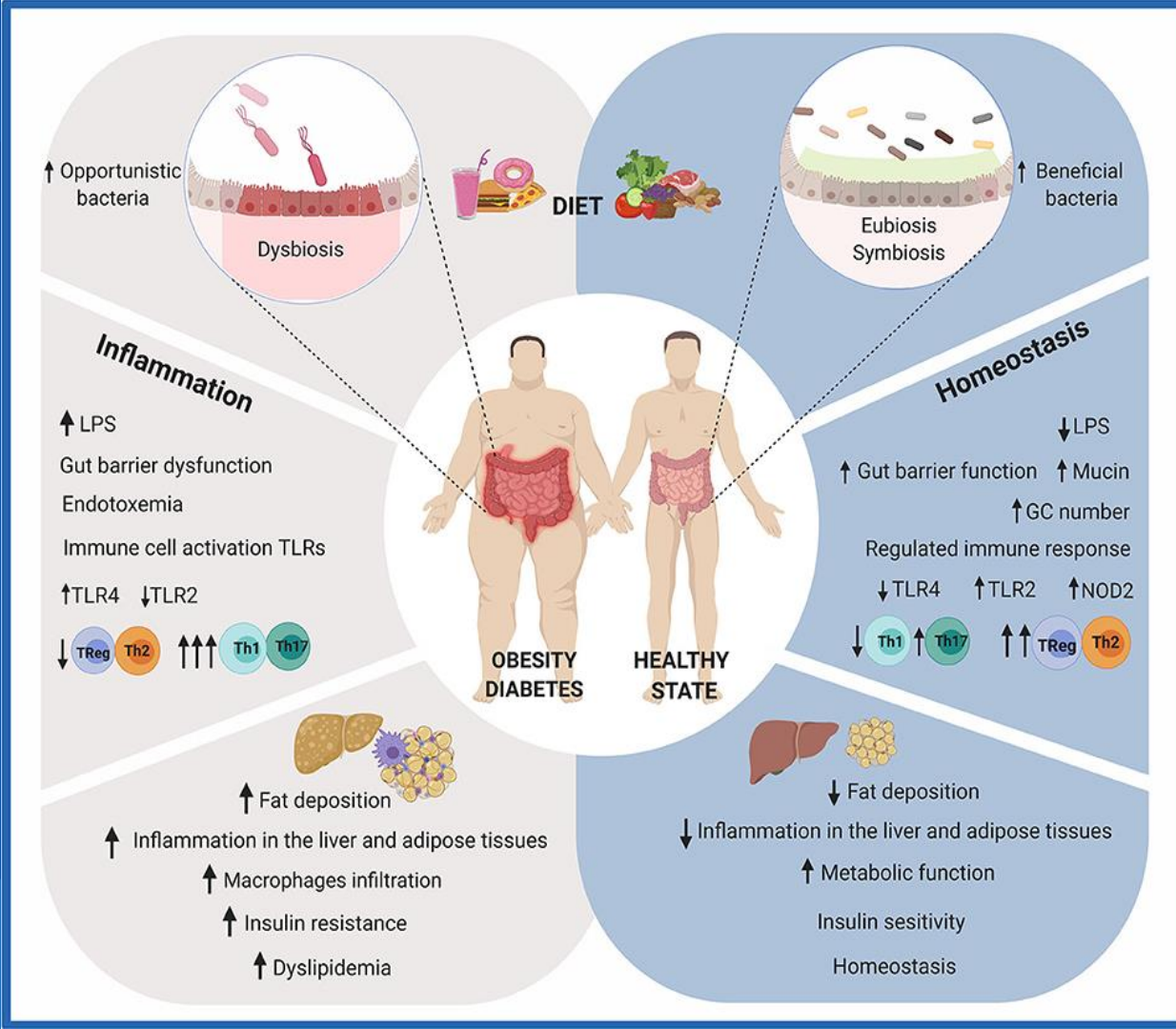
Pro-Inflammatory

- Antibiotics
- More C/S
- Sterile environments
- Ultra processed foods
- Breast feeding
- Smoking /vaping



Obesity

- Fat deposition
- Insulin resistance
- Tissue Inflammation

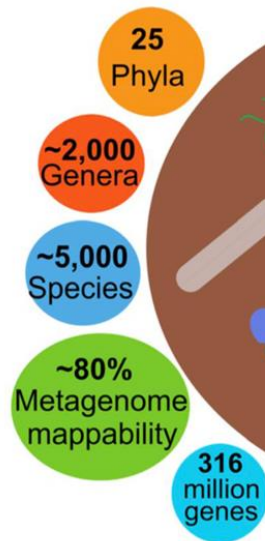


Loss of Microbiome Diversity

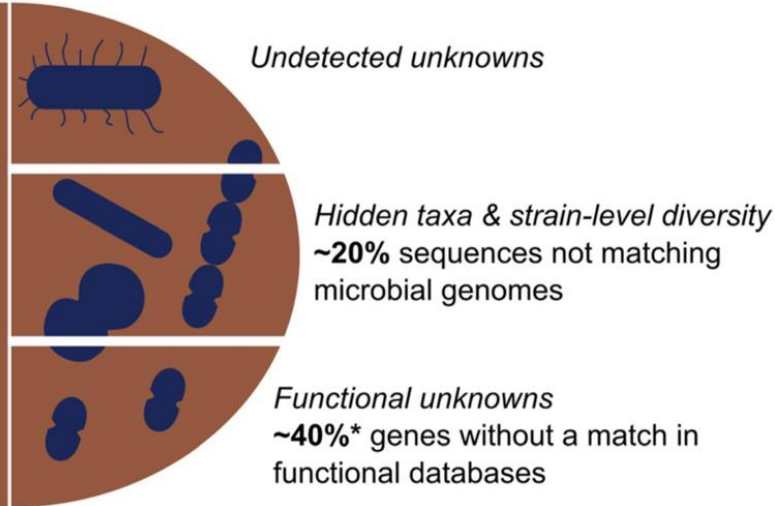


The human microbiome

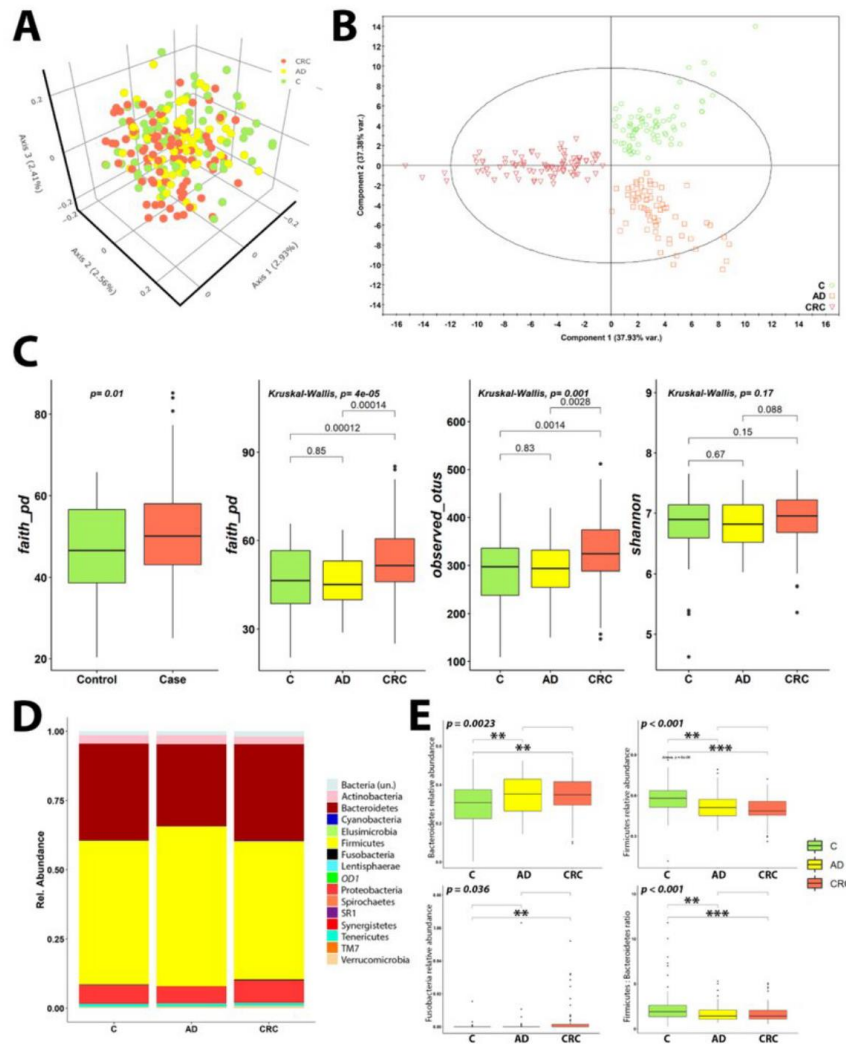
What is known?



What is unknown?



Microbiome Diversity



Microbiome function

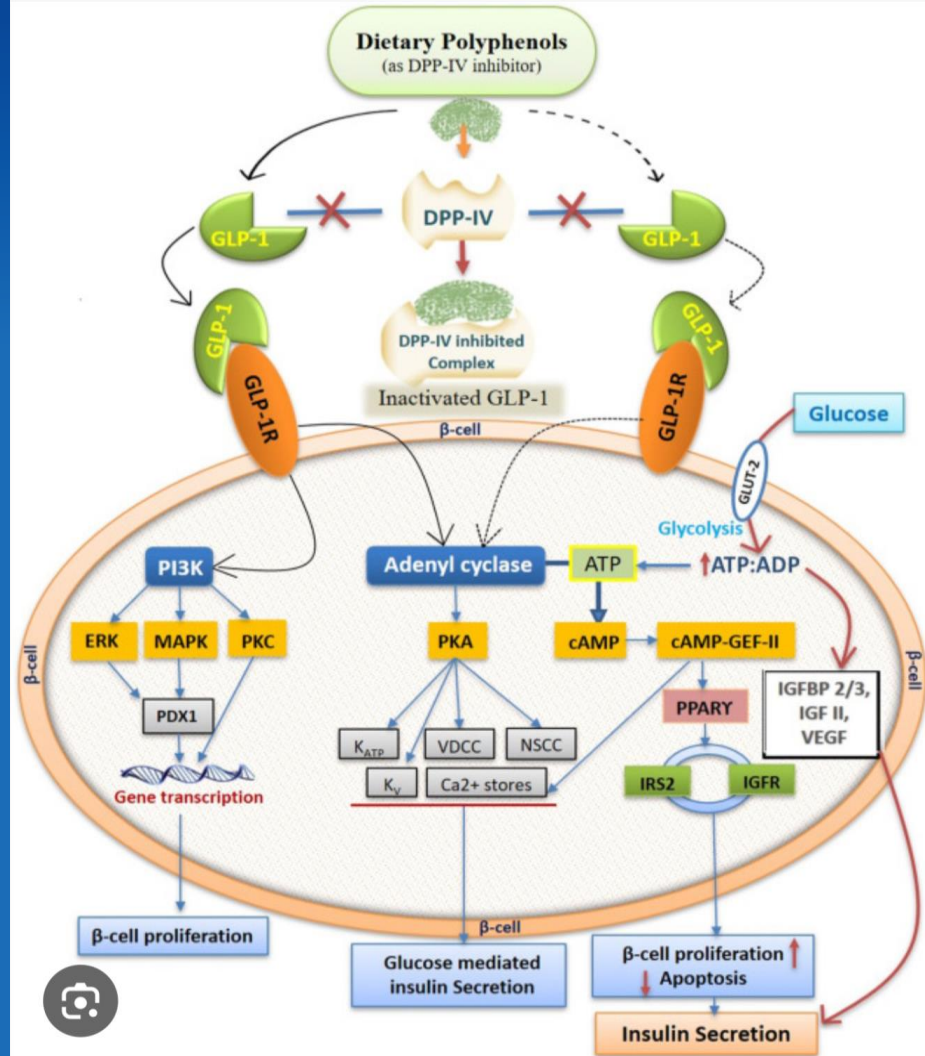
Polyphenols



Butyrate



GLP-1

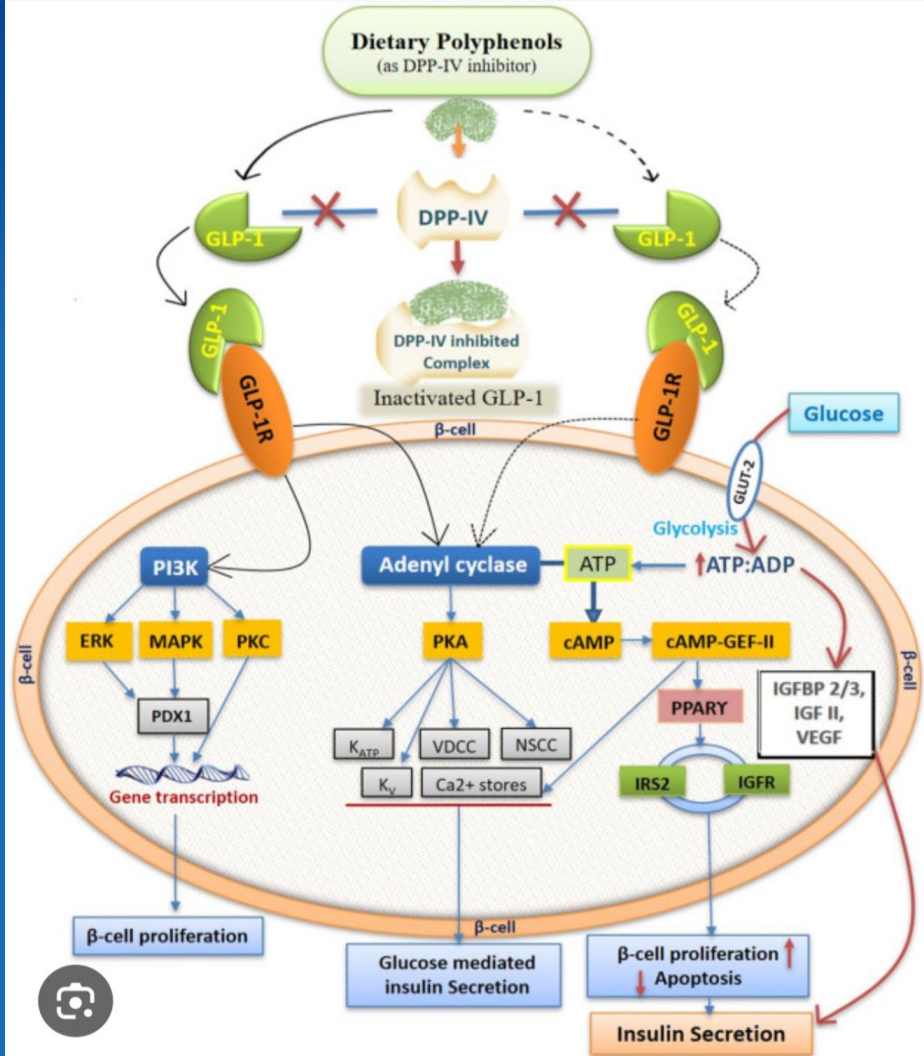


GLP-1

Fat deposition

Insulin resistance

Inflammation



Faecal Microbiota Transplantation (FMT)

Early Promise in treating UC



Pre-biotics v probiotics



Try: Fancy fruit, veg, beans and nuts to improve gut diversity



It's our everyday diet that makes the biggest difference to our gut health and there are some small tweaks you can make to improve it. The main goal is to eat more fibre (aim for 30g per day) and get plenty of diversity into our diet, according to Dr Leeming.

“It could be an extra portion of fruit or veg each day, having a cup of beans daily or adding delicious herbs and spices to your meals,” she says. “They’re high in fibre and great for the gut microbes.”

Mediterranean Diet



Mediterranean Diet

Future Fitness GYM Nellore
30 Jun 2020 · 🌐

Benefits of Kiwi Fruit:

1. Can Help Asthma
2. Supports Immune Function...see more



FutureFitness A/C GYM
Ladies & Gents

KIWI FRUIT BENEFITS:

1. Can Help Asthma
2. Supports Immune Function
3. Prevents Vision Loss
4. Fights Inflammation
5. Helps in Weight Loss
6. Improves Digestion

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Check out our latest blog post on: Bladder & Bowel Health - Small Habits, Big Impact 🥝...see more



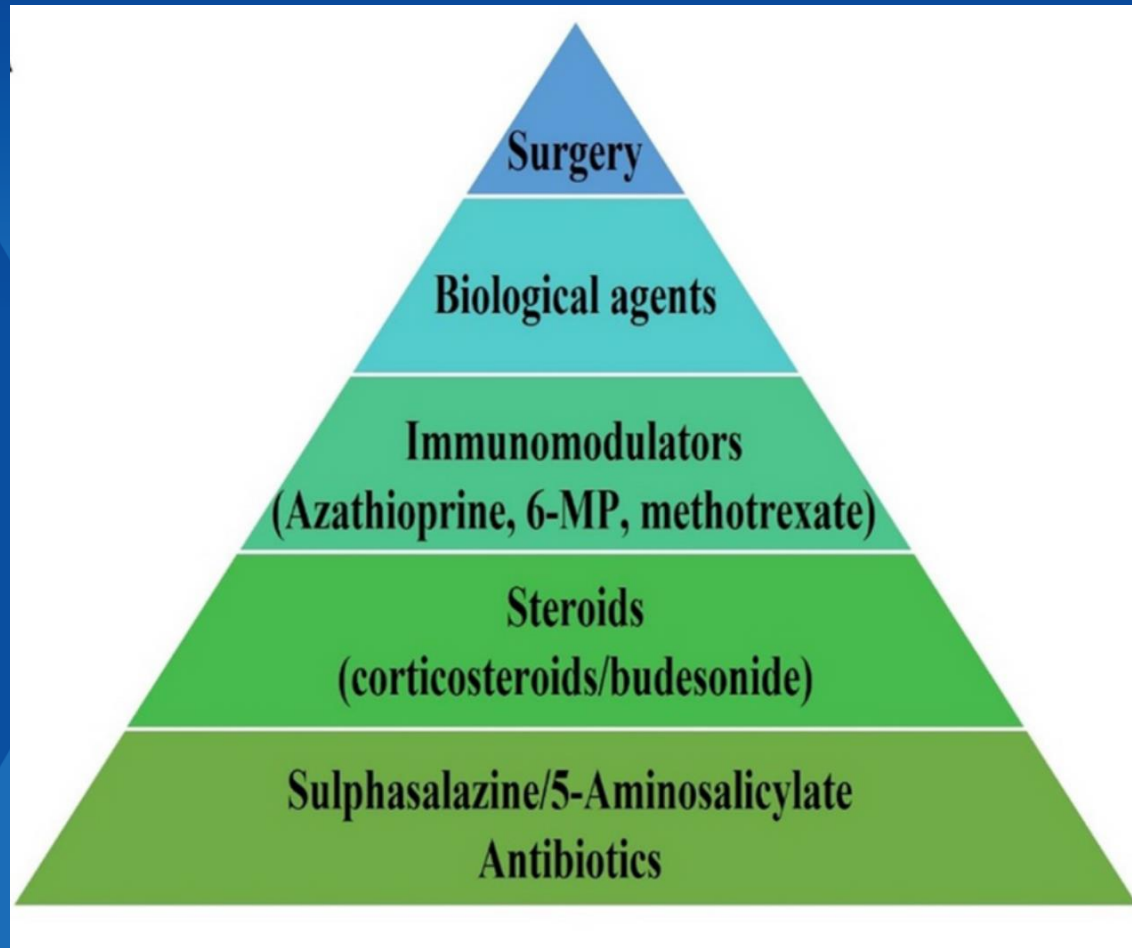
BLADDER & BOWEL HEALTH:
SMALL HABITS, BIG IMPACT

 Secret Women's Business
Physiotherapy

Pre-biotics v probiotics



Conventional Treatment



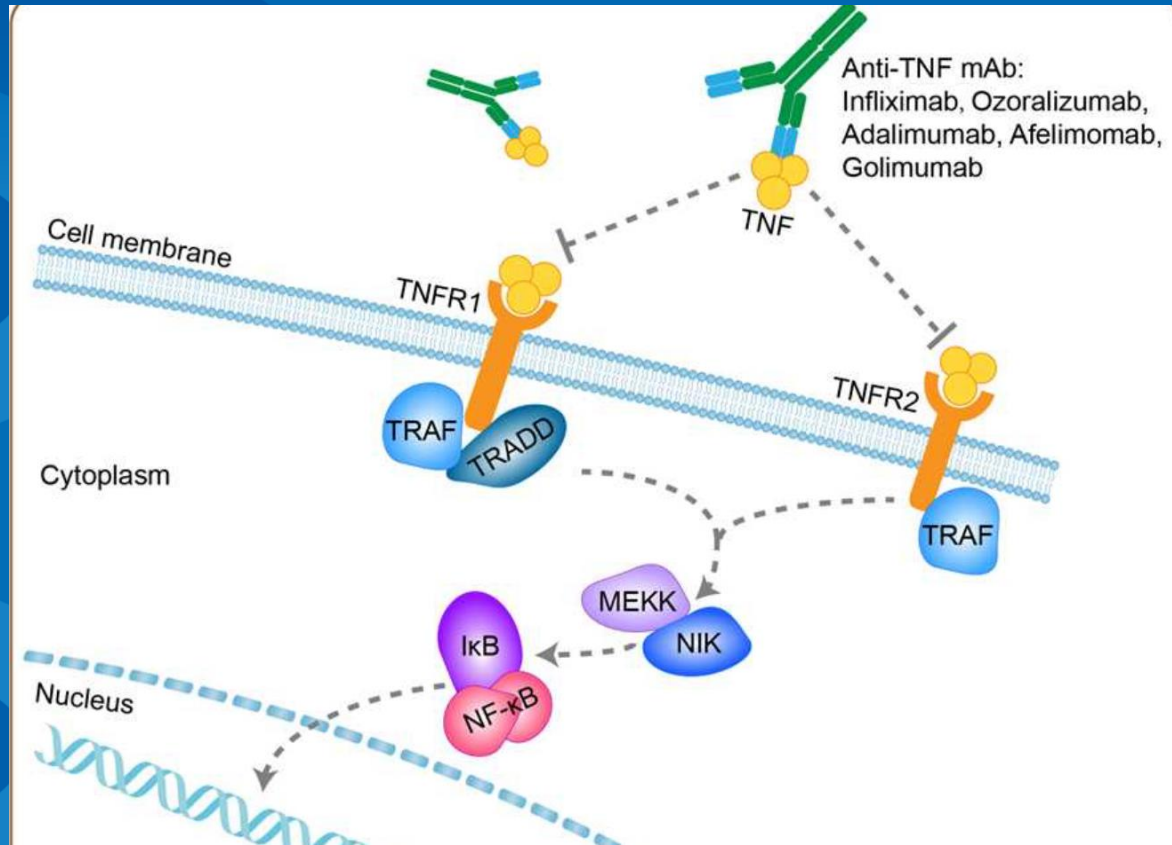
Conventional
Treatment

5-ASA



Biologics (Infiximab
.....imab)

Biologics



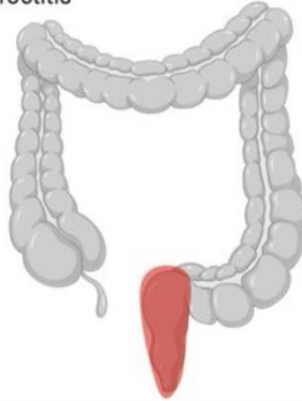


Surgery

Less frequent
More difficult

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Proctitis



Left-sided colitis

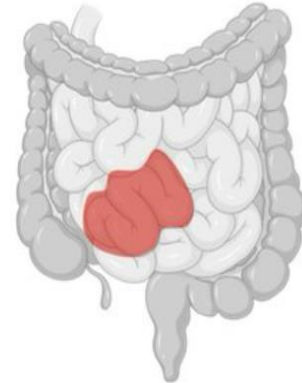


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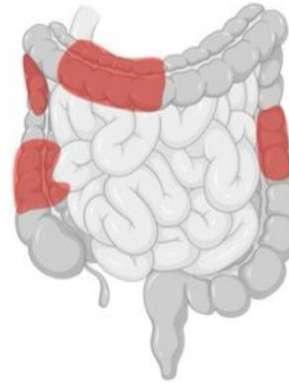


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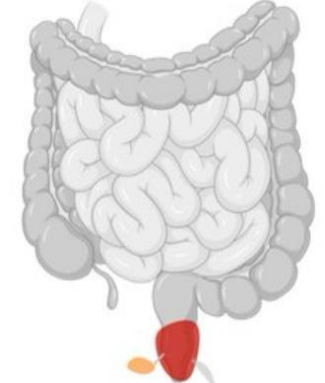
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Surgery

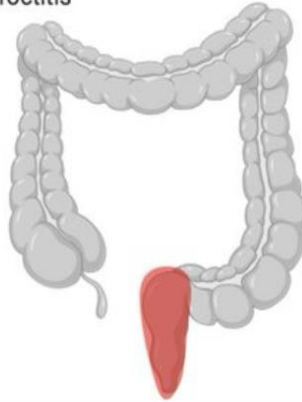
Ileo-caecal res

Stricturoplasty

Colectomy
(3 stage)

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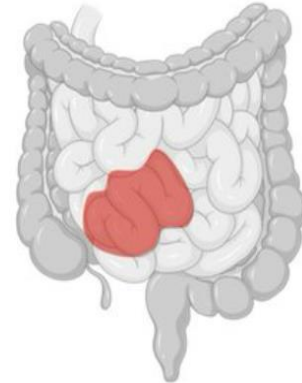


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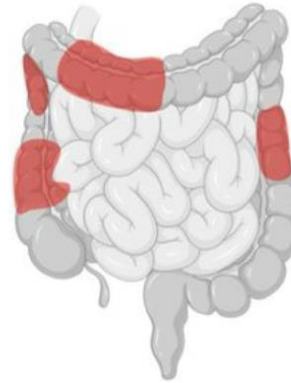


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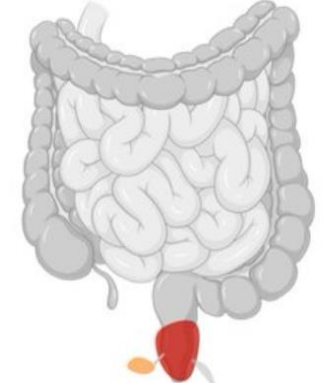
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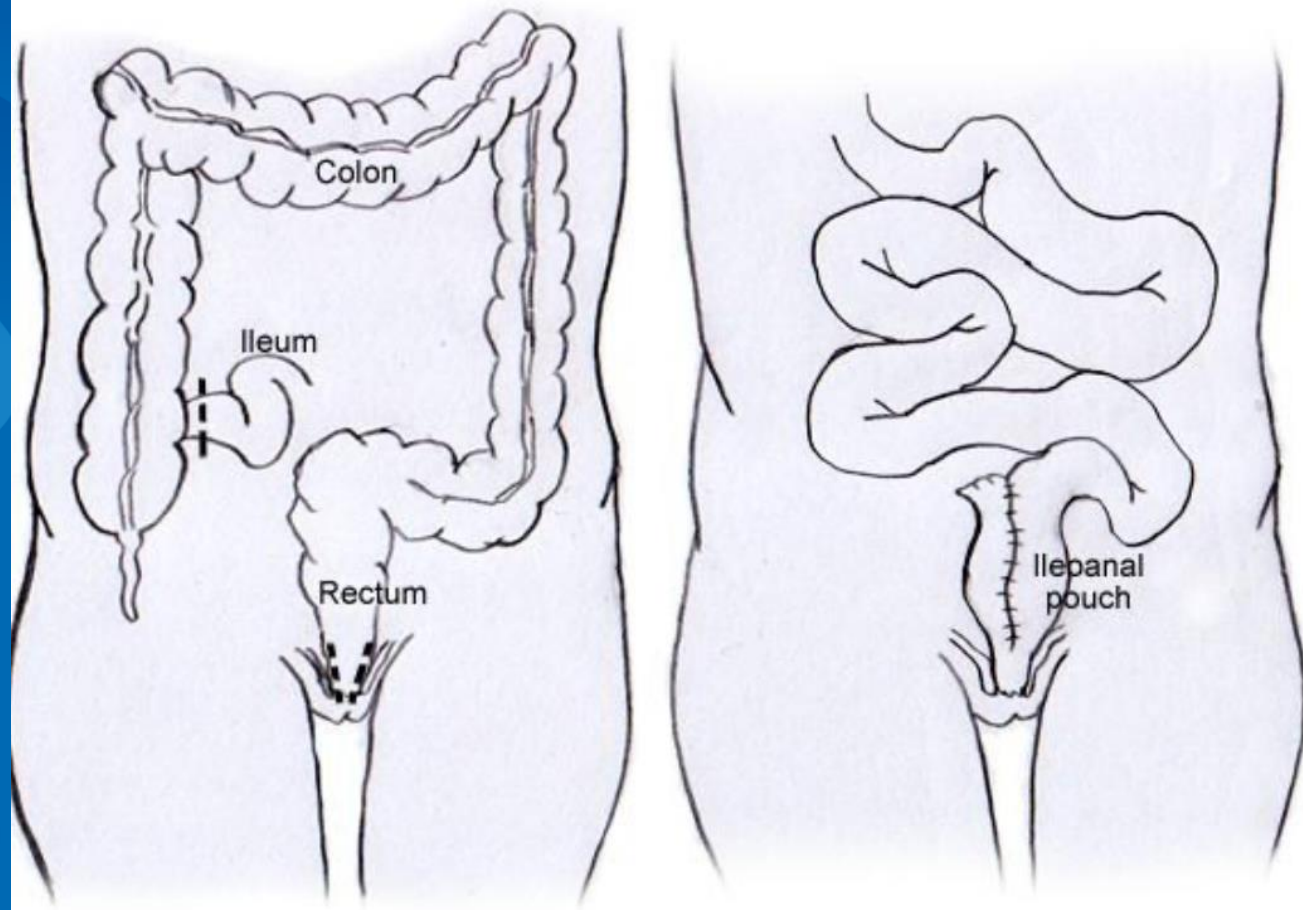
Crohn's colitis



Fistulising Crohn's disease



IPPA



pouch-anal anastomosis.

In Summary

Diagnosis- Chronicity

Environmental pro-inflammatory states

Polypenols



In Summary

Biologics- game changer

Surgical innovation (laparoscopic/robotic)

Surgery less common, more complicated

Experience required!!

Thank you