



Overview

- Volvulus
 - General definition, Epidemiology

Sigmoid Volvulus

- Epidemiology
- Clinical Presentation
- Radiologic Findings
- Non-surgical Treatment
- Surgical Treatment

Summary

Questions

3

Cecal Volvulus

- Epidemiology
- Clinical Presentation
- Radiologic Findings
- Non-surgical Treatment
- Surgical Treatment

- Volvulus
- **Definition:** Large bowel obstruction caused by the twisting of the colon more than 180° about the axis of the mesentery.
- Epidemiology:
 - 2-5% of the large bowel obstructions in U.S. Sigmoid colon 65-75% Cecum 20-25%

Transverse colon 1-4%

• Worldwide up to 50% of large bowel obstructions.



Sigmoid Volvulus

Epidemiology

- Most commonly seen in patients over 70.
- Usually a history of chronic constipation.
- Also seen in institutionalized patients with a history of neuropsych conditions.
- These conditions lead to a redundant sigmoid colon, long/floppy narrowed mesentery, twisting of the bowel and mesentery.

Clinical Presentation

- **History:** Sudden onset abdominal pain, distention, and minimal flatus or bowel movements
- **Exam:** Abdomen markedly distended, tympanic, tenderness. Tachycardia and peritoneal signs are concerning.



























ecal	Sigmoid
Axial torsion	- Counterclockwise torsion
lways surgery	- May attempt endoscopic decompression
adiographically: Colonic haustra maintai One air fluid level	Radiographically: ned - No haustra - Multiple air fluid levels
Less common, often youn opulation	ger - More common, often older population













Sources

- Textbook of Surgery. Sabiston, 17th edition.
- Acute Care Surgery. Britt. 2012.
- Diseases of the Colon and Rectum Vol. 59.
 - Clinical Practice Guidelines for Colon Volvulus and Acute Colonic Pseudo-Obstruction. Jon D. Vogel, M.D., et al