



Intussusception is defined as a **telescoping** of a part of the intestine into the lumen of adjoining intestine.

This most often occurs idiopathically; however, a **lead point** may be implicated (e.g. enlarged Peyer's patches or sites of anatomic abnormality)



PRESENTATION

| HISTORY | PHYSICAL EXAM |
|---|---|
| <p>Epidemiology</p> <ul style="list-style-type: none"> Male > female 3 months to 3 years old (peak 6 to 12 months) Recent viral illness <p>Clinical Symptoms</p> <ul style="list-style-type: none"> Episodic abdominal pain Lethargy Vomiting Red "currant jelly" stools (uncommon) Poor feeding | <p>General Exam</p> <ul style="list-style-type: none"> Tachycardia, hypertension, pallor Patient is uncomfortable & unwell Late sign: hypovolemic shock (tachypnea, tachycardia, lethargy) <p>Abdominal Exam</p> <ul style="list-style-type: none"> May be normal Palpable abdominal mass Abdominal distension Late sign: peritonitis (rigidity, guarding, rebound tenderness) |

DIAGNOSIS

Abdominal Ultrasound

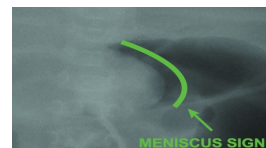
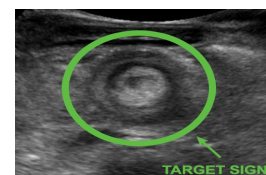
- Can be used as quick initial diagnostic test if diagnosis is uncertain
- Look for 3-5cm mass deep to abdominal wall with target sign appearance

Enema (Liquid Contrast or Air)

- Most sensitive and specific test that is both diagnostic and therapeutic
- Look for meniscus sign or filling defect

Abdominal Plain-Film X-Ray

- Poor sensitivity and specificity for diagnosis of intussusception
- Useful to rule out suspected obstruction or perforation of bowels



CONSULT SURGERY IMMEDIATELY if suspected peritonitis, shock or free intra-abdominal air
(note: enema is contraindicated in these cases)

MANAGEMENT

- Fluid resuscitation (isotonic IV)

Enema Reduction

- Best option for clinically stable patients
- Enema can be air, saline, water soluble contrast, or ultrasound-guided
(note: no clear advantage among enema modalities)

OR

Surgical Reduction

- Best option for unstable patients (hypovolemic shock, peritonitis)
- Laparoscopic or open surgery to milk out the intussusception
- If reduction fails or bowel is non-viable, resection of bowel area is performed

PROGNOSIS

Excellent prognosis if treated early

Late diagnosis can lead to bowel ischemia, sepsis and risk of mortality

Intussusception reoccurs after ~10% of enema reductions, 2-5% of surgical reductions

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Jonah Isen (Medical Student, Queen's University), Dr. Andrea Winthrop (Pediatric Surgeon, Queen's University) for www.pedscases.com