













3/4/2024













A	CUTE ABDOMINAL PAIN WORK-UP	
	Labs Serology: CBC, metabolic panel, inflammatory markers Urine studies 	
15-	Imaging	
	CT Upper GI series	
	Meckel's scan	























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ROTATION: By 10th week gestation, the GI tract returns to the abdomen, making another 180 degree counterclockwise turn for a total of 270 degree turn

RETURN: At 11th week gestation and on, fixation of the bowel in the abdomen occurs



VOLVULUS

Any process that interferes with normal elongation, herniation, rotation, and return of bowel in the abdomen will result in some degree of incomptele intestinal rotation. Malrotation = failure to complete the full 270 degree rotation

The SMA runs alongside the duodenum (instead of crossing anterior to it), so it is now within a narrow mesenteric pedicle that connects the duodenaljejunal junction with the cecum.

Abnormal tissue referred to as **Ladd's bands** attaches the cecum to the duodenum (beginning of small intestine) and may create a blockage in the duodenum.

Blood supply to the intestine is channeled through very narrow mesentery, and because the intestine is not properly fixated, the bowel can twist on its own blood supply, which is **volvulus**







Presentation: Billious emesis (50%), scaphoid abdomen (if obstruction is proximal) Internation: Billious emesis (50%), scaphoid abdomen (if obstruction is proximal) Nationarial distanciant (use to bowel edema) 0.40 oftinarial distanciant (use to bowel edema) 0.70 oftinarial diadomen 0.80 stols (from mucceal sbughing from ischemia) 0.80 stols (from mucceal sbughing from ischemia) 0.80 stols (inform mucceal sbughing



















Viruses are most common: norovirus, enterovirus, astrovirus, adenovirus, rotaviru

- Presentation
 Vomiting (non-bilious)
 Jairrhea (can be watery, can be bloody)
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 Fever
 Geven
 May have signs of dehydration: decreased urine output, dry mucous
 membranes, no tear production when crying, sunken fortanele

ANTIBIOTICS NECESSARY?





AVOID antibiotics (rarely indicated)

Risk of hemolytic-uremic syndrome, which is leading cause of acquired renal failure due to antibiotic treatment of Shiga toxin-producing E. Coli (STEC) infections • Thrombocytopenia • Microangiopathic hemolytic anemia • Renal insufficiency

- When is antibiotic treatment necessary in gastroenteritis?

 Salmonella infections in certain populations: Less than 3 months of age and immunocompromised including sickle cell disease



Oral rehydration versus IV fluids

Symptomatic care: ondansetron (avoid in congenital long QTc syndrome)

Avoid anti-diarrheals such as loperamide

Potential complications of gastroenteritis

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- Intrussusception Bacteremia (Immunocompromised) Meningitis Osteonyellis (particularly Salmonella in those with sickle cell disease) Hemolytic-uremic syndrome Guillain-Barre (after Campylobacter infection) Reactive arthritis

SUMMARY Intussusception: Episodes of severe pain; currant jelly (bloody) stool is late finding warning of imminent ischemia; ultrasound is first line and air/contrast enema is diagnostic and first line treatment Meckel's Diverticulum: Most common symptomatic presentation is episodic bleeding and typical age of presentation is 2 years old or less Pyloric stenosis: Frequent, forceful non-bilious emesis that can cause hypochloremic hypokalemic metabolic acidosis; manage electrolytes and hypovolemia first; not a surgical emergency Θ Volvulus: Often presents as bilious emesis and can quickly lead to howel ischemia Appendicitis: Risk of developing intra-abdominal abscess if perforated; Antibiotics required post-op if perforated or abscess present Gastroenteritis: Usually self-limiting; treat Salmonella if <3 months old or immunocompromised

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