

Small Bowel Bacterial overgrowth

- Normal duodenum and jejunum contains fewer than 10^4 ml organisms.
- When it becomes 10^8 to 10^{10} /ml it is called

Blind loop syndrome

Cause - That impair the controlling mechanism of bacterial overgrowth.

1) Crohn's disease

2) Structural

↳ Gastric surgery (Blind loop after Billroth operation)
↳ Stricture
↳ Diverticulosis

3) Impaired motility

→ Systemic sclerosis → Fibrosis

→ Diabetic autonomic neuropathy → Delayed empty.

→ Chronic intestinal pseudo-obstruction

4) Impaired Immune function - Hypogammaglobulinemia
↓ IgA + M.

5) Hyper or achlorhydria

- Pernicious anemia

- Partial gastrectomy

- Long term proton pump inhibitors

Pathophysiology Clinical Features

- Symptoms of the Cause

→ Watery diarrhea, steatorrhea

→ Anemia & Vitamin B₁₂ deficiency

Lab Investigation

- X-ray Barium Meal

- Biopsy to ~~low~~ exclude Coeliac disease

→ Aspiration of jejunum content and culture

→ Hydrogen Breath test by oral lactulose

→ ↓ Vitamin B₁₂, & ↑ Folic acids due to production by bacteria

→ ↓ Serum Immunoglobulin

Treatment: Nutrient supplement